

Appendix D. Output Power Measurement

<5G NR Note>

General Note:

1. Referencing the procedure in KDB 941225, the test procedures are outlined as below
 - a. For DFT-OFDM output power measurement, full measurement was done for Pi/2 BPSK and QPSK and for the largest supported bandwidth, repeat test for 16QAM/64QAM/256QAM under 1RB 1Offset configuration. For smaller bandwidth, measure conducted power for Pi/2 BPSK and 1RB 1Offset configuration.
 - b. According to the tune-up, CP-OFDM output power is not ½ dB higher than DFT-OFDM mode, and the reported SAR of DFT-OFDM mode reported SAR is ≤ 1.45 W/kg, SAR test and thus conducted power for CP-OFDM mode is not required.
 - c. To start SAR test for the largest channel bandwidth for Pi/2 BPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. Also do SAR test for 50% RB allocation for Pi/2 BPSK SAR testing using 1RB Pi/2 BPSK allocation procedure
 - d. For Pi/2 BPSK with 100% RB allocation, SAR test is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
 - e. For higher modulation QPSK/16QAM/64QAM/256QAM, according to tune-up document the power level is not ½ dB higher than the same configuration in Pi/2 BPSK, also reported SAR for the Pi/2 BPSK configuration is less than 1.45 W/kg, QPSK/16QAM/64QAM/256QAM SAR testing are not required.
 - f. Smaller bandwidth output power for each RB allocation configuration for this device is not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
2. Due to test setup limitations, SAR testing for NR TDD power class 3 was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission. And only for TDD power class2 was performed using Factory Test Mode software to establish the connection and perform SAR with 50% transmission
3. For NR FDD was establishing connections via a base station simulator to use for output power measurement and SAR testing.

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Table 6.2.2-1 Maximum power reduction (MPR) for power class 3

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	Pi/2 BPSK	≤ 3.5 ¹	≤ 1.2 ¹	≤ 0.2 ¹
		≤ 0.5 ²	≤ 0.5 ²	0 ²
	QPSK	≤ 1		0
	16 QAM	≤ 2		≤ 1
	64 QAM			≤ 2.5
CP-OFDM	256 QAM			≤ 4.5
	QPSK	≤ 3		≤ 1.5
	16 QAM	≤ 3		≤ 2
	64 QAM		≤ 3.5	
	256 QAM		≤ 6.5	

NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability *powerBoosting-pi2BPSK* and if the IE *powerBoostPi2BPSK* is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0 dB MPR is 26 dBm.

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 with Pi/2 BPSK modulation and if the IE *powerBoostPi2BPSK* is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.

Table 6.2.2-2 Maximum power reduction (MPR) for power class 2

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	Pi/2 BPSK	≤ 3.5	≤ 0.5	0
	QPSK	≤ 3.5	≤ 1	0
	16 QAM	≤ 3.5	≤ 2	≤ 1
	64 QAM	≤ 3.5	≤ 2.5	
	256 QAM			≤ 4.5
CP-OFDM	QPSK	≤ 3.5	≤ 3	≤ 1.5
	16 QAM	≤ 3.5	≤ 3	≤ 2
	64 QAM		≤ 3.5	
	256 QAM		≤ 6.5	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	25.0
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	23.74	23.77	23.67	
40	PI/2 BPSK	1	108	23.48	23.56	23.46	24.5
40	PI/2 BPSK	1	214	23.51	23.52	23.48	
40	PI/2 BPSK	108	0	23.14	23.17	23.17	25.0
40	PI/2 BPSK	108	54	23.56	23.57	23.51	24.5
40	PI/2 BPSK	108	108	22.98	23.04	22.95	24.5
40	PI/2 BPSK	216	0	23.08	23.09	23.05	
40	QPSK	1	1	23.74	23.76	23.73	25.0
40	QPSK	1	108	23.55	23.63	23.57	
40	QPSK	1	214	23.51	23.54	23.44	
40	QPSK	108	0	22.59	22.68	22.61	24.0
40	QPSK	108	54	23.55	23.59	23.54	25.0
40	QPSK	108	108	22.52	22.55	22.45	24.0
40	QPSK	216	0	22.56	22.59	22.52	
40	16QAM	1	1	22.73	22.81	22.77	24.0
40	64QAM	1	1	21.18	21.26	21.26	22.5
40	256QAM	1	1	19.10	19.19	19.16	20.5
Channel				373000	376000	379000	25.0
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	23.65	23.70	23.63	25.0
Channel				372500	376000	379500	25.0
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	23.65	23.74	23.60	25.0
Channel				372000	376000	380000	25.0
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.70	23.72	23.63	25.0
Channel				371500	376000	380500	25.0
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.73	23.68	23.61	25.0
Channel				371000	376000	381000	25.0
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.66	23.69	23.60	25.0
Channel				370500	376000	381500	25.0
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.69	23.72	23.61	25.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	23.74	23.77	23.67	25.0
40	PI/2 BPSK	1	108	23.48	23.56	23.46	
40	PI/2 BPSK	1	214	23.51	23.52	23.48	
40	PI/2 BPSK	108	0	23.14	23.17	23.17	24.5
40	PI/2 BPSK	108	54	23.56	23.57	23.51	25.0
40	PI/2 BPSK	108	108	22.98	23.04	22.95	24.5
40	PI/2 BPSK	216	0	23.08	23.09	23.05	
40	QPSK	1	1	23.74	23.76	23.73	25.0
40	QPSK	1	108	23.55	23.63	23.57	
40	QPSK	1	214	23.51	23.54	23.44	
40	QPSK	108	0	22.59	22.68	22.61	24.0
40	QPSK	108	54	23.55	23.59	23.54	25.0
40	QPSK	108	108	22.52	22.55	22.45	24.0
40	QPSK	216	0	22.56	22.59	22.52	
40	16QAM	1	1	22.73	22.81	22.77	24.0
40	64QAM	1	1	21.18	21.26	21.26	22.5
40	256QAM	1	1	19.10	19.19	19.16	20.5
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	23.65	23.70	23.63	25.0
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	23.65	23.74	23.60	25.0
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.70	23.72	23.63	25.0
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.73	23.68	23.61	25.0
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.66	23.69	23.60	25.0
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.69	23.72	23.61	25.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	16.75	16.85	16.78	18.45
40	PI/2 BPSK	1	108	16.83	16.82	16.85	
40	PI/2 BPSK	1	214	16.84	16.83	16.84	
40	PI/2 BPSK	108	0	16.85	16.82	16.80	18.45
40	PI/2 BPSK	108	54	16.87	16.89	16.87	18.45
40	PI/2 BPSK	108	108	16.66	16.75	16.72	18.45
40	PI/2 BPSK	216	0	16.86	16.92	16.91	
40	QPSK	1	1	16.66	16.76	16.72	18.45
40	QPSK	1	108	16.73	16.76	16.73	
40	QPSK	1	214	16.82	16.83	16.80	
40	QPSK	108	0	16.69	16.78	16.70	18.45
40	QPSK	108	54	16.80	16.83	16.74	18.45
40	QPSK	108	108	16.70	16.74	16.73	18.45
40	QPSK	216	0	16.80	16.84	16.83	
40	16QAM	1	1	16.83	16.84	16.82	18.45
40	64QAM	1	1	16.71	16.80	16.73	18.45
40	256QAM	1	1	16.78	16.82	16.72	18.45
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	16.75	16.75	16.81	18.45
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	16.76	16.76	16.78	18.45
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	16.71	16.80	16.74	18.45
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	16.74	16.79	16.79	18.45
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	16.83	16.73	16.77	18.45
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	16.73	16.74	16.83	18.45



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	19.02	19.05	18.89	20.75
40	PI/2 BPSK	1	108	18.83	18.95	18.90	
40	PI/2 BPSK	1	214	18.89	18.95	18.91	
40	PI/2 BPSK	108	0	18.96	18.96	19.00	20.75
40	PI/2 BPSK	108	54	19.04	19.07	19.00	20.75
40	PI/2 BPSK	108	108	19.06	19.05	18.98	20.75
40	PI/2 BPSK	216	0	19.04	19.02	19.04	
40	QPSK	1	1	18.91	18.99	18.86	20.75
40	QPSK	1	108	18.85	18.85	18.85	
40	QPSK	1	214	18.88	18.99	18.87	
40	QPSK	108	0	18.94	19.05	18.98	20.75
40	QPSK	108	54	18.98	19.02	18.92	20.75
40	QPSK	108	108	18.93	18.99	18.96	20.75
40	QPSK	216	0	18.96	19.00	18.92	
40	16QAM	1	1	18.96	18.97	18.95	20.75
40	64QAM	1	1	18.96	19.00	19.01	20.75
40	256QAM	1	1	18.98	19.00	18.95	20.5
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	18.93	18.97	18.89	20.75
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	19.02	18.97	18.89	20.75
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	18.94	19.00	18.85	20.75
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	18.92	18.95	18.95	20.75
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	19.00	19.05	18.92	20.75
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	18.92	19.03	18.94	20.75



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	19.02	19.05	18.89	20.05
40	PI/2 BPSK	1	108	18.83	18.95	18.90	
40	PI/2 BPSK	1	214	18.89	18.95	18.91	
40	PI/2 BPSK	108	0	18.96	18.96	19.00	20.05
40	PI/2 BPSK	108	54	19.04	19.07	19.00	20.05
40	PI/2 BPSK	108	108	19.06	19.05	18.98	20.05
40	PI/2 BPSK	216	0	19.04	19.02	19.04	
40	QPSK	1	1	18.91	18.99	18.86	20.05
40	QPSK	1	108	18.85	18.85	18.85	
40	QPSK	1	214	18.88	18.99	18.87	
40	QPSK	108	0	18.94	19.05	18.98	20.05
40	QPSK	108	54	18.98	19.02	18.92	20.05
40	QPSK	108	108	18.93	18.99	18.96	20.05
40	QPSK	216	0	18.96	19.00	18.92	
40	16QAM	1	1	18.96	18.97	18.95	20.05
40	64QAM	1	1	18.96	19.00	19.01	20.05
40	256QAM	1	1	18.98	19.00	18.95	20.05
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	18.93	18.97	18.89	20.05
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	19.02	18.97	18.89	20.05
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	18.94	19.00	18.85	20.05
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	18.92	18.95	18.95	20.05
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	19.00	19.05	18.92	20.05
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	18.92	19.03	18.94	20.05



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	14.38	14.51	14.49	16.3
40	PI/2 BPSK	1	108	14.40	14.49	14.41	
40	PI/2 BPSK	1	214	14.42	14.47	14.36	
40	PI/2 BPSK	108	0	14.32	14.48	14.31	16.3
40	PI/2 BPSK	108	54	14.49	14.50	14.40	16.3
40	PI/2 BPSK	108	108	14.38	14.43	14.45	16.3
40	PI/2 BPSK	216	0	14.31	14.40	14.30	
40	QPSK	1	1	14.36	14.42	14.35	16.3
40	QPSK	1	108	14.39	14.44	14.33	
40	QPSK	1	214	14.34	14.32	14.30	
40	QPSK	108	0	14.30	14.40	14.40	16.3
40	QPSK	108	54	14.30	14.38	14.30	16.3
40	QPSK	108	108	14.32	14.37	14.34	16.3
40	QPSK	216	0	14.32	14.37	14.35	
40	16QAM	1	1	14.36	14.46	14.33	16.3
40	64QAM	1	1	14.44	14.45	14.35	16.3
40	256QAM	1	1	14.40	14.45	14.34	16.3
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	14.39	14.42	14.42	16.3
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	14.42	14.44	14.41	16.3
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	14.41	14.41	14.46	16.3
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	14.46	14.46	14.49	16.3
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	14.46	14.41	14.41	16.3
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	14.38	14.47	14.47	16.3



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	14.38	14.51	14.49	15.6
40	PI/2 BPSK	1	108	14.40	14.49	14.41	
40	PI/2 BPSK	1	214	14.42	14.47	14.36	
40	PI/2 BPSK	108	0	14.32	14.48	14.31	15.6
40	PI/2 BPSK	108	54	14.49	14.50	14.40	15.6
40	PI/2 BPSK	108	108	14.38	14.43	14.45	15.6
40	PI/2 BPSK	216	0	14.31	14.40	14.30	
40	QPSK	1	1	14.36	14.42	14.35	15.6
40	QPSK	1	108	14.39	14.44	14.33	
40	QPSK	1	214	14.34	14.32	14.30	
40	QPSK	108	0	14.30	14.40	14.40	15.6
40	QPSK	108	54	14.30	14.38	14.30	15.6
40	QPSK	108	108	14.32	14.37	14.34	15.6
40	QPSK	216	0	14.32	14.37	14.35	
40	16QAM	1	1	14.36	14.46	14.33	15.6
40	64QAM	1	1	14.44	14.45	14.35	15.6
40	256QAM	1	1	14.40	14.45	14.34	15.6
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	14.39	14.42	14.42	15.6
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	14.42	14.44	14.41	15.6
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	14.41	14.41	14.46	15.6
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	14.46	14.46	14.49	15.6
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	14.46	14.41	14.41	15.6
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	14.38	14.47	14.47	15.6



<FR1 n2_Ant 1_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	20.88	21.02	20.96	21.9
40	PI/2 BPSK	1	108	20.95	20.99	20.87	
40	PI/2 BPSK	1	214	20.84	20.87	20.82	
40	PI/2 BPSK	108	0	20.88	20.96	20.82	21.9
40	PI/2 BPSK	108	54	20.90	21.01	20.94	21.9
40	PI/2 BPSK	108	108	20.92	20.96	20.79	21.9
40	PI/2 BPSK	216	0	20.92	20.98	20.97	
40	QPSK	1	1	20.96	20.89	20.80	21.9
40	QPSK	1	108	20.80	20.89	20.85	
40	QPSK	1	214	20.72	20.78	20.79	
40	QPSK	108	0	20.80	20.90	20.83	21.9
40	QPSK	108	54	20.91	20.89	20.88	21.9
40	QPSK	108	108	20.74	20.85	20.75	21.9
40	QPSK	216	0	20.83	20.90	20.83	
40	16QAM	1	1	20.99	21.00	20.97	21.9
40	64QAM	1	1	20.89	20.93	20.93	21.9
40	256QAM	1	1	19.56	19.56	19.48	20.5
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	20.83	20.92	20.94	21.9
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	20.85	20.89	20.95	21.9
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	20.86	20.94	20.89	21.9
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	20.88	20.95	20.87	21.9
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	20.81	20.96	20.92	21.9
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	20.79	20.96	20.90	21.9



<FR1 n2_Ant 1_Index 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	20.88	21.02	20.96	22.6
40	PI/2 BPSK	1	108	20.95	20.99	20.87	
40	PI/2 BPSK	1	214	20.84	20.87	20.82	
40	PI/2 BPSK	108	0	20.88	20.96	20.82	22.6
40	PI/2 BPSK	108	54	20.90	21.01	20.94	22.6
40	PI/2 BPSK	108	108	20.92	20.96	20.79	22.6
40	PI/2 BPSK	216	0	20.92	20.98	20.97	
40	QPSK	1	1	20.96	20.89	20.80	22.6
40	QPSK	1	108	20.80	20.89	20.85	
40	QPSK	1	214	20.72	20.78	20.79	
40	QPSK	108	0	20.80	20.90	20.83	22.6
40	QPSK	108	54	20.91	20.89	20.88	22.6
40	QPSK	108	108	20.74	20.85	20.75	22.6
40	QPSK	216	0	20.83	20.90	20.83	
40	16QAM	1	1	20.99	21.00	20.97	22.6
40	64QAM	1	1	20.89	20.93	20.93	22.5
40	256QAM	1	1	19.56	19.56	19.48	20.5
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	20.83	20.92	20.94	22.6
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	20.85	20.89	20.95	22.6
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	20.86	20.94	20.89	22.6
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	20.88	20.95	20.87	22.6
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	20.81	20.96	20.92	22.6
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	20.79	20.96	20.90	22.6



<FR1 n2_Ant 1_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	20.88	21.02	20.96	21.9
40	PI/2 BPSK	1	108	20.95	20.99	20.87	
40	PI/2 BPSK	1	214	20.84	20.87	20.82	
40	PI/2 BPSK	108	0	20.88	20.96	20.82	21.9
40	PI/2 BPSK	108	54	20.90	21.01	20.94	21.9
40	PI/2 BPSK	108	108	20.92	20.96	20.79	21.9
40	PI/2 BPSK	216	0	20.92	20.98	20.97	
40	QPSK	1	1	20.96	20.89	20.80	21.9
40	QPSK	1	108	20.80	20.89	20.85	
40	QPSK	1	214	20.72	20.78	20.79	
40	QPSK	108	0	20.80	20.90	20.83	21.9
40	QPSK	108	54	20.91	20.89	20.88	21.9
40	QPSK	108	108	20.74	20.85	20.75	21.9
40	QPSK	216	0	20.83	20.90	20.83	
40	16QAM	1	1	20.99	21.00	20.97	21.9
40	64QAM	1	1	20.89	20.93	20.93	21.9
40	256QAM	1	1	19.56	19.56	19.48	20.5
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	20.83	20.92	20.94	21.9
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	20.85	20.89	20.95	21.9
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	20.86	20.94	20.89	21.9
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	20.88	20.95	20.87	21.9
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	20.81	20.96	20.92	21.9
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	20.79	20.96	20.90	21.9



<FR1 n2_Ant 2_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	24.21	24.23	24.20	25.0
40	PI/2 BPSK	1	108	24.10	24.13	24.07	
40	PI/2 BPSK	1	214	24.03	24.06	24.05	
40	PI/2 BPSK	108	0	23.63	23.73	23.70	24.5
40	PI/2 BPSK	108	54	24.13	24.14	24.13	25.0
40	PI/2 BPSK	108	108	23.53	23.60	23.60	24.5
40	PI/2 BPSK	216	0	23.58	23.65	23.57	
40	QPSK	1	1	24.14	24.16	24.07	25.0
40	QPSK	1	108	24.06	24.15	24.11	
40	QPSK	1	214	23.97	24.05	24.04	
40	QPSK	108	0	23.14	23.17	23.10	24.0
40	QPSK	108	54	24.02	24.12	24.03	25.0
40	QPSK	108	108	23.00	23.09	23.08	24.0
40	QPSK	216	0	23.09	23.14	23.10	
40	16QAM	1	1	23.12	23.16	23.14	24.0
40	64QAM	1	1	21.64	21.73	21.70	22.5
40	256QAM	1	1	19.70	19.79	19.70	20.5
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	24.20	24.22	24.18	25.0
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	24.20	24.21	24.19	25.0
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	24.17	24.19	24.15	25.0
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	24.19	24.20	24.18	25.0
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	24.15	24.17	24.15	25.0
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	24.16	24.18	24.15	25.0



<FR1 n2_Ant 2_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	24.21	24.23	24.20	25.0
40	PI/2 BPSK	1	108	24.10	24.13	24.07	
40	PI/2 BPSK	1	214	24.03	24.06	24.05	
40	PI/2 BPSK	108	0	23.63	23.73	23.70	24.5
40	PI/2 BPSK	108	54	24.13	24.14	24.13	25.0
40	PI/2 BPSK	108	108	23.53	23.60	23.60	24.5
40	PI/2 BPSK	216	0	23.58	23.65	23.57	
40	QPSK	1	1	24.14	24.16	24.07	25.0
40	QPSK	1	108	24.06	24.15	24.11	
40	QPSK	1	214	23.97	24.05	24.04	
40	QPSK	108	0	23.14	23.17	23.10	24.0
40	QPSK	108	54	24.02	24.12	24.03	25.0
40	QPSK	108	108	23.00	23.09	23.08	24.0
40	QPSK	216	0	23.09	23.14	23.10	
40	16QAM	1	1	23.12	23.16	23.14	24.0
40	64QAM	1	1	21.64	21.73	21.70	22.5
40	256QAM	1	1	19.70	19.79	19.70	20.5
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	24.20	24.22	24.18	25.0
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	24.20	24.21	24.19	25.0
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	24.17	24.19	24.15	25.0
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	24.19	24.20	24.18	25.0
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	24.15	24.17	24.15	25.0
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	24.16	24.18	24.15	25.0



<FR1 n2_Ant 2_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	19.93	20.05	19.99	21.2
40	PI/2 BPSK	1	108	19.91	19.98	19.97	
40	PI/2 BPSK	1	214	19.97	19.98	19.94	
40	PI/2 BPSK	108	0	19.93	19.93	19.96	21.2
40	PI/2 BPSK	108	54	19.97	20.04	19.97	21.2
40	PI/2 BPSK	108	108	19.97	20.03	20.00	21.2
40	PI/2 BPSK	216	0	19.99	20.00	19.93	
40	QPSK	1	1	20.00	19.96	19.93	21.2
40	QPSK	1	108	19.92	19.91	19.93	
40	QPSK	1	214	19.99	19.99	19.99	
40	QPSK	108	0	19.94	19.95	19.90	21.2
40	QPSK	108	54	19.93	19.97	19.91	21.2
40	QPSK	108	108	19.97	19.98	19.96	21.2
40	QPSK	216	0	19.90	19.96	19.90	
40	16QAM	1	1	19.97	19.99	19.97	21.2
40	64QAM	1	1	19.92	20.00	19.98	21.2
40	256QAM	1	1	19.78	19.81	19.78	20.5
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	19.92	20.02	19.96	21.2
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	19.97	20.01	19.93	21.2
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	19.88	19.96	19.95	21.2
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	19.98	19.95	19.99	21.2
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	19.92	20.03	19.96	21.2
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	19.93	19.95	19.97	21.2



<FR1 n2_Ant 2_Index 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	19.93	20.05	19.99	21.9
40	PI/2 BPSK	1	108	19.91	19.98	19.97	
40	PI/2 BPSK	1	214	19.97	19.98	19.94	
40	PI/2 BPSK	108	0	19.93	19.93	19.96	21.9
40	PI/2 BPSK	108	54	19.97	20.04	19.97	21.9
40	PI/2 BPSK	108	108	19.97	20.03	20.00	21.9
40	PI/2 BPSK	216	0	19.99	20.00	19.93	
40	QPSK	1	1	20.00	19.96	19.93	21.9
40	QPSK	1	108	19.92	19.91	19.93	
40	QPSK	1	214	19.99	19.99	19.99	
40	QPSK	108	0	19.94	19.95	19.90	21.9
40	QPSK	108	54	19.93	19.97	19.91	21.9
40	QPSK	108	108	19.97	19.98	19.96	21.9
40	QPSK	216	0	19.90	19.96	19.90	
40	16QAM	1	1	19.97	19.99	19.97	21.9
40	64QAM	1	1	19.92	20.00	19.98	21.9
40	256QAM	1	1	19.78	19.81	19.78	20.5
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	19.92	20.02	19.96	21.9
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	19.97	20.01	19.93	21.9
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	19.88	19.96	19.95	21.9
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	19.98	19.95	19.99	21.9
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	19.92	20.03	19.96	21.9
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	19.93	19.95	19.97	21.9



<FR1 n2_Ant 2_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	19.93	20.05	19.99	21.2
40	PI/2 BPSK	1	108	19.91	19.98	19.97	
40	PI/2 BPSK	1	214	19.97	19.98	19.94	
40	PI/2 BPSK	108	0	19.93	19.93	19.96	21.2
40	PI/2 BPSK	108	54	19.97	20.04	19.97	21.2
40	PI/2 BPSK	108	108	19.97	20.03	20.00	21.2
40	PI/2 BPSK	216	0	19.99	20.00	19.93	
40	QPSK	1	1	20.00	19.96	19.93	21.2
40	QPSK	1	108	19.92	19.91	19.93	
40	QPSK	1	214	19.99	19.99	19.99	
40	QPSK	108	0	19.94	19.95	19.90	21.2
40	QPSK	108	54	19.93	19.97	19.91	21.2
40	QPSK	108	108	19.97	19.98	19.96	21.2
40	QPSK	216	0	19.90	19.96	19.90	
40	16QAM	1	1	19.97	19.99	19.97	21.2
40	64QAM	1	1	19.92	20.00	19.98	21.2
40	256QAM	1	1	19.78	19.81	19.78	20.5
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	19.92	20.02	19.96	21.2
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	19.97	20.01	19.93	21.2
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	19.88	19.96	19.95	21.2
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	19.98	19.95	19.99	21.2
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	19.92	20.03	19.96	21.2
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	19.93	19.95	19.97	21.2



<FR1 n2_Ant 5_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	18.23	18.26	18.24	20.0
40	PI/2 BPSK	1	108	18.19	18.23	18.19	
40	PI/2 BPSK	1	214	18.18	18.17	18.18	
40	PI/2 BPSK	108	0	18.16	18.26	18.08	20.0
40	PI/2 BPSK	108	54	18.21	18.25	18.18	20.0
40	PI/2 BPSK	108	108	18.18	18.17	18.16	20.0
40	PI/2 BPSK	216	0	18.20	18.26	18.20	
40	QPSK	1	1	18.17	18.25	18.17	20.0
40	QPSK	1	108	18.22	18.24	18.22	
40	QPSK	1	214	18.00	18.11	18.14	
40	QPSK	108	0	18.08	18.12	18.09	20.0
40	QPSK	108	54	18.09	18.21	18.11	20.0
40	QPSK	108	108	18.05	18.16	18.12	20.0
40	QPSK	216	0	18.14	18.20	18.18	
40	16QAM	1	1	18.09	18.15	18.11	20.0
40	64QAM	1	1	18.05	18.19	18.14	20.0
40	256QAM	1	1	18.13	18.17	18.11	20.0
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	18.21	18.23	18.25	20.0
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	18.22	18.25	18.21	20.0
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	18.16	18.20	18.21	20.0
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	18.14	18.20	18.18	20.0
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	18.13	18.20	18.16	20.0
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	18.14	18.22	18.17	20.0



<FR1 n2_Ant 5_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	18.23	18.26	18.24	19.3
40	PI/2 BPSK	1	108	18.19	18.23	18.19	
40	PI/2 BPSK	1	214	18.18	18.17	18.18	
40	PI/2 BPSK	108	0	18.16	18.26	18.08	19.3
40	PI/2 BPSK	108	54	18.21	18.25	18.18	19.3
40	PI/2 BPSK	108	108	18.18	18.17	18.16	19.3
40	PI/2 BPSK	216	0	18.20	18.26	18.20	
40	QPSK	1	1	18.17	18.25	18.17	19.3
40	QPSK	1	108	18.22	18.24	18.22	
40	QPSK	1	214	18.00	18.11	18.14	
40	QPSK	108	0	18.08	18.12	18.09	19.3
40	QPSK	108	54	18.09	18.21	18.11	19.3
40	QPSK	108	108	18.05	18.16	18.12	19.3
40	QPSK	216	0	18.14	18.20	18.18	
40	16QAM	1	1	18.09	18.15	18.11	19.3
40	64QAM	1	1	18.05	18.19	18.14	19.3
40	256QAM	1	1	18.13	18.17	18.11	19.3
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	18.21	18.23	18.25	19.3
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	18.22	18.25	18.21	19.3
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	18.16	18.20	18.21	19.3
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	18.14	18.20	18.18	19.3
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	18.13	18.20	18.16	19.3
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	18.14	18.22	18.17	19.3



<FR1 n2_Ant 5_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	23.38	23.40	23.35	24.8
40	PI/2 BPSK	1	108	23.19	23.20	23.14	
40	PI/2 BPSK	1	214	23.04	23.05	23.04	
40	PI/2 BPSK	108	0	22.71	22.74	22.71	24.3
40	PI/2 BPSK	108	54	23.13	23.18	23.11	24.8
40	PI/2 BPSK	108	108	22.62	22.62	22.52	24.3
40	PI/2 BPSK	216	0	22.65	22.68	22.67	
40	QPSK	1	1	23.32	23.36	23.27	24.8
40	QPSK	1	108	23.18	23.28	23.24	
40	QPSK	1	214	23.05	23.06	23.06	
40	QPSK	108	0	22.23	22.23	22.16	23.8
40	QPSK	108	54	23.16	23.18	23.13	24.8
40	QPSK	108	108	22.07	22.12	22.05	23.8
40	QPSK	216	0	22.18	22.18	22.13	
40	16QAM	1	1	22.34	22.35	22.30	23.8
40	64QAM	1	1	20.73	20.82	20.74	22.3
40	256QAM	1	1	18.75	18.78	18.75	20.3
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	23.29	23.36	23.31	24.8
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	23.33	23.34	23.32	24.8
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.35	23.36	23.31	24.8
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.32	23.36	23.35	24.8
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.29	23.39	23.32	24.8
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.36	23.37	23.28	24.8



<FR1 n2_Ant 5_Index 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	23.38	23.40	23.35	24.8
40	PI/2 BPSK	1	108	23.19	23.20	23.14	
40	PI/2 BPSK	1	214	23.04	23.05	23.04	
40	PI/2 BPSK	108	0	22.71	22.74	22.71	24.3
40	PI/2 BPSK	108	54	23.13	23.18	23.11	24.8
40	PI/2 BPSK	108	108	22.62	22.62	22.52	24.3
40	PI/2 BPSK	216	0	22.65	22.68	22.67	
40	QPSK	1	1	23.32	23.36	23.27	24.8
40	QPSK	1	108	23.18	23.28	23.24	
40	QPSK	1	214	23.05	23.06	23.06	
40	QPSK	108	0	22.23	22.23	22.16	23.8
40	QPSK	108	54	23.16	23.18	23.13	24.8
40	QPSK	108	108	22.07	22.12	22.05	23.8
40	QPSK	216	0	22.18	22.18	22.13	
40	16QAM	1	1	22.34	22.35	22.30	23.8
40	64QAM	1	1	20.73	20.82	20.74	22.3
40	256QAM	1	1	18.75	18.78	18.75	20.3
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	23.29	23.36	23.31	24.8
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	23.33	23.34	23.32	24.8
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.35	23.36	23.31	24.8
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.32	23.36	23.35	24.8
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.29	23.39	23.32	24.8
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.36	23.37	23.28	24.8



<FR1 n2_Ant 5_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376000	378000	
Frequency (MHz)				1870	1880	1890	
40	PI/2 BPSK	1	1	23.38	23.40	23.35	24.8
40	PI/2 BPSK	1	108	23.19	23.20	23.14	
40	PI/2 BPSK	1	214	23.04	23.05	23.04	
40	PI/2 BPSK	108	0	22.71	22.74	22.71	24.3
40	PI/2 BPSK	108	54	23.13	23.18	23.11	24.8
40	PI/2 BPSK	108	108	22.62	22.62	22.52	24.3
40	PI/2 BPSK	216	0	22.65	22.68	22.67	
40	QPSK	1	1	23.32	23.36	23.27	24.8
40	QPSK	1	108	23.18	23.28	23.24	
40	QPSK	1	214	23.05	23.06	23.06	
40	QPSK	108	0	22.23	22.23	22.16	23.8
40	QPSK	108	54	23.16	23.18	23.13	24.8
40	QPSK	108	108	22.07	22.12	22.05	23.8
40	QPSK	216	0	22.18	22.18	22.13	
40	16QAM	1	1	22.34	22.35	22.30	23.8
40	64QAM	1	1	20.73	20.82	20.74	22.3
40	256QAM	1	1	18.75	18.78	18.75	20.3
Channel				373000	376000	379000	Tune-up limit (dBm)
Frequency (MHz)				1865	1880	1895	
30	PI/2 BPSK	1	1	23.29	23.36	23.31	24.8
Channel				372500	376000	379500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1880	1897.5	
25	PI/2 BPSK	1	1	23.33	23.34	23.32	24.8
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.35	23.36	23.31	24.8
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.32	23.36	23.35	24.8
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.29	23.39	23.32	24.8
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.36	23.37	23.28	24.8



<FR1 n5_Ant 0_Index 2/3/4/5/6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	Tune-up limit (dBm)
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.28	24.34	24.31	25.0
20	PI/2 BPSK	1	53	24.23	24.24	24.16	
20	PI/2 BPSK	1	104	24.24	24.30	24.22	
20	PI/2 BPSK	50	0	23.71	23.71	23.67	24.5
20	PI/2 BPSK	50	28	24.15	24.24	24.18	25.0
20	PI/2 BPSK	50	56	23.69	23.78	23.76	24.5
20	PI/2 BPSK	100	0	23.72	23.74	23.73	
20	QPSK	1	1	24.18	24.24	24.22	25.0
20	QPSK	1	53	24.26	24.32	24.29	
20	QPSK	1	104	24.29	24.33	24.26	
20	QPSK	50	0	23.16	23.23	23.14	24.0
20	QPSK	50	28	24.19	24.25	24.21	25.0
20	QPSK	50	56	23.28	23.29	23.29	24.0
20	QPSK	100	0	23.17	23.24	23.16	
20	16QAM	1	1	23.25	23.30	23.27	24.0
20	64QAM	1	1	21.71	21.75	21.72	22.5
20	256QAM	1	1	19.82	19.86	19.76	20.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	24.20	24.25	24.21	25.0
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	24.20	24.18	24.15	25.0
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.22	24.30	24.21	25.0



<FR1 n5_Ant 1_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	20.98	21.03	20.99	22.5
20	PI/2 BPSK	1	53	20.98	21.00	20.88	
20	PI/2 BPSK	1	104	20.92	21.00	20.90	
20	PI/2 BPSK	50	0	21.00	20.96	21.01	22.5
20	PI/2 BPSK	50	28	21.06	21.01	20.97	22.5
20	PI/2 BPSK	50	56	20.97	21.00	20.99	22.5
20	PI/2 BPSK	100	0	21.03	21.12	20.99	
20	QPSK	1	1	20.95	21.02	20.96	22.5
20	QPSK	1	53	20.80	20.92	20.90	
20	QPSK	1	104	20.81	20.96	20.83	
20	QPSK	50	0	20.92	20.93	20.89	22.5
20	QPSK	50	28	20.96	20.93	20.85	22.5
20	QPSK	50	56	20.84	20.93	20.83	22.5
20	QPSK	100	0	20.98	20.99	20.95	
20	16QAM	1	1	20.85	20.91	20.83	22.5
20	64QAM	1	1	20.94	20.99	20.86	22.5
20	256QAM	1	1	19.66	19.65	19.71	20.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	20.97	21.01	20.97	22.5
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	20.93	21.01	20.91	22.5
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	20.94	21.00	20.95	22.5



<FR1 n5_Ant 1_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	20.98	21.03	20.99	21.8
20	PI/2 BPSK	1	53	20.98	21.00	20.88	
20	PI/2 BPSK	1	104	20.92	21.00	20.90	
20	PI/2 BPSK	50	0	21.00	20.96	21.01	21.8
20	PI/2 BPSK	50	28	21.06	21.01	20.97	21.8
20	PI/2 BPSK	50	56	20.97	21.00	20.99	21.8
20	PI/2 BPSK	100	0	21.03	21.12	20.99	
20	QPSK	1	1	20.95	21.02	20.96	21.8
20	QPSK	1	53	20.80	20.92	20.90	
20	QPSK	1	104	20.81	20.96	20.83	
20	QPSK	50	0	20.92	20.93	20.89	21.8
20	QPSK	50	28	20.96	20.93	20.85	21.8
20	QPSK	50	56	20.84	20.93	20.83	21.8
20	QPSK	100	0	20.98	20.99	20.95	
20	16QAM	1	1	20.85	20.91	20.83	21.8
20	64QAM	1	1	20.94	20.99	20.86	21.8
20	256QAM	1	1	19.66	19.65	19.71	20.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	20.97	21.01	20.97	21.8
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	20.93	21.01	20.91	21.8
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	20.94	21.00	20.95	21.8



<FR1 n5_Ant 1_Index 4/5/6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	Tune-up limit (dBm)
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.11	24.12	24.08	25.0
20	PI/2 BPSK	1	53	24.04	24.10	24.00	
20	PI/2 BPSK	1	104	23.96	24.06	24.06	
20	PI/2 BPSK	50	0	23.53	23.60	23.52	24.5
20	PI/2 BPSK	50	28	24.04	24.08	24.07	25.0
20	PI/2 BPSK	50	56	23.53	23.57	23.53	24.5
20	PI/2 BPSK	100	0	23.53	23.59	23.51	
20	QPSK	1	1	24.03	24.05	23.98	25.0
20	QPSK	1	53	24.11	24.11	24.11	
20	QPSK	1	104	24.00	24.07	24.02	
20	QPSK	50	0	23.02	23.10	23.03	24.0
20	QPSK	50	28	24.01	24.07	24.04	25.0
20	QPSK	50	56	22.99	23.06	22.97	24.0
20	QPSK	100	0	23.08	23.08	23.05	
20	16QAM	1	1	23.04	23.13	23.03	24.0
20	64QAM	1	1	21.63	21.67	21.64	22.5
20	256QAM	1	1	19.49	19.59	19.51	20.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	23.95	24.08	24.01	25.0
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	23.98	24.05	24.00	25.0
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.01	24.10	23.97	25.0



<FR1 n7_Ant 0_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	23.31	23.39	23.29	25.0
50	PI/2 BPSK	1	135	23.12	23.19	23.07	
50	PI/2 BPSK	1	268	23.16	23.23	23.11	
50	PI/2 BPSK	135	0	22.75	22.82	22.71	24.5
50	PI/2 BPSK	135	68	23.18	23.25	23.13	25.0
50	PI/2 BPSK	135	135	23.14	23.21	23.09	24.5
50	PI/2 BPSK	270	0	22.65	22.72	22.61	
50	QPSK	1	1	23.25	23.32	23.20	25.0
50	QPSK	1	135	23.10	23.17	23.05	
50	QPSK	1	268	23.21	23.28	23.16	
50	QPSK	135	0	22.20	22.27	22.16	24.0
50	QPSK	135	68	23.11	23.21	23.09	25.0
50	QPSK	135	135	22.24	22.26	22.15	24.0
50	QPSK	270	0	22.11	22.18	22.07	
50	16QAM	1	1	22.24	22.31	22.20	24.0
50	64QAM	1	1	20.81	20.88	20.78	22.5
50	256QAM	1	1	18.85	18.88	18.79	20.5
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	23.23	23.28	23.18	25.0
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	23.19	23.27	23.21	25.0
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	23.21	23.33	23.22	25.0
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	23.26	23.29	23.19	25.0
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	23.23	23.34	23.20	25.0
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	23.21	23.30	23.23	25.0
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	23.19	23.31	23.18	25.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	23.31	23.39	23.29	25.0
50	PI/2 BPSK	1	135	23.12	23.19	23.07	
50	PI/2 BPSK	1	268	23.16	23.23	23.11	
50	PI/2 BPSK	135	0	22.75	22.82	22.71	24.5
50	PI/2 BPSK	135	68	23.18	23.25	23.13	25.0
50	PI/2 BPSK	135	135	23.14	23.21	23.09	24.5
50	PI/2 BPSK	270	0	22.65	22.72	22.61	
50	QPSK	1	1	23.25	23.32	23.20	25.0
50	QPSK	1	135	23.10	23.17	23.05	
50	QPSK	1	268	23.21	23.28	23.16	
50	QPSK	135	0	22.20	22.27	22.16	24.0
50	QPSK	135	68	23.11	23.21	23.09	25.0
50	QPSK	135	135	22.24	22.26	22.15	24.0
50	QPSK	270	0	22.11	22.18	22.07	
50	16QAM	1	1	22.24	22.31	22.20	24.0
50	64QAM	1	1	20.81	20.88	20.78	22.5
50	256QAM	1	1	18.85	18.88	18.79	20.5
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	23.23	23.28	23.18	25.0
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	23.19	23.27	23.21	25.0
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	23.21	23.33	23.22	25.0
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	23.26	23.29	23.19	25.0
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	23.23	23.34	23.20	25.0
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	23.21	23.30	23.23	25.0
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	23.19	23.31	23.18	25.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	17.25	17.37	17.22	18.25
50	PI/2 BPSK	1	135	17.12	17.21	17.16	
50	PI/2 BPSK	1	268	17.11	17.14	17.16	
50	PI/2 BPSK	135	0	17.21	17.21	17.13	18.25
50	PI/2 BPSK	135	68	17.12	17.22	17.18	18.25
50	PI/2 BPSK	135	135	17.21	17.22	17.22	18.25
50	PI/2 BPSK	270	0	17.12	17.18	17.06	
50	QPSK	1	1	17.20	17.27	17.15	18.25
50	QPSK	1	135	17.04	17.12	17.04	
50	QPSK	1	268	17.09	17.15	17.12	
50	QPSK	135	0	17.05	17.11	17.08	18.25
50	QPSK	135	68	17.12	17.17	17.12	18.25
50	QPSK	135	135	17.10	17.20	17.12	18.25
50	QPSK	270	0	17.08	17.09	17.00	
50	16QAM	1	1	17.20	17.23	17.19	18.25
50	64QAM	1	1	17.03	17.19	17.06	18.25
50	256QAM	1	1	17.14	17.17	17.18	18.25
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	17.12	17.18	17.16	18.25
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	17.17	17.19	17.22	18.25
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	17.11	17.21	17.16	18.25
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	17.12	17.25	17.19	18.25
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	17.17	17.17	17.16	18.25
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	17.13	17.16	17.14	18.25
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	17.17	17.25	17.18	18.25



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	18.32	18.34	18.30	19.95
50	PI/2 BPSK	1	135	18.19	18.26	18.22	
50	PI/2 BPSK	1	268	18.20	18.24	18.21	
50	PI/2 BPSK	135	0	18.22	18.25	18.17	19.95
50	PI/2 BPSK	135	68	18.20	18.28	18.21	19.95
50	PI/2 BPSK	135	135	18.24	18.24	18.23	19.95
50	PI/2 BPSK	270	0	18.20	18.20	18.10	
50	QPSK	1	1	18.24	18.32	18.24	19.95
50	QPSK	1	135	18.08	18.17	18.07	
50	QPSK	1	268	18.15	18.21	18.12	
50	QPSK	135	0	18.12	18.16	18.14	19.95
50	QPSK	135	68	18.12	18.18	18.15	19.95
50	QPSK	135	135	18.18	18.23	18.22	19.95
50	QPSK	270	0	18.10	18.17	18.08	
50	16QAM	1	1	18.27	18.33	18.29	19.95
50	64QAM	1	1	18.11	18.21	18.12	19.95
50	256QAM	1	1	18.18	18.21	18.19	19.95
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	18.16	18.20	18.26	19.95
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	18.23	18.17	18.22	19.95
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	18.25	18.20	18.20	19.95
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	18.18	18.16	18.21	19.95
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	18.19	18.16	18.26	19.95
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	18.26	18.25	18.21	19.95
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	18.25	18.16	18.25	19.95



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	18.32	18.34	18.30	19.25
50	PI/2 BPSK	1	135	18.19	18.26	18.22	
50	PI/2 BPSK	1	268	18.20	18.24	18.21	
50	PI/2 BPSK	135	0	18.22	18.25	18.17	19.25
50	PI/2 BPSK	135	68	18.20	18.28	18.21	19.25
50	PI/2 BPSK	135	135	18.24	18.24	18.23	19.25
50	PI/2 BPSK	270	0	18.20	18.20	18.10	
50	QPSK	1	1	18.24	18.32	18.24	19.25
50	QPSK	1	135	18.08	18.17	18.07	
50	QPSK	1	268	18.15	18.21	18.12	
50	QPSK	135	0	18.12	18.16	18.14	19.25
50	QPSK	135	68	18.12	18.18	18.15	19.25
50	QPSK	135	135	18.18	18.23	18.22	19.25
50	QPSK	270	0	18.10	18.17	18.08	
50	16QAM	1	1	18.27	18.33	18.29	19.25
50	64QAM	1	1	18.11	18.21	18.12	19.25
50	256QAM	1	1	18.18	18.21	18.19	19.25
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	18.16	18.20	18.26	19.25
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	18.23	18.17	18.22	19.25
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	18.25	18.20	18.20	19.25
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	18.18	18.16	18.21	19.25
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	18.19	18.16	18.26	19.25
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	18.26	18.25	18.21	19.25
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	18.25	18.16	18.25	19.25



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	21.28	21.36	21.26	22.9
50	PI/2 BPSK	1	135	21.27	21.25	21.22	
50	PI/2 BPSK	1	268	21.23	21.33	21.25	
50	PI/2 BPSK	135	0	21.23	21.20	21.24	22.9
50	PI/2 BPSK	135	68	21.25	21.26	21.25	22.9
50	PI/2 BPSK	135	135	21.22	21.22	21.23	22.9
50	PI/2 BPSK	270	0	21.25	21.26	21.22	
50	QPSK	1	1	21.30	21.34	21.29	22.9
50	QPSK	1	135	21.24	21.25	21.20	
50	QPSK	1	268	21.24	21.30	21.23	
50	QPSK	135	0	21.21	21.20	21.24	22.9
50	QPSK	135	68	21.22	21.21	21.21	22.9
50	QPSK	135	135	21.22	21.20	21.25	22.9
50	QPSK	270	0	21.23	21.21	21.20	
50	16QAM	1	1	21.20	21.20	21.23	22.9
50	64QAM	1	1	21.29	21.35	21.27	22.5
50	256QAM	1	1	19.17	19.19	19.15	20.5
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	21.22	21.33	21.30	22.9
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	21.21	21.27	21.29	22.9
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	21.28	21.34	21.20	22.9
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	21.23	21.35	21.20	22.9
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	21.27	21.34	21.20	22.9
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	21.28	21.34	21.26	22.9
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	21.25	21.30	21.26	22.9



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	22.2
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	21.28	21.36	21.26	
50	PI/2 BPSK	1	135	21.27	21.25	21.22	22.2
50	PI/2 BPSK	1	268	21.23	21.33	21.25	
50	PI/2 BPSK	135	0	21.23	21.20	21.24	22.2
50	PI/2 BPSK	135	68	21.25	21.26	21.25	22.2
50	PI/2 BPSK	135	135	21.22	21.22	21.23	22.2
50	PI/2 BPSK	270	0	21.25	21.26	21.22	
50	QPSK	1	1	21.30	21.34	21.29	22.2
50	QPSK	1	135	21.24	21.25	21.20	
50	QPSK	1	268	21.24	21.30	21.23	
50	QPSK	135	0	21.21	21.20	21.24	22.2
50	QPSK	135	68	21.22	21.21	21.21	22.2
50	QPSK	135	135	21.22	21.20	21.25	22.2
50	QPSK	270	0	21.23	21.21	21.20	
50	16QAM	1	1	21.20	21.20	21.23	22.2
50	64QAM	1	1	21.29	21.35	21.27	22.2
50	256QAM	1	1	19.17	19.19	19.15	20.5
Channel				504000	507000	510000	22.2
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	21.22	21.33	21.30	22.2
Channel				503000	507000	511000	22.2
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	21.21	21.27	21.29	22.2
Channel				502500	507000	511500	22.2
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	21.28	21.34	21.20	22.2
Channel				502000	507000	512000	22.2
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	21.23	21.35	21.20	22.2
Channel				501500	507000	512500	22.2
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	21.27	21.34	21.20	22.2
Channel				501000	507000	513000	22.2
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	21.28	21.34	21.26	22.2
Channel				500500	507000	513500	22.2
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	21.25	21.30	21.26	22.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	21.28	21.36	21.26	21.4
50	PI/2 BPSK	1	135	21.27	21.25	21.22	
50	PI/2 BPSK	1	268	21.23	21.33	21.25	
50	PI/2 BPSK	135	0	21.23	21.20	21.24	21.4
50	PI/2 BPSK	135	68	21.25	21.26	21.25	21.4
50	PI/2 BPSK	135	135	21.22	21.22	21.23	21.4
50	PI/2 BPSK	270	0	21.25	21.26	21.22	
50	QPSK	1	1	21.30	21.34	21.29	21.4
50	QPSK	1	135	21.24	21.25	21.20	
50	QPSK	1	268	21.24	21.30	21.23	
50	QPSK	135	0	21.21	21.20	21.24	21.4
50	QPSK	135	68	21.22	21.21	21.21	21.4
50	QPSK	135	135	21.22	21.20	21.25	21.4
50	QPSK	270	0	21.23	21.21	21.20	
50	16QAM	1	1	21.20	21.20	21.23	21.4
50	64QAM	1	1	21.29	21.35	21.27	21.4
50	256QAM	1	1	19.17	19.19	19.15	20.5
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	21.22	21.33	21.30	21.4
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	21.21	21.27	21.29	21.4
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	21.28	21.34	21.20	21.4
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	21.23	21.35	21.20	21.4
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	21.27	21.34	21.20	21.4
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	21.28	21.34	21.26	21.4
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	21.25	21.30	21.26	21.4



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	21.28	21.36	21.26	22.1
50	PI/2 BPSK	1	135	21.27	21.25	21.22	
50	PI/2 BPSK	1	268	21.23	21.33	21.25	
50	PI/2 BPSK	135	0	21.23	21.20	21.24	22.1
50	PI/2 BPSK	135	68	21.25	21.26	21.25	22.1
50	PI/2 BPSK	135	135	21.22	21.22	21.23	22.1
50	PI/2 BPSK	270	0	21.25	21.26	21.22	
50	QPSK	1	1	21.30	21.34	21.29	22.1
50	QPSK	1	135	21.24	21.25	21.20	
50	QPSK	1	268	21.24	21.30	21.23	
50	QPSK	135	0	21.21	21.20	21.24	22.1
50	QPSK	135	68	21.22	21.21	21.21	22.1
50	QPSK	135	135	21.22	21.20	21.25	22.1
50	QPSK	270	0	21.23	21.21	21.20	
50	16QAM	1	1	21.20	21.20	21.23	22.1
50	64QAM	1	1	21.29	21.35	21.27	22.1
50	256QAM	1	1	19.17	19.19	19.15	20.5
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	21.22	21.33	21.30	22.1
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	21.21	21.27	21.29	22.1
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	21.28	21.34	21.20	22.1
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	21.23	21.35	21.20	22.1
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	21.27	21.34	21.20	22.1
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	21.28	21.34	21.26	22.1
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	21.25	21.30	21.26	22.1



<FR1 n7_Ant 2_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	21.28	21.36	21.26	21.4
50	PI/2 BPSK	1	135	21.27	21.25	21.22	
50	PI/2 BPSK	1	268	21.23	21.33	21.25	
50	PI/2 BPSK	135	0	21.23	21.20	21.24	21.4
50	PI/2 BPSK	135	68	21.25	21.26	21.25	21.4
50	PI/2 BPSK	135	135	21.22	21.22	21.23	21.4
50	PI/2 BPSK	270	0	21.25	21.26	21.22	
50	QPSK	1	1	21.30	21.34	21.29	21.4
50	QPSK	1	135	21.24	21.25	21.20	
50	QPSK	1	268	21.24	21.30	21.23	
50	QPSK	135	0	21.21	21.20	21.24	21.4
50	QPSK	135	68	21.22	21.21	21.21	21.4
50	QPSK	135	135	21.22	21.20	21.25	21.4
50	QPSK	270	0	21.23	21.21	21.20	
50	16QAM	1	1	21.20	21.20	21.23	21.4
50	64QAM	1	1	21.29	21.35	21.27	21.4
50	256QAM	1	1	19.17	19.19	19.15	20.5
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	21.22	21.33	21.30	21.4
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	21.21	21.27	21.29	21.4
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	21.28	21.34	21.20	21.4
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	21.23	21.35	21.20	21.4
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	21.27	21.34	21.20	21.4
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	21.28	21.34	21.26	21.4
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	21.25	21.30	21.26	21.4



<FR1 n12_Ant 0_Index 2/3/4/5/6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	24.34	24.35	24.29	25.0
15	PI/2 BPSK	1	40	24.22	24.28	24.19	
15	PI/2 BPSK	1	77	24.20	24.29	24.26	
15	PI/2 BPSK	36	0	23.85	23.89	23.80	24.5
15	PI/2 BPSK	36	22	24.24	24.27	24.18	25.0
15	PI/2 BPSK	36	43	23.87	23.89	23.81	24.5
15	PI/2 BPSK	75	0	23.80	23.88	23.84	
15	QPSK	1	1	24.25	24.28	24.18	25.0
15	QPSK	1	40	24.28	24.32	24.22	
15	QPSK	1	77	24.33	24.34	24.33	
15	QPSK	36	0	23.37	23.38	23.28	24.0
15	QPSK	36	22	24.18	24.26	24.17	25.0
15	QPSK	36	43	23.31	23.38	23.36	24.0
15	QPSK	75	0	23.29	23.37	23.31	
15	16QAM	1	1	23.48	23.51	23.44	24.0
15	64QAM	1	1	21.87	21.92	21.83	22.5
15	256QAM	1	1	19.82	19.89	19.86	20.5
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	24.28	24.31	24.25	25.0
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	24.27	24.30	24.26	25.0

<FR1 n12_Ant 1_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	21.92	21.95	21.89	23.1
15	PI/2 BPSK	1	40	21.81	21.85	21.83	
15	PI/2 BPSK	1	77	21.84	21.86	21.84	
15	PI/2 BPSK	36	0	21.89	21.91	21.91	23.1
15	PI/2 BPSK	36	22	21.84	21.92	21.90	23.1
15	PI/2 BPSK	36	43	21.84	21.90	21.80	23.1
15	PI/2 BPSK	75	0	21.96	21.99	21.98	
15	QPSK	1	1	21.85	21.88	21.88	23.1
15	QPSK	1	40	21.82	21.82	21.80	
15	QPSK	1	77	21.86	21.80	21.81	
15	QPSK	36	0	21.84	21.91	21.88	23.1
15	QPSK	36	22	21.86	21.90	21.86	23.1
15	QPSK	36	43	21.74	21.84	21.78	23.1
15	QPSK	75	0	21.91	21.97	21.96	
15	16QAM	1	1	21.88	21.93	21.89	23.1
15	64QAM	1	1	21.49	21.58	21.58	22.5
15	256QAM	1	1	19.52	19.57	19.56	20.5
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	21.85	21.95	21.86	23.1
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	21.87	21.91	21.83	23.1



<FR1 n12_Ant 1_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	21.92	21.95	21.89	22.4
15	PI/2 BPSK	1	40	21.81	21.85	21.83	
15	PI/2 BPSK	1	77	21.84	21.86	21.84	
15	PI/2 BPSK	36	0	21.89	21.91	21.91	22.4
15	PI/2 BPSK	36	22	21.84	21.92	21.90	22.4
15	PI/2 BPSK	36	43	21.84	21.90	21.80	22.4
15	PI/2 BPSK	75	0	21.96	21.99	21.98	
15	QPSK	1	1	21.85	21.88	21.88	22.4
15	QPSK	1	40	21.82	21.82	21.80	
15	QPSK	1	77	21.86	21.80	21.81	
15	QPSK	36	0	21.84	21.91	21.88	22.4
15	QPSK	36	22	21.86	21.90	21.86	22.4
15	QPSK	36	43	21.74	21.84	21.78	22.4
15	QPSK	75	0	21.91	21.97	21.96	
15	16QAM	1	1	21.88	21.93	21.89	22.4
15	64QAM	1	1	21.49	21.58	21.58	22.4
15	256QAM	1	1	19.52	19.57	19.56	20.5
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	21.85	21.95	21.86	22.4
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	21.87	21.91	21.83	22.4

<FR1 n12_Ant 1_Index 4/5/6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	24.15	24.16	24.15	25.0
15	PI/2 BPSK	1	40	24.00	24.05	23.96	
15	PI/2 BPSK	1	77	24.14	24.15	24.07	
15	PI/2 BPSK	36	0	23.65	23.67	23.60	24.5
15	PI/2 BPSK	36	22	24.05	24.15	24.13	25.0
15	PI/2 BPSK	36	43	23.58	23.67	23.63	24.5
15	PI/2 BPSK	75	0	23.66	23.67	23.60	
15	QPSK	1	1	24.00	24.09	24.05	25.0
15	QPSK	1	40	24.01	24.08	24.01	
15	QPSK	1	77	24.01	24.07	24.00	
15	QPSK	36	0	23.17	23.17	23.12	24.0
15	QPSK	36	22	24.05	24.15	24.13	25.0
15	QPSK	36	43	23.09	23.16	23.06	24.0
15	QPSK	75	0	23.09	23.15	23.07	
15	16QAM	1	1	23.08	23.12	23.12	24.0
15	64QAM	1	1	21.59	21.68	21.58	22.5
15	256QAM	1	1	19.51	19.57	19.49	20.5
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	24.10	24.11	24.05	25.0
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	24.09	24.14	24.08	25.0



<FR1 n14_Ant 0_Index 2/3/4/5/6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					158600		
Frequency (MHz)					793		
10	PI/2 BPSK	1	1		24.28		25.0
10	PI/2 BPSK	1	26		24.22		
10	PI/2 BPSK	1	50		24.19		
10	PI/2 BPSK	25	0		23.79		24.5
10	PI/2 BPSK	25	14		24.25		25.0
10	PI/2 BPSK	25	27		23.72		24.5
10	PI/2 BPSK	50	0		23.75		
10	QPSK	1	1		24.27		25.0
10	QPSK	1	26		24.23		
10	QPSK	1	50		24.18		
10	QPSK	25	0		23.30		24.0
10	QPSK	25	14		24.25		25.0
10	QPSK	25	27		23.22		24.0
10	QPSK	50	0		23.25		
10	16QAM	1	1		23.38		24.0
10	64QAM	1	1		21.87		22.5
10	256QAM	1	1		20.00		20.5
Channel				158100	158600	159100	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	PI/2 BPSK	1	1	24.21	24.20	24.20	25.0

<FR1 n14_Ant 1_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					158600		
Frequency (MHz)					793		
10	PI/2 BPSK	1	1		21.83		23.3
10	PI/2 BPSK	1	26		21.81		
10	PI/2 BPSK	1	50		21.81		
10	PI/2 BPSK	25	0		21.78		23.3
10	PI/2 BPSK	25	14		21.80		23.3
10	PI/2 BPSK	25	27		21.79		23.3
10	PI/2 BPSK	50	0		21.79		
10	QPSK	1	1		21.82		23.3
10	QPSK	1	26		21.81		
10	QPSK	1	50		21.81		
10	QPSK	25	0		21.78		23.3
10	QPSK	25	14		21.68		23.3
10	QPSK	25	27		21.75		23.3
10	QPSK	50	0		21.69		
10	16QAM	1	1		21.79		23.3
10	64QAM	1	1		21.29		22.5
10	256QAM	1	1		19.68		20.5
Channel				158100	158600	159100	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	PI/2 BPSK	1	1	21.73	21.75	21.75	23.3



<FR1 n14_Ant 1_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					158600		
Frequency (MHz)					793		
10	PI/2 BPSK	1	1		21.83		22.6
10	PI/2 BPSK	1	26		21.81		
10	PI/2 BPSK	1	50		21.81		
10	PI/2 BPSK	25	0		21.78		22.6
10	PI/2 BPSK	25	14		21.80		22.6
10	PI/2 BPSK	25	27		21.79		22.6
10	PI/2 BPSK	50	0		21.79		
10	QPSK	1	1		21.82		22.6
10	QPSK	1	26		21.81		
10	QPSK	1	50		21.81		
10	QPSK	25	0		21.78		22.6
10	QPSK	25	14		21.68		22.6
10	QPSK	25	27		21.75		22.6
10	QPSK	50	0		21.69		
10	16QAM	1	1		21.79		22.6
10	64QAM	1	1		21.29		22.5
10	256QAM	1	1		19.68		20.5
Channel				158100	158600	159100	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	PI/2 BPSK	1	1	21.73	21.75	21.75	22.6

<FR1 n14_Ant 1_Index 4/5/6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					158600		
Frequency (MHz)					793		
10	PI/2 BPSK	1	1		24.08		25.0
10	PI/2 BPSK	1	26		24.06		
10	PI/2 BPSK	1	50		24.07		
10	PI/2 BPSK	25	0		23.59		24.5
10	PI/2 BPSK	25	14		24.06		25.0
10	PI/2 BPSK	25	27		23.56		24.5
10	PI/2 BPSK	50	0		23.56		
10	QPSK	1	1		24.07		25.0
10	QPSK	1	26		24.07		
10	QPSK	1	50		24.04		
10	QPSK	25	0		23.08		24.0
10	QPSK	25	14		24.06		25.0
10	QPSK	25	27		23.06		24.0
10	QPSK	50	0		23.06		
10	16QAM	1	1		23.00		24.0
10	64QAM	1	1		21.37		22.5
10	256QAM	1	1		19.68		20.5
Channel				158100	158600	159100	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	PI/2 BPSK	1	1	24.03	24.04	24.01	25.0



<FR1 n25_Ant 0_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	23.69	23.71	23.58	25.0
40	PI/2 BPSK	1	108	23.39	23.46	23.26	
40	PI/2 BPSK	1	214	23.31	23.40	23.22	
40	PI/2 BPSK	108	0	22.93	22.99	22.85	24.5
40	PI/2 BPSK	108	54	23.35	23.45	23.32	25.0
40	PI/2 BPSK	108	108	22.79	22.89	22.71	24.5
40	PI/2 BPSK	216	0	22.87	22.97	22.86	
40	QPSK	1	1	23.50	23.60	23.41	25.0
40	QPSK	1	108	23.39	23.48	23.35	
40	QPSK	1	214	23.37	23.43	23.32	
40	QPSK	108	0	22.45	22.49	22.29	24.0
40	QPSK	108	54	23.39	23.46	23.33	25.0
40	QPSK	108	108	22.31	22.40	22.25	24.0
40	QPSK	216	0	22.41	22.46	22.31	
40	16QAM	1	1	22.62	22.64	22.50	24.0
40	64QAM	1	1	21.18	21.24	21.06	22.5
40	256QAM	1	1	19.21	19.24	19.10	20.5
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	23.59	23.67	23.55	25.0
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	23.64	23.62	23.56	25.0
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.66	23.64	23.53	25.0
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.65	23.64	23.56	25.0
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.68	23.69	23.52	25.0
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.60	23.62	23.58	25.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	23.69	23.71	23.58	25.0
40	PI/2 BPSK	1	108	23.39	23.46	23.26	
40	PI/2 BPSK	1	214	23.31	23.40	23.22	
40	PI/2 BPSK	108	0	22.93	22.99	22.85	24.5
40	PI/2 BPSK	108	54	23.35	23.45	23.32	25.0
40	PI/2 BPSK	108	108	22.79	22.89	22.71	24.5
40	PI/2 BPSK	216	0	22.87	22.97	22.86	
40	QPSK	1	1	23.50	23.60	23.41	25.0
40	QPSK	1	108	23.39	23.48	23.35	
40	QPSK	1	214	23.37	23.43	23.32	
40	QPSK	108	0	22.45	22.49	22.29	24.0
40	QPSK	108	54	23.39	23.46	23.33	25.0
40	QPSK	108	108	22.31	22.40	22.25	24.0
40	QPSK	216	0	22.41	22.46	22.31	
40	16QAM	1	1	22.62	22.64	22.50	24.0
40	64QAM	1	1	21.18	21.24	21.06	22.5
40	256QAM	1	1	19.21	19.24	19.10	20.5
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	23.59	23.67	23.55	25.0
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	23.64	23.62	23.56	25.0
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.66	23.64	23.53	25.0
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.65	23.64	23.56	25.0
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.68	23.69	23.52	25.0
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.60	23.62	23.58	25.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	16.75	16.85	16.78	18.45
40	PI/2 BPSK	1	108	16.83	16.82	16.85	
40	PI/2 BPSK	1	214	16.84	16.83	16.84	
40	PI/2 BPSK	108	0	16.85	16.82	16.80	18.45
40	PI/2 BPSK	108	54	16.87	16.96	16.87	18.45
40	PI/2 BPSK	108	108	16.66	16.75	16.72	18.45
40	PI/2 BPSK	216	0	16.86	16.97	16.91	
40	QPSK	1	1	16.66	16.76	16.72	18.45
40	QPSK	1	108	16.73	16.76	16.73	
40	QPSK	1	214	16.82	16.83	16.80	
40	QPSK	108	0	16.69	16.78	16.70	18.45
40	QPSK	108	54	16.80	16.83	16.74	18.45
40	QPSK	108	108	16.70	16.74	16.73	18.45
40	QPSK	216	0	16.80	16.84	16.83	
40	16QAM	1	1	16.83	16.84	16.82	18.45
40	64QAM	1	1	16.71	16.80	16.73	18.45
40	256QAM	1	1	16.78	16.82	16.72	18.45
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	16.81	16.80	16.80	18.45
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	16.75	16.71	16.79	18.45
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	16.76	16.77	16.80	18.45
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	16.76	16.73	16.79	18.45
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	16.74	16.76	16.71	18.45
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	16.65	16.65	16.73	18.45



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	19.02	19.05	18.97	20.75
40	PI/2 BPSK	1	108	18.90	19.00	18.96	
40	PI/2 BPSK	1	214	18.94	19.02	18.97	
40	PI/2 BPSK	108	0	19.04	19.06	19.02	20.75
40	PI/2 BPSK	108	54	19.06	19.12	19.10	20.75
40	PI/2 BPSK	108	108	19.08	19.10	19.03	20.75
40	PI/2 BPSK	216	0	19.04	19.12	19.07	
40	QPSK	1	1	18.91	18.99	18.95	20.75
40	QPSK	1	108	18.92	18.95	18.91	
40	QPSK	1	214	18.98	19.00	18.91	
40	QPSK	108	0	18.96	19.06	19.04	20.75
40	QPSK	108	54	18.98	19.06	19.02	20.75
40	QPSK	108	108	18.99	19.03	19.00	20.75
40	QPSK	216	0	18.97	19.05	19.00	
40	16QAM	1	1	18.96	19.04	19.01	20.75
40	64QAM	1	1	19.04	19.10	19.10	20.75
40	256QAM	1	1	19.07	19.10	19.02	20.50
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	19.01	18.99	19.00	20.75
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	19.03	18.96	19.05	20.75
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	18.97	18.99	18.98	20.75
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	19.05	18.98	19.03	20.75
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	18.98	19.00	19.02	20.75
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	19.05	19.05	18.98	20.75



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	19.02	19.05	18.97	20.05
40	PI/2 BPSK	1	108	18.90	19.00	18.96	
40	PI/2 BPSK	1	214	18.94	19.02	18.97	
40	PI/2 BPSK	108	0	19.04	19.06	19.02	20.05
40	PI/2 BPSK	108	54	19.06	19.12	19.10	20.05
40	PI/2 BPSK	108	108	19.08	19.10	19.03	20.05
40	PI/2 BPSK	216	0	19.04	19.12	19.07	
40	QPSK	1	1	18.91	18.99	18.95	20.05
40	QPSK	1	108	18.92	18.95	18.91	
40	QPSK	1	214	18.98	19.00	18.91	
40	QPSK	108	0	18.96	19.06	19.04	20.05
40	QPSK	108	54	18.98	19.06	19.02	20.05
40	QPSK	108	108	18.99	19.03	19.00	20.05
40	QPSK	216	0	18.97	19.05	19.00	
40	16QAM	1	1	18.96	19.04	19.01	20.05
40	64QAM	1	1	19.04	19.10	19.10	20.05
40	256QAM	1	1	19.07	19.10	19.02	20.05
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	19.01	18.99	19.00	20.05
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	19.03	18.96	19.05	20.05
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	18.97	18.99	18.98	20.05
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	19.05	18.98	19.03	20.05
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	18.98	19.00	19.02	20.05
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	19.05	19.05	18.98	20.05



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	14.48	14.51	14.50	16.3
40	PI/2 BPSK	1	108	14.48	14.50	14.44	
40	PI/2 BPSK	1	214	14.42	14.47	14.41	
40	PI/2 BPSK	108	0	14.39	14.49	14.41	16.3
40	PI/2 BPSK	108	54	14.49	14.50	14.49	16.3
40	PI/2 BPSK	108	108	14.45	14.47	14.45	16.3
40	PI/2 BPSK	216	0	14.41	14.46	14.39	
40	QPSK	1	1	14.36	14.43	14.35	16.3
40	QPSK	1	108	14.43	14.45	14.35	
40	QPSK	1	214	14.37	14.38	14.38	
40	QPSK	108	0	14.38	14.42	14.42	16.3
40	QPSK	108	54	14.37	14.42	14.38	16.3
40	QPSK	108	108	14.31	14.37	14.30	16.3
40	QPSK	216	0	14.38	14.41	14.35	
40	16QAM	1	1	14.46	14.48	14.42	16.3
40	64QAM	1	1	14.45	14.49	14.42	16.3
40	256QAM	1	1	14.40	14.50	14.42	16.3
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	14.42	14.46	14.45	16.3
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	14.46	14.47	14.48	16.3
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	14.38	14.43	14.40	16.3
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	14.38	14.47	14.45	16.3
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	14.44	14.45	14.40	16.3
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	14.45	14.45	14.43	16.3



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	14.48	14.51	14.50	15.6
40	PI/2 BPSK	1	108	14.48	14.50	14.44	
40	PI/2 BPSK	1	214	14.42	14.47	14.41	
40	PI/2 BPSK	108	0	14.39	14.49	14.41	15.6
40	PI/2 BPSK	108	54	14.49	14.50	14.49	15.6
40	PI/2 BPSK	108	108	14.45	14.47	14.45	15.6
40	PI/2 BPSK	216	0	14.41	14.46	14.39	
40	QPSK	1	1	14.36	14.43	14.35	15.6
40	QPSK	1	108	14.43	14.45	14.35	
40	QPSK	1	214	14.37	14.38	14.38	
40	QPSK	108	0	14.38	14.42	14.42	15.6
40	QPSK	108	54	14.37	14.42	14.38	15.6
40	QPSK	108	108	14.31	14.37	14.30	15.6
40	QPSK	216	0	14.38	14.41	14.35	
40	16QAM	1	1	14.46	14.48	14.42	15.6
40	64QAM	1	1	14.45	14.49	14.42	15.6
40	256QAM	1	1	14.40	14.50	14.42	15.6
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	14.42	14.46	14.45	15.6
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	14.46	14.47	14.48	15.6
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	14.38	14.43	14.40	15.6
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	14.38	14.47	14.45	15.6
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	14.44	14.45	14.40	15.6
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	14.45	14.45	14.43	15.6



<FR1 n25_Ant 1_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	20.96	21.02	21.00	21.9
40	PI/2 BPSK	1	108	21.00	21.00	20.93	
40	PI/2 BPSK	1	214	20.90	20.97	20.91	
40	PI/2 BPSK	108	0	20.95	21.00	20.91	21.9
40	PI/2 BPSK	108	54	20.99	21.01	21.00	21.9
40	PI/2 BPSK	108	108	20.96	20.96	20.88	21.9
40	PI/2 BPSK	216	0	20.94	21.00	20.99	
40	QPSK	1	1	20.96	20.96	20.90	21.9
40	QPSK	1	108	20.84	20.94	20.85	
40	QPSK	1	214	20.81	20.87	20.83	
40	QPSK	108	0	20.87	20.94	20.93	21.9
40	QPSK	108	54	20.91	20.97	20.93	21.9
40	QPSK	108	108	20.80	20.87	20.84	21.9
40	QPSK	216	0	20.85	20.92	20.86	
40	16QAM	1	1	21.00	21.00	21.00	21.9
40	64QAM	1	1	20.93	21.00	20.94	21.9
40	256QAM	1	1	19.62	19.62	19.52	20.5
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	20.89	20.94	20.90	21.9
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	20.88	20.94	20.91	21.9
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	20.92	21.00	20.93	21.9
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	20.95	20.96	20.96	21.9
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	20.92	20.98	20.90	21.9
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	20.86	20.93	21.00	21.9



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	20.96	21.02	21.00	22.6
40	PI/2 BPSK	1	108	21.00	21.00	20.93	
40	PI/2 BPSK	1	214	20.90	20.97	20.91	
40	PI/2 BPSK	108	0	20.95	21.00	20.91	22.6
40	PI/2 BPSK	108	54	20.99	21.01	21.00	22.6
40	PI/2 BPSK	108	108	20.96	20.96	20.88	22.6
40	PI/2 BPSK	216	0	20.94	21.00	20.99	
40	QPSK	1	1	20.96	20.96	20.90	22.6
40	QPSK	1	108	20.84	20.94	20.85	
40	QPSK	1	214	20.81	20.87	20.83	
40	QPSK	108	0	20.87	20.94	20.93	22.6
40	QPSK	108	54	20.91	20.97	20.93	22.6
40	QPSK	108	108	20.80	20.87	20.84	22.6
40	QPSK	216	0	20.85	20.92	20.86	
40	16QAM	1	1	21.00	21.00	21.00	22.6
40	64QAM	1	1	20.93	21.00	20.94	22.5
40	256QAM	1	1	19.62	19.62	19.52	20.5
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	20.89	20.94	20.90	22.6
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	20.88	20.94	20.91	22.6
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	20.92	21.00	20.93	22.6
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	20.95	20.96	20.96	22.6
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	20.92	20.98	20.90	22.6
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	20.86	20.93	21.00	22.6



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	20.96	21.02	21.00	21.9
40	PI/2 BPSK	1	108	21.00	21.00	20.93	
40	PI/2 BPSK	1	214	20.90	20.97	20.91	
40	PI/2 BPSK	108	0	20.95	21.00	20.91	21.9
40	PI/2 BPSK	108	54	20.99	21.01	21.00	21.9
40	PI/2 BPSK	108	108	20.96	20.96	20.88	21.9
40	PI/2 BPSK	216	0	20.94	21.00	20.99	
40	QPSK	1	1	20.96	20.96	20.90	21.9
40	QPSK	1	108	20.84	20.94	20.85	
40	QPSK	1	214	20.81	20.87	20.83	
40	QPSK	108	0	20.87	20.94	20.93	21.9
40	QPSK	108	54	20.91	20.97	20.93	21.9
40	QPSK	108	108	20.80	20.87	20.84	21.9
40	QPSK	216	0	20.85	20.92	20.86	
40	16QAM	1	1	21.00	21.00	21.00	21.9
40	64QAM	1	1	20.93	21.00	20.94	21.9
40	256QAM	1	1	19.62	19.62	19.52	20.5
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	20.89	20.94	20.90	21.9
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	20.88	20.94	20.91	21.9
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	20.92	21.00	20.93	21.9
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	20.95	20.96	20.96	21.9
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	20.92	20.98	20.90	21.9
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	20.86	20.93	21.00	21.9



<FR1 n25_Ant 2_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	23.97	24.03	23.96	25.0
40	PI/2 BPSK	1	108	23.94	23.98	23.92	
40	PI/2 BPSK	1	214	23.74	23.80	23.79	
40	PI/2 BPSK	108	0	23.45	23.47	23.42	24.5
40	PI/2 BPSK	108	54	23.79	23.89	23.87	25.0
40	PI/2 BPSK	108	108	23.24	23.32	23.26	24.5
40	PI/2 BPSK	216	0	23.28	23.38	23.30	
40	QPSK	1	1	24.00	24.02	23.97	25.0
40	QPSK	1	108	23.93	23.97	23.87	
40	QPSK	1	214	23.69	23.79	23.72	
40	QPSK	108	0	22.91	22.96	22.95	24.0
40	QPSK	108	54	23.82	23.90	23.88	25.0
40	QPSK	108	108	22.78	22.81	22.77	24.0
40	QPSK	216	0	22.84	22.85	22.75	
40	16QAM	1	1	22.93	22.97	22.92	24.0
40	64QAM	1	1	21.34	21.44	21.37	22.5
40	256QAM	1	1	19.42	19.45	19.40	20.5
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	23.95	23.99	23.96	25.0
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	23.96	23.98	23.95	25.0
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.94	23.97	23.95	25.0
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.95	23.96	23.94	25.0
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.93	23.94	23.91	25.0
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.88	23.89	23.87	25.0



<FR1 n25_Ant 2_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	23.97	24.03	23.96	25.0
40	PI/2 BPSK	1	108	23.94	23.98	23.92	
40	PI/2 BPSK	1	214	23.74	23.80	23.79	
40	PI/2 BPSK	108	0	23.45	23.47	23.42	24.5
40	PI/2 BPSK	108	54	23.79	23.89	23.87	25.0
40	PI/2 BPSK	108	108	23.24	23.32	23.26	24.5
40	PI/2 BPSK	216	0	23.28	23.38	23.30	
40	QPSK	1	1	24.00	24.02	23.97	25.0
40	QPSK	1	108	23.93	23.97	23.87	
40	QPSK	1	214	23.69	23.79	23.72	
40	QPSK	108	0	22.91	22.96	22.95	24.0
40	QPSK	108	54	23.82	23.90	23.88	25.0
40	QPSK	108	108	22.78	22.81	22.77	24.0
40	QPSK	216	0	22.84	22.85	22.75	
40	16QAM	1	1	22.93	22.97	22.92	24.0
40	64QAM	1	1	21.34	21.44	21.37	22.5
40	256QAM	1	1	19.42	19.45	19.40	20.5
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	23.95	23.99	23.96	25.0
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	23.96	23.98	23.95	25.0
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.94	23.97	23.95	25.0
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.95	23.96	23.94	25.0
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.93	23.94	23.91	25.0
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.88	23.89	23.87	25.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	19.96	20.05	19.97	21.2
40	PI/2 BPSK	1	108	19.98	20.04	19.99	
40	PI/2 BPSK	1	214	19.99	20.03	20.01	
40	PI/2 BPSK	108	0	19.95	20.03	19.94	21.2
40	PI/2 BPSK	108	54	20.02	20.04	20.02	21.2
40	PI/2 BPSK	108	108	19.93	20.01	20.00	21.2
40	PI/2 BPSK	216	0	20.00	20.03	20.02	
40	QPSK	1	1	20.03	20.03	19.97	21.2
40	QPSK	1	108	19.97	19.94	19.96	
40	QPSK	1	214	19.96	20.03	19.99	
40	QPSK	108	0	19.95	19.94	19.97	21.2
40	QPSK	108	54	19.93	19.98	19.97	21.2
40	QPSK	108	108	19.99	19.99	19.91	21.2
40	QPSK	216	0	19.98	19.96	19.95	
40	16QAM	1	1	19.99	20.03	20.00	21.2
40	64QAM	1	1	19.95	20.04	19.95	21.2
40	256QAM	1	1	19.81	19.81	19.80	20.5
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	19.91	20.00	19.97	21.2
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	19.96	20.04	19.91	21.2
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	19.96	20.02	19.95	21.2
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	19.99	20.01	19.94	21.2
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	19.97	19.98	19.97	21.2
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	19.96	20.01	19.93	21.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	19.96	20.05	19.97	21.9
40	PI/2 BPSK	1	108	19.98	20.04	19.99	
40	PI/2 BPSK	1	214	19.99	20.03	20.01	
40	PI/2 BPSK	108	0	19.95	20.03	19.94	21.9
40	PI/2 BPSK	108	54	20.02	20.04	20.02	21.9
40	PI/2 BPSK	108	108	19.93	20.01	20.00	21.9
40	PI/2 BPSK	216	0	20.00	20.03	20.02	
40	QPSK	1	1	20.03	20.03	19.97	21.9
40	QPSK	1	108	19.97	19.94	19.96	
40	QPSK	1	214	19.96	20.03	19.99	
40	QPSK	108	0	19.95	19.94	19.97	21.9
40	QPSK	108	54	19.93	19.98	19.97	21.9
40	QPSK	108	108	19.99	19.99	19.91	21.9
40	QPSK	216	0	19.98	19.96	19.95	
40	16QAM	1	1	19.99	20.03	20.00	21.9
40	64QAM	1	1	19.95	20.04	19.95	21.9
40	256QAM	1	1	19.81	19.81	19.80	20.5
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	19.91	20.00	19.97	21.9
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	19.96	20.04	19.91	21.9
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	19.96	20.02	19.95	21.9
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	19.99	20.01	19.94	21.9
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	19.97	19.98	19.97	21.9
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	19.96	20.01	19.93	21.9



<FR1 n25_Ant 2_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	19.96	20.05	19.97	21.2
40	PI/2 BPSK	1	108	19.98	20.04	19.99	
40	PI/2 BPSK	1	214	19.99	20.03	20.01	
40	PI/2 BPSK	108	0	19.95	20.03	19.94	21.2
40	PI/2 BPSK	108	54	20.02	20.04	20.02	21.2
40	PI/2 BPSK	108	108	19.93	20.01	20.00	21.2
40	PI/2 BPSK	216	0	20.00	20.03	20.02	
40	QPSK	1	1	20.03	20.03	19.97	21.2
40	QPSK	1	108	19.97	19.94	19.96	
40	QPSK	1	214	19.96	20.03	19.99	
40	QPSK	108	0	19.95	19.94	19.97	21.2
40	QPSK	108	54	19.93	19.98	19.97	21.2
40	QPSK	108	108	19.99	19.99	19.91	21.2
40	QPSK	216	0	19.98	19.96	19.95	
40	16QAM	1	1	19.99	20.03	20.00	21.2
40	64QAM	1	1	19.95	20.04	19.95	21.2
40	256QAM	1	1	19.81	19.81	19.80	20.5
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	19.91	20.00	19.97	21.2
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	19.96	20.04	19.91	21.2
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	19.96	20.02	19.95	21.2
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	19.99	20.01	19.94	21.2
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	19.97	19.98	19.97	21.2
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	19.96	20.01	19.93	21.2



<FR1 n25_Ant 5_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	18.23	18.29	18.26	20.0
40	PI/2 BPSK	1	108	18.21	18.28	18.25	
40	PI/2 BPSK	1	214	18.20	18.24	18.20	
40	PI/2 BPSK	108	0	18.19	18.26	18.16	20.0
40	PI/2 BPSK	108	54	18.22	18.30	18.22	20.0
40	PI/2 BPSK	108	108	18.21	18.27	18.21	20.0
40	PI/2 BPSK	216	0	18.20	18.29	18.25	
40	QPSK	1	1	18.24	18.29	18.26	20.0
40	QPSK	1	108	18.22	18.24	18.23	
40	QPSK	1	214	18.10	18.20	18.17	
40	QPSK	108	0	18.17	18.19	18.09	20.0
40	QPSK	108	54	18.16	18.26	18.18	20.0
40	QPSK	108	108	18.14	18.19	18.14	20.0
40	QPSK	216	0	18.24	18.24	18.21	
40	16QAM	1	1	18.17	18.23	18.13	20.0
40	64QAM	1	1	18.14	18.21	18.17	20.0
40	256QAM	1	1	18.18	18.20	18.14	20.0
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	18.23	18.18	18.18	20.0
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	18.14	18.24	18.19	20.0
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	18.23	18.14	18.23	20.0
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	18.14	18.20	18.21	20.0
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	18.17	18.20	18.19	20.0
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	18.16	18.22	18.19	20.0



<FR1 n25_Ant 5_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	18.23	18.29	18.26	19.3
40	PI/2 BPSK	1	108	18.21	18.28	18.25	
40	PI/2 BPSK	1	214	18.20	18.24	18.20	
40	PI/2 BPSK	108	0	18.19	18.26	18.16	19.3
40	PI/2 BPSK	108	54	18.22	18.30	18.22	19.3
40	PI/2 BPSK	108	108	18.21	18.27	18.21	19.3
40	PI/2 BPSK	216	0	18.20	18.29	18.25	
40	QPSK	1	1	18.24	18.29	18.26	19.3
40	QPSK	1	108	18.22	18.24	18.23	
40	QPSK	1	214	18.10	18.20	18.17	
40	QPSK	108	0	18.17	18.19	18.09	19.3
40	QPSK	108	54	18.16	18.26	18.18	19.3
40	QPSK	108	108	18.14	18.19	18.14	19.3
40	QPSK	216	0	18.24	18.24	18.21	
40	16QAM	1	1	18.17	18.23	18.13	19.3
40	64QAM	1	1	18.14	18.21	18.17	19.3
40	256QAM	1	1	18.18	18.20	18.14	19.3
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	18.23	18.18	18.18	19.3
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	18.14	18.24	18.19	19.3
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	18.23	18.14	18.23	19.3
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	18.14	18.20	18.21	19.3
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	18.17	18.20	18.19	19.3
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	18.16	18.22	18.19	19.3



<FR1 n25_Ant 5_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	23.39	23.41	23.37	24.8
40	PI/2 BPSK	1	108	23.35	23.36	23.32	
40	PI/2 BPSK	1	214	23.13	23.15	23.15	
40	PI/2 BPSK	108	0	22.82	22.83	22.75	24.3
40	PI/2 BPSK	108	54	23.26	23.28	23.25	24.8
40	PI/2 BPSK	108	108	22.73	22.73	22.68	24.3
40	PI/2 BPSK	216	0	22.74	22.79	22.77	
40	QPSK	1	1	23.26	23.35	23.27	24.8
40	QPSK	1	108	23.23	23.30	23.30	
40	QPSK	1	214	23.15	23.16	23.15	
40	QPSK	108	0	22.25	22.33	22.33	23.8
40	QPSK	108	54	23.25	23.28	23.26	24.8
40	QPSK	108	108	22.21	22.21	22.21	23.8
40	QPSK	216	0	22.19	22.28	22.24	
40	16QAM	1	1	22.23	22.27	22.18	23.8
40	64QAM	1	1	20.74	20.81	20.72	22.3
40	256QAM	1	1	18.86	18.86	18.83	20.3
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	23.35	23.36	23.35	24.8
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	23.34	23.37	23.31	24.8
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.35	23.36	23.28	24.8
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.29	23.36	23.36	24.8
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.37	23.37	23.30	24.8
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.38	23.40	23.30	24.8



<FR1 n25_Ant 5_Index 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	23.39	23.41	23.37	24.8
40	PI/2 BPSK	1	108	23.35	23.36	23.32	
40	PI/2 BPSK	1	214	23.13	23.15	23.15	
40	PI/2 BPSK	108	0	22.82	22.83	22.75	24.3
40	PI/2 BPSK	108	54	23.26	23.28	23.25	24.8
40	PI/2 BPSK	108	108	22.73	22.73	22.68	24.3
40	PI/2 BPSK	216	0	22.74	22.79	22.77	
40	QPSK	1	1	23.26	23.35	23.27	24.8
40	QPSK	1	108	23.23	23.30	23.30	
40	QPSK	1	214	23.15	23.16	23.15	
40	QPSK	108	0	22.25	22.33	22.33	23.8
40	QPSK	108	54	23.25	23.28	23.26	24.8
40	QPSK	108	108	22.21	22.21	22.21	23.8
40	QPSK	216	0	22.19	22.28	22.24	
40	16QAM	1	1	22.23	22.27	22.18	23.8
40	64QAM	1	1	20.74	20.81	20.72	22.3
40	256QAM	1	1	18.86	18.86	18.83	20.3
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	23.35	23.36	23.35	24.8
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	23.34	23.37	23.31	24.8
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.35	23.36	23.28	24.8
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.29	23.36	23.36	24.8
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.37	23.37	23.30	24.8
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.38	23.40	23.30	24.8



<FR1 n25_Ant 5_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	23.39	23.41	23.37	24.8
40	PI/2 BPSK	1	108	23.35	23.36	23.32	
40	PI/2 BPSK	1	214	23.13	23.15	23.15	
40	PI/2 BPSK	108	0	22.82	22.83	22.75	24.3
40	PI/2 BPSK	108	54	23.26	23.28	23.25	24.8
40	PI/2 BPSK	108	108	22.73	22.73	22.68	24.3
40	PI/2 BPSK	216	0	22.74	22.79	22.77	
40	QPSK	1	1	23.26	23.35	23.27	24.8
40	QPSK	1	108	23.23	23.30	23.30	
40	QPSK	1	214	23.15	23.16	23.15	
40	QPSK	108	0	22.25	22.33	22.33	23.8
40	QPSK	108	54	23.25	23.28	23.26	24.8
40	QPSK	108	108	22.21	22.21	22.21	23.8
40	QPSK	216	0	22.19	22.28	22.24	
40	16QAM	1	1	22.23	22.27	22.18	23.8
40	64QAM	1	1	20.74	20.81	20.72	22.3
40	256QAM	1	1	18.86	18.86	18.83	20.3
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	23.35	23.36	23.35	24.8
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	23.34	23.37	23.31	24.8
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.35	23.36	23.28	24.8
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.29	23.36	23.36	24.8
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.37	23.37	23.30	24.8
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.38	23.40	23.30	24.8



<FR1 n26_Ant 0_Index 2/3/4/5/6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	24.23	24.28	24.25	25.0
20	PI/2 BPSK	1	53	24.19	24.23	24.18	
20	PI/2 BPSK	1	104	24.10	24.14	24.09	
20	PI/2 BPSK	50	0	23.56	23.59	23.74	24.5
20	PI/2 BPSK	50	28	24.14	24.20	24.15	25.0
20	PI/2 BPSK	50	56	23.68	23.72	23.67	24.5
20	PI/2 BPSK	100	0	23.75	23.79	23.74	
20	QPSK	1	1	24.15	24.21	24.16	25.0
20	QPSK	1	53	24.14	24.20	24.15	
20	QPSK	1	104	24.07	24.12	24.07	
20	QPSK	50	0	23.06	23.11	23.06	24.0
20	QPSK	50	28	24.16	24.21	24.16	25.0
20	QPSK	50	56	23.15	23.20	23.15	24.0
20	QPSK	100	0	23.21	23.26	23.21	
20	16QAM	1	1	23.12	23.17	23.12	24.0
20	64QAM	1	1	21.78	21.82	21.78	22.5
20	256QAM	1	1	19.60	19.64	19.60	20.5
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	24.14	24.17	24.16	25.0
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	24.16	24.13	24.15	25.0
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	24.12	24.15	24.06	25.0



<FR1 n26_Ant 1_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	21.01	21.06	21.00	
20	PI/2 BPSK	1	53	21.00	21.05	20.97	22.5
20	PI/2 BPSK	1	104	21.01	21.01	20.98	
20	PI/2 BPSK	50	0	21.04	21.06	21.03	22.5
20	PI/2 BPSK	50	28	21.08	21.09	21.07	22.5
20	PI/2 BPSK	50	56	21.00	21.06	21.00	22.5
20	PI/2 BPSK	100	0	21.11	21.12	21.08	
20	QPSK	1	1	20.96	21.05	21.05	22.5
20	QPSK	1	53	20.89	20.97	20.97	
20	QPSK	1	104	20.89	20.97	20.91	
20	QPSK	50	0	20.98	21.02	20.92	22.5
20	QPSK	50	28	20.97	21.00	20.90	22.5
20	QPSK	50	56	20.88	20.97	20.93	22.5
20	QPSK	100	0	20.98	21.04	20.99	
20	16QAM	1	1	20.86	20.95	20.90	22.5
20	64QAM	1	1	20.94	21.01	20.91	22.5
20	256QAM	1	1	19.68	19.75	19.75	20.5
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	21.05	21.06	20.97	22.5
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	21.01	21.01	21.05	22.5
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	21.01	21.04	21.00	22.5



<FR1 n26_Ant 1_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	21.01	21.06	21.00	
20	PI/2 BPSK	1	53	21.00	21.05	20.97	21.8
20	PI/2 BPSK	1	104	21.01	21.01	20.98	
20	PI/2 BPSK	50	0	21.04	21.06	21.03	21.8
20	PI/2 BPSK	50	28	21.08	21.09	21.07	21.8
20	PI/2 BPSK	50	56	21.00	21.06	21.00	21.8
20	PI/2 BPSK	100	0	21.11	21.12	21.08	
20	QPSK	1	1	20.96	21.05	21.05	21.8
20	QPSK	1	53	20.89	20.97	20.97	
20	QPSK	1	104	20.89	20.97	20.91	
20	QPSK	50	0	20.98	21.02	20.92	21.8
20	QPSK	50	28	20.97	21.00	20.90	21.8
20	QPSK	50	56	20.88	20.97	20.93	21.8
20	QPSK	100	0	20.98	21.04	20.99	
20	16QAM	1	1	20.86	20.95	20.90	21.8
20	64QAM	1	1	20.94	21.01	20.91	21.8
20	256QAM	1	1	19.68	19.75	19.75	20.5
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	21.05	21.06	20.97	21.8
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	21.01	21.01	21.05	21.8
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	21.01	21.04	21.00	21.8



<FR1 n26_Ant 1_Index 4/5/6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				164800	166300	167800	Tune-up limit (dBm)
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	24.10	24.11	24.09	25.0
20	PI/2 BPSK	1	53	24.04	24.10	24.06	
20	PI/2 BPSK	1	104	23.97	24.06	23.98	
20	PI/2 BPSK	50	0	23.52	23.61	23.56	24.5
20	PI/2 BPSK	50	28	23.97	24.07	24.03	25.0
20	PI/2 BPSK	50	56	23.47	23.56	23.51	24.5
20	PI/2 BPSK	100	0	23.49	23.58	23.57	
20	QPSK	1	1	24.02	24.06	24.02	25.0
20	QPSK	1	53	24.08	24.08	24.01	
20	QPSK	1	104	23.95	24.01	23.96	
20	QPSK	50	0	23.09	23.10	23.05	24.0
20	QPSK	50	28	24.05	24.07	23.99	25.0
20	QPSK	50	56	23.06	23.06	23.04	24.0
20	QPSK	100	0	23.06	23.08	23.04	
20	16QAM	1	1	23.13	23.14	23.05	24.0
20	64QAM	1	1	21.61	21.64	21.63	22.5
20	256QAM	1	1	19.62	19.72	19.63	20.5
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	24.02	24.05	24.00	25.0
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	23.92	23.90	23.95	25.0
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	24.01	24.02	23.96	25.0



<FR1 n30_Ant 0_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		23.35		24.6
10	PI/2 BPSK	1	26		23.34		
10	PI/2 BPSK	1	50		23.29		
10	PI/2 BPSK	25	0		22.76		24.1
10	PI/2 BPSK	25	14		23.27		24.6
10	PI/2 BPSK	25	27		22.78		24.1
10	PI/2 BPSK	50	0		22.78		
10	QPSK	1	1		23.30		24.6
10	QPSK	1	26		23.28		
10	QPSK	1	50		23.33		
10	QPSK	25	0		22.28		23.6
10	QPSK	25	14		23.31		24.6
10	QPSK	25	27		22.30		23.6
10	QPSK	50	0		22.28		
10	16QAM	1	1		22.17		23.6
10	64QAM	1	1		20.88		22.1
10	256QAM	1	1		18.90		20.1
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	23.25	23.27	23.30	24.6

<FR1 n30_Ant 0_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		23.35		24.6
10	PI/2 BPSK	1	26		23.34		
10	PI/2 BPSK	1	50		23.29		
10	PI/2 BPSK	25	0		22.76		24.1
10	PI/2 BPSK	25	14		23.27		24.6
10	PI/2 BPSK	25	27		22.78		24.1
10	PI/2 BPSK	50	0		22.78		
10	QPSK	1	1		23.30		24.6
10	QPSK	1	26		23.28		
10	QPSK	1	50		23.33		
10	QPSK	25	0		22.28		23.6
10	QPSK	25	14		23.31		24.6
10	QPSK	25	27		22.30		23.6
10	QPSK	50	0		22.28		
10	16QAM	1	1		22.17		23.6
10	64QAM	1	1		20.88		22.1
10	256QAM	1	1		18.90		20.1
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	23.25	23.27	23.30	24.6



<FR1 n30_Ant 0_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		17.53		19.15
10	PI/2 BPSK	1	26		17.46		
10	PI/2 BPSK	1	50		17.39		
10	PI/2 BPSK	25	0		17.36		19.15
10	PI/2 BPSK	25	14		17.54		19.15
10	PI/2 BPSK	25	27		17.37		19.15
10	PI/2 BPSK	50	0		17.48		
10	QPSK	1	1		17.44		19.15
10	QPSK	1	26		17.41		
10	QPSK	1	50		17.36		
10	QPSK	25	0		17.34		19.15
10	QPSK	25	14		17.52		19.15
10	QPSK	25	27		17.34		19.15
10	QPSK	50	0		17.38		
10	16QAM	1	1		17.38		19.15
10	64QAM	1	1		17.44		19.15
10	256QAM	1	1		17.46		19.15
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	17.45	17.45	17.40	19.15

<FR1 n30_Ant 0_Index 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		19.80		20.55
10	PI/2 BPSK	1	26		19.79		
10	PI/2 BPSK	1	50		19.76		
10	PI/2 BPSK	25	0		19.79		20.55
10	PI/2 BPSK	25	14		19.82		20.55
10	PI/2 BPSK	25	27		19.81		20.55
10	PI/2 BPSK	50	0		19.85		
10	QPSK	1	1		19.70		20.55
10	QPSK	1	26		19.75		
10	QPSK	1	50		19.74		
10	QPSK	25	0		19.78		20.55
10	QPSK	25	14		19.75		20.55
10	QPSK	25	27		19.81		20.55
10	QPSK	50	0		19.84		
10	16QAM	1	1		19.72		20.55
10	64QAM	1	1		19.70		20.55
10	256QAM	1	1		18.90		20.10
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	19.76	19.78	19.70	20.55



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		19.80		19.85
10	PI/2 BPSK	1	26		19.79		
10	PI/2 BPSK	1	50		19.76		
10	PI/2 BPSK	25	0		19.79		19.85
10	PI/2 BPSK	25	14		19.82		19.85
10	PI/2 BPSK	25	27		19.81		19.85
10	PI/2 BPSK	50	0		19.85		
10	QPSK	1	1		19.70		19.85
10	QPSK	1	26		19.75		
10	QPSK	1	50		19.74		
10	QPSK	25	0		19.78		19.85
10	QPSK	25	14		19.75		19.85
10	QPSK	25	27		19.81		19.85
10	QPSK	50	0		19.84		
10	16QAM	1	1		19.72		19.85
10	64QAM	1	1		19.70		19.85
10	256QAM	1	1		18.90		19.85
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	19.76	19.78	19.70	19.85

<FR1 n30_Ant 2_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		23.79		24.6
10	PI/2 BPSK	1	26		23.75		
10	PI/2 BPSK	1	50		23.77		
10	PI/2 BPSK	25	0		23.24		24.1
10	PI/2 BPSK	25	14		23.70		24.6
10	PI/2 BPSK	25	27		23.28		24.1
10	PI/2 BPSK	50	0		23.56		
10	QPSK	1	1		23.77		24.6
10	QPSK	1	26		23.76		
10	QPSK	1	50		23.75		
10	QPSK	25	0		22.74		23.6
10	QPSK	25	14		23.75		24.6
10	QPSK	25	27		22.78		23.6
10	QPSK	50	0		22.77		
10	16QAM	1	1		22.73		23.6
10	64QAM	1	1		21.28		22.1
10	256QAM	1	1		19.17		20.1
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	23.73	23.76	23.74	24.6



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		23.79		24.6
10	PI/2 BPSK	1	26		23.75		
10	PI/2 BPSK	1	50		23.77		
10	PI/2 BPSK	25	0		23.24		24.1
10	PI/2 BPSK	25	14		23.70		24.6
10	PI/2 BPSK	25	27		23.28		24.1
10	PI/2 BPSK	50	0		23.56		
10	QPSK	1	1		23.77		24.6
10	QPSK	1	26		23.76		
10	QPSK	1	50		23.75		
10	QPSK	25	0		22.74		23.6
10	QPSK	25	14		23.75		24.6
10	QPSK	25	27		22.78		23.6
10	QPSK	50	0		22.77		
10	16QAM	1	1		22.73		23.6
10	64QAM	1	1		21.28		22.1
10	256QAM	1	1		19.17		20.1
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	23.73	23.76	23.74	24.6

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		20.67		21.1
10	PI/2 BPSK	1	26		20.62		
10	PI/2 BPSK	1	50		20.62		
10	PI/2 BPSK	25	0		20.63		21.1
10	PI/2 BPSK	25	14		20.64		21.1
10	PI/2 BPSK	25	27		20.59		21.1
10	PI/2 BPSK	50	0		20.65		
10	QPSK	1	1		20.58		21.1
10	QPSK	1	26		20.57		
10	QPSK	1	50		20.56		
10	QPSK	25	0		20.55		21.1
10	QPSK	25	14		20.54		21.1
10	QPSK	25	27		20.57		21.1
10	QPSK	50	0		20.57		
10	16QAM	1	1		20.60		21.1
10	64QAM	1	1		20.62		21.1
10	256QAM	1	1		19.73		20.1
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	20.60	20.62	20.61	21.1



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		20.67		21.8
10	PI/2 BPSK	1	26		20.62		
10	PI/2 BPSK	1	50		20.62		
10	PI/2 BPSK	25	0		20.63		21.8
10	PI/2 BPSK	25	14		20.64		21.8
10	PI/2 BPSK	25	27		20.59		21.8
10	PI/2 BPSK	50	0		20.65		
10	QPSK	1	1		20.58		21.8
10	QPSK	1	26		20.57		
10	QPSK	1	50		20.56		
10	QPSK	25	0		20.55		21.8
10	QPSK	25	14		20.54		21.8
10	QPSK	25	27		20.57		21.8
10	QPSK	50	0		20.57		
10	16QAM	1	1		20.60		21.8
10	64QAM	1	1		20.62		21.8
10	256QAM	1	1		19.73		20.1
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	20.60	20.62	20.61	21.8

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		20.67		21.1
10	PI/2 BPSK	1	26		20.62		
10	PI/2 BPSK	1	50		20.62		
10	PI/2 BPSK	25	0		20.63		21.1
10	PI/2 BPSK	25	14		20.64		21.1
10	PI/2 BPSK	25	27		20.59		21.1
10	PI/2 BPSK	50	0		20.65		
10	QPSK	1	1		20.58		21.1
10	QPSK	1	26		20.57		
10	QPSK	1	50		20.56		
10	QPSK	25	0		20.55		21.1
10	QPSK	25	14		20.54		21.1
10	QPSK	25	27		20.57		21.1
10	QPSK	50	0		20.57		
10	16QAM	1	1		20.60		21.1
10	64QAM	1	1		20.62		21.1
10	256QAM	1	1		19.73		20.1
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	20.60	20.62	20.61	21.1



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	23.52	23.55	23.47	25.0
40	PI/2 BPSK	1	108	23.62	23.88	23.83	
40	PI/2 BPSK	1	214	23.64	23.71	23.66	
40	PI/2 BPSK	108	0	23.01	23.08	23.03	24.5
40	PI/2 BPSK	108	54	23.50	23.57	23.52	25.0
40	PI/2 BPSK	108	108	23.11	23.18	23.13	24.5
40	PI/2 BPSK	216	0	23.02	23.06	23.01	
40	QPSK	1	1	23.44	23.51	23.46	25.0
40	QPSK	1	108	23.61	23.68	23.63	
40	QPSK	1	214	23.59	23.66	23.61	
40	QPSK	108	0	23.53	23.60	23.55	24.0
40	QPSK	108	54	23.51	23.58	23.53	25.0
40	QPSK	108	108	22.68	22.68	22.63	24.0
40	QPSK	216	0	22.50	22.57	22.52	
40	16QAM	1	1	22.38	22.45	22.41	24.0
40	64QAM	1	1	21.03	21.09	21.05	22.5
40	256QAM	1	1	19.06	19.12	19.08	20.5
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	23.45	23.43	23.35	25.0
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	23.44	23.46	23.39	25.0
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.46	23.50	23.35	25.0
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.45	23.50	23.40	25.0
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.44	23.43	23.35	25.0
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.40	23.47	23.39	25.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	23.52	23.55	23.47	25.0
40	PI/2 BPSK	1	108	23.62	23.88	23.83	
40	PI/2 BPSK	1	214	23.64	23.71	23.66	
40	PI/2 BPSK	108	0	23.01	23.08	23.03	24.5
40	PI/2 BPSK	108	54	23.50	23.57	23.52	25.0
40	PI/2 BPSK	108	108	23.11	23.18	23.13	24.5
40	PI/2 BPSK	216	0	23.02	23.06	23.01	
40	QPSK	1	1	23.44	23.51	23.46	25.0
40	QPSK	1	108	23.61	23.68	23.63	
40	QPSK	1	214	23.59	23.66	23.61	
40	QPSK	108	0	23.53	23.60	23.55	24.0
40	QPSK	108	54	23.51	23.58	23.53	25.0
40	QPSK	108	108	22.68	22.68	22.63	24.0
40	QPSK	216	0	22.50	22.57	22.52	
40	16QAM	1	1	22.38	22.45	22.41	24.0
40	64QAM	1	1	21.03	21.09	21.05	22.5
40	256QAM	1	1	19.06	19.12	19.08	20.5
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	23.45	23.43	23.35	25.0
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	23.44	23.46	23.39	25.0
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.46	23.50	23.35	25.0
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.45	23.50	23.40	25.0
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.44	23.43	23.35	25.0
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.40	23.47	23.39	25.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	17.25	17.30	17.25	18.55
40	PI/2 BPSK	1	108	17.22	17.20	17.18	
40	PI/2 BPSK	1	214	17.17	17.21	17.15	
40	PI/2 BPSK	108	0	17.25	17.28	17.21	18.55
40	PI/2 BPSK	108	54	17.27	17.37	17.31	18.55
40	PI/2 BPSK	108	108	17.32	17.36	17.31	18.55
40	PI/2 BPSK	216	0	17.32	17.33	17.30	
40	QPSK	1	1	17.12	17.24	17.16	18.55
40	QPSK	1	108	17.25	17.12	17.21	
40	QPSK	1	214	17.16	17.17	17.16	
40	QPSK	108	0	17.12	17.19	17.18	18.55
40	QPSK	108	54	17.12	17.20	17.19	18.55
40	QPSK	108	108	17.21	17.26	17.17	18.55
40	QPSK	216	0	17.23	17.30	17.22	
40	16QAM	1	1	17.23	17.30	17.26	18.55
40	64QAM	1	1	17.30	17.32	17.23	18.55
40	256QAM	1	1	17.23	17.28	17.25	18.55
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	17.25	17.25	17.28	18.55
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	17.22	17.29	17.18	18.55
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	17.17	17.21	17.15	18.55
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	17.25	17.28	17.21	18.55
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	17.27	17.32	17.31	18.55
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	17.32	17.33	17.31	18.55



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	18.20	18.22	18.20	20.15
40	PI/2 BPSK	1	108	18.24	18.29	18.20	
40	PI/2 BPSK	1	214	18.26	18.26	18.23	
40	PI/2 BPSK	108	0	18.29	18.36	18.31	20.15
40	PI/2 BPSK	108	54	18.33	18.40	18.36	20.15
40	PI/2 BPSK	108	108	18.35	18.39	18.38	20.15
40	PI/2 BPSK	216	0	18.37	18.39	18.32	
40	QPSK	1	1	18.18	18.26	18.20	20.15
40	QPSK	1	108	18.26	18.21	18.31	
40	QPSK	1	214	18.16	18.25	18.22	
40	QPSK	108	0	18.22	18.26	18.18	20.15
40	QPSK	108	54	18.20	18.30	18.22	20.15
40	QPSK	108	108	18.28	18.36	18.26	20.15
40	QPSK	216	0	18.25	18.34	18.32	
40	16QAM	1	1	18.31	18.32	18.32	20.15
40	64QAM	1	1	18.33	18.35	18.31	20.15
40	256QAM	1	1	18.28	18.34	18.29	20.15
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	18.25	18.25	18.23	20.15
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	18.25	18.27	18.29	20.15
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	18.18	18.24	18.23	20.15
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	18.27	18.28	18.36	20.15
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	18.35	18.35	18.32	20.15
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	18.38	18.29	18.34	20.15



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	18.20	18.22	18.20	19.45
40	PI/2 BPSK	1	108	18.24	18.29	18.20	
40	PI/2 BPSK	1	214	18.26	18.26	18.23	
40	PI/2 BPSK	108	0	18.29	18.36	18.31	19.45
40	PI/2 BPSK	108	54	18.33	18.40	18.36	19.45
40	PI/2 BPSK	108	108	18.35	18.39	18.38	19.45
40	PI/2 BPSK	216	0	18.37	18.39	18.32	
40	QPSK	1	1	18.18	18.26	18.20	19.45
40	QPSK	1	108	18.26	18.21	18.31	
40	QPSK	1	214	18.16	18.25	18.22	
40	QPSK	108	0	18.22	18.26	18.18	19.45
40	QPSK	108	54	18.20	18.30	18.22	19.45
40	QPSK	108	108	18.28	18.36	18.26	19.45
40	QPSK	216	0	18.25	18.34	18.32	
40	16QAM	1	1	18.31	18.32	18.32	19.45
40	64QAM	1	1	18.33	18.35	18.31	19.45
40	256QAM	1	1	18.28	18.34	18.29	19.45
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	18.25	18.25	18.23	19.45
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	18.25	18.27	18.29	19.45
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	18.18	18.24	18.23	19.45
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	18.27	18.28	18.36	19.45
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	18.35	18.35	18.32	19.45
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	18.38	18.29	18.34	19.45



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	15.63	15.69	15.64	17.3
40	PI/2 BPSK	1	108	15.67	15.60	15.56	
40	PI/2 BPSK	1	214	15.53	15.58	15.60	
40	PI/2 BPSK	108	0	15.57	15.66	15.57	17.3
40	PI/2 BPSK	108	54	15.63	15.67	15.66	17.3
40	PI/2 BPSK	108	108	15.60	15.57	15.61	17.3
40	PI/2 BPSK	216	0	15.59	15.66	15.51	
40	QPSK	1	1	15.47	15.62	15.45	17.3
40	QPSK	1	108	15.62	15.59	15.54	
40	QPSK	1	214	15.52	15.53	15.48	
40	QPSK	108	0	15.54	15.59	15.58	17.3
40	QPSK	108	54	15.48	15.58	15.58	17.3
40	QPSK	108	108	15.48	15.47	15.50	17.3
40	QPSK	216	0	15.55	15.58	15.47	
40	16QAM	1	1	15.56	15.68	15.56	17.3
40	64QAM	1	1	15.65	15.60	15.55	17.3
40	256QAM	1	1	15.56	15.65	15.58	17.3
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	15.61	15.64	15.68	17.3
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	15.62	15.67	15.66	17.3
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	15.66	15.65	15.68	17.3
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	15.68	15.66	15.68	17.3
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	15.62	15.67	15.66	17.3
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	15.66	15.67	15.60	17.3



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	15.63	15.69	15.64	
40	PI/2 BPSK	1	108	15.67	15.60	15.56	16.6
40	PI/2 BPSK	1	214	15.53	15.58	15.60	
40	PI/2 BPSK	108	0	15.57	15.66	15.57	
40	PI/2 BPSK	108	54	15.63	15.67	15.66	16.6
40	PI/2 BPSK	108	108	15.60	15.57	15.61	
40	PI/2 BPSK	216	0	15.59	15.66	15.51	
40	QPSK	1	1	15.47	15.62	15.45	
40	QPSK	1	108	15.62	15.59	15.54	
40	QPSK	1	214	15.52	15.53	15.48	
40	QPSK	108	0	15.54	15.59	15.58	16.6
40	QPSK	108	54	15.48	15.58	15.58	16.6
40	QPSK	108	108	15.48	15.47	15.50	
40	QPSK	216	0	15.55	15.58	15.47	
40	16QAM	1	1	15.56	15.68	15.56	16.6
40	64QAM	1	1	15.65	15.60	15.55	16.6
40	256QAM	1	1	15.56	15.65	15.58	16.6
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	15.61	15.64	15.68	16.6
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	15.62	15.67	15.66	16.6
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	15.66	15.65	15.68	16.6
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	15.68	15.66	15.68	16.6
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	15.62	15.67	15.66	16.6
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	15.66	15.67	15.60	16.6



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	22.15	22.20	22.18	22.8
40	PI/2 BPSK	1	108	22.14	22.17	22.10	
40	PI/2 BPSK	1	214	22.06	22.14	22.10	
40	PI/2 BPSK	108	0	22.08	22.15	22.14	22.8
40	PI/2 BPSK	108	54	22.06	22.16	22.12	22.8
40	PI/2 BPSK	108	108	22.08	22.15	22.13	22.8
40	PI/2 BPSK	216	0	22.04	22.14	22.05	
40	QPSK	1	1	22.02	22.12	22.02	22.8
40	QPSK	1	108	22.08	22.09	22.06	
40	QPSK	1	214	22.07	22.13	22.03	
40	QPSK	108	0	22.06	22.15	22.12	22.8
40	QPSK	108	54	22.10	22.10	22.07	22.8
40	QPSK	108	108	22.05	22.08	22.08	22.8
40	QPSK	216	0	22.10	22.10	22.00	
40	16QAM	1	1	22.03	22.12	22.05	22.8
40	64QAM	1	1	21.69	21.76	21.67	22.5
40	256QAM	1	1	19.85	19.85	19.80	20.5
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	22.07	22.16	22.18	22.8
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	22.07	22.15	22.08	22.8
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	22.12	22.18	22.18	22.8
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	22.14	22.18	22.15	22.8
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	22.10	22.13	22.12	22.8
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	22.06	22.18	22.14	22.8



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	22.15	22.20	22.18	23.5
40	PI/2 BPSK	1	108	22.14	22.17	22.10	
40	PI/2 BPSK	1	214	22.06	22.14	22.10	
40	PI/2 BPSK	108	0	22.08	22.15	22.14	23.5
40	PI/2 BPSK	108	54	22.06	22.16	22.12	23.5
40	PI/2 BPSK	108	108	22.08	22.15	22.13	23.5
40	PI/2 BPSK	216	0	22.04	22.14	22.05	
40	QPSK	1	1	22.02	22.12	22.02	23.5
40	QPSK	1	108	22.08	22.09	22.06	
40	QPSK	1	214	22.07	22.13	22.03	
40	QPSK	108	0	22.06	22.15	22.12	23.5
40	QPSK	108	54	22.10	22.10	22.07	23.5
40	QPSK	108	108	22.05	22.08	22.08	23.5
40	QPSK	216	0	22.10	22.10	22.00	
40	16QAM	1	1	22.03	22.12	22.05	23.5
40	64QAM	1	1	21.69	21.76	21.67	22.5
40	256QAM	1	1	19.85	19.85	19.80	20.5
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	22.07	22.16	22.18	23.5
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	22.07	22.15	22.08	23.5
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	22.12	22.18	22.18	23.5
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	22.14	22.18	22.15	23.5
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	22.10	22.13	22.12	23.5
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	22.06	22.18	22.14	23.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	22.15	22.20	22.18	22.8
40	PI/2 BPSK	1	108	22.14	22.17	22.10	
40	PI/2 BPSK	1	214	22.06	22.14	22.10	
40	PI/2 BPSK	108	0	22.08	22.15	22.14	22.8
40	PI/2 BPSK	108	54	22.06	22.16	22.12	22.8
40	PI/2 BPSK	108	108	22.08	22.15	22.13	22.8
40	PI/2 BPSK	216	0	22.04	22.14	22.05	
40	QPSK	1	1	22.02	22.12	22.02	22.8
40	QPSK	1	108	22.08	22.09	22.06	
40	QPSK	1	214	22.07	22.13	22.03	
40	QPSK	108	0	22.06	22.15	22.12	22.8
40	QPSK	108	54	22.10	22.10	22.07	22.8
40	QPSK	108	108	22.05	22.08	22.08	22.8
40	QPSK	216	0	22.10	22.10	22.00	
40	16QAM	1	1	22.03	22.12	22.05	22.8
40	64QAM	1	1	21.69	21.76	21.67	22.5
40	256QAM	1	1	19.85	19.85	19.80	20.5
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	22.07	22.16	22.18	22.8
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	22.07	22.15	22.08	22.8
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	22.12	22.18	22.18	22.8
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	22.14	22.18	22.15	22.8
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	22.10	22.13	22.12	22.8
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	22.06	22.18	22.14	22.8



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	23.95	24.10	24.06	25.0
40	PI/2 BPSK	1	108	23.71	23.88	23.83	
40	PI/2 BPSK	1	214	23.70	23.87	23.82	
40	PI/2 BPSK	108	0	23.25	23.41	23.36	24.5
40	PI/2 BPSK	108	54	23.67	23.84	23.79	25.0
40	PI/2 BPSK	108	108	23.35	23.51	23.46	24.5
40	PI/2 BPSK	216	0	23.20	23.36	23.31	
40	QPSK	1	1	23.68	23.85	23.80	25.0
40	QPSK	1	108	23.67	23.84	23.79	
40	QPSK	1	214	23.71	23.88	23.83	
40	QPSK	108	0	22.83	22.99	22.94	24.0
40	QPSK	108	54	23.73	23.90	23.85	25.0
40	QPSK	108	108	23.28	23.44	23.39	24.0
40	QPSK	216	0	23.33	23.49	23.44	
40	16QAM	1	1	22.76	22.92	22.87	24.0
40	64QAM	1	1	21.29	21.44	21.40	22.5
40	256QAM	1	1	19.27	19.41	19.37	20.5
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	23.88	24.04	24.01	25.0
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	23.86	24.05	23.99	25.0
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.84	24.02	24.01	25.0
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.85	24.03	23.95	25.0
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.89	24.00	23.95	25.0
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.85	24.01	24.01	25.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	23.95	24.10	24.06	25.0
40	PI/2 BPSK	1	108	23.71	23.88	23.83	
40	PI/2 BPSK	1	214	23.70	23.87	23.82	
40	PI/2 BPSK	108	0	23.25	23.41	23.36	24.5
40	PI/2 BPSK	108	54	23.67	23.84	23.79	25.0
40	PI/2 BPSK	108	108	23.35	23.51	23.46	24.5
40	PI/2 BPSK	216	0	23.20	23.36	23.31	
40	QPSK	1	1	23.68	23.85	23.80	25.0
40	QPSK	1	108	23.67	23.84	23.79	
40	QPSK	1	214	23.71	23.88	23.83	
40	QPSK	108	0	22.83	22.99	22.94	24.0
40	QPSK	108	54	23.73	23.90	23.85	25.0
40	QPSK	108	108	23.28	23.44	23.39	24.0
40	QPSK	216	0	23.33	23.49	23.44	
40	16QAM	1	1	22.76	22.92	22.87	24.0
40	64QAM	1	1	21.29	21.44	21.40	22.5
40	256QAM	1	1	19.27	19.41	19.37	20.5
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	23.88	24.04	24.01	25.0
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	23.86	24.05	23.99	25.0
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.84	24.02	24.01	25.0
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.85	24.03	23.95	25.0
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.89	24.00	23.95	25.0
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.85	24.01	24.01	25.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	21.75	21.76	21.75	22.6
40	PI/2 BPSK	1	108	21.67	21.72	21.64	
40	PI/2 BPSK	1	214	21.74	21.75	21.75	
40	PI/2 BPSK	108	0	21.72	21.74	21.71	22.6
40	PI/2 BPSK	108	54	21.73	21.75	21.72	22.6
40	PI/2 BPSK	108	108	21.65	21.73	21.72	22.6
40	PI/2 BPSK	216	0	21.72	21.73	21.65	
40	QPSK	1	1	21.72	21.72	21.65	22.6
40	QPSK	1	108	21.54	21.62	21.53	
40	QPSK	1	214	21.60	21.65	21.64	
40	QPSK	108	0	21.64	21.68	21.62	22.6
40	QPSK	108	54	21.67	21.73	21.65	22.6
40	QPSK	108	108	21.69	21.73	21.63	22.6
40	QPSK	216	0	21.64	21.70	21.70	
40	16QAM	1	1	21.71	21.74	21.65	22.6
40	64QAM	1	1	21.75	21.75	21.65	22.5
40	256QAM	1	1	19.51	19.54	19.44	20.5
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	21.65	21.71	21.66	22.6
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	21.75	21.74	21.69	22.6
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	21.71	21.68	21.67	22.6
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	21.68	21.67	21.70	22.6
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	21.68	21.66	21.74	22.6
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	21.75	21.69	21.68	22.6



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	21.75	21.76	21.75	23.3
40	PI/2 BPSK	1	108	21.67	21.72	21.64	
40	PI/2 BPSK	1	214	21.74	21.75	21.75	
40	PI/2 BPSK	108	0	21.72	21.74	21.71	23.3
40	PI/2 BPSK	108	54	21.73	21.75	21.72	23.3
40	PI/2 BPSK	108	108	21.65	21.73	21.72	23.3
40	PI/2 BPSK	216	0	21.72	21.73	21.65	
40	QPSK	1	1	21.72	21.72	21.65	23.3
40	QPSK	1	108	21.54	21.62	21.53	
40	QPSK	1	214	21.60	21.65	21.64	
40	QPSK	108	0	21.64	21.68	21.62	23.3
40	QPSK	108	54	21.67	21.73	21.65	23.3
40	QPSK	108	108	21.69	21.73	21.63	23.3
40	QPSK	216	0	21.64	21.70	21.70	
40	16QAM	1	1	21.71	21.74	21.65	23.3
40	64QAM	1	1	21.75	21.75	21.65	22.5
40	256QAM	1	1	19.51	19.54	19.44	20.5
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	21.65	21.71	21.66	23.3
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	21.75	21.74	21.69	23.3
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	21.71	21.68	21.67	23.3
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	21.68	21.67	21.70	23.3
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	21.68	21.66	21.74	23.3
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	21.75	21.69	21.68	23.3



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	21.75	21.76	21.75	22.6
40	PI/2 BPSK	1	108	21.67	21.72	21.64	
40	PI/2 BPSK	1	214	21.74	21.75	21.75	
40	PI/2 BPSK	108	0	21.72	21.74	21.71	22.6
40	PI/2 BPSK	108	54	21.73	21.75	21.72	22.6
40	PI/2 BPSK	108	108	21.65	21.73	21.72	22.6
40	PI/2 BPSK	216	0	21.72	21.73	21.65	
40	QPSK	1	1	21.72	21.72	21.65	22.6
40	QPSK	1	108	21.54	21.62	21.53	
40	QPSK	1	214	21.60	21.65	21.64	
40	QPSK	108	0	21.64	21.68	21.62	22.6
40	QPSK	108	54	21.67	21.73	21.65	22.6
40	QPSK	108	108	21.69	21.73	21.63	22.6
40	QPSK	216	0	21.64	21.70	21.70	
40	16QAM	1	1	21.71	21.74	21.65	22.6
40	64QAM	1	1	21.75	21.75	21.65	22.5
40	256QAM	1	1	19.51	19.54	19.44	20.5
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	21.65	21.71	21.66	22.6
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	21.75	21.74	21.69	22.6
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	21.71	21.68	21.67	22.6
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	21.68	21.67	21.70	22.6
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	21.68	21.66	21.74	22.6
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	21.75	21.69	21.68	22.6



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	18.85	18.92	18.86	19.8
40	PI/2 BPSK	1	108	18.83	18.88	18.83	
40	PI/2 BPSK	1	214	18.84	18.88	18.83	
40	PI/2 BPSK	108	0	18.89	18.94	18.93	19.8
40	PI/2 BPSK	108	54	18.93	18.95	18.88	19.8
40	PI/2 BPSK	108	108	18.90	18.91	18.82	19.8
40	PI/2 BPSK	216	0	18.87	18.92	18.84	
40	QPSK	1	1	18.91	18.92	18.85	19.8
40	QPSK	1	108	18.82	18.85	18.79	
40	QPSK	1	214	18.77	18.84	18.82	
40	QPSK	108	0	18.88	18.92	18.91	19.8
40	QPSK	108	54	18.80	18.88	18.83	19.8
40	QPSK	108	108	18.85	18.91	18.90	19.8
40	QPSK	216	0	18.82	18.87	18.79	
40	16QAM	1	1	18.79	18.80	18.80	19.8
40	64QAM	1	1	18.79	18.87	18.82	19.8
40	256QAM	1	1	18.81	18.87	18.86	19.8
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	18.81	18.92	18.84	19.8
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	18.76	18.87	18.79	19.8
Channel				342000	349000	356000	Tune-up limit (dBm)
Frequency (MHz)				1710	1745	1780	
20	PI/2 BPSK	1	1	18.80	18.89	18.76	19.8
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	18.75	18.82	18.86	19.8
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	18.83	18.87	18.80	19.8
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	18.84	18.85	18.76	19.8



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	18.85	18.92	18.86	19.1
40	PI/2 BPSK	1	108	18.83	18.88	18.83	
40	PI/2 BPSK	1	214	18.84	18.88	18.83	
40	PI/2 BPSK	108	0	18.89	18.94	18.93	19.1
40	PI/2 BPSK	108	54	18.93	18.95	18.88	19.1
40	PI/2 BPSK	108	108	18.90	18.91	18.82	19.1
40	PI/2 BPSK	216	0	18.87	18.92	18.84	
40	QPSK	1	1	18.91	18.92	18.85	19.1
40	QPSK	1	108	18.82	18.85	18.79	
40	QPSK	1	214	18.77	18.84	18.82	
40	QPSK	108	0	18.88	18.92	18.91	19.1
40	QPSK	108	54	18.80	18.88	18.83	19.1
40	QPSK	108	108	18.85	18.91	18.90	19.1
40	QPSK	216	0	18.82	18.87	18.79	
40	16QAM	1	1	18.79	18.80	18.80	19.1
40	64QAM	1	1	18.79	18.87	18.82	19.1
40	256QAM	1	1	18.81	18.87	18.86	19.1
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	18.81	18.92	18.84	19.1
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	18.76	18.87	18.79	19.1
Channel				342000	349000	356000	Tune-up limit (dBm)
Frequency (MHz)				1710	1745	1780	
20	PI/2 BPSK	1	1	18.80	18.89	18.76	19.1
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	18.75	18.82	18.86	19.1
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	18.83	18.87	18.80	19.1
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	18.84	18.85	18.76	19.1



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	22.41	22.51	22.45	23.5
40	PI/2 BPSK	1	108	22.45	22.50	22.43	
40	PI/2 BPSK	1	214	22.39	22.44	22.38	
40	PI/2 BPSK	108	0	22.37	22.42	22.32	23.5
40	PI/2 BPSK	108	54	22.45	22.62	22.47	23.5
40	PI/2 BPSK	108	108	22.26	22.35	22.26	23.5
40	PI/2 BPSK	216	0	22.27	22.36	22.35	
40	QPSK	1	1	22.38	22.47	22.47	23.5
40	QPSK	1	108	22.45	22.49	22.42	
40	QPSK	1	214	22.31	22.36	22.32	
40	QPSK	108	0	22.55	22.61	22.55	23.5
40	QPSK	108	54	22.40	22.49	22.46	23.5
40	QPSK	108	108	22.04	22.05	21.98	23.5
40	QPSK	216	0	22.03	22.08	22.00	
40	16QAM	1	1	22.16	22.22	22.13	23.5
40	64QAM	1	1	20.91	20.92	20.88	22.3
40	256QAM	1	1	18.61	18.65	18.61	20.3
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	22.49	22.49	22.41	23.5
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	22.43	22.46	22.48	23.5
Channel				342000	349000	356000	Tune-up limit (dBm)
Frequency (MHz)				1710	1745	1780	
20	PI/2 BPSK	1	1	22.49	22.47	22.41	23.5
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	22.50	22.43	22.41	23.5
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	22.41	22.51	22.51	23.5
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	22.44	22.45	22.51	23.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	22.41	22.51	22.45	
40	PI/2 BPSK	1	108	22.45	22.50	22.43	
40	PI/2 BPSK	1	214	22.39	22.44	22.38	24.3
40	PI/2 BPSK	108	0	22.37	22.42	22.32	
40	PI/2 BPSK	108	54	22.45	22.62	22.47	24.3
40	PI/2 BPSK	108	108	22.26	22.35	22.26	24.3
40	PI/2 BPSK	216	0	22.27	22.36	22.35	
40	QPSK	1	1	22.38	22.47	22.47	24.3
40	QPSK	1	108	22.45	22.49	22.42	
40	QPSK	1	214	22.31	22.36	22.32	
40	QPSK	108	0	22.55	22.61	22.55	23.8
40	QPSK	108	54	22.40	22.49	22.46	24.3
40	QPSK	108	108	22.04	22.05	21.98	23.8
40	QPSK	216	0	22.03	22.08	22.00	
40	16QAM	1	1	22.16	22.22	22.13	23.8
40	64QAM	1	1	20.91	20.92	20.88	22.3
40	256QAM	1	1	18.61	18.65	18.61	20.3
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	22.49	22.49	22.41	24.3
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	22.43	22.46	22.48	24.3
Channel				342000	349000	356000	Tune-up limit (dBm)
Frequency (MHz)				1710	1745	1780	
20	PI/2 BPSK	1	1	22.49	22.47	22.41	24.3
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	22.50	22.43	22.41	24.3
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	22.41	22.51	22.51	24.3
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	22.44	22.45	22.51	24.3



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	22.41	22.51	22.45	23.6
40	PI/2 BPSK	1	108	22.45	22.50	22.43	
40	PI/2 BPSK	1	214	22.39	22.44	22.38	
40	PI/2 BPSK	108	0	22.37	22.42	22.32	23.6
40	PI/2 BPSK	108	54	22.45	22.62	22.47	23.6
40	PI/2 BPSK	108	108	22.26	22.35	22.26	23.6
40	PI/2 BPSK	216	0	22.27	22.36	22.35	
40	QPSK	1	1	22.38	22.47	22.47	23.6
40	QPSK	1	108	22.45	22.49	22.42	
40	QPSK	1	214	22.31	22.36	22.32	
40	QPSK	108	0	22.55	22.61	22.55	23.6
40	QPSK	108	54	22.40	22.49	22.46	23.6
40	QPSK	108	108	22.04	22.05	21.98	23.6
40	QPSK	216	0	22.03	22.08	22.00	
40	16QAM	1	1	22.16	22.22	22.13	23.6
40	64QAM	1	1	20.91	20.92	20.88	22.3
40	256QAM	1	1	18.61	18.65	18.61	20.3
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	22.49	22.49	22.41	23.6
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	22.43	22.46	22.48	23.6
Channel				342000	349000	356000	Tune-up limit (dBm)
Frequency (MHz)				1710	1745	1780	
20	PI/2 BPSK	1	1	22.49	22.47	22.41	23.6
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	22.50	22.43	22.41	23.6
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	22.41	22.51	22.51	23.6
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	22.44	22.45	22.51	23.6



<FR1 n70_Ant 0_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		23.36		24.7
15	PI/2 BPSK	1	40		23.26		
15	PI/2 BPSK	1	77		23.29		
15	PI/2 BPSK	36	0		23.03		24.2
15	PI/2 BPSK	36	22		23.35		24.7
15	PI/2 BPSK	36	43		23.01		24.2
15	PI/2 BPSK	75	0		23.04		
15	QPSK	1	1		23.31		24.7
15	QPSK	1	40		23.31		
15	QPSK	1	77		23.29		
15	QPSK	36	0		22.55		23.7
15	QPSK	36	22		23.30		24.7
15	QPSK	36	43		22.50		23.7
15	QPSK	75	0		22.58		
15	16QAM	1	1		22.55		23.7
15	64QAM	1	1		21.15		22.2
15	256QAM	1	1		19.28		20.2
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	23.24	23.33	23.21	24.7
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	23.25	23.30	23.22	24.7

<FR1 n70_Ant 0_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		23.36		24.7
15	PI/2 BPSK	1	40		23.26		
15	PI/2 BPSK	1	77		23.29		
15	PI/2 BPSK	36	0		23.03		24.2
15	PI/2 BPSK	36	22		23.35		24.7
15	PI/2 BPSK	36	43		23.01		24.2
15	PI/2 BPSK	75	0		23.04		
15	QPSK	1	1		23.31		24.7
15	QPSK	1	40		23.31		
15	QPSK	1	77		23.29		
15	QPSK	36	0		22.55		23.7
15	QPSK	36	22		23.30		24.7
15	QPSK	36	43		22.50		23.7
15	QPSK	75	0		22.58		
15	16QAM	1	1		22.55		23.7
15	64QAM	1	1		21.15		22.2
15	256QAM	1	1		19.28		20.2
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	23.24	23.33	23.21	24.7
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	23.25	23.30	23.22	24.7



<FR1 n70_Ant 0_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		17.69		18.75
15	PI/2 BPSK	1	40		17.59		
15	PI/2 BPSK	1	77		17.61		
15	PI/2 BPSK	36	0		17.64		18.75
15	PI/2 BPSK	36	22		17.71		18.75
15	PI/2 BPSK	36	43		17.64		18.75
15	PI/2 BPSK	75	0		17.67		
15	QPSK	1	1		17.67		18.75
15	QPSK	1	40		17.50		
15	QPSK	1	77		17.51		
15	QPSK	36	0		17.64		18.75
15	QPSK	36	22		17.70		18.75
15	QPSK	36	43		17.55		18.75
15	QPSK	75	0		17.59		
15	16QAM	1	1		17.54		18.75
15	64QAM	1	1		17.58		18.75
15	256QAM	1	1		17.56		18.75
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	17.61	17.51	17.55	18.75
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	17.56	17.51	17.54	18.75

<FR1 n70_Ant 0_Index 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		17.69		19.45
15	PI/2 BPSK	1	40		17.59		
15	PI/2 BPSK	1	77		17.61		
15	PI/2 BPSK	36	0		17.64		19.45
15	PI/2 BPSK	36	22		17.71		19.45
15	PI/2 BPSK	36	43		17.64		19.45
15	PI/2 BPSK	75	0		17.67		
15	QPSK	1	1		17.67		19.45
15	QPSK	1	40		17.50		
15	QPSK	1	77		17.51		
15	QPSK	36	0		17.64		19.45
15	QPSK	36	22		17.70		19.45
15	QPSK	36	43		17.55		19.45
15	QPSK	75	0		17.59		
15	16QAM	1	1		17.54		19.45
15	64QAM	1	1		17.58		19.45
15	256QAM	1	1		17.56		19.45
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	17.61	17.51	17.55	19.45
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	17.56	17.51	17.54	19.45



<FR1 n70_Ant 0_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		17.69		18.75
15	PI/2 BPSK	1	40		17.59		
15	PI/2 BPSK	1	77		17.61		
15	PI/2 BPSK	36	0		17.64		18.75
15	PI/2 BPSK	36	22		17.71		18.75
15	PI/2 BPSK	36	43		17.64		18.75
15	PI/2 BPSK	75	0		17.67		
15	QPSK	1	1		17.67		18.75
15	QPSK	1	40		17.50		
15	QPSK	1	77		17.51		
15	QPSK	36	0		17.64		18.75
15	QPSK	36	22		17.70		18.75
15	QPSK	36	43		17.55		18.75
15	QPSK	75	0		17.59		
15	16QAM	1	1		17.54		18.75
15	64QAM	1	1		17.58		18.75
15	256QAM	1	1		17.56		18.75
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	17.61	17.51	17.55	18.75
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	17.56	17.51	17.54	18.75

<FR1 n70_Ant 2_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		24.05		24.7
15	PI/2 BPSK	1	40		23.94		
15	PI/2 BPSK	1	77		24.04		
15	PI/2 BPSK	36	0		23.51		24.2
15	PI/2 BPSK	36	22		24.03		24.7
15	PI/2 BPSK	36	43		23.52		24.2
15	PI/2 BPSK	75	0		23.55		
15	QPSK	1	1		24.02		24.7
15	QPSK	1	40		24.03		
15	QPSK	1	77		23.99		
15	QPSK	36	0		23.05		23.7
15	QPSK	36	22		24.02		24.7
15	QPSK	36	43		23.01		23.7
15	QPSK	75	0		23.04		
15	16QAM	1	1		23.16		23.7
15	64QAM	1	1		21.58		22.2
15	256QAM	1	1		19.72		20.2
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	23.95	24.00	23.91	24.7
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	23.94	23.95	23.97	24.7



<FR1 n70_Ant 2_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		24.05		24.7
15	PI/2 BPSK	1	40		23.94		
15	PI/2 BPSK	1	77		24.04		
15	PI/2 BPSK	36	0		23.51		24.2
15	PI/2 BPSK	36	22		24.03		24.7
15	PI/2 BPSK	36	43		23.52		24.2
15	PI/2 BPSK	75	0		23.55		
15	QPSK	1	1		24.02		24.7
15	QPSK	1	40		24.03		
15	QPSK	1	77		23.99		
15	QPSK	36	0		23.05		23.7
15	QPSK	36	22		24.02		24.7
15	QPSK	36	43		23.01		23.7
15	QPSK	75	0		23.04		
15	16QAM	1	1		23.16		23.7
15	64QAM	1	1		21.58		22.2
15	256QAM	1	1		19.72		20.2
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	23.95	24.00	23.91	24.7
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	23.94	23.95	23.97	24.7

<FR1 n70_Ant 2_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		20.87		22.0
15	PI/2 BPSK	1	40		20.83		
15	PI/2 BPSK	1	77		20.85		
15	PI/2 BPSK	36	0		20.85		22.0
15	PI/2 BPSK	36	22		20.86		22.0
15	PI/2 BPSK	36	43		20.84		22.0
15	PI/2 BPSK	75	0		20.86		
15	QPSK	1	1		20.78		22.0
15	QPSK	1	40		20.74		
15	QPSK	1	77		20.77		
15	QPSK	36	0		20.83		22.0
15	QPSK	36	22		20.77		22.0
15	QPSK	36	43		20.80		22.0
15	QPSK	75	0		20.77		
15	16QAM	1	1		20.85		22.0
15	64QAM	1	1		20.84		22.2
15	256QAM	1	1		19.57		20.2
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	20.84	20.85	20.82	22.0
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	20.85	20.83	20.84	22.0



<FR1 n70_Ant 2_Index 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		20.87		22.7
15	PI/2 BPSK	1	40		20.83		
15	PI/2 BPSK	1	77		20.85		
15	PI/2 BPSK	36	0		20.85		22.7
15	PI/2 BPSK	36	22		20.86		22.7
15	PI/2 BPSK	36	43		20.84		22.7
15	PI/2 BPSK	75	0		20.86		
15	QPSK	1	1		20.78		22.7
15	QPSK	1	40		20.74		
15	QPSK	1	77		20.77		
15	QPSK	36	0		20.83		22.7
15	QPSK	36	22		20.77		22.7
15	QPSK	36	43		20.80		22.7
15	QPSK	75	0		20.77		
15	16QAM	1	1		20.85		22.7
15	64QAM	1	1		20.84		22.2
15	256QAM	1	1		19.57		20.2
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	20.84	20.85	20.82	22.7
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	20.85	20.83	20.84	22.7

<FR1 n70_Ant 2_Index 6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		20.87		22.0
15	PI/2 BPSK	1	40		20.83		
15	PI/2 BPSK	1	77		20.85		
15	PI/2 BPSK	36	0		20.85		22.0
15	PI/2 BPSK	36	22		20.86		22.0
15	PI/2 BPSK	36	43		20.84		22.0
15	PI/2 BPSK	75	0		20.86		
15	QPSK	1	1		20.78		22.0
15	QPSK	1	40		20.74		
15	QPSK	1	77		20.77		
15	QPSK	36	0		20.83		22.0
15	QPSK	36	22		20.77		22.0
15	QPSK	36	43		20.80		22.0
15	QPSK	75	0		20.77		
15	16QAM	1	1		20.85		22.0
15	64QAM	1	1		20.84		22.0
15	256QAM	1	1		19.57		20.2
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	20.84	20.85	20.82	22.0
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	20.85	20.83	20.84	22.0



<FR1 n71_Ant 0_Index 2/3/4/5/6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	24.49	24.51	24.44	25.0
20	PI/2 BPSK	1	53	24.45	24.50	24.43	
20	PI/2 BPSK	1	104	24.42	24.45	24.36	
20	PI/2 BPSK	50	0	23.94	23.98	23.91	24.5
20	PI/2 BPSK	50	28	24.43	24.46	24.41	25.0
20	PI/2 BPSK	50	56	23.92	23.95	23.95	24.5
20	PI/2 BPSK	100	0	23.95	23.96	23.86	
20	QPSK	1	1	24.38	24.46	24.41	25.0
20	QPSK	1	53	24.46	24.50	24.47	
20	QPSK	1	104	24.40	24.45	24.45	
20	QPSK	50	0	23.38	23.47	23.42	24.0
20	QPSK	50	28	24.44	24.45	24.41	25.0
20	QPSK	50	56	23.43	23.43	23.36	24.0
20	QPSK	100	0	23.41	23.43	23.36	
20	16QAM	1	1	23.39	23.41	23.39	24.0
20	64QAM	1	1	21.89	21.96	21.91	22.5
20	256QAM	1	1	19.93	19.94	19.92	20.5
Channel				132600	136100	139600	Tune-up limit (dBm)
Frequency (MHz)				663	680.5	698	
15	PI/2 BPSK	1	1	24.41	24.45	24.48	25.0
Channel				132600	136100	139600	Tune-up limit (dBm)
Frequency (MHz)				663	680.5	698	
10	PI/2 BPSK	1	1	24.43	24.42	24.50	25.0
Channel				132600	136100	139600	Tune-up limit (dBm)
Frequency (MHz)				663	680.5	698	
5	PI/2 BPSK	1	1	24.43	24.40	24.47	25.0



<FR1 n71_Ant 1_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	22.51	22.60	22.52	23.3
20	PI/2 BPSK	1	53	22.52	22.58	22.52	
20	PI/2 BPSK	1	104	22.51	22.58	22.58	
20	PI/2 BPSK	50	0	22.52	22.59	22.51	23.3
20	PI/2 BPSK	50	28	22.54	22.60	22.53	23.3
20	PI/2 BPSK	50	56	22.52	22.55	22.54	23.3
20	PI/2 BPSK	100	0	22.60	22.60	22.57	
20	QPSK	1	1	22.53	22.58	22.55	23.3
20	QPSK	1	53	22.56	22.59	22.51	
20	QPSK	1	104	22.52	22.58	22.55	
20	QPSK	50	0	22.52	22.53	22.47	23.3
20	QPSK	50	28	22.57	22.59	22.59	23.3
20	QPSK	50	56	22.51	22.54	22.46	23.3
20	QPSK	100	0	22.57	22.57	22.56	
20	16QAM	1	1	22.53	22.56	22.49	23.3
20	64QAM	1	1	21.80	21.85	21.84	22.5
20	256QAM	1	1	19.97	20.06	20.02	20.5
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	22.51	22.54	22.50	23.3
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	22.44	22.48	22.47	23.3
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	22.50	22.59	22.51	23.3



<FR1 n71_Ant 1_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	22.51	22.60	22.52	22.6
20	PI/2 BPSK	1	53	22.52	22.58	22.52	
20	PI/2 BPSK	1	104	22.51	22.58	22.58	
20	PI/2 BPSK	50	0	22.52	22.59	22.51	22.6
20	PI/2 BPSK	50	28	22.54	22.60	22.53	22.6
20	PI/2 BPSK	50	56	22.52	22.55	22.54	22.6
20	PI/2 BPSK	100	0	22.60	22.60	22.57	
20	QPSK	1	1	22.53	22.58	22.55	22.6
20	QPSK	1	53	22.56	22.59	22.51	
20	QPSK	1	104	22.52	22.58	22.55	
20	QPSK	50	0	22.52	22.53	22.47	22.6
20	QPSK	50	28	22.57	22.59	22.59	22.6
20	QPSK	50	56	22.51	22.54	22.46	22.6
20	QPSK	100	0	22.57	22.57	22.56	
20	16QAM	1	1	22.53	22.56	22.49	22.6
20	64QAM	1	1	21.80	21.85	21.84	22.5
20	256QAM	1	1	19.97	20.06	20.02	20.5
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	22.51	22.54	22.50	22.6
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	22.44	22.48	22.47	22.6
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	22.50	22.59	22.51	22.6



<FR1 n71_Ant 1_Index 4/5/6>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	24.40	24.47	24.46	25.0
20	PI/2 BPSK	1	53	24.32	24.41	24.40	
20	PI/2 BPSK	1	104	24.28	24.36	24.32	
20	PI/2 BPSK	50	0	23.98	24.00	23.96	24.5
20	PI/2 BPSK	50	28	24.28	24.34	24.33	25.0
20	PI/2 BPSK	50	56	24.05	24.06	24.06	24.5
20	PI/2 BPSK	100	0	24.00	24.03	23.97	
20	QPSK	1	1	24.32	24.38	24.29	25.0
20	QPSK	1	53	24.34	24.44	24.42	
20	QPSK	1	104	24.33	24.40	24.34	
20	QPSK	50	0	23.45	23.50	23.40	24.0
20	QPSK	50	28	24.27	24.33	24.32	25.0
20	QPSK	50	56	23.45	23.55	23.46	24.0
20	QPSK	100	0	23.44	23.52	23.43	
20	16QAM	1	1	23.41	23.49	23.45	24.0
20	64QAM	1	1	21.88	21.98	21.96	22.5
20	256QAM	1	1	20.06	20.11	20.11	20.5
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	24.40	24.41	24.35	25.0
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	24.33	24.30	24.28	25.0
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	24.41	24.45	24.39	25.0



<FR1 n38_Ant 0_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	23.33	23.38	23.31	
40	PI/2 BPSK	1	53	23.21	23.21	23.17	25.0
40	PI/2 BPSK	1	104	23.15	23.14	23.12	
40	PI/2 BPSK	50	0	22.80	22.80	22.74	24.5
40	PI/2 BPSK	50	28	23.19	23.21	23.20	25.0
40	PI/2 BPSK	50	56	22.70	22.67	22.66	24.5
40	PI/2 BPSK	100	0	22.73	22.73	22.72	
40	QPSK	1	1	23.31	23.28	23.31	25.0
40	QPSK	1	53	23.25	23.20	23.17	
40	QPSK	1	104	23.18	23.15	23.14	
40	QPSK	50	0	22.29	22.28	22.24	24.0
40	QPSK	50	28	23.24	23.22	23.22	25.0
40	QPSK	50	56	22.20	22.14	22.16	24.0
40	QPSK	100	0	22.24	22.21	22.22	
40	16QAM	1	1	22.28	22.24	22.29	24.0
40	64QAM	1	1	20.85	20.80	20.86	22.5
40	256QAM	1	1	19.04	19.00	19.04	20.5
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	23.25	23.30	23.25	25.0
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	23.23	23.29	23.21	25.0
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	23.26	23.32	23.24	25.0
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	23.24	23.32	23.23	25.0
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	23.26	23.29	23.22	25.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	23.33	23.38	23.31	
40	PI/2 BPSK	1	53	23.21	23.21	23.17	25.0
40	PI/2 BPSK	1	104	23.15	23.14	23.12	
40	PI/2 BPSK	50	0	22.80	22.80	22.74	24.5
40	PI/2 BPSK	50	28	23.19	23.21	23.20	25.0
40	PI/2 BPSK	50	56	22.70	22.67	22.66	24.5
40	PI/2 BPSK	100	0	22.73	22.73	22.72	
40	QPSK	1	1	23.31	23.28	23.31	25.0
40	QPSK	1	53	23.25	23.20	23.17	
40	QPSK	1	104	23.18	23.15	23.14	
40	QPSK	50	0	22.29	22.28	22.24	24.0
40	QPSK	50	28	23.24	23.22	23.22	25.0
40	QPSK	50	56	22.20	22.14	22.16	24.0
40	QPSK	100	0	22.24	22.21	22.22	
40	16QAM	1	1	22.28	22.24	22.29	24.0
40	64QAM	1	1	20.85	20.80	20.86	22.5
40	256QAM	1	1	19.04	19.00	19.04	20.5
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	23.25	23.30	23.25	25.0
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	23.23	23.29	23.21	25.0
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	23.26	23.32	23.24	25.0
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	23.24	23.32	23.23	25.0
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	23.26	23.29	23.22	25.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	18.05
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	16.36	16.40	16.39	
40	PI/2 BPSK	1	53	16.27	16.36	16.40	18.05
40	PI/2 BPSK	1	104	16.36	16.40	16.26	
40	PI/2 BPSK	50	0	16.26	16.25	16.26	18.05
40	PI/2 BPSK	50	28	16.33	16.31	16.26	18.05
40	PI/2 BPSK	50	56	16.28	16.31	16.25	18.05
40	PI/2 BPSK	100	0	16.33	16.31	16.29	
40	QPSK	1	1	16.34	16.38	16.27	18.05
40	QPSK	1	53	16.29	16.31	16.25	
40	QPSK	1	104	16.40	16.35	16.35	
40	QPSK	50	0	16.25	16.26	16.26	18.05
40	QPSK	50	28	16.26	16.27	16.27	18.05
40	QPSK	50	56	16.25	16.25	16.33	18.05
40	QPSK	100	0	16.27	16.26	16.26	
40	16QAM	1	1	16.32	16.28	16.40	18.05
40	64QAM	1	1	16.30	16.35	16.40	18.05
40	256QAM	1	1	16.31	16.33	16.27	18.05
Channel				517000	519000	521000	18.05
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	16.37	16.36	16.37	18.05
Channel				516500	519000	521500	18.05
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	16.38	16.36	16.35	18.05
Channel				516000	519000	522000	18.05
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	16.36	16.39	16.37	18.05
Channel				515500	519000	522500	18.05
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	16.38	16.38	16.36	18.05
Channel				515000	519000	523000	18.05
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	16.35	16.38	16.36	18.05



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	18.22	18.21	18.17	19.55
40	PI/2 BPSK	1	53	18.09	18.10	18.11	
40	PI/2 BPSK	1	104	18.12	18.19	18.06	
40	PI/2 BPSK	50	0	17.81	17.81	17.83	19.55
40	PI/2 BPSK	50	28	17.86	17.97	17.82	19.55
40	PI/2 BPSK	50	56	17.85	17.84	17.77	19.55
40	PI/2 BPSK	100	0	17.91	17.93	17.91	
40	QPSK	1	1	18.12	18.09	18.13	19.55
40	QPSK	1	53	18.08	18.08	18.07	
40	QPSK	1	104	18.05	18.07	18.01	
40	QPSK	50	0	17.92	18.00	17.90	19.55
40	QPSK	50	28	18.01	18.05	17.94	19.55
40	QPSK	50	56	17.82	17.90	17.81	19.55
40	QPSK	100	0	17.95	18.10	18.05	
40	16QAM	1	1	18.13	18.20	18.20	19.55
40	64QAM	1	1	18.10	18.11	18.04	19.55
40	256QAM	1	1	18.03	18.09	18.05	19.55
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	18.08	18.18	18.18	19.55
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	18.04	18.19	18.16	19.55
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	18.11	18.13	18.10	19.55
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	18.09	18.19	18.10	19.55
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	18.10	18.14	18.14	19.55



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	18.22	18.21	18.17	
40	PI/2 BPSK	1	53	18.09	18.10	18.11	18.85
40	PI/2 BPSK	1	104	18.12	18.19	18.06	
40	PI/2 BPSK	50	0	17.81	17.81	17.83	18.85
40	PI/2 BPSK	50	28	17.86	17.97	17.82	18.85
40	PI/2 BPSK	50	56	17.85	17.84	17.77	18.85
40	PI/2 BPSK	100	0	17.91	17.93	17.91	
40	QPSK	1	1	18.12	18.09	18.13	18.85
40	QPSK	1	53	18.08	18.08	18.07	
40	QPSK	1	104	18.05	18.07	18.01	
40	QPSK	50	0	17.92	18.00	17.90	18.85
40	QPSK	50	28	18.01	18.05	17.94	18.85
40	QPSK	50	56	17.82	17.90	17.81	18.85
40	QPSK	100	0	17.95	18.10	18.05	
40	16QAM	1	1	18.13	18.20	18.20	18.85
40	64QAM	1	1	18.10	18.11	18.04	18.85
40	256QAM	1	1	18.03	18.09	18.05	18.85
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	18.08	18.18	18.18	18.85
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	18.04	18.19	18.16	18.85
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	18.11	18.13	18.10	18.85
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	18.09	18.19	18.10	18.85
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	18.10	18.14	18.14	18.85



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	17.09	17.12	17.18	
40	PI/2 BPSK	1	53	17.11	17.13	17.17	18.2
40	PI/2 BPSK	1	104	17.05	17.10	17.00	
40	PI/2 BPSK	50	0	17.16	17.08	17.04	18.2
40	PI/2 BPSK	50	28	17.09	17.15	17.03	18.2
40	PI/2 BPSK	50	56	17.03	17.07	17.10	18.2
40	PI/2 BPSK	100	0	16.99	17.03	17.04	
40	QPSK	1	1	17.06	17.19	17.08	18.2
40	QPSK	1	53	17.13	17.05	17.03	
40	QPSK	1	104	17.00	16.93	16.91	
40	QPSK	50	0	16.96	17.04	17.05	18.2
40	QPSK	50	28	17.03	17.03	16.94	18.2
40	QPSK	50	56	16.91	17.06	16.92	18.2
40	QPSK	100	0	16.91	16.95	16.90	
40	16QAM	1	1	16.99	17.05	17.08	18.2
40	64QAM	1	1	17.02	17.07	17.04	18.2
40	256QAM	1	1	17.03	16.95	16.93	18.2
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	17.09	17.15	17.18	18.2
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	17.12	17.17	17.14	18.2
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	17.18	17.13	17.17	18.2
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	17.15	17.11	17.16	18.2
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	17.14	17.15	17.16	18.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	17.09	17.12	17.18	
40	PI/2 BPSK	1	53	17.11	17.13	17.17	17.5
40	PI/2 BPSK	1	104	17.05	17.10	17.00	
40	PI/2 BPSK	50	0	17.16	17.08	17.04	17.5
40	PI/2 BPSK	50	28	17.09	17.15	17.03	17.5
40	PI/2 BPSK	50	56	17.03	17.07	17.10	17.5
40	PI/2 BPSK	100	0	16.99	17.03	17.04	
40	QPSK	1	1	17.06	17.19	17.08	17.5
40	QPSK	1	53	17.13	17.05	17.03	
40	QPSK	1	104	17.00	16.93	16.91	
40	QPSK	50	0	16.96	17.04	17.05	17.5
40	QPSK	50	28	17.03	17.03	16.94	17.5
40	QPSK	50	56	16.91	17.06	16.92	17.5
40	QPSK	100	0	16.91	16.95	16.90	
40	16QAM	1	1	16.99	17.05	17.08	17.5
40	64QAM	1	1	17.02	17.07	17.04	17.5
40	256QAM	1	1	17.03	16.95	16.93	17.5
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	17.09	17.15	17.18	17.5
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	17.12	17.17	17.14	17.5
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	17.18	17.13	17.17	17.5
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	17.15	17.11	17.16	17.5
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	17.14	17.15	17.16	17.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	22.16	22.23	22.13	22.6
40	PI/2 BPSK	1	53	21.92	21.95	21.87	
40	PI/2 BPSK	1	104	21.92	22.07	21.95	
40	PI/2 BPSK	50	0	21.96	22.00	21.89	22.6
40	PI/2 BPSK	50	28	21.96	22.03	22.00	22.6
40	PI/2 BPSK	50	56	21.94	22.02	22.01	22.6
40	PI/2 BPSK	100	0	21.97	21.99	21.95	
40	QPSK	1	1	22.21	22.19	22.06	22.6
40	QPSK	1	53	21.89	21.93	21.89	
40	QPSK	1	104	21.86	21.96	21.93	
40	QPSK	50	0	21.92	21.90	21.86	22.6
40	QPSK	50	28	21.97	21.95	21.80	22.6
40	QPSK	50	56	21.84	21.97	21.79	22.6
40	QPSK	100	0	21.90	21.99	21.85	
40	16QAM	1	1	21.95	22.03	21.98	22.6
40	64QAM	1	1	20.96	21.06	20.92	22.5
40	256QAM	1	1	19.33	19.39	19.34	20.5
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	22.01	22.03	21.99	22.6
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	22.00	21.96	22.01	22.6
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	21.93	21.98	21.95	22.6
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	22.00	21.97	21.96	22.6
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	21.96	22.04	21.97	22.6



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	22.16	22.23	22.13	
40	PI/2 BPSK	1	53	21.92	21.95	21.87	23.3
40	PI/2 BPSK	1	104	21.92	22.07	21.95	
40	PI/2 BPSK	50	0	21.96	22.00	21.89	23.3
40	PI/2 BPSK	50	28	21.96	22.03	22.00	23.3
40	PI/2 BPSK	50	56	21.94	22.02	22.01	23.3
40	PI/2 BPSK	100	0	21.97	21.99	21.95	
40	QPSK	1	1	22.21	22.19	22.06	23.3
40	QPSK	1	53	21.89	21.93	21.89	
40	QPSK	1	104	21.86	21.96	21.93	
40	QPSK	50	0	21.92	21.90	21.86	23.3
40	QPSK	50	28	21.97	21.95	21.80	23.3
40	QPSK	50	56	21.84	21.97	21.79	23.3
40	QPSK	100	0	21.90	21.99	21.85	
40	16QAM	1	1	21.95	22.03	21.98	23.3
40	64QAM	1	1	20.96	21.06	20.92	22.5
40	256QAM	1	1	19.33	19.39	19.34	20.5
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	22.01	22.03	21.99	23.3
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	22.00	21.96	22.01	23.3
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	21.93	21.98	21.95	23.3
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	22.00	21.97	21.96	23.3
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	21.96	22.04	21.97	23.3



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	22.16	22.23	22.13	22.6
40	PI/2 BPSK	1	53	21.92	21.95	21.87	
40	PI/2 BPSK	1	104	21.92	22.07	21.95	
40	PI/2 BPSK	50	0	21.96	22.00	21.89	22.6
40	PI/2 BPSK	50	28	21.96	22.03	22.00	22.6
40	PI/2 BPSK	50	56	21.94	22.02	22.01	22.6
40	PI/2 BPSK	100	0	21.97	21.99	21.95	
40	QPSK	1	1	22.21	22.19	22.06	22.6
40	QPSK	1	53	21.89	21.93	21.89	
40	QPSK	1	104	21.86	21.96	21.93	
40	QPSK	50	0	21.92	21.90	21.86	22.6
40	QPSK	50	28	21.97	21.95	21.80	22.6
40	QPSK	50	56	21.84	21.97	21.79	22.6
40	QPSK	100	0	21.90	21.99	21.85	
40	16QAM	1	1	21.95	22.03	21.98	22.6
40	64QAM	1	1	20.96	21.06	20.92	22.5
40	256QAM	1	1	19.33	19.39	19.34	20.5
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	22.01	22.03	21.99	22.6
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	22.00	21.96	22.01	22.6
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	21.93	21.98	21.95	22.6
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	22.00	21.97	21.96	22.6
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	21.96	22.04	21.97	22.6



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	22.01	22.07	21.99	23.3
40	PI/2 BPSK	1	53	21.76	21.85	21.86	
40	PI/2 BPSK	1	104	21.90	22.00	22.01	
40	PI/2 BPSK	50	0	21.78	21.79	21.86	23.3
40	PI/2 BPSK	50	28	21.81	21.90	21.86	23.3
40	PI/2 BPSK	50	56	21.86	21.85	21.69	23.3
40	PI/2 BPSK	100	0	21.90	21.90	21.79	
40	QPSK	1	1	21.82	21.97	21.91	23.3
40	QPSK	1	53	21.73	21.84	21.74	
40	QPSK	1	104	21.80	21.91	21.96	
40	QPSK	50	0	21.73	21.76	21.77	23.3
40	QPSK	50	28	21.81	21.85	21.85	23.3
40	QPSK	50	56	21.72	21.85	21.78	23.3
40	QPSK	100	0	21.76	21.77	21.83	
40	16QAM	1	1	21.97	22.01	21.98	23.3
40	64QAM	1	1	21.62	21.75	21.69	22.5
40	256QAM	1	1	19.80	19.81	19.78	20.5
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	21.92	22.03	21.97	23.3
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	21.98	22.05	21.97	23.3
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	21.93	22.01	21.98	23.3
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	21.91	22.01	21.96	23.3
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	21.95	22.00	21.89	23.3



<FR1 n38_Ant 2_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	22.01	22.07	21.99	22.6
40	PI/2 BPSK	1	53	21.76	21.85	21.86	
40	PI/2 BPSK	1	104	21.90	22.00	22.01	
40	PI/2 BPSK	50	0	21.78	21.79	21.86	22.6
40	PI/2 BPSK	50	28	21.81	21.90	21.86	22.6
40	PI/2 BPSK	50	56	21.86	21.85	21.69	22.6
40	PI/2 BPSK	100	0	21.90	21.90	21.79	
40	QPSK	1	1	21.82	21.97	21.91	22.6
40	QPSK	1	53	21.73	21.84	21.74	
40	QPSK	1	104	21.80	21.91	21.96	
40	QPSK	50	0	21.73	21.76	21.77	22.6
40	QPSK	50	28	21.81	21.85	21.85	22.6
40	QPSK	50	56	21.72	21.85	21.78	22.6
40	QPSK	100	0	21.76	21.77	21.83	
40	16QAM	1	1	21.97	22.01	21.98	22.6
40	64QAM	1	1	21.62	21.75	21.69	22.5
40	256QAM	1	1	19.80	19.81	19.78	20.5
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	21.92	22.03	21.97	22.6
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	21.98	22.05	21.97	22.6
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	21.93	22.01	21.98	22.6
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	21.91	22.01	21.96	22.6
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	21.95	22.00	21.89	22.6



<FR1 n38_Ant 2_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	20.7
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	19.71	19.84	19.74	
40	PI/2 BPSK	1	53	19.69	19.79	19.72	20.7
40	PI/2 BPSK	1	104	19.78	19.80	19.80	
40	PI/2 BPSK	50	0	19.76	19.82	19.75	20.7
40	PI/2 BPSK	50	28	19.62	19.60	19.65	20.7
40	PI/2 BPSK	50	56	19.84	19.78	19.70	20.7
40	PI/2 BPSK	100	0	19.66	19.66	19.62	
40	QPSK	1	1	19.81	19.84	19.77	20.7
40	QPSK	1	53	19.76	19.77	19.71	
40	QPSK	1	104	19.69	19.82	19.72	
40	QPSK	50	0	19.74	19.82	19.80	20.7
40	QPSK	50	28	19.69	19.75	19.74	20.7
40	QPSK	50	56	19.78	19.76	19.70	20.7
40	QPSK	100	0	19.71	19.81	19.81	
40	16QAM	1	1	19.81	19.81	19.82	20.7
40	64QAM	1	1	19.80	19.79	19.80	20.7
40	256QAM	1	1	19.43	19.41	19.46	20.5
Channel				517000	519000	521000	20.7
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	19.83	19.79	19.81	20.7
Channel				516500	519000	521500	20.7
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	19.75	19.80	19.82	20.7
Channel				516000	519000	522000	20.7
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	19.81	19.75	19.79	20.7
Channel				515500	519000	522500	20.7
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	19.77	19.80	19.79	20.7
Channel				515000	519000	523000	20.7
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	19.76	19.76	19.77	20.7



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Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
40	19.71	19.84	19.74	21.4
40	19.69	19.79	19.72	
40	19.78	19.80	19.80	
40	19.76	19.82	19.75	21.4
40	19.62	19.60	19.65	21.4
40	19.84	19.78	19.70	21.4
40	19.66	19.66	19.62	
40	19.81	19.84	19.77	21.4
40	19.76	19.77	19.71	
40	19.69	19.82	19.72	
40	19.74	19.82	19.80	21.4
40	19.69	19.75	19.74	21.4
40	19.78	19.76	19.70	21.4
40	19.71	19.81	19.81	
40	19.81	19.81	19.82	21.4
40	19.80	19.79	19.80	21.4
40	19.43	19.41	19.46	20.5
30	19.83	19.79	19.81	21.4
25	19.75	19.80	19.82	21.4
20	19.81	19.75	19.79	21.4
15	19.77	19.80	19.79	21.4
10	19.76	19.76	19.77	21.4



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	19.71	19.84	19.74	20.7
40	PI/2 BPSK	1	53	19.69	19.79	19.72	
40	PI/2 BPSK	1	104	19.78	19.80	19.80	
40	PI/2 BPSK	50	0	19.76	19.82	19.75	20.7
40	PI/2 BPSK	50	28	19.62	19.60	19.65	20.7
40	PI/2 BPSK	50	56	19.84	19.78	19.70	20.7
40	PI/2 BPSK	100	0	19.66	19.66	19.62	
40	QPSK	1	1	19.81	19.84	19.77	20.7
40	QPSK	1	53	19.76	19.77	19.71	
40	QPSK	1	104	19.69	19.82	19.72	
40	QPSK	50	0	19.74	19.82	19.80	20.7
40	QPSK	50	28	19.69	19.75	19.74	20.7
40	QPSK	50	56	19.78	19.76	19.70	20.7
40	QPSK	100	0	19.71	19.81	19.81	
40	16QAM	1	1	19.81	19.81	19.82	20.7
40	64QAM	1	1	19.80	19.79	19.80	20.7
40	256QAM	1	1	19.43	19.41	19.46	20.5
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	19.83	19.79	19.81	20.7
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	19.75	19.80	19.82	20.7
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	19.81	19.75	19.79	20.7
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	19.77	19.80	19.79	20.7
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	19.76	19.76	19.77	20.7



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	16.88	17.00	16.93	
40	PI/2 BPSK	1	53	16.92	16.85	16.86	18.50
40	PI/2 BPSK	1	104	16.82	16.90	16.79	
40	PI/2 BPSK	50	0	16.70	16.70	16.69	18.50
40	PI/2 BPSK	50	28	16.76	16.78	16.70	18.50
40	PI/2 BPSK	50	56	16.59	16.71	16.66	18.50
40	PI/2 BPSK	100	0	16.74	16.75	16.81	
40	QPSK	1	1	16.81	16.86	16.83	18.50
40	QPSK	1	53	16.80	16.87	16.82	
40	QPSK	1	104	16.78	16.83	16.78	
40	QPSK	50	0	16.61	16.72	16.60	18.50
40	QPSK	50	28	16.74	16.73	16.67	18.50
40	QPSK	50	56	16.56	16.58	16.58	18.50
40	QPSK	100	0	16.66	16.67	16.70	
40	16QAM	1	1	16.79	16.85	16.85	18.50
40	64QAM	1	1	16.82	16.86	16.85	18.50
40	256QAM	1	1	16.77	16.87	16.79	18.50
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	16.91	16.96	16.94	18.50
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	16.89	16.88	16.95	18.50
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	16.93	16.94	16.95	18.50
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	16.86	16.87	16.86	18.50
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	16.93	16.90	16.87	18.50



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	17.80
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	16.88	17.00	16.93	
40	PI/2 BPSK	1	53	16.92	16.85	16.86	17.80
40	PI/2 BPSK	1	104	16.82	16.90	16.79	
40	PI/2 BPSK	50	0	16.70	16.70	16.69	17.80
40	PI/2 BPSK	50	28	16.76	16.78	16.70	17.80
40	PI/2 BPSK	50	56	16.59	16.71	16.66	17.80
40	PI/2 BPSK	100	0	16.74	16.75	16.81	
40	QPSK	1	1	16.81	16.86	16.83	17.80
40	QPSK	1	53	16.80	16.87	16.82	
40	QPSK	1	104	16.78	16.83	16.78	
40	QPSK	50	0	16.61	16.72	16.60	17.80
40	QPSK	50	28	16.74	16.73	16.67	17.80
40	QPSK	50	56	16.56	16.58	16.58	17.80
40	QPSK	100	0	16.66	16.67	16.70	
40	16QAM	1	1	16.79	16.85	16.85	17.80
40	64QAM	1	1	16.82	16.86	16.85	17.80
40	256QAM	1	1	16.77	16.87	16.79	17.80
Channel				517000	519000	521000	17.80
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	16.91	16.96	16.94	17.80
Channel				516500	519000	521500	17.80
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	16.89	16.88	16.95	17.80
Channel				516000	519000	522000	17.80
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	16.93	16.94	16.95	17.80
Channel				515500	519000	522500	17.80
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	16.86	16.87	16.86	17.80
Channel				515000	519000	523000	17.80
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	16.93	16.90	16.87	17.80



<FR1 n38_Ant 5_Index 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	Tune-up limit (dBm)
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	20.85	20.98	20.99	21.80
40	PI/2 BPSK	1	53	20.98	20.92	20.96	
40	PI/2 BPSK	1	104	20.90	20.95	20.93	
40	PI/2 BPSK	50	0	20.74	20.67	20.58	21.80
40	PI/2 BPSK	50	28	20.62	20.77	20.69	21.80
40	PI/2 BPSK	50	56	20.55	20.64	20.72	21.80
40	PI/2 BPSK	100	0	20.70	20.71	20.74	
40	QPSK	1	1	20.96	21.02	21.00	21.80
40	QPSK	1	53	20.83	20.92	20.87	
40	QPSK	1	104	20.76	20.92	20.75	
40	QPSK	50	0	20.50	20.66	20.59	21.80
40	QPSK	50	28	20.70	20.76	20.61	21.80
40	QPSK	50	56	20.62	20.67	20.61	21.80
40	QPSK	100	0	20.52	20.62	20.64	
40	16QAM	1	1	20.81	20.83	20.82	21.80
40	64QAM	1	1	20.69	20.80	20.73	21.80
40	256QAM	1	1	19.84	19.83	19.89	20.50
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	20.84	20.84	20.86	21.80
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	20.84	20.93	20.93	21.80
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	20.89	20.92	20.85	21.80
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	20.85	20.87	20.87	21.80
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	20.92	20.94	20.93	21.80



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	Tune-up limit (dBm)
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	20.85	20.98	20.99	22.50
40	PI/2 BPSK	1	53	20.98	20.92	20.96	
40	PI/2 BPSK	1	104	20.90	20.95	20.93	
40	PI/2 BPSK	50	0	20.74	20.67	20.58	22.50
40	PI/2 BPSK	50	28	20.62	20.77	20.69	22.50
40	PI/2 BPSK	50	56	20.55	20.64	20.72	22.50
40	PI/2 BPSK	100	0	20.70	20.71	20.74	
40	QPSK	1	1	20.96	21.02	21.00	22.50
40	QPSK	1	53	20.83	20.92	20.87	
40	QPSK	1	104	20.76	20.92	20.75	
40	QPSK	50	0	20.50	20.66	20.59	22.50
40	QPSK	50	28	20.70	20.76	20.61	22.50
40	QPSK	50	56	20.62	20.67	20.61	22.50
40	QPSK	100	0	20.52	20.62	20.64	
40	16QAM	1	1	20.81	20.83	20.82	22.50
40	64QAM	1	1	20.69	20.80	20.73	22.50
40	256QAM	1	1	19.84	19.83	19.89	20.50
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	20.84	20.84	20.86	22.50
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	20.84	20.93	20.93	22.50
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	20.89	20.92	20.85	22.50
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	20.85	20.87	20.87	22.50
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	20.92	20.94	20.93	22.50



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	20.85	20.98	20.99	21.80
40	PI/2 BPSK	1	53	20.98	20.92	20.96	
40	PI/2 BPSK	1	104	20.90	20.95	20.93	
40	PI/2 BPSK	50	0	20.74	20.67	20.58	21.80
40	PI/2 BPSK	50	28	20.62	20.77	20.69	21.80
40	PI/2 BPSK	50	56	20.55	20.64	20.72	21.80
40	PI/2 BPSK	100	0	20.70	20.71	20.74	
40	QPSK	1	1	20.96	21.02	21.00	21.80
40	QPSK	1	53	20.83	20.92	20.87	
40	QPSK	1	104	20.76	20.92	20.75	
40	QPSK	50	0	20.50	20.66	20.59	21.80
40	QPSK	50	28	20.70	20.76	20.61	21.80
40	QPSK	50	56	20.62	20.67	20.61	21.80
40	QPSK	100	0	20.52	20.62	20.64	
40	16QAM	1	1	20.81	20.83	20.82	21.80
40	64QAM	1	1	20.69	20.80	20.73	21.80
40	256QAM	1	1	19.84	19.83	19.89	20.50
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	20.84	20.84	20.86	21.80
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	20.84	20.93	20.93	21.80
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	20.89	20.92	20.85	21.80
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	20.85	20.87	20.87	21.80
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	20.92	20.94	20.93	21.80



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.60	23.61	23.38	24.5
100	PI/2 BPSK	1	137	23.05	23.11	23.11	
100	PI/2 BPSK	1	271	23.00	23.09	23.05	
100	PI/2 BPSK	135	0	22.68	22.75	22.69	24.0
100	PI/2 BPSK	135	69	23.17	23.20	23.00	24.5
100	PI/2 BPSK	135	138	22.54	22.59	22.50	24.0
100	PI/2 BPSK	270	0	22.54	22.64	22.60	
100	QPSK	1	1	23.46	23.51	23.24	24.5
100	QPSK	1	137	23.17	23.05	23.04	
100	QPSK	1	271	23.07	23.15	23.15	
100	QPSK	135	0	22.76	22.80	22.76	23.5
100	QPSK	135	69	23.05	23.09	23.03	24.5
100	QPSK	135	138	22.84	22.82	22.77	23.5
100	QPSK	270	0	22.12	22.17	22.07	
100	16QAM	1	1	22.53	22.59	22.32	23.5
100	64QAM	1	1	20.90	20.97	20.67	22.0
100	256QAM	1	1	19.13	19.15	18.94	20.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	23.51	23.55	23.34	24.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	23.57	23.59	23.29	24.5
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	23.56	23.51	23.35	24.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	23.60	23.55	23.33	24.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	23.60	23.51	23.37	24.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	23.57	23.51	23.34	24.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	23.54	23.60	23.36	24.5
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	23.50	23.55	23.46	24.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	23.53	23.52	23.38	24.5
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	23.56	23.60	23.35	24.5
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	23.55	23.51	23.32	24.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.60	23.61	23.38	24.5
100	PI/2 BPSK	1	137	23.05	23.11	23.11	
100	PI/2 BPSK	1	271	23.00	23.09	23.05	
100	PI/2 BPSK	135	0	22.68	22.75	22.69	24.0
100	PI/2 BPSK	135	69	23.17	23.20	23.00	24.5
100	PI/2 BPSK	135	138	22.54	22.59	22.50	24.0
100	PI/2 BPSK	270	0	22.54	22.64	22.60	
100	QPSK	1	1	23.46	23.51	23.24	24.5
100	QPSK	1	137	23.17	23.05	23.04	
100	QPSK	1	271	23.07	23.15	23.15	
100	QPSK	135	0	22.76	22.80	22.76	23.5
100	QPSK	135	69	23.05	23.09	23.03	24.5
100	QPSK	135	138	22.84	22.82	22.77	23.5
100	QPSK	270	0	22.12	22.17	22.07	
100	16QAM	1	1	22.53	22.59	22.32	23.5
100	64QAM	1	1	20.90	20.97	20.67	22.0
100	256QAM	1	1	19.13	19.15	18.94	20.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	23.51	23.55	23.34	24.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	23.57	23.59	23.29	24.5
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	23.56	23.51	23.35	24.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	23.60	23.55	23.33	24.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	23.60	23.51	23.37	24.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	23.57	23.51	23.34	24.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	23.54	23.60	23.36	24.5
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	23.50	23.55	23.46	24.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	23.53	23.52	23.38	24.5
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	23.56	23.60	23.35	24.5
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	23.55	23.51	23.32	24.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	16.30	16.33	16.29	18.05
100	PI/2 BPSK	1	137	16.30	16.30	16.27	
100	PI/2 BPSK	1	271	16.29	16.29	16.32	
100	PI/2 BPSK	135	0	16.25	16.25	16.25	18.05
100	PI/2 BPSK	135	69	16.25	16.27	16.25	18.05
100	PI/2 BPSK	135	138	16.25	16.25	16.26	18.05
100	PI/2 BPSK	270	0	16.26	16.30	16.27	
100	QPSK	1	1	16.37	16.38	16.28	18.05
100	QPSK	1	137	16.30	16.35	16.27	
100	QPSK	1	271	16.40	16.44	16.44	
100	QPSK	135	0	16.26	16.28	16.25	18.05
100	QPSK	135	69	16.20	16.23	16.21	18.05
100	QPSK	135	138	16.28	16.25	16.25	18.05
100	QPSK	270	0	16.29	16.28	16.29	
100	16QAM	1	1	16.40	16.44	16.43	18.05
100	64QAM	1	1	16.40	16.45	16.43	18.05
100	256QAM	1	1	16.37	16.39	16.30	18.05
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	16.31	16.31	16.28	18.05
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	16.33	16.24	16.31	18.05
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	16.28	16.33	16.23	18.05
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	16.29	16.26	16.25	18.05
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	16.32	16.30	16.31	18.05
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	16.33	16.31	16.28	18.05
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	16.26	16.24	16.31	18.05
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	16.31	16.32	16.25	18.05
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	16.32	16.27	16.33	18.05
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	16.29	16.29	16.23	18.05
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	16.28	16.30	16.30	18.05



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	18.24	18.29	18.26	19.55
100	PI/2 BPSK	1	137	18.12	18.19	18.19	
100	PI/2 BPSK	1	271	18.18	18.24	18.16	
100	PI/2 BPSK	135	0	17.84	17.91	17.86	19.55
100	PI/2 BPSK	135	69	17.93	17.97	17.87	19.55
100	PI/2 BPSK	135	138	17.88	17.89	17.82	19.55
100	PI/2 BPSK	270	0	18.00	18.02	18.00	
100	QPSK	1	1	18.16	18.19	18.16	19.55
100	QPSK	1	137	18.14	18.14	18.08	
100	QPSK	1	271	18.06	18.16	18.10	
100	QPSK	135	0	17.80	17.86	17.80	19.55
100	QPSK	135	69	17.92	17.94	17.87	19.55
100	QPSK	135	138	17.77	17.84	17.90	19.55
100	QPSK	270	0	17.89	17.98	17.97	
100	16QAM	1	1	18.18	18.26	18.20	19.55
100	64QAM	1	1	18.10	18.12	18.09	19.55
100	256QAM	1	1	18.07	18.14	18.06	19.55
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	18.03	18.14	18.18	19.55
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	18.12	18.19	18.12	19.55
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	18.09	18.13	18.16	19.55
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	18.08	18.17	18.15	19.55
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	18.04	18.19	18.11	19.55
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	18.08	18.11	18.12	19.55
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	18.09	18.19	18.18	19.55
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	18.09	18.14	18.12	19.55
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	18.11	18.12	18.17	19.55
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	18.03	18.18	18.19	19.55
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	18.07	18.12	18.19	19.55



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	18.24	18.29	18.26	18.85
100	PI/2 BPSK	1	137	18.12	18.19	18.19	
100	PI/2 BPSK	1	271	18.18	18.24	18.16	
100	PI/2 BPSK	135	0	17.84	17.91	17.86	18.85
100	PI/2 BPSK	135	69	17.93	17.97	17.87	18.85
100	PI/2 BPSK	135	138	17.88	17.89	17.82	18.85
100	PI/2 BPSK	270	0	18.00	18.02	18.00	
100	QPSK	1	1	18.16	18.19	18.16	18.85
100	QPSK	1	137	18.14	18.14	18.08	
100	QPSK	1	271	18.06	18.16	18.10	
100	QPSK	135	0	17.80	17.86	17.80	18.85
100	QPSK	135	69	17.92	17.94	17.87	18.85
100	QPSK	135	138	17.77	17.84	17.90	18.85
100	QPSK	270	0	17.89	17.98	17.97	
100	16QAM	1	1	18.18	18.26	18.20	18.85
100	64QAM	1	1	18.10	18.12	18.09	18.85
100	256QAM	1	1	18.07	18.14	18.06	18.85
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	18.03	18.14	18.18	18.85
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	18.12	18.19	18.12	18.85
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	18.09	18.13	18.16	18.85
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	18.08	18.17	18.15	18.85
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	18.04	18.19	18.11	18.85
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	18.08	18.11	18.12	18.85
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	18.09	18.19	18.18	18.85
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	18.09	18.14	18.12	18.85
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	18.11	18.12	18.17	18.85
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	18.03	18.18	18.19	18.85
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	18.07	18.12	18.19	18.85



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	17.14	17.22	17.19	18.2
100	PI/2 BPSK	1	137	17.18	17.21	17.18	
100	PI/2 BPSK	1	271	17.10	17.12	17.07	
100	PI/2 BPSK	135	0	17.17	17.18	17.13	18.2
100	PI/2 BPSK	135	69	17.11	17.20	16.93	18.2
100	PI/2 BPSK	135	138	17.10	17.14	17.13	18.2
100	PI/2 BPSK	270	0	17.01	17.05	17.04	
100	QPSK	1	1	17.10	17.19	17.09	18.2
100	QPSK	1	137	17.15	17.15	17.12	
100	QPSK	1	271	17.02	17.02	16.99	
100	QPSK	135	0	17.04	17.12	17.09	18.2
100	QPSK	135	69	17.03	16.92	17.01	18.2
100	QPSK	135	138	16.98	17.07	16.97	18.2
100	QPSK	270	0	16.94	17.03	16.98	
100	16QAM	1	1	17.04	17.12	17.08	18.2
100	64QAM	1	1	17.11	17.15	17.08	18.2
100	256QAM	1	1	16.96	17.05	16.99	18.2
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	17.08	17.12	17.11	18.2
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	17.08	17.19	17.12	18.2
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	17.17	17.18	17.14	18.2
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	17.13	17.17	17.17	18.2
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	17.18	17.19	17.11	18.2
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	17.11	17.16	17.14	18.2
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	17.12	17.20	17.11	18.2
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	17.15	17.15	17.12	18.2
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	17.15	17.17	17.10	18.2
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	17.13	17.15	17.12	18.2
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	17.11	17.20	17.13	18.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	17.14	17.22	17.19	17.5
100	PI/2 BPSK	1	137	17.18	17.21	17.18	
100	PI/2 BPSK	1	271	17.10	17.12	17.07	
100	PI/2 BPSK	135	0	17.17	17.18	17.13	17.5
100	PI/2 BPSK	135	69	17.11	17.20	16.93	17.5
100	PI/2 BPSK	135	138	17.10	17.14	17.13	17.5
100	PI/2 BPSK	270	0	17.01	17.05	17.04	
100	QPSK	1	1	17.10	17.19	17.09	17.5
100	QPSK	1	137	17.15	17.15	17.12	
100	QPSK	1	271	17.02	17.02	16.99	
100	QPSK	135	0	17.04	17.12	17.09	17.5
100	QPSK	135	69	17.03	16.92	17.01	17.5
100	QPSK	135	138	16.98	17.07	16.97	17.5
100	QPSK	270	0	16.94	17.03	16.98	
100	16QAM	1	1	17.04	17.12	17.08	17.5
100	64QAM	1	1	17.11	17.15	17.08	17.5
100	256QAM	1	1	16.96	17.05	16.99	17.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	17.08	17.12	17.11	17.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	17.08	17.19	17.12	17.5
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	17.17	17.18	17.14	17.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	17.13	17.17	17.17	17.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	17.18	17.19	17.11	17.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	17.11	17.16	17.14	17.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	17.12	17.20	17.11	17.5
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	17.15	17.15	17.12	17.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	17.15	17.17	17.10	17.5
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	17.13	17.15	17.12	17.5
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	17.11	17.20	17.13	17.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.24	22.29	22.21	22.6
100	PI/2 BPSK	1	137	21.94	22.01	21.92	
100	PI/2 BPSK	1	271	21.99	22.09	22.00	
100	PI/2 BPSK	135	0	21.96	22.05	21.95	22.6
100	PI/2 BPSK	135	69	22.03	22.05	22.02	22.6
100	PI/2 BPSK	135	138	21.98	22.04	22.05	22.6
100	PI/2 BPSK	270	0	22.03	22.09	22.00	
100	QPSK	1	1	22.24	22.24	22.14	22.6
100	QPSK	1	137	21.99	21.99	21.96	
100	QPSK	1	271	21.95	22.02	21.99	
100	QPSK	135	0	21.93	21.99	21.95	22.6
100	QPSK	135	69	21.97	21.98	21.88	22.6
100	QPSK	135	138	21.90	21.98	21.89	22.6
100	QPSK	270	0	22.00	22.01	21.92	
100	16QAM	1	1	22.03	22.04	21.99	22.6
100	64QAM	1	1	21.02	21.11	21.01	22.5
100	256QAM	1	1	19.37	19.41	19.37	20.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.99	21.99	22.04	22.6
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	22.00	21.98	21.99	22.6
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	22.00	22.04	21.98	22.6
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	22.06	22.05	21.98	22.6
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	22.08	22.04	22.01	22.6
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	22.03	22.02	22.01	22.6
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	22.01	21.99	21.98	22.6
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	22.08	22.07	22.08	22.6
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.99	21.99	21.98	22.6
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	22.03	22.05	21.99	22.6
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.99	22.02	21.98	22.6



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.24	22.29	22.21	23.3
100	PI/2 BPSK	1	137	21.94	22.01	21.92	
100	PI/2 BPSK	1	271	21.99	22.09	22.00	
100	PI/2 BPSK	135	0	21.96	22.05	21.95	23.3
100	PI/2 BPSK	135	69	22.03	22.05	22.02	23.3
100	PI/2 BPSK	135	138	21.98	22.04	22.05	23.3
100	PI/2 BPSK	270	0	22.03	22.09	22.00	
100	QPSK	1	1	22.24	22.24	22.14	23.3
100	QPSK	1	137	21.99	21.99	21.96	
100	QPSK	1	271	21.95	22.02	21.99	
100	QPSK	135	0	21.93	21.99	21.95	23.3
100	QPSK	135	69	21.97	21.98	21.88	23.3
100	QPSK	135	138	21.90	21.98	21.89	23.3
100	QPSK	270	0	22.00	22.01	21.92	
100	16QAM	1	1	22.03	22.04	21.99	23.3
100	64QAM	1	1	21.02	21.11	21.01	22.5
100	256QAM	1	1	19.37	19.41	19.37	20.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.99	21.99	22.04	23.3
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	22.00	21.98	21.99	23.3
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	22.00	22.04	21.98	23.3
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	22.06	22.05	21.98	23.3
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	22.08	22.04	22.01	23.3
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	22.03	22.02	22.01	23.3
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	22.01	21.99	21.98	23.3
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	22.08	22.07	22.08	23.3
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.99	21.99	21.98	23.3
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	22.03	22.05	21.99	23.3
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.99	22.02	21.98	23.3



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.24	22.29	22.21	22.6
100	PI/2 BPSK	1	137	21.94	22.01	21.92	
100	PI/2 BPSK	1	271	21.99	22.09	22.00	
100	PI/2 BPSK	135	0	21.96	22.05	21.95	22.6
100	PI/2 BPSK	135	69	22.03	22.05	22.02	22.6
100	PI/2 BPSK	135	138	21.98	22.04	22.05	22.6
100	PI/2 BPSK	270	0	22.03	22.09	22.00	
100	QPSK	1	1	22.24	22.24	22.14	22.6
100	QPSK	1	137	21.99	21.99	21.96	
100	QPSK	1	271	21.95	22.02	21.99	
100	QPSK	135	0	21.93	21.99	21.95	22.6
100	QPSK	135	69	21.97	21.98	21.88	22.6
100	QPSK	135	138	21.90	21.98	21.89	22.6
100	QPSK	270	0	22.00	22.01	21.92	
100	16QAM	1	1	22.03	22.04	21.99	22.6
100	64QAM	1	1	21.02	21.11	21.01	22.5
100	256QAM	1	1	19.37	19.41	19.37	20.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.99	21.99	22.04	22.6
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	22.00	21.98	21.99	22.6
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	22.00	22.04	21.98	22.6
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	22.06	22.05	21.98	22.6
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	22.08	22.04	22.01	22.6
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	22.03	22.02	22.01	22.6
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	22.01	21.99	21.98	22.6
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	22.08	22.07	22.08	22.6
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.99	21.99	21.98	22.6
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	22.03	22.05	21.99	22.6
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.99	22.02	21.98	22.6



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	21.84	21.90	21.86	23.3
100	PI/2 BPSK	1	137	21.63	21.69	21.68	
100	PI/2 BPSK	1	271	21.78	21.87	21.85	
100	PI/2 BPSK	135	0	21.63	21.69	21.67	23.3
100	PI/2 BPSK	135	69	21.69	21.70	21.68	23.3
100	PI/2 BPSK	135	138	21.68	21.69	21.59	23.3
100	PI/2 BPSK	270	0	21.72	21.73	21.63	
100	QPSK	1	1	21.72	21.80	21.74	23.3
100	QPSK	1	137	21.61	21.68	21.58	
100	QPSK	1	271	21.67	21.77	21.76	
100	QPSK	135	0	21.62	21.64	21.64	23.3
100	QPSK	135	69	21.61	21.70	21.66	23.3
100	QPSK	135	138	21.59	21.69	21.59	23.3
100	QPSK	270	0	21.63	21.64	21.64	
100	16QAM	1	1	21.83	21.88	21.80	23.3
100	64QAM	1	1	21.65	21.75	21.75	22.5
100	256QAM	1	1	19.89	19.91	19.87	20.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.77	21.85	21.83	23.3
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	21.75	21.88	21.83	23.3
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	21.80	21.86	21.77	23.3
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	21.82	21.89	21.81	23.3
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	21.77	21.88	21.84	23.3
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.77	21.85	21.84	23.3
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	21.84	21.81	21.77	23.3
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	21.74	21.83	21.85	23.3
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.77	21.82	21.83	23.3
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	21.74	21.84	21.80	23.3
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.80	21.88	21.81	23.3



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	21.84	21.90	21.86	22.6
100	PI/2 BPSK	1	137	21.63	21.69	21.68	
100	PI/2 BPSK	1	271	21.78	21.87	21.85	
100	PI/2 BPSK	135	0	21.63	21.69	21.67	22.6
100	PI/2 BPSK	135	69	21.69	21.70	21.68	22.6
100	PI/2 BPSK	135	138	21.68	21.69	21.59	22.6
100	PI/2 BPSK	270	0	21.72	21.73	21.63	
100	QPSK	1	1	21.72	21.80	21.74	22.6
100	QPSK	1	137	21.61	21.68	21.58	
100	QPSK	1	271	21.67	21.77	21.76	
100	QPSK	135	0	21.62	21.64	21.64	22.6
100	QPSK	135	69	21.61	21.70	21.66	22.6
100	QPSK	135	138	21.59	21.69	21.59	22.6
100	QPSK	270	0	21.63	21.64	21.64	
100	16QAM	1	1	21.83	21.88	21.80	22.6
100	64QAM	1	1	21.65	21.75	21.75	22.5
100	256QAM	1	1	19.89	19.91	19.87	20.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.77	21.85	21.83	22.6
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	21.75	21.88	21.83	22.6
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	21.80	21.86	21.77	22.6
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	21.82	21.89	21.81	22.6
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	21.77	21.88	21.84	22.6
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.77	21.85	21.84	22.6
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	21.84	21.81	21.77	22.6
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	21.74	21.83	21.85	22.6
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.77	21.82	21.83	22.6
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	21.74	21.84	21.80	22.6
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.80	21.88	21.81	22.6



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	20.01	20.10	20.00	20.7
100	PI/2 BPSK	1	137	19.90	20.00	19.92	
100	PI/2 BPSK	1	271	20.00	20.03	20.00	
100	PI/2 BPSK	135	0	19.79	19.81	19.80	20.7
100	PI/2 BPSK	135	69	19.77	19.84	19.78	20.7
100	PI/2 BPSK	135	138	19.82	19.82	19.76	20.7
100	PI/2 BPSK	270	0	19.80	19.90	19.83	
100	QPSK	1	1	20.02	20.06	19.98	20.7
100	QPSK	1	137	19.98	20.02	20.01	
100	QPSK	1	271	19.93	20.02	19.97	
100	QPSK	135	0	20.00	20.07	20.06	20.7
100	QPSK	135	69	19.94	20.03	19.96	20.7
100	QPSK	135	138	20.02	20.02	19.92	20.7
100	QPSK	270	0	20.00	20.04	20.02	
100	16QAM	1	1	20.06	20.06	20.06	20.7
100	64QAM	1	1	20.04	20.09	20.08	20.7
100	256QAM	1	1	19.48	19.51	19.47	20.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	20.05	20.06	19.96	20.7
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	20.04	19.98	19.93	20.7
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	20.06	19.98	19.87	20.7
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	19.99	20.04	19.88	20.7
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	20.02	20.02	19.90	20.7
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	20.00	20.00	19.91	20.7
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	20.01	20.00	19.89	20.7
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	20.06	19.97	19.87	20.7
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	20.01	19.99	19.93	20.7
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	20.03	20.02	19.96	20.7
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	20.06	20.05	19.91	20.7



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	21.4
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	20.01	20.10	20.00	
100	PI/2 BPSK	1	137	19.90	20.00	19.92	21.4
100	PI/2 BPSK	1	271	20.00	20.03	20.00	
100	PI/2 BPSK	135	0	19.79	19.81	19.80	21.4
100	PI/2 BPSK	135	69	19.77	19.84	19.78	21.4
100	PI/2 BPSK	135	138	19.82	19.82	19.76	21.4
100	PI/2 BPSK	270	0	19.80	19.90	19.83	
100	QPSK	1	1	20.02	20.06	19.98	21.4
100	QPSK	1	137	19.98	20.02	20.01	
100	QPSK	1	271	19.93	20.02	19.97	
100	QPSK	135	0	20.00	20.07	20.06	21.4
100	QPSK	135	69	19.94	20.03	19.96	21.4
100	QPSK	135	138	20.02	20.02	19.92	21.4
100	QPSK	270	0	20.00	20.04	20.02	
100	16QAM	1	1	20.06	20.06	20.06	21.4
100	64QAM	1	1	20.04	20.09	20.08	21.4
100	256QAM	1	1	19.48	19.51	19.47	20.5
Channel				508200	518598	528996	21.4
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	20.05	20.06	19.96	21.4
Channel				507204	518598	529998	21.4
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	20.04	19.98	19.93	21.4
Channel				506202	518598	531000	21.4
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	20.06	19.98	19.87	21.4
Channel				505200	518598	531996	21.4
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	19.99	20.04	19.88	21.4
Channel				504204	518598	532998	21.4
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	20.02	20.02	19.90	21.4
Channel				503202	518598	534000	21.4
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	20.00	20.00	19.91	21.4
Channel				502200	518598	534996	21.4
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	20.01	20.00	19.89	21.4
Channel				501702	518598	535500	21.4
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	20.06	19.97	19.87	21.4
Channel				501204	518598	535998	21.4
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	20.01	19.99	19.93	21.4
Channel				500700	518598	536496	21.4
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	20.03	20.02	19.96	21.4
Channel				500202	518598	537000	21.4
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	20.06	20.05	19.91	21.4



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	20.01	20.10	20.00	20.7
100	PI/2 BPSK	1	137	19.90	20.00	19.92	
100	PI/2 BPSK	1	271	20.00	20.03	20.00	
100	PI/2 BPSK	135	0	19.79	19.81	19.80	20.7
100	PI/2 BPSK	135	69	19.77	19.84	19.78	20.7
100	PI/2 BPSK	135	138	19.82	19.82	19.76	20.7
100	PI/2 BPSK	270	0	19.80	19.90	19.83	
100	QPSK	1	1	20.02	20.06	19.98	20.7
100	QPSK	1	137	19.98	20.02	20.01	
100	QPSK	1	271	19.93	20.02	19.97	
100	QPSK	135	0	20.00	20.07	20.06	20.7
100	QPSK	135	69	19.94	20.03	19.96	20.7
100	QPSK	135	138	20.02	20.02	19.92	20.7
100	QPSK	270	0	20.00	20.04	20.02	
100	16QAM	1	1	20.06	20.06	20.06	20.7
100	64QAM	1	1	20.04	20.09	20.08	20.7
100	256QAM	1	1	19.48	19.51	19.47	20.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	20.05	20.06	19.96	20.7
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	20.04	19.98	19.93	20.7
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	20.06	19.98	19.87	20.7
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	19.99	20.04	19.88	20.7
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	20.02	20.02	19.90	20.7
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	20.00	20.00	19.91	20.7
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	20.01	20.00	19.89	20.7
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	20.06	19.97	19.87	20.7
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	20.01	19.99	19.93	20.7
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	20.03	20.02	19.96	20.7
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	20.06	20.05	19.91	20.7



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	16.96	17.00	16.94	18.40
100	PI/2 BPSK	1	137	16.94	16.95	16.91	
100	PI/2 BPSK	1	271	16.88	16.91	16.83	
100	PI/2 BPSK	135	0	16.70	16.76	16.73	18.40
100	PI/2 BPSK	135	69	16.80	16.82	16.80	18.40
100	PI/2 BPSK	135	138	16.64	16.74	16.68	18.40
100	PI/2 BPSK	270	0	16.75	16.85	16.83	
100	QPSK	1	1	16.88	16.95	16.89	18.40
100	QPSK	1	137	16.86	16.95	16.86	
100	QPSK	1	271	16.88	16.89	16.84	18.40
100	QPSK	135	0	16.71	16.72	16.70	18.40
100	QPSK	135	69	16.77	16.81	16.73	18.40
100	QPSK	135	138	16.59	16.68	16.65	18.40
100	QPSK	270	0	16.67	16.75	16.75	18.40
100	16QAM	1	1	16.85	16.95	16.85	18.40
100	64QAM	1	1	16.84	16.91	16.86	18.40
100	256QAM	1	1	16.82	16.91	16.84	18.40
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	16.91	16.94	16.86	18.40
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	16.93	16.94	16.88	18.40
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	16.93	16.92	16.93	18.40
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	16.93	16.90	16.89	18.40
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	16.87	16.95	16.95	18.40
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	16.94	16.93	16.88	18.40
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	16.95	16.89	16.93	18.40
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	16.90	16.86	16.89	18.40
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	16.87	16.92	16.87	18.40
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	16.90	16.88	16.87	18.40
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	16.89	16.88	16.90	18.40



<FR1 n41_Ant 5_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	16.96	17.00	16.94	17.70
100	PI/2 BPSK	1	137	16.94	16.95	16.91	
100	PI/2 BPSK	1	271	16.88	16.91	16.83	
100	PI/2 BPSK	135	0	16.70	16.76	16.73	17.70
100	PI/2 BPSK	135	69	16.80	16.82	16.80	17.70
100	PI/2 BPSK	135	138	16.64	16.74	16.68	
100	PI/2 BPSK	270	0	16.75	16.85	16.83	
100	QPSK	1	1	16.88	16.95	16.89	
100	QPSK	1	137	16.86	16.95	16.86	17.70 17.70
100	QPSK	1	271	16.88	16.89	16.84	
100	QPSK	135	0	16.71	16.72	16.70	17.70
100	QPSK	135	69	16.77	16.81	16.73	
100	QPSK	135	138	16.59	16.68	16.65	
100	QPSK	270	0	16.67	16.75	16.75	
100	16QAM	1	1	16.85	16.95	16.85	
100	64QAM	1	1	16.84	16.91	16.86	17.70
100	256QAM	1	1	16.82	16.91	16.84	17.70
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	16.91	16.94	16.86	17.70
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	16.93	16.94	16.88	17.70
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	16.93	16.92	16.93	17.70
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	16.93	16.90	16.89	17.70
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	16.87	16.95	16.95	17.70
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	16.94	16.93	16.88	17.70
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	16.95	16.89	16.93	17.70
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	16.90	16.86	16.89	17.70
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	16.87	16.92	16.87	17.70
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	16.90	16.88	16.87	17.70
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	16.89	16.88	16.90	17.70



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	20.95	21.04	21.03	21.80
100	PI/2 BPSK	1	137	20.99	21.02	20.98	
100	PI/2 BPSK	1	271	20.95	20.95	20.95	
100	PI/2 BPSK	135	0	20.74	20.74	20.68	21.80
100	PI/2 BPSK	135	69	20.69	20.78	20.76	21.80
100	PI/2 BPSK	135	138	20.65	20.74	20.74	21.80
100	PI/2 BPSK	270	0	20.73	20.81	20.79	
100	QPSK	1	1	21.00	21.02	21.00	21.80
100	QPSK	1	137	20.89	20.99	20.96	
100	QPSK	1	271	20.85	20.93	20.84	
100	QPSK	135	0	20.59	20.68	20.63	21.80
100	QPSK	135	69	20.73	20.78	20.69	21.80
100	QPSK	135	138	20.70	20.74	20.71	21.80
100	QPSK	270	0	20.61	20.71	20.71	
100	16QAM	1	1	20.85	20.91	20.90	21.80
100	64QAM	1	1	20.75	20.85	20.81	21.80
100	256QAM	1	1	19.87	19.92	19.91	20.50
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	20.86	20.90	20.85	21.80
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	20.94	20.89	20.89	21.80
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	20.87	20.85	20.91	21.80
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	20.89	20.88	20.89	21.80
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	20.90	20.84	20.91	21.80
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	20.87	20.88	20.87	21.80
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	20.87	20.88	20.87	21.80
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	20.92	20.93	20.90	21.80
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	20.92	20.87	20.88	21.80
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	20.90	20.84	20.84	21.80
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	20.89	20.89	20.93	21.80



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	20.95	21.04	21.03	22.50
100	PI/2 BPSK	1	137	20.99	21.02	20.98	
100	PI/2 BPSK	1	271	20.95	20.95	20.95	
100	PI/2 BPSK	135	0	20.74	20.74	20.68	22.50
100	PI/2 BPSK	135	69	20.69	20.78	20.76	22.50
100	PI/2 BPSK	135	138	20.65	20.74	20.74	22.50
100	PI/2 BPSK	270	0	20.73	20.81	20.79	
100	QPSK	1	1	21.00	21.02	21.00	
100	QPSK	1	137	20.89	20.99	20.96	22.50
100	QPSK	1	271	20.85	20.93	20.84	
100	QPSK	135	0	20.59	20.68	20.63	
100	QPSK	135	69	20.73	20.78	20.69	22.50
100	QPSK	135	138	20.70	20.74	20.71	22.50
100	QPSK	270	0	20.61	20.71	20.71	
100	16QAM	1	1	20.85	20.91	20.90	
100	64QAM	1	1	20.75	20.85	20.81	22.50
100	256QAM	1	1	19.87	19.92	19.91	20.50
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	20.86	20.90	20.85	22.50
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	20.94	20.89	20.89	22.50
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	20.87	20.85	20.91	22.50
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	20.89	20.88	20.89	22.50
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	20.90	20.84	20.91	22.50
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	20.87	20.88	20.87	22.50
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	20.87	20.88	20.87	22.50
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	20.92	20.93	20.90	22.50
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	20.92	20.87	20.88	22.50
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	20.90	20.84	20.84	22.50
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	20.89	20.89	20.93	22.50



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	20.95	21.04	21.03	21.80
100	PI/2 BPSK	1	137	20.99	21.02	20.98	
100	PI/2 BPSK	1	271	20.95	20.95	20.95	
100	PI/2 BPSK	135	0	20.74	20.74	20.68	21.80
100	PI/2 BPSK	135	69	20.69	20.78	20.76	21.80
100	PI/2 BPSK	135	138	20.65	20.74	20.74	21.80
100	PI/2 BPSK	270	0	20.73	20.81	20.79	
100	QPSK	1	1	21.00	21.02	21.00	21.80
100	QPSK	1	137	20.89	20.99	20.96	
100	QPSK	1	271	20.85	20.93	20.84	
100	QPSK	135	0	20.59	20.68	20.63	21.80
100	QPSK	135	69	20.73	20.78	20.69	21.80
100	QPSK	135	138	20.70	20.74	20.71	21.80
100	QPSK	270	0	20.61	20.71	20.71	
100	16QAM	1	1	20.85	20.91	20.90	21.80
100	64QAM	1	1	20.75	20.85	20.81	21.80
100	256QAM	1	1	19.87	19.92	19.91	20.50
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	20.86	20.90	20.85	21.80
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	20.94	20.89	20.89	21.80
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	20.87	20.85	20.91	21.80
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	20.89	20.88	20.89	21.80
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	20.90	20.84	20.91	21.80
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	20.87	20.88	20.87	21.80
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	20.87	20.88	20.87	21.80
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	20.92	20.93	20.90	21.80
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	20.92	20.87	20.88	21.80
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	20.90	20.84	20.84	21.80
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	20.89	20.89	20.93	21.80



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	25.69	25.70	25.52	26.4
100	PI/2 BPSK	1	137	25.21	25.22	25.08	
100	PI/2 BPSK	1	271	25.23	25.25	25.13	
100	PI/2 BPSK	135	0	24.78	24.86	24.69	25.9
100	PI/2 BPSK	135	69	25.16	25.19	24.99	26.4
100	PI/2 BPSK	135	138	24.64	24.73	24.55	25.9
100	PI/2 BPSK	270	0	24.78	24.79	24.68	
100	QPSK	1	1	25.54	25.64	25.52	26.4
100	QPSK	1	137	25.12	25.17	24.97	
100	QPSK	1	271	25.23	25.25	25.09	
100	QPSK	135	0	24.72	24.69	24.66	25.4
100	QPSK	135	69	25.12	25.22	25.11	26.4
100	QPSK	135	138	24.68	24.71	24.71	25.4
100	QPSK	270	0	24.18	24.28	24.09	
100	16QAM	1	1	24.67	24.67	24.56	25.4
100	64QAM	1	1	23.05	23.07	22.92	23.9
100	256QAM	1	1	21.10	21.14	20.95	21.9
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	25.58	25.61	25.50	26.4
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	25.52	25.60	25.48	26.4
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	25.50	25.60	25.47	26.4
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	25.54	25.64	25.42	26.4
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	25.52	25.66	25.45	26.4
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	25.54	25.66	25.45	26.4
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	25.52	25.64	25.52	26.4
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	25.49	25.52	25.54	26.4
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	25.50	25.67	25.44	26.4
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	25.56	25.66	25.44	26.4
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	25.49	25.65	25.43	26.4



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	25.69	25.70	25.52	26.4
100	PI/2 BPSK	1	137	25.21	25.22	25.08	
100	PI/2 BPSK	1	271	25.23	25.25	25.13	
100	PI/2 BPSK	135	0	24.78	24.86	24.69	25.9
100	PI/2 BPSK	135	69	25.16	25.19	24.99	26.4
100	PI/2 BPSK	135	138	24.64	24.73	24.55	25.9
100	PI/2 BPSK	270	0	24.78	24.79	24.68	
100	QPSK	1	1	25.54	25.64	25.52	26.4
100	QPSK	1	137	25.12	25.17	24.97	
100	QPSK	1	271	25.23	25.25	25.09	
100	QPSK	135	0	24.72	24.69	24.66	25.4
100	QPSK	135	69	25.12	25.22	25.11	26.4
100	QPSK	135	138	24.68	24.71	24.71	25.4
100	QPSK	270	0	24.18	24.28	24.09	
100	16QAM	1	1	24.67	24.67	24.56	25.4
100	64QAM	1	1	23.05	23.07	22.92	23.9
100	256QAM	1	1	21.10	21.14	20.95	21.9
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	25.58	25.61	25.50	26.4
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	25.52	25.60	25.48	26.4
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	25.50	25.60	25.47	26.4
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	25.54	25.64	25.42	26.4
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	25.52	25.66	25.45	26.4
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	25.54	25.66	25.45	26.4
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	25.52	25.64	25.52	26.4
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	25.49	25.52	25.54	26.4
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	25.50	25.67	25.44	26.4
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	25.56	25.66	25.44	26.4
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	25.49	25.65	25.43	26.4



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	19.31	19.38	19.31	21.05
100	PI/2 BPSK	1	137	19.30	19.34	19.34	
100	PI/2 BPSK	1	271	19.27	19.29	19.25	
100	PI/2 BPSK	135	0	19.25	19.25	19.25	21.05
100	PI/2 BPSK	135	69	19.25	19.26	19.25	21.05
100	PI/2 BPSK	135	138	19.25	19.25	19.25	21.05
100	PI/2 BPSK	270	0	19.25	19.26	19.27	
100	QPSK	1	1	19.39	19.44	19.40	21.05
100	QPSK	1	137	19.42	19.45	19.38	
100	QPSK	1	271	19.32	19.40	19.31	
100	QPSK	135	0	19.27	19.25	19.29	21.05
100	QPSK	135	69	19.26	19.26	19.27	21.05
100	QPSK	135	138	19.27	19.27	19.27	21.05
100	QPSK	270	0	19.27	19.26	19.28	
100	16QAM	1	1	19.39	19.44	19.36	21.05
100	64QAM	1	1	19.43	19.44	19.39	21.05
100	256QAM	1	1	19.30	19.40	19.40	21.05
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	19.30	19.33	19.35	21.05
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	19.30	19.34	19.31	21.05
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	19.34	19.34	19.35	21.05
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	19.26	19.27	19.26	21.05
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	19.35	19.34	19.29	21.05
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	19.27	19.30	19.31	21.05
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	19.26	19.35	19.32	21.05
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	19.27	19.36	19.28	21.05
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	19.33	19.36	19.31	21.05
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	19.35	19.27	19.33	21.05
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	19.27	19.28	19.26	21.05



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	21.29	21.35	21.31	22.55
100	PI/2 BPSK	1	137	21.21	21.29	21.28	
100	PI/2 BPSK	1	271	21.27	21.27	21.20	
100	PI/2 BPSK	135	0	20.99	20.99	20.89	22.55
100	PI/2 BPSK	135	69	20.97	21.05	20.99	22.55
100	PI/2 BPSK	135	138	20.95	20.96	20.91	22.55
100	PI/2 BPSK	270	0	21.07	21.10	21.03	
100	QPSK	1	1	21.32	21.33	21.27	
100	QPSK	1	137	21.26	21.26	21.19	22.55
100	QPSK	1	271	21.14	21.24	21.14	
100	QPSK	135	0	20.81	20.89	20.81	
100	QPSK	135	69	21.02	21.04	20.97	22.55
100	QPSK	135	138	20.86	20.94	20.86	22.55
100	QPSK	270	0	20.99	21.02	20.95	
100	16QAM	1	1	21.22	21.28	21.22	
100	64QAM	1	1	21.12	21.19	21.11	22.55
100	256QAM	1	1	21.10	21.20	21.12	21.90
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.22	21.22	21.14	22.55
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	21.20	21.18	21.17	22.55
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	21.17	21.21	21.12	22.55
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	21.19	21.21	21.14	22.55
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	21.19	21.17	21.15	22.55
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.17	21.15	21.13	22.55
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	21.19	21.20	21.21	22.55
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	21.19	21.20	21.22	22.55
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.19	21.16	21.19	22.55
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	21.21	21.16	21.15	22.55
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.18	21.20	21.12	22.55



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	21.29	21.35	21.31	21.85
100	PI/2 BPSK	1	137	21.21	21.29	21.28	
100	PI/2 BPSK	1	271	21.27	21.27	21.20	
100	PI/2 BPSK	135	0	20.99	20.99	20.89	21.85
100	PI/2 BPSK	135	69	20.97	21.05	20.99	21.85
100	PI/2 BPSK	135	138	20.95	20.96	20.91	21.85
100	PI/2 BPSK	270	0	21.07	21.10	21.03	
100	QPSK	1	1	21.32	21.33	21.27	
100	QPSK	1	137	21.26	21.26	21.19	21.85
100	QPSK	1	271	21.14	21.24	21.14	
100	QPSK	135	0	20.81	20.89	20.81	
100	QPSK	135	69	21.02	21.04	20.97	21.85
100	QPSK	135	138	20.86	20.94	20.86	21.85
100	QPSK	270	0	20.99	21.02	20.95	
100	16QAM	1	1	21.22	21.28	21.22	
100	64QAM	1	1	21.12	21.19	21.11	21.85
100	256QAM	1	1	21.10	21.20	21.12	21.85
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.22	21.22	21.14	21.85
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	21.20	21.18	21.17	21.85
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	21.17	21.21	21.12	21.85
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	21.19	21.21	21.14	21.85
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	21.19	21.17	21.15	21.85
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.17	21.15	21.13	21.85
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	21.19	21.20	21.21	21.85
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	21.19	21.20	21.22	21.85
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.19	21.16	21.19	21.85
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	21.21	21.16	21.15	21.85
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.18	21.20	21.12	21.85



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	20.18	20.19	20.18	21.2
100	PI/2 BPSK	1	137	20.02	20.12	20.05	
100	PI/2 BPSK	1	271	20.10	20.12	20.04	
100	PI/2 BPSK	135	0	19.96	19.97	19.95	21.2
100	PI/2 BPSK	135	69	19.97	19.98	19.90	21.2
100	PI/2 BPSK	135	138	19.96	19.96	19.90	21.2
100	PI/2 BPSK	270	0	19.96	20.01	19.98	
100	QPSK	1	1	20.10	20.12	20.10	21.2
100	QPSK	1	137	20.02	20.07	19.97	
100	QPSK	1	271	20.04	20.07	20.01	
100	QPSK	135	0	19.94	20.03	19.98	21.2
100	QPSK	135	69	19.83	19.93	19.90	21.2
100	QPSK	135	138	20.06	20.13	20.05	21.2
100	QPSK	270	0	19.95	20.00	19.95	
100	16QAM	1	1	20.12	20.12	20.03	21.2
100	64QAM	1	1	20.07	20.09	20.04	21.2
100	256QAM	1	1	20.02	20.06	20.05	21.2
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	20.03	20.09	19.99	21.2
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	20.04	20.11	20.00	21.2
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	20.01	20.08	20.04	21.2
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	20.03	20.07	20.01	21.2
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	20.05	20.12	19.98	21.2
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	20.10	20.06	20.02	21.2
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	20.07	20.12	20.00	21.2
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	20.10	20.04	19.97	21.2
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	20.05	20.11	20.03	21.2
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	20.07	20.07	20.01	21.2
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	20.08	20.08	19.95	21.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	20.18	20.19	20.18	20.5
100	PI/2 BPSK	1	137	20.02	20.12	20.05	
100	PI/2 BPSK	1	271	20.10	20.12	20.04	
100	PI/2 BPSK	135	0	19.96	19.97	19.95	20.5
100	PI/2 BPSK	135	69	19.97	19.98	19.90	20.5
100	PI/2 BPSK	135	138	19.96	19.96	19.90	20.5
100	PI/2 BPSK	270	0	19.96	20.01	19.98	
100	QPSK	1	1	20.10	20.12	20.10	20.5
100	QPSK	1	137	20.02	20.07	19.97	
100	QPSK	1	271	20.04	20.07	20.01	
100	QPSK	135	0	19.94	20.03	19.98	20.5
100	QPSK	135	69	19.83	19.93	19.90	20.5
100	QPSK	135	138	20.06	20.13	20.05	20.5
100	QPSK	270	0	19.95	20.00	19.95	
100	16QAM	1	1	20.12	20.12	20.03	20.5
100	64QAM	1	1	20.07	20.09	20.04	20.5
100	256QAM	1	1	20.02	20.06	20.05	20.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	20.03	20.09	19.99	20.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	20.04	20.11	20.00	20.5
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	20.01	20.08	20.04	20.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	20.03	20.07	20.01	20.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	20.05	20.12	19.98	20.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	20.10	20.06	20.02	20.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	20.07	20.12	20.00	20.5
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	20.10	20.04	19.97	20.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	20.05	20.11	20.03	20.5
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	20.07	20.07	20.01	20.5
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	20.08	20.08	19.95	20.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	25.21	25.30	25.28	25.6
100	PI/2 BPSK	1	137	24.90	24.99	24.99	
100	PI/2 BPSK	1	271	24.96	25.05	24.96	
100	PI/2 BPSK	135	0	24.96	25.02	24.99	25.6
100	PI/2 BPSK	135	69	24.98	25.08	25.07	25.6
100	PI/2 BPSK	135	138	24.96	25.00	25.00	25.6
100	PI/2 BPSK	270	0	25.05	25.11	25.06	
100	QPSK	1	1	25.06	25.07	24.97	25.6
100	QPSK	1	137	25.00	25.01	24.97	
100	QPSK	1	271	25.00	25.03	24.93	
100	QPSK	135	0	25.13	25.18	25.08	25.6
100	QPSK	135	69	25.12	25.22	25.14	25.6
100	QPSK	135	138	24.96	24.99	24.98	25.6
100	QPSK	270	0	24.99	25.09	25.02	
100	16QAM	1	1	25.10	25.15	25.13	25.6
100	64QAM	1	1	23.76	23.79	23.72	24.4
100	256QAM	1	1	21.77	21.79	21.75	22.4
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	25.18	25.23	25.22	25.6
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	25.17	25.22	25.23	25.6
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	25.23	25.23	25.19	25.6
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	25.20	25.21	25.22	25.6
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	25.17	25.17	25.23	25.6
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	25.17	25.25	25.24	25.6
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	25.23	25.20	25.22	25.6
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	25.19	25.17	25.18	25.6
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	25.16	25.22	25.16	25.6
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	25.17	25.24	25.22	25.6
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	25.20	25.23	25.24	25.6



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	25.21	25.30	25.28	26.3
100	PI/2 BPSK	1	137	24.90	24.99	24.99	
100	PI/2 BPSK	1	271	24.96	25.05	24.96	
100	PI/2 BPSK	135	0	24.96	25.02	24.99	26.3
100	PI/2 BPSK	135	69	24.98	25.08	25.07	26.3
100	PI/2 BPSK	135	138	24.96	25.00	25.00	26.3
100	PI/2 BPSK	270	0	25.05	25.11	25.06	
100	QPSK	1	1	25.06	25.07	24.97	26.3
100	QPSK	1	137	25.00	25.01	24.97	
100	QPSK	1	271	25.00	25.03	24.93	
100	QPSK	135	0	25.13	25.18	25.08	25.9
100	QPSK	135	69	25.12	25.22	25.14	26.3
100	QPSK	135	138	24.96	24.99	24.98	25.9
100	QPSK	270	0	24.99	25.09	25.02	
100	16QAM	1	1	25.10	25.15	25.13	25.9
100	64QAM	1	1	23.76	23.79	23.72	24.4
100	256QAM	1	1	21.77	21.79	21.75	22.4
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	25.18	25.23	25.22	26.3
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	25.17	25.22	25.23	26.3
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	25.23	25.23	25.19	26.3
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	25.20	25.21	25.22	26.3
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	25.17	25.17	25.23	26.3
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	25.17	25.25	25.24	26.3
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	25.23	25.20	25.22	26.3
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	25.19	25.17	25.18	26.3
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	25.16	25.22	25.16	26.3
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	25.17	25.24	25.22	26.3
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	25.20	25.23	25.24	26.3



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	25.21	25.30	25.28	25.6
100	PI/2 BPSK	1	137	24.90	24.99	24.99	
100	PI/2 BPSK	1	271	24.96	25.05	24.96	
100	PI/2 BPSK	135	0	24.96	25.02	24.99	25.6
100	PI/2 BPSK	135	69	24.98	25.08	25.07	25.6
100	PI/2 BPSK	135	138	24.96	25.00	25.00	25.6
100	PI/2 BPSK	270	0	25.05	25.11	25.06	
100	QPSK	1	1	25.06	25.07	24.97	25.6
100	QPSK	1	137	25.00	25.01	24.97	
100	QPSK	1	271	25.00	25.03	24.93	
100	QPSK	135	0	25.13	25.18	25.08	25.6
100	QPSK	135	69	25.12	25.22	25.14	25.6
100	QPSK	135	138	24.96	24.99	24.98	25.6
100	QPSK	270	0	24.99	25.09	25.02	
100	16QAM	1	1	25.10	25.15	25.13	25.6
100	64QAM	1	1	23.76	23.79	23.72	24.4
100	256QAM	1	1	21.77	21.79	21.75	22.4
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	25.18	25.23	25.22	25.6
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	25.17	25.22	25.23	25.6
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	25.23	25.23	25.19	25.6
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	25.20	25.21	25.22	25.6
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	25.17	25.17	25.23	25.6
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	25.17	25.25	25.24	25.6
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	25.23	25.20	25.22	25.6
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	25.19	25.17	25.18	25.6
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	25.16	25.22	25.16	25.6
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	25.17	25.24	25.22	25.6
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	25.20	25.23	25.24	25.6



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.97	24.99	24.98	26.3
100	PI/2 BPSK	1	137	24.70	24.78	24.72	
100	PI/2 BPSK	1	271	24.96	24.97	24.93	
100	PI/2 BPSK	135	0	24.73	24.79	24.78	26.3
100	PI/2 BPSK	135	69	24.76	24.80	24.79	26.3
100	PI/2 BPSK	135	138	24.73	24.79	24.73	26.3
100	PI/2 BPSK	270	0	24.80	24.81	24.72	
100	QPSK	1	1	24.90	24.97	24.94	26.3
100	QPSK	1	137	24.64	24.69	24.69	
100	QPSK	1	271	24.79	24.89	24.79	
100	QPSK	135	0	24.67	24.76	24.68	25.9
100	QPSK	135	69	24.77	24.79	24.78	26.3
100	QPSK	135	138	24.76	24.76	24.75	25.9
100	QPSK	270	0	24.73	24.78	24.69	
100	16QAM	1	1	24.91	24.98	24.93	25.9
100	64QAM	1	1	23.58	23.67	23.60	24.4
100	256QAM	1	1	21.89	21.99	21.95	22.4
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.93	24.96	24.92	26.3
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.93	24.90	24.92	26.3
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	24.92	24.97	24.91	26.3
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.95	24.94	24.89	26.3
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.91	24.93	24.94	26.3
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.93	24.95	24.95	26.3
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.89	24.97	24.91	26.3
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	24.87	24.90	24.92	26.3
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.90	24.92	24.95	26.3
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	24.96	24.89	24.88	26.3
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	24.92	24.97	24.97	26.3



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.97	24.99	24.98	25.6
100	PI/2 BPSK	1	137	24.70	24.78	24.72	
100	PI/2 BPSK	1	271	24.96	24.97	24.93	
100	PI/2 BPSK	135	0	24.73	24.79	24.78	25.6
100	PI/2 BPSK	135	69	24.76	24.80	24.79	25.6
100	PI/2 BPSK	135	138	24.73	24.79	24.73	25.6
100	PI/2 BPSK	270	0	24.80	24.81	24.72	
100	QPSK	1	1	24.90	24.97	24.94	25.6
100	QPSK	1	137	24.64	24.69	24.69	
100	QPSK	1	271	24.79	24.89	24.79	
100	QPSK	135	0	24.67	24.76	24.68	25.6
100	QPSK	135	69	24.77	24.79	24.78	25.6
100	QPSK	135	138	24.76	24.76	24.75	25.6
100	QPSK	270	0	24.73	24.78	24.69	
100	16QAM	1	1	24.91	24.98	24.93	25.6
100	64QAM	1	1	23.58	23.67	23.60	24.4
100	256QAM	1	1	21.89	21.99	21.95	22.4
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.93	24.96	24.92	25.6
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.93	24.90	24.92	25.6
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	24.92	24.97	24.91	25.6
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.95	24.94	24.89	25.6
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.91	24.93	24.94	25.6
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.93	24.95	24.95	25.6
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.89	24.97	24.91	25.6
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	24.87	24.90	24.92	25.6
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.90	24.92	24.95	25.6
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	24.96	24.89	24.88	25.6
Channel				500202	518598	537000	Tune-up limit (dBm)



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.08	23.14	23.12	23.7
100	PI/2 BPSK	1	137	22.83	22.91	22.81	
100	PI/2 BPSK	1	271	23.08	23.13	23.11	
100	PI/2 BPSK	135	0	22.81	22.91	22.82	23.7
100	PI/2 BPSK	135	69	22.84	22.92	22.90	23.7
100	PI/2 BPSK	135	138	22.89	22.91	22.81	23.7
100	PI/2 BPSK	270	0	22.88	22.97	22.88	
100	QPSK	1	1	23.03	23.13	23.10	23.7
100	QPSK	1	137	22.83	22.83	22.78	
100	QPSK	1	271	23.04	23.10	23.00	
100	QPSK	135	0	22.80	22.83	22.76	23.7
100	QPSK	135	69	22.75	22.82	22.73	23.7
100	QPSK	135	138	22.87	22.91	22.87	23.7
100	QPSK	270	0	22.89	22.89	22.79	
100	16QAM	1	1	22.84	22.85	22.81	23.7
100	64QAM	1	1	23.00	23.09	23.00	23.7
100	256QAM	1	1	21.69	21.72	21.72	22.4
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	22.99	23.00	23.02	23.7
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	23.06	23.03	23.03	23.7
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	23.06	23.07	23.04	23.7
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	23.07	23.09	23.06	23.7
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	23.04	23.10	23.11	23.7
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	23.00	23.09	23.04	23.7
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	23.06	23.01	23.08	23.7
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	23.06	23.08	23.03	23.7
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	23.04	23.06	23.03	23.7
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	23.04	23.07	23.04	23.7
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	23.05	23.10	23.08	23.7



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.08	23.14	23.12	24.4
100	PI/2 BPSK	1	137	22.83	22.91	22.81	
100	PI/2 BPSK	1	271	23.08	23.13	23.11	
100	PI/2 BPSK	135	0	22.81	22.91	22.82	24.4
100	PI/2 BPSK	135	69	22.84	22.92	22.90	24.4
100	PI/2 BPSK	135	138	22.89	22.91	22.81	24.4
100	PI/2 BPSK	270	0	22.88	22.97	22.88	
100	QPSK	1	1	23.03	23.13	23.10	24.4
100	QPSK	1	137	22.83	22.83	22.78	
100	QPSK	1	271	23.04	23.10	23.00	
100	QPSK	135	0	22.80	22.83	22.76	24.4
100	QPSK	135	69	22.75	22.82	22.73	24.4
100	QPSK	135	138	22.87	22.91	22.87	24.4
100	QPSK	270	0	22.89	22.89	22.79	
100	16QAM	1	1	22.84	22.85	22.81	24.4
100	64QAM	1	1	23.00	23.09	23.00	24.4
100	256QAM	1	1	21.69	21.72	21.72	22.4
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	22.99	23.00	23.02	24.4
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	23.06	23.03	23.03	24.4
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	23.06	23.07	23.04	24.4
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	23.07	23.09	23.06	24.4
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	23.04	23.10	23.11	24.4
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	23.00	23.09	23.04	24.4
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	23.06	23.01	23.08	24.4
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	23.06	23.08	23.03	24.4
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	23.04	23.06	23.03	24.4
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	23.04	23.07	23.04	24.4
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	23.05	23.10	23.08	24.4



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.08	23.14	23.12	23.7
100	PI/2 BPSK	1	137	22.83	22.91	22.81	
100	PI/2 BPSK	1	271	23.08	23.13	23.11	
100	PI/2 BPSK	135	0	22.81	22.91	22.82	23.7
100	PI/2 BPSK	135	69	22.84	22.92	22.90	23.7
100	PI/2 BPSK	135	138	22.89	22.91	22.81	23.7
100	PI/2 BPSK	270	0	22.88	22.97	22.88	
100	QPSK	1	1	23.03	23.13	23.10	23.7
100	QPSK	1	137	22.83	22.83	22.78	
100	QPSK	1	271	23.04	23.10	23.00	
100	QPSK	135	0	22.80	22.83	22.76	23.7
100	QPSK	135	69	22.75	22.82	22.73	23.7
100	QPSK	135	138	22.87	22.91	22.87	23.7
100	QPSK	270	0	22.89	22.89	22.79	
100	16QAM	1	1	22.84	22.85	22.81	23.7
100	64QAM	1	1	23.00	23.09	23.00	23.7
100	256QAM	1	1	21.69	21.72	21.72	22.4
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	22.99	23.00	23.02	23.7
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	23.06	23.03	23.03	23.7
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	23.06	23.07	23.04	23.7
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	23.07	23.09	23.06	23.7
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	23.04	23.10	23.11	23.7
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	23.00	23.09	23.04	23.7
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	23.06	23.01	23.08	23.7
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	23.06	23.08	23.03	23.7
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	23.04	23.06	23.03	23.7
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	23.04	23.07	23.04	23.7
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	23.05	23.10	23.08	23.7



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	19.94	20.00	19.99	21.40
100	PI/2 BPSK	1	137	19.96	19.97	19.93	
100	PI/2 BPSK	1	271	19.90	19.96	19.91	
100	PI/2 BPSK	135	0	19.68	19.70	19.62	21.40
100	PI/2 BPSK	135	69	19.72	19.76	19.72	21.40
100	PI/2 BPSK	135	138	19.69	19.73	19.69	21.40
100	PI/2 BPSK	270	0	19.79	19.79	19.73	
100	QPSK	1	1	19.88	19.98	19.90	21.40
100	QPSK	1	137	19.93	19.94	19.92	
100	QPSK	1	271	19.80	19.86	19.84	
100	QPSK	135	0	19.63	19.67	19.57	21.40
100	QPSK	135	69	19.69	19.70	19.65	21.40
100	QPSK	135	138	19.61	19.71	19.69	21.40
100	QPSK	270	0	19.75	19.75	19.71	
100	16QAM	1	1	19.88	19.90	19.82	21.40
100	64QAM	1	1	19.81	19.87	19.83	21.40
100	256QAM	1	1	19.92	19.91	19.90	21.40
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	19.92	19.97	19.88	21.40
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	19.95	19.93	19.91	21.40
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	19.87	19.93	19.93	21.40
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	19.89	19.88	19.94	21.40
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	19.90	19.94	19.91	21.40
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	19.97	19.93	19.97	21.40
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	19.97	19.92	19.93	21.40
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	19.93	19.92	19.94	21.40
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	19.94	19.91	19.95	21.40
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	19.94	19.94	19.88	21.40
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	19.96	19.97	19.93	21.40



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	19.94	20.00	19.99	20.70
100	PI/2 BPSK	1	137	19.96	19.97	19.93	
100	PI/2 BPSK	1	271	19.90	19.96	19.91	
100	PI/2 BPSK	135	0	19.68	19.70	19.62	20.70
100	PI/2 BPSK	135	69	19.72	19.76	19.72	20.70
100	PI/2 BPSK	135	138	19.69	19.73	19.69	20.70
100	PI/2 BPSK	270	0	19.79	19.79	19.73	
100	QPSK	1	1	19.88	19.98	19.90	20.70
100	QPSK	1	137	19.93	19.94	19.92	
100	QPSK	1	271	19.80	19.86	19.84	
100	QPSK	135	0	19.63	19.67	19.57	20.70
100	QPSK	135	69	19.69	19.70	19.65	20.70
100	QPSK	135	138	19.61	19.71	19.69	20.70
100	QPSK	270	0	19.75	19.75	19.71	
100	16QAM	1	1	19.88	19.90	19.82	20.70
100	64QAM	1	1	19.81	19.87	19.83	20.70
100	256QAM	1	1	19.92	19.91	19.90	20.70
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	19.92	19.97	19.88	20.70
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	19.95	19.93	19.91	20.70
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	19.87	19.93	19.93	20.70
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	19.89	19.88	19.94	20.70
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	19.90	19.94	19.91	20.70
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	19.97	19.93	19.97	20.70
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	19.97	19.92	19.93	20.70
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	19.93	19.92	19.94	20.70
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	19.94	19.91	19.95	20.70
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	19.94	19.94	19.88	20.70
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	19.96	19.97	19.93	20.70



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.10	24.12	24.04	24.80
100	PI/2 BPSK	1	137	24.01	24.09	24.01	
100	PI/2 BPSK	1	271	24.04	24.11	24.01	
100	PI/2 BPSK	135	0	23.80	23.80	23.70	24.80
100	PI/2 BPSK	135	69	23.91	23.92	23.90	24.80
100	PI/2 BPSK	135	138	23.85	23.87	23.80	24.80
100	PI/2 BPSK	270	0	23.86	23.91	23.83	
100	QPSK	1	1	24.00	24.08	24.07	24.80
100	QPSK	1	137	24.03	24.08	23.99	
100	QPSK	1	271	24.01	24.09	24.00	
100	QPSK	135	0	24.07	24.08	24.04	24.80
100	QPSK	135	69	24.08	24.08	24.06	24.80
100	QPSK	135	138	24.00	24.09	24.04	24.80
100	QPSK	270	0	23.83	23.91	23.86	
100	16QAM	1	1	23.97	24.03	23.94	24.80
100	64QAM	1	1	23.77	23.82	23.79	24.40
100	256QAM	1	1	21.82	21.85	21.83	22.40
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.04	24.00	24.01	24.80
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.05	23.97	24.01	24.80
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	23.97	23.97	24.07	24.80
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.05	24.05	23.99	24.80
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.07	23.97	24.03	24.80
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.07	24.03	24.03	24.80
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.02	24.07	24.06	24.80
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	24.01	24.06	23.97	24.80
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	23.97	23.98	24.00	24.80
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	23.98	24.00	23.97	24.80
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	24.04	23.98	23.98	24.80



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.10	24.12	24.04	25.50
100	PI/2 BPSK	1	137	24.01	24.09	24.01	
100	PI/2 BPSK	1	271	24.04	24.11	24.01	
100	PI/2 BPSK	135	0	23.80	23.80	23.70	25.00
100	PI/2 BPSK	135	69	23.91	23.92	23.90	25.50
100	PI/2 BPSK	135	138	23.85	23.87	23.80	25.00
100	PI/2 BPSK	270	0	23.86	23.91	23.83	
100	QPSK	1	1	24.00	24.08	24.07	
100	QPSK	1	137	24.03	24.08	23.99	25.50
100	QPSK	1	271	24.01	24.09	24.00	
100	QPSK	135	0	24.07	24.08	24.04	
100	QPSK	135	69	24.08	24.08	24.06	25.50
100	QPSK	135	138	24.00	24.09	24.04	25.50
100	QPSK	270	0	23.83	23.91	23.86	
100	16QAM	1	1	23.97	24.03	23.94	
100	64QAM	1	1	23.77	23.82	23.79	24.40
100	256QAM	1	1	21.82	21.85	21.83	22.40
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.04	24.00	24.01	25.50
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.05	23.97	24.01	25.50
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	23.97	23.97	24.07	25.50
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.05	24.05	23.99	25.50
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.07	23.97	24.03	25.50
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.07	24.03	24.03	25.50
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.02	24.07	24.06	25.50
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	24.01	24.06	23.97	25.50
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	23.97	23.98	24.00	25.50
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	23.98	24.00	23.97	25.50
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	24.04	23.98	23.98	25.50



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.10	24.12	24.04	24.80
100	PI/2 BPSK	1	137	24.01	24.09	24.01	
100	PI/2 BPSK	1	271	24.04	24.11	24.01	
100	PI/2 BPSK	135	0	23.80	23.80	23.70	24.80
100	PI/2 BPSK	135	69	23.91	23.92	23.90	24.80
100	PI/2 BPSK	135	138	23.85	23.87	23.80	24.80
100	PI/2 BPSK	270	0	23.86	23.91	23.83	
100	QPSK	1	1	24.00	24.08	24.07	24.80
100	QPSK	1	137	24.03	24.08	23.99	
100	QPSK	1	271	24.01	24.09	24.00	
100	QPSK	135	0	24.07	24.08	24.04	24.80
100	QPSK	135	69	24.08	24.08	24.06	24.80
100	QPSK	135	138	24.00	24.09	24.04	24.80
100	QPSK	270	0	23.83	23.91	23.86	
100	16QAM	1	1	23.97	24.03	23.94	24.80
100	64QAM	1	1	23.77	23.82	23.79	24.40
100	256QAM	1	1	21.82	21.85	21.83	22.40
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.04	24.00	24.01	24.80
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.05	23.97	24.01	24.80
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	23.97	23.97	24.07	24.80
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.05	24.05	23.99	24.80
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.07	23.97	24.03	24.80
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.07	24.03	24.03	24.80
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.02	24.07	24.06	24.80
Channel				501702	518598	535500	Tune-up limit (dBm)
Frequency (MHz)				2508.51	2592.99	2677.5	
25	PI/2 BPSK	1	1	24.01	24.06	23.97	24.80
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	23.97	23.98	24.00	24.80
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	23.98	24.00	23.97	24.80
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	24.04	23.98	23.98	24.80



<FR1 n48_Ant 1_Index 2>							Tune-up Limit		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Sub carrier spacing		Channel		638000	641666	645332	638000	641666	645332
30k	Hz	Frequency (MHz)		3570	3624.99	3679.98	3570	3624.99	3679.98
40	PI/2 BPSK	1	1	13.29	16.80	13.26	13.50	18.20	13.50
40	PI/2 BPSK	1	104	13.45	16.76	13.03	13.50	18.20	13.50
40	PI/2 BPSK	50	25	13.45	16.82	13.18	13.50	18.20	13.50
40	PI/2 BPSK	1	0	13.25	16.76	13.26	13.50	18.20	13.50
40	PI/2 BPSK	1	105	13.45	16.78	13.05	13.50	18.20	13.50
40	PI/2 BPSK	100	0	13.46	16.80	13.16	13.50	18.20	13.50
40	QPSK	1	1	13.28	16.74	13.35	13.50	18.20	13.50
40	QPSK	1	104	13.51	16.76	13.11	14.00	18.20	13.50
40	QPSK	50	25	13.46	16.76	13.18	13.50	18.20	13.50
40	QPSK	1	0	13.33	16.70	13.34	13.50	18.20	13.50
40	QPSK	1	105	13.50	16.77	13.11	13.50	18.20	13.50
40	QPSK	100	0	13.46	16.74	13.19	13.50	18.20	13.50
40	16QAM	1	1	12.90	16.73	12.76	13.00	18.20	13.00
40	64QAM	1	1	12.79	16.79	12.79	13.00	18.20	13.00
40	256QAM	1	1	12.63	16.78	12.81	13.00	18.20	13.00
Sub carrier spacing		Channel		637334	641666	646000	637334	641666	646000
30k	Hz	Frequency (MHz)		3560.01	3624.99	3690	3560.01	3624.99	3690
20	PI/2 BPSK	1	1	16.68	16.70	16.99	18.20	18.20	18.20
20	PI/2 BPSK	1	49	16.79	16.78	16.74	18.20	18.20	18.20
20	PI/2 BPSK	25	12	16.78	16.74	16.75	18.20	18.20	18.20
20	PI/2 BPSK	1	0	16.79	16.73	16.77	18.20	18.20	18.20
20	PI/2 BPSK	1	50	16.78	16.79	16.71	18.20	18.20	18.20
20	PI/2 BPSK	50	0	16.80	16.78	16.75	18.20	18.20	18.20
20	QPSK	1	1	16.70	16.72	16.75	18.20	18.20	18.20
20	QPSK	1	49	16.78	16.74	16.78	18.20	18.20	18.20
20	QPSK	25	12	16.79	16.77	16.73	18.20	18.20	18.20
20	QPSK	1	0	16.73	16.71	16.72	18.20	18.20	18.20
20	QPSK	1	50	16.72	16.71	16.79	18.20	18.20	18.20
20	QPSK	50	0	16.80	16.71	16.71	18.20	18.20	18.20
20	16QAM	1	1	16.73	16.75	16.77	18.20	18.20	18.20
20	64QAM	1	1	16.75	16.72	16.79	18.20	18.20	18.20
20	256QAM	1	1	16.71	16.75	16.75	18.20	18.20	18.20
Sub carrier spacing		Channel		637168	641666	646166	637168	641666	646166
30k	Hz	Frequency (MHz)		3557.52	3624.99	3692.49	3557.52	3624.99	3692.49
15	PI/2 BPSK	1	1	16.80	16.77	16.77	18.20	18.20	18.20
15	PI/2 BPSK	1	36	16.70	16.74	16.77	18.20	18.20	18.20
15	PI/2 BPSK	18	9	16.74	16.74	16.77	18.20	18.20	18.20
15	PI/2 BPSK	1	0	16.73	16.73	16.70	18.20	18.20	18.20
15	PI/2 BPSK	1	37	16.80	16.72	16.73	18.20	18.20	18.20
15	PI/2 BPSK	36	0	16.78	16.71	16.70	18.20	18.20	18.20
15	QPSK	1	1	16.77	16.75	16.76	18.20	18.20	18.20
15	QPSK	1	36	16.78	16.78	16.79	18.20	18.20	18.20
15	QPSK	18	9	16.70	16.77	16.74	18.20	18.20	18.20
15	QPSK	1	0	16.70	16.75	16.74	18.20	18.20	18.20
15	QPSK	1	37	16.76	16.76	16.73	18.20	18.20	18.20
15	QPSK	36	0	16.75	16.75	16.74	18.20	18.20	18.20
15	16QAM	1	1	16.80	16.74	16.73	18.20	18.20	18.20
15	64QAM	1	1	16.75	16.75	16.72	18.20	18.20	18.20
15	256QAM	1	1	16.78	16.70	16.71	18.20	18.20	18.20
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98



10	PI/2 BPSK	1	1	16.70	16.73	16.77	18.20	18.20	18.20
10	PI/2 BPSK	1	22	16.72	16.76	16.78	18.20	18.20	18.20
10	PI/2 BPSK	12	6	16.71	16.74	16.73	18.20	18.20	18.20
10	PI/2 BPSK	1	0	16.70	16.76	16.80	18.20	18.20	18.20
10	PI/2 BPSK	1	23	16.75	16.78	16.72	18.20	18.20	18.20
10	PI/2 BPSK	24	0	16.76	16.79	16.72	18.20	18.20	18.20
10	QPSK	1	1	16.71	16.73	16.74	18.20	18.20	18.20
10	QPSK	1	22	16.80	16.73	16.71	18.20	18.20	18.20
10	QPSK	12	6	16.79	16.78	16.79	18.20	18.20	18.20
10	QPSK	1	0	16.72	16.80	16.70	18.20	18.20	18.20
10	QPSK	1	23	16.75	16.76	16.80	18.20	18.20	18.20
10	QPSK	24	0	16.70	16.73	16.76	18.20	18.20	18.20
10	16QAM	1	1	16.76	16.79	16.77	18.20	18.20	18.20
10	64QAM	1	1	16.80	16.76	16.71	18.20	18.20	18.20
10	256QAM	1	1	16.76	16.75	16.80	18.20	18.20	18.20

<FR1 n48_Ant 1_Index 3>							Tune-up Limit		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Sub carrier spacing		Channel		638000	641666	645332	638000	641666	645332
30k	Hz	Frequency (MHz)		3570	3624.99	3679.98	3570	3624.99	3679.98
40	PI/2 BPSK	1	1	13.29	16.80	13.26	13.50	17.50	13.50
40	PI/2 BPSK	1	104	13.45	16.76	13.03	13.50	17.50	13.50
40	PI/2 BPSK	50	25	13.45	16.82	13.18	13.50	17.50	13.50
40	PI/2 BPSK	1	0	13.25	16.76	13.26	13.50	17.50	13.50
40	PI/2 BPSK	1	105	13.45	16.78	13.05	13.50	17.50	13.50
40	PI/2 BPSK	100	0	13.46	16.80	13.16	13.50	17.50	13.50
40	QPSK	1	1	13.28	16.74	13.35	13.50	17.50	13.50
40	QPSK	1	104	13.51	16.76	13.11	14.00	17.50	13.50
40	QPSK	50	25	13.46	16.76	13.18	13.50	17.50	13.50
40	QPSK	1	0	13.33	16.70	13.34	13.50	17.50	13.50
40	QPSK	1	105	13.50	16.77	13.11	13.50	17.50	13.50
40	QPSK	100	0	13.46	16.74	13.19	13.50	17.50	13.50
40	16QAM	1	1	12.90	16.73	12.76	13.00	17.50	13.00
40	64QAM	1	1	12.79	16.79	12.79	13.00	17.50	13.00
40	256QAM	1	1	12.63	16.78	12.81	13.00	17.50	13.00
Sub carrier spacing		Channel		637334	641666	646000	637334	641666	646000
30k	Hz	Frequency (MHz)		3560.01	3624.99	3690	3560.01	3624.99	3690
20	PI/2 BPSK	1	1	16.68	16.70	16.99	17.50	17.50	17.50
20	PI/2 BPSK	1	49	16.79	16.78	16.74	17.50	17.50	17.50
20	PI/2 BPSK	25	12	16.78	16.74	16.75	17.50	17.50	17.50
20	PI/2 BPSK	1	0	16.79	16.73	16.77	17.50	17.50	17.50
20	PI/2 BPSK	1	50	16.78	16.79	16.71	17.50	17.50	17.50
20	PI/2 BPSK	50	0	16.80	16.78	16.75	17.50	17.50	17.50
20	QPSK	1	1	16.70	16.72	16.75	17.50	17.50	17.50
20	QPSK	1	49	16.78	16.74	16.78	17.50	17.50	17.50
20	QPSK	25	12	16.79	16.77	16.73	17.50	17.50	17.50
20	QPSK	1	0	16.73	16.71	16.72	17.50	17.50	17.50
20	QPSK	1	50	16.72	16.71	16.79	17.50	17.50	17.50
20	QPSK	50	0	16.80	16.71	16.71	17.50	17.50	17.50
20	16QAM	1	1	16.73	16.75	16.77	17.50	17.50	17.50
20	64QAM	1	1	16.75	16.72	16.79	17.50	17.50	17.50
20	256QAM	1	1	16.71	16.75	16.75	17.50	17.50	17.50
Sub carrier spacing		Channel		637168	641666	646166	637168	641666	646166
30k	Hz	Frequency (MHz)		3557.52	3624.99	3692.49	3557.52	3624.99	3692.49
15	PI/2 BPSK	1	1	16.80	16.77	16.77	17.50	17.50	17.50



15	PI/2 BPSK	1	36	16.70	16.74	16.77	17.50	17.50	17.50
15	PI/2 BPSK	18	9	16.74	16.74	16.77	17.50	17.50	17.50
15	PI/2 BPSK	1	0	16.73	16.73	16.70	17.50	17.50	17.50
15	PI/2 BPSK	1	37	16.80	16.72	16.73	17.50	17.50	17.50
15	PI/2 BPSK	36	0	16.78	16.71	16.70	17.50	17.50	17.50
15	QPSK	1	1	16.77	16.75	16.76	17.50	17.50	17.50
15	QPSK	1	36	16.78	16.78	16.79	17.50	17.50	17.50
15	QPSK	18	9	16.70	16.77	16.74	17.50	17.50	17.50
15	QPSK	1	0	16.70	16.75	16.74	17.50	17.50	17.50
15	QPSK	1	37	16.76	16.76	16.73	17.50	17.50	17.50
15	QPSK	36	0	16.75	16.75	16.74	17.50	17.50	17.50
15	16QAM	1	1	16.80	16.74	16.73	17.50	17.50	17.50
15	64QAM	1	1	16.75	16.75	16.72	17.50	17.50	17.50
15	256QAM	1	1	16.78	16.70	16.71	17.50	17.50	17.50
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98
10	PI/2 BPSK	1	1	16.70	16.73	16.77	17.50	17.50	17.50
10	PI/2 BPSK	1	22	16.72	16.76	16.78	17.50	17.50	17.50
10	PI/2 BPSK	12	6	16.71	16.74	16.73	17.50	17.50	17.50
10	PI/2 BPSK	1	0	16.70	16.76	16.80	17.50	17.50	17.50
10	PI/2 BPSK	1	23	16.75	16.78	16.72	17.50	17.50	17.50
10	PI/2 BPSK	24	0	16.76	16.79	16.72	17.50	17.50	17.50
10	QPSK	1	1	16.71	16.73	16.74	17.50	17.50	17.50
10	QPSK	1	22	16.80	16.73	16.71	17.50	17.50	17.50
10	QPSK	12	6	16.79	16.78	16.79	17.50	17.50	17.50
10	QPSK	1	0	16.72	16.80	16.70	17.50	17.50	17.50
10	QPSK	1	23	16.75	16.76	16.80	17.50	17.50	17.50
10	QPSK	24	0	16.70	16.73	16.76	17.50	17.50	17.50
10	16QAM	1	1	16.76	16.79	16.77	17.50	17.50	17.50
10	64QAM	1	1	16.80	16.76	16.71	17.50	17.50	17.50
10	256QAM	1	1	16.76	16.75	16.80	17.50	17.50	17.50

<FR1 n48_Ant 1_Index 4>

							Tune-up Limit		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Sub carrier spacing		Channel		638000	641666	645332	638000	641666	645332
30k Hz		Frequency (MHz)		3570	3624.99	3679.98	3570	3624.99	3679.98
40	PI/2 BPSK	1	1	13.29	20.05	13.26	13.50	20.50	13.50
40	PI/2 BPSK	1	104	13.45	20.01	13.03	13.50	20.50	13.50
40	PI/2 BPSK	50	25	13.45	20.15	13.18	13.50	20.90	13.50
40	PI/2 BPSK	1	0	13.25	20.05	13.26	13.50	20.50	13.50
40	PI/2 BPSK	1	105	13.45	19.97	13.05	13.50	20.00	13.50
40	PI/2 BPSK	100	0	13.46	19.58	13.16	13.50	20.00	13.50
40	QPSK	1	1	13.28	20.06	13.35	13.50	20.50	13.50
40	QPSK	1	104	13.51	20.01	13.11	14.00	20.50	13.50
40	QPSK	50	25	13.46	20.09	13.18	13.50	20.90	13.50
40	QPSK	1	0	13.33	20.05	13.34	13.50	20.50	13.50
40	QPSK	1	105	13.50	20.06	13.11	13.50	20.50	13.50
40	QPSK	100	0	13.46	19.59	13.19	13.50	20.00	13.50
40	16QAM	1	1	12.90	20.11	12.76	13.00	20.50	13.00
40	64QAM	1	1	12.79	20.24	12.79	13.00	20.50	13.00
40	256QAM	1	1	12.63	19.42	12.81	13.00	19.50	13.00
Sub carrier spacing		Channel		637334	641666	646000	637334	641666	646000
30k Hz		Frequency (MHz)		3560.01	3624.99	3690	3560.01	3624.99	3690
20	PI/2 BPSK	1	1	19.81	20.09	20.26	20.00	20.90	20.90
20	PI/2 BPSK	1	49	19.89	20.12	19.61	20.90	20.90	20.00



20	PI/2 BPSK	25	12	19.81	20.10	20.24	20.90	20.90	20.90
20	PI/2 BPSK	1	0	19.80	20.11	20.22	20.00	20.90	20.90
20	PI/2 BPSK	1	50	19.88	20.04	19.58	20.90	20.90	20.00
20	PI/2 BPSK	50	0	19.84	20.11	19.61	20.00	20.90	20.00
20	QPSK	1	1	19.82	20.04	20.20	20.00	20.90	20.90
20	QPSK	1	49	19.85	20.04	19.58	20.90	20.90	20.00
20	QPSK	25	12	19.91	20.11	20.21	20.90	20.90	20.90
20	QPSK	1	0	19.79	20.07	20.25	20.00	20.90	20.90
20	QPSK	1	50	19.86	20.09	19.59	20.90	20.90	20.00
20	QPSK	50	0	19.91	20.10	19.60	20.00	20.90	20.00
20	16QAM	1	1	18.90	20.02	20.21	19.00	20.90	20.90
20	64QAM	1	1	18.64	20.11	19.50	19.00	20.90	20.90
20	256QAM	1	1	19.47	19.59	19.28	19.50	20.00	19.50
Sub carrier spacing		Channel		637168	641666	646166	637168	641666	646166
30k Hz		Frequency (MHz)		3557.52	3624.99	3692.49	3557.52	3624.99	3692.49
15	PI/2 BPSK	1	1	19.74	20.07	20.20	20.00	20.90	20.90
15	PI/2 BPSK	1	36	19.81	20.08	19.62	20.90	20.90	20.00
15	PI/2 BPSK	18	9	19.83	20.05	20.14	20.90	20.90	20.90
15	PI/2 BPSK	1	0	19.81	20.01	20.12	20.00	20.90	20.90
15	PI/2 BPSK	1	37	19.84	20.04	19.62	20.90	20.90	20.00
15	PI/2 BPSK	36	0	19.87	20.05	19.67	20.00	20.90	20.00
15	QPSK	1	1	19.79	20.07	20.16	20.00	20.90	20.90
15	QPSK	1	36	19.85	20.09	19.67	20.90	20.90	20.00
15	QPSK	18	9	19.89	20.02	20.15	20.90	20.90	20.90
15	QPSK	1	0	19.87	20.05	20.15	20.00	20.90	20.90
15	QPSK	1	37	19.81	20.05	19.57	20.90	20.90	20.00
15	QPSK	36	0	19.86	20.07	19.66	20.00	20.90	20.00
15	16QAM	1	1	18.69	20.05	20.10	19.00	20.90	20.90
15	64QAM	1	1	18.93	20.06	19.40	19.00	20.90	20.90
15	256QAM	1	1	19.19	19.38	19.22	19.50	19.50	19.50
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k Hz		Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98
10	PI/2 BPSK	1	1	19.81	20.02	20.18	20.90	20.90	20.90
10	PI/2 BPSK	1	22	19.90	20.01	20.22	20.90	20.90	20.90
10	PI/2 BPSK	12	6	19.81	20.02	20.22	20.90	20.90	20.90
10	PI/2 BPSK	1	0	19.81	20.03	20.25	20.90	20.90	20.90
10	PI/2 BPSK	1	23	19.87	19.97	20.24	20.90	20.90	20.90
10	PI/2 BPSK	24	0	19.88	20.01	20.22	20.90	20.90	20.90
10	QPSK	1	1	19.88	19.96	20.21	20.90	20.90	20.90
10	QPSK	1	22	19.83	20.03	20.24	20.90	20.90	20.90
10	QPSK	12	6	19.86	19.95	20.24	20.90	20.90	20.90
10	QPSK	1	0	19.84	19.98	20.24	20.90	20.90	20.90
10	QPSK	1	23	19.90	19.96	20.17	20.90	20.90	20.90
10	QPSK	24	0	19.91	20.03	20.26	20.90	20.90	20.90
10	16QAM	1	1	19.86	19.97	20.22	20.90	20.90	20.90
10	64QAM	1	1	19.67	19.99	19.75	20.90	20.90	20.90
10	256QAM	1	1	19.27	19.89	19.26	19.50	20.00	19.50



<FR1 n48_Ant 1_Index 5/6>							Tune-up Limit		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Sub carrier spacing		Channel		638000	641666	645332	638000	641666	645332
30k	Hz	Frequency (MHz)		3570	3624.99	3679.98	3570	3624.99	3679.98
40	PI/2 BPSK	1	1	13.29	20.05	13.26	13.50	20.50	13.50
40	PI/2 BPSK	1	104	13.45	20.01	13.03	13.50	20.50	13.50
40	PI/2 BPSK	50	25	13.45	21.85	13.18	13.50	23.00	13.50
40	PI/2 BPSK	1	0	13.25	20.05	13.26	13.50	20.50	13.50
40	PI/2 BPSK	1	105	13.45	19.97	13.05	13.50	20.00	13.50
40	PI/2 BPSK	100	0	13.46	19.58	13.16	13.50	20.00	13.50
40	QPSK	1	1	13.28	20.06	13.35	13.50	20.50	13.50
40	QPSK	1	104	13.51	20.01	13.11	14.00	20.50	13.50
40	QPSK	50	25	13.46	21.80	13.18	13.50	23.00	13.50
40	QPSK	1	0	13.33	20.05	13.34	13.50	20.50	13.50
40	QPSK	1	105	13.50	20.06	13.11	13.50	20.50	13.50
40	QPSK	100	0	13.46	19.59	13.19	13.50	20.00	13.50
40	16QAM	1	1	12.90	20.11	12.76	13.00	20.50	13.00
40	64QAM	1	1	12.79	20.24	12.79	13.00	20.50	13.00
40	256QAM	1	1	12.63	19.42	12.81	13.00	19.50	13.00
Sub carrier spacing		Channel		637334	641666	646000	637334	641666	646000
30k	Hz	Frequency (MHz)		3560.01	3624.99	3690	3560.01	3624.99	3690
20	PI/2 BPSK	1	1	19.81	21.79	21.94	20.00	23.00	22.50
20	PI/2 BPSK	1	49	21.53	21.79	19.61	22.50	23.00	20.00
20	PI/2 BPSK	25	12	21.51	21.80	21.94	22.50	23.00	22.50
20	PI/2 BPSK	1	0	19.80	21.81	22.02	20.00	23.00	22.50
20	PI/2 BPSK	1	50	21.61	21.74	19.58	23.00	23.00	20.00
20	PI/2 BPSK	50	0	19.84	21.81	19.61	20.00	23.00	20.00
20	QPSK	1	1	19.82	21.74	21.97	20.00	23.00	22.50
20	QPSK	1	49	21.55	21.74	19.58	23.00	23.00	20.00
20	QPSK	25	12	21.61	21.81	21.97	22.50	23.00	22.50
20	QPSK	1	0	19.79	21.77	21.95	20.00	23.00	22.50
20	QPSK	1	50	21.56	21.79	19.59	22.50	23.00	20.00
20	QPSK	50	0	19.91	21.80	19.60	20.00	23.00	20.00
20	16QAM	1	1	18.90	21.72	21.98	19.00	23.00	22.50
20	64QAM	1	1	18.64	21.81	21.20	19.00	22.00	21.50
20	256QAM	1	1	19.47	19.59	19.28	19.50	20.00	19.50
Sub carrier spacing		Channel		637168	641666	646166	637168	641666	646166
30k	Hz	Frequency (MHz)		3557.52	3624.99	3692.49	3557.52	3624.99	3692.49
15	PI/2 BPSK	1	1	19.74	21.77	21.90	20.00	23.00	22.50
15	PI/2 BPSK	1	36	21.51	21.78	19.62	22.50	23.00	20.00
15	PI/2 BPSK	18	9	21.53	21.75	21.84	22.50	23.00	22.50
15	PI/2 BPSK	1	0	19.81	21.71	21.82	20.00	23.00	22.50
15	PI/2 BPSK	1	37	21.54	21.74	19.62	22.50	23.00	20.00
15	PI/2 BPSK	36	0	19.87	21.75	19.67	20.00	23.00	20.00
15	QPSK	1	1	19.79	21.77	21.86	20.00	23.00	22.50
15	QPSK	1	36	21.55	21.79	19.67	22.50	23.00	20.00
15	QPSK	18	9	21.59	21.72	21.85	22.50	23.00	22.50
15	QPSK	1	0	19.87	21.75	21.85	20.00	23.00	22.50
15	QPSK	1	37	21.51	21.75	19.57	22.50	23.00	20.00
15	QPSK	36	0	19.86	21.77	19.66	20.00	23.00	20.00
15	16QAM	1	1	18.69	21.75	21.80	19.00	23.00	22.50
15	64QAM	1	1	18.93	21.76	21.10	19.00	22.00	21.50
15	256QAM	1	1	19.19	19.38	19.22	19.50	19.50	19.50
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98



10	PI/2 BPSK	1	1	21.51	21.72	21.88	22.50	23.00	22.50
10	PI/2 BPSK	1	22	21.60	21.71	21.92	22.50	23.00	22.50
10	PI/2 BPSK	12	6	21.51	21.72	21.92	22.50	23.00	22.50
10	PI/2 BPSK	1	0	21.51	21.73	21.95	22.50	23.00	22.50
10	PI/2 BPSK	1	23	21.57	21.67	21.94	22.50	23.00	22.50
10	PI/2 BPSK	24	0	21.58	21.71	21.92	22.50	23.00	22.50
10	QPSK	1	1	21.58	21.66	21.91	22.50	23.00	22.50
10	QPSK	1	22	21.53	21.73	21.94	22.50	23.00	22.50
10	QPSK	12	6	21.56	21.65	21.94	22.50	23.00	22.50
10	QPSK	1	0	21.54	21.68	21.94	22.50	23.00	22.50
10	QPSK	1	23	21.60	21.66	21.87	22.50	23.00	22.50
10	QPSK	24	0	21.61	21.73	21.96	22.50	23.00	22.50
10	16QAM	1	1	21.56	21.67	21.92	22.50	22.50	22.50
10	64QAM	1	1	21.37	21.69	21.45	21.50	22.00	21.50
10	256QAM	1	1	19.27	19.89	19.26	19.50	20.00	19.50

<FR1 n48_Ant 5_Index 2>							Tune-up Limit		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Sub carrier spacing		Channel		638000	641666	645332	638000	641666	645332
30k	Hz	Frequency (MHz)		3570	3624.99	3679.98	3570	3624.99	3679.98
40	PI/2 BPSK	1	1	13.07	17.22	13.00	13.50	18.10	13.00
40	PI/2 BPSK	1	104	13.33	17.15	12.59	13.50	18.10	13.00
40	PI/2 BPSK	50	25	13.24	17.32	12.86	13.50	18.10	13.00
40	PI/2 BPSK	1	0	13.06	17.17	12.99	13.50	18.10	13.00
40	PI/2 BPSK	1	105	13.32	17.21	12.58	13.50	18.10	13.00
40	PI/2 BPSK	100	0	13.23	17.32	12.83	13.50	18.10	13.00
40	QPSK	1	1	12.97	17.18	13.04	13.00	18.10	13.50
40	QPSK	1	104	13.22	17.14	12.66	13.50	18.10	13.00
40	QPSK	50	25	13.21	17.20	12.82	13.50	18.10	13.00
40	QPSK	1	0	12.97	17.19	13.03	13.00	18.10	13.50
40	QPSK	1	105	13.36	17.18	12.63	13.50	18.10	13.00
40	QPSK	100	0	13.21	17.18	12.84	13.50	18.10	13.00
40	16QAM	1	1	12.56	17.16	12.46	13.00	18.10	12.50
40	64QAM	1	1	12.60	17.16	12.29	13.00	18.10	12.50
40	256QAM	1	1	12.57	17.16	12.43	13.00	18.10	12.50
Sub carrier spacing		Channel		637334	641666	646000	637334	641666	646000
30k	Hz	Frequency (MHz)		3560.01	3624.99	3690	3560.01	3624.99	3690
20	PI/2 BPSK	1	1	17.12	17.13	17.40	18.10	18.10	18.10
20	PI/2 BPSK	1	49	17.11	17.21	17.34	18.10	18.10	18.10
20	PI/2 BPSK	25	12	17.12	17.18	17.39	18.10	18.10	18.10
20	PI/2 BPSK	1	0	17.12	17.13	17.34	18.10	18.10	18.10
20	PI/2 BPSK	1	50	17.11	17.21	17.30	18.10	18.10	18.10
20	PI/2 BPSK	50	0	17.03	17.13	17.34	18.10	18.10	18.10
20	QPSK	1	1	17.10	17.20	17.30	18.10	18.10	18.10
20	QPSK	1	49	17.06	17.14	17.39	18.10	18.10	18.10
20	QPSK	25	12	17.11	17.14	17.30	18.10	18.10	18.10
20	QPSK	1	0	17.12	17.14	17.35	18.10	18.10	18.10
20	QPSK	1	50	17.02	17.18	17.31	18.10	18.10	18.10
20	QPSK	50	0	17.03	17.20	17.37	18.10	18.10	18.10
20	16QAM	1	1	17.03	17.16	17.36	18.10	18.10	18.10
20	64QAM	1	1	17.10	17.21	17.39	18.10	18.10	18.10
20	256QAM	1	1	17.12	17.19	17.36	18.10	18.10	18.10
Sub carrier spacing		Channel		637168	641666	646166	637168	641666	646166
30k	Hz	Frequency (MHz)		3557.52	3624.99	3692.49	3557.52	3624.99	3692.49
15	PI/2 BPSK	1	1	17.06	17.11	17.37	18.10	18.10	18.10



15	PI/2 BPSK	1	36	17.06	17.12	17.37	18.10	18.10	18.10
15	PI/2 BPSK	18	9	17.06	17.17	17.35	18.10	18.10	18.10
15	PI/2 BPSK	1	0	17.05	17.10	17.31	18.10	18.10	18.10
15	PI/2 BPSK	1	37	17.02	17.18	17.38	18.10	18.10	18.10
15	PI/2 BPSK	36	0	17.11	17.20	17.36	18.10	18.10	18.10
15	QPSK	1	1	17.12	17.10	17.39	18.10	18.10	18.10
15	QPSK	1	36	17.07	17.16	17.39	18.10	18.10	18.10
15	QPSK	18	9	17.08	17.10	17.38	18.10	18.10	18.10
15	QPSK	1	0	17.06	17.12	17.33	18.10	18.10	18.10
15	QPSK	1	37	17.09	17.10	17.34	18.10	18.10	18.10
15	QPSK	36	0	17.11	17.11	17.34	18.10	18.10	18.10
15	16QAM	1	1	17.03	17.15	17.37	18.10	18.10	18.10
15	64QAM	1	1	17.12	17.19	17.31	18.10	18.10	18.10
15	256QAM	1	1	17.11	17.20	17.37	18.10	18.10	18.10
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98
10	PI/2 BPSK	1	1	17.09	17.20	17.33	18.10	18.10	18.10
10	PI/2 BPSK	1	22	17.04	17.11	17.34	18.10	18.10	18.10
10	PI/2 BPSK	12	6	17.04	17.11	17.37	18.10	18.10	18.10
10	PI/2 BPSK	1	0	17.10	17.19	17.34	18.10	18.10	18.10
10	PI/2 BPSK	1	23	17.11	17.20	17.30	18.10	18.10	18.10
10	PI/2 BPSK	24	0	17.03	17.20	17.37	18.10	18.10	18.10
10	QPSK	1	1	17.05	17.13	17.39	18.10	18.10	18.10
10	QPSK	1	22	17.03	17.12	17.37	18.10	18.10	18.10
10	QPSK	12	6	17.02	17.17	17.36	18.10	18.10	18.10
10	QPSK	1	0	17.09	17.10	17.33	18.10	18.10	18.10
10	QPSK	1	23	17.05	17.20	17.35	18.10	18.10	18.10
10	QPSK	24	0	17.10	17.10	17.38	18.10	18.10	18.10
10	16QAM	1	1	17.07	17.13	17.38	18.10	18.10	18.10
10	64QAM	1	1	17.11	17.16	17.39	18.10	18.10	18.10
10	256QAM	1	1	17.04	17.14	17.31	18.10	18.10	18.10

<FR1 n48_Ant 5_Index 3>							Tune-up Limit		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Sub carrier spacing		Channel		638000	641666	645332	638000	641666	645332
30k	Hz	Frequency (MHz)		3570	3624.99	3679.98	3570	3624.99	3679.98
40	PI/2 BPSK	1	1	13.07	17.22	13.00	13.50	17.40	13.00
40	PI/2 BPSK	1	104	13.33	17.15	12.59	13.50	17.40	13.00
40	PI/2 BPSK	50	25	13.24	17.32	12.86	13.50	17.40	13.00
40	PI/2 BPSK	1	0	13.06	17.17	12.99	13.50	17.40	13.00
40	PI/2 BPSK	1	105	13.32	17.21	12.58	13.50	17.40	13.00
40	PI/2 BPSK	100	0	13.23	17.32	12.83	13.50	17.40	13.00
40	QPSK	1	1	12.97	17.18	13.04	13.00	17.40	13.50
40	QPSK	1	104	13.22	17.14	12.66	13.50	17.40	13.00
40	QPSK	50	25	13.21	17.20	12.82	13.50	17.40	13.00
40	QPSK	1	0	12.97	17.19	13.03	13.00	17.40	13.50
40	QPSK	1	105	13.36	17.18	12.63	13.50	17.40	13.00
40	QPSK	100	0	13.21	17.18	12.84	13.50	17.40	13.00
40	16QAM	1	1	12.56	17.16	12.46	13.00	17.40	12.50
40	64QAM	1	1	12.60	17.16	12.29	13.00	17.40	12.50
40	256QAM	1	1	12.57	17.16	12.43	13.00	17.40	12.50
Sub carrier spacing		Channel		637334	641666	646000	637334	641666	646000
30k	Hz	Frequency (MHz)		3560.01	3624.99	3690	3560.01	3624.99	3690
20	PI/2 BPSK	1	1	17.12	17.13	17.40	17.40	17.40	17.40
20	PI/2 BPSK	1	49	17.11	17.21	17.34	17.40	17.40	17.40



20	PI/2 BPSK	25	12	17.12	17.18	17.39	17.40	17.40	17.40
20	PI/2 BPSK	1	0	17.12	17.13	17.34	17.40	17.40	17.40
20	PI/2 BPSK	1	50	17.11	17.21	17.30	17.40	17.40	17.40
20	PI/2 BPSK	50	0	17.03	17.13	17.34	17.40	17.40	17.40
20	QPSK	1	1	17.10	17.20	17.30	17.40	17.40	17.40
20	QPSK	1	49	17.06	17.14	17.39	17.40	17.40	17.40
20	QPSK	25	12	17.11	17.14	17.30	17.40	17.40	17.40
20	QPSK	1	0	17.12	17.14	17.35	17.40	17.40	17.40
20	QPSK	1	50	17.02	17.18	17.31	17.40	17.40	17.40
20	QPSK	50	0	17.03	17.20	17.37	17.40	17.40	17.40
20	16QAM	1	1	17.03	17.16	17.36	17.40	17.40	17.40
20	64QAM	1	1	17.10	17.21	17.39	17.40	17.40	17.40
20	256QAM	1	1	17.12	17.19	17.36	17.40	17.40	17.40
Sub carrier spacing		Channel		637168	641666	646166	637168	641666	646166
30k	Hz	Frequency (MHz)		3557.52	3624.99	3692.49	3557.52	3624.99	3692.49
15	PI/2 BPSK	1	1	17.06	17.11	17.37	17.40	17.40	17.40
15	PI/2 BPSK	1	36	17.06	17.12	17.37	17.40	17.40	17.40
15	PI/2 BPSK	18	9	17.06	17.17	17.35	17.40	17.40	17.40
15	PI/2 BPSK	1	0	17.05	17.10	17.31	17.40	17.40	17.40
15	PI/2 BPSK	1	37	17.02	17.18	17.38	17.40	17.40	17.40
15	PI/2 BPSK	36	0	17.11	17.20	17.36	17.40	17.40	17.40
15	QPSK	1	1	17.12	17.10	17.39	17.40	17.40	17.40
15	QPSK	1	36	17.07	17.16	17.39	17.40	17.40	17.40
15	QPSK	18	9	17.08	17.10	17.38	17.40	17.40	17.40
15	QPSK	1	0	17.06	17.12	17.33	17.40	17.40	17.40
15	QPSK	1	37	17.09	17.10	17.34	17.40	17.40	17.40
15	QPSK	36	0	17.11	17.11	17.34	17.40	17.40	17.40
15	16QAM	1	1	17.03	17.15	17.37	17.40	17.40	17.40
15	64QAM	1	1	17.12	17.19	17.31	17.40	17.40	17.40
15	256QAM	1	1	17.11	17.20	17.37	17.40	17.40	17.40
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98
10	PI/2 BPSK	1	1	17.09	17.20	17.33	17.40	17.40	17.40
10	PI/2 BPSK	1	22	17.04	17.11	17.34	17.40	17.40	17.40
10	PI/2 BPSK	12	6	17.04	17.11	17.37	17.40	17.40	17.40
10	PI/2 BPSK	1	0	17.10	17.19	17.34	17.40	17.40	17.40
10	PI/2 BPSK	1	23	17.11	17.20	17.30	17.40	17.40	17.40
10	PI/2 BPSK	24	0	17.03	17.20	17.37	17.40	17.40	17.40
10	QPSK	1	1	17.05	17.13	17.39	17.40	17.40	17.40
10	QPSK	1	22	17.03	17.12	17.37	17.40	17.40	17.40
10	QPSK	12	6	17.02	17.17	17.36	17.40	17.40	17.40
10	QPSK	1	0	17.09	17.10	17.33	17.40	17.40	17.40
10	QPSK	1	23	17.05	17.20	17.35	17.40	17.40	17.40
10	QPSK	24	0	17.10	17.10	17.38	17.40	17.40	17.40
10	16QAM	1	1	17.07	17.13	17.38	17.40	17.40	17.40
10	64QAM	1	1	17.11	17.16	17.39	17.40	17.40	17.40
10	256QAM	1	1	17.04	17.14	17.31	17.40	17.40	17.40



<FR1 n48_Ant 5_Index 4/5/6>							Tune-up Limit		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Sub carrier spacing		Channel		638000	641666	645332	638000	641666	645332
30k	Hz	Frequency (MHz)		3570	3624.99	3679.98	3570	3624.99	3679.98
40	PI/2 BPSK	1	1	13.07	19.94	13.00	13.50	20.00	13.00
40	PI/2 BPSK	1	104	13.33	19.83	12.59	13.50	20.00	13.00
40	PI/2 BPSK	50	25	13.24	22.60	12.86	13.50	23.00	13.00
40	PI/2 BPSK	1	0	13.06	19.91	12.99	13.50	20.00	13.00
40	PI/2 BPSK	1	105	13.32	19.81	12.58	13.50	20.00	13.00
40	PI/2 BPSK	100	0	13.23	19.47	12.83	13.50	19.50	13.00
40	QPSK	1	1	12.97	19.94	13.04	13.00	20.00	13.50
40	QPSK	1	104	13.22	19.88	12.66	13.50	20.00	13.00
40	QPSK	50	25	13.21	22.59	12.82	13.50	23.00	13.00
40	QPSK	1	0	12.97	19.92	13.03	13.00	20.00	13.50
40	QPSK	1	105	13.36	19.90	12.63	13.50	20.00	13.00
40	QPSK	100	0	13.21	19.44	12.84	13.50	19.50	13.00
40	16QAM	1	1	12.56	19.98	12.46	13.00	20.00	12.50
40	64QAM	1	1	12.60	19.93	12.29	13.00	20.00	12.50
40	256QAM	1	1	12.57	19.32	12.43	13.00	19.50	12.50
Sub carrier spacing		Channel		637334	641666	646000	637334	641666	646000
30k	Hz	Frequency (MHz)		3560.01	3624.99	3690	3560.01	3624.99	3690
20	PI/2 BPSK	1	1	19.51	22.52	21.90	20.00	23.00	22.00
20	PI/2 BPSK	1	49	22.33	22.51	19.12	22.50	23.00	19.50
20	PI/2 BPSK	25	12	22.17	22.55	21.78	22.50	23.00	22.00
20	PI/2 BPSK	1	0	19.44	22.51	21.94	19.50	23.00	22.00
20	PI/2 BPSK	1	50	22.32	22.51	19.09	22.50	23.00	19.50
20	PI/2 BPSK	50	0	19.58	22.54	19.15	20.00	23.00	19.50
20	QPSK	1	1	19.41	22.61	21.92	20.00	23.00	22.00
20	QPSK	1	49	22.32	22.56	19.14	22.50	23.00	19.50
20	QPSK	25	12	22.19	22.60	21.77	22.50	23.00	22.00
20	QPSK	1	0	19.47	22.61	21.90	19.50	23.00	22.00
20	QPSK	1	50	22.30	22.60	19.11	22.50	23.00	19.50
20	QPSK	50	0	19.63	22.58	19.19	20.00	23.00	19.50
20	16QAM	1	1	18.58	22.75	21.85	19.00	23.00	22.00
20	64QAM	1	1	18.52	21.67	20.87	19.00	22.00	21.00
20	256QAM	1	1	18.91	19.49	18.83	20.00	19.50	19.00
Sub carrier spacing		Channel		637168	641666	646166	637168	641666	646166
30k	Hz	Frequency (MHz)		3557.52	3624.99	3692.49	3557.52	3624.99	3692.49
15	PI/2 BPSK	1	1	19.51	22.60	21.79	20.00	23.00	22.00
15	PI/2 BPSK	1	36	22.28	22.63	19.08	22.50	23.00	19.50
15	PI/2 BPSK	18	9	22.14	22.51	21.82	22.50	23.00	22.00
15	PI/2 BPSK	1	0	19.45	22.64	21.85	19.50	23.00	22.00
15	PI/2 BPSK	1	37	22.24	22.61	19.10	22.50	23.00	19.50
15	PI/2 BPSK	36	0	19.54	22.55	19.16	20.00	23.00	19.50
15	QPSK	1	1	19.50	22.58	21.87	19.50	23.00	22.00
15	QPSK	1	36	22.23	22.51	19.13	22.50	23.00	19.50
15	QPSK	18	9	22.17	22.56	21.78	22.50	23.00	22.00
15	QPSK	1	0	19.46	22.55	21.90	19.50	23.00	22.00
15	QPSK	1	37	22.26	22.52	19.16	22.50	23.00	19.50
15	QPSK	36	0	19.63	22.58	19.19	20.00	23.00	19.50
15	16QAM	1	1	18.40	22.68	21.96	18.50	23.00	22.00
15	64QAM	1	1	18.53	21.43	20.82	19.00	21.50	21.00
15	256QAM	1	1	19.02	19.42	18.74	19.50	19.50	19.00
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98



10	PI/2 BPSK	1	1	22.08	22.56	21.80	22.50	23.00	22.00
10	PI/2 BPSK	1	22	22.10	22.53	21.70	22.50	23.00	22.00
10	PI/2 BPSK	12	6	22.10	22.55	21.80	22.50	23.00	22.00
10	PI/2 BPSK	1	0	22.05	22.56	21.80	22.50	23.00	22.00
10	PI/2 BPSK	1	23	22.05	22.55	21.79	22.50	23.00	22.00
10	PI/2 BPSK	24	0	22.12	22.54	21.76	22.50	23.00	22.00
10	QPSK	1	1	22.14	22.51	21.84	22.50	23.00	22.00
10	QPSK	1	22	22.17	22.51	21.81	22.50	23.00	22.00
10	QPSK	12	6	22.11	22.55	21.83	22.50	23.00	22.00
10	QPSK	1	0	22.12	22.53	21.81	22.50	23.00	22.00
10	QPSK	1	23	22.19	22.52	21.81	22.50	23.00	22.00
10	QPSK	24	0	22.13	22.54	21.81	22.50	23.00	22.00
10	16QAM	1	1	22.17	22.52	21.80	22.50	23.00	22.00
10	64QAM	1	1	21.08	21.48	20.82	21.50	21.50	21.00
10	256QAM	1	1	19.01	19.53	18.68	19.50	20.00	19.00

<FR1 n48_Ant 6_Index 2/3>							Tune-up Limit		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Sub carrier spacing		Channel		638000	641666	645332	638000	641666	645332
30k	Hz	Frequency (MHz)		3570	3624.99	3679.98	3570	3624.99	3679.98
40	PI/2 BPSK	1	1	13.44	20.11	13.55	13.50	20.50	14.00
40	PI/2 BPSK	1	104	13.63	20.20	13.47	14.00	20.50	13.50
40	PI/2 BPSK	50	25	13.54	22.74	13.60	14.00	23.00	14.00
40	PI/2 BPSK	1	0	13.44	20.13	13.54	13.50	20.50	14.00
40	PI/2 BPSK	1	105	13.62	20.19	13.46	14.00	20.50	13.50
40	PI/2 BPSK	100	0	13.53	19.72	13.58	14.00	20.00	14.00
40	QPSK	1	1	13.54	20.17	13.53	14.00	20.50	14.00
40	QPSK	1	104	13.72	20.24	13.43	14.00	20.50	13.50
40	QPSK	50	25	13.57	22.74	13.61	14.00	23.00	14.00
40	QPSK	1	0	13.51	20.12	13.55	14.00	20.50	14.00
40	QPSK	1	105	13.71	20.25	13.40	14.00	20.50	13.50
40	QPSK	100	0	13.53	19.73	13.56	14.00	20.00	14.00
40	16QAM	1	1	12.84	20.12	13.18	13.00	20.50	13.50
40	64QAM	1	1	13.10	19.99	12.97	13.50	20.00	13.00
40	256QAM	1	1	13.05	19.61	13.14	13.50	20.00	13.50
Sub carrier spacing		Channel		637334	641666	646000	637334	641666	646000
30k	Hz	Frequency (MHz)		3560.01	3624.99	3690	3560.01	3624.99	3690
20	PI/2 BPSK	1	1	20.01	22.71	22.58	20.50	23.00	23.00
20	PI/2 BPSK	1	49	22.49	22.87	20.07	22.50	23.00	20.50
20	PI/2 BPSK	25	12	22.48	22.74	22.61	22.50	23.00	23.00
20	PI/2 BPSK	1	0	20.00	22.70	22.59	20.00	23.00	23.00
20	PI/2 BPSK	1	50	22.52	22.79	20.05	23.00	23.00	20.50
20	PI/2 BPSK	50	0	19.98	22.76	20.07	20.00	23.00	20.50
20	QPSK	1	1	20.03	22.62	22.62	20.50	23.00	23.00
20	QPSK	1	49	22.57	22.73	20.09	23.00	23.00	20.50
20	QPSK	25	12	22.49	22.72	22.62	22.50	23.00	23.00
20	QPSK	1	0	20.07	22.67	22.65	20.50	23.00	23.00
20	QPSK	1	50	22.52	22.71	20.05	23.00	23.00	20.50
20	QPSK	50	0	20.01	22.75	20.09	20.50	23.00	20.50
20	16QAM	1	1	19.14	22.69	22.49	19.50	23.00	22.50
20	64QAM	1	1	19.01	21.68	21.62	19.50	22.00	22.00
20	256QAM	1	1	19.45	19.79	19.65	19.50	20.00	20.00
Sub carrier spacing		Channel		637168	641666	646166	637168	641666	646166
30k	Hz	Frequency (MHz)		3557.52	3624.99	3692.49	3557.52	3624.99	3692.49
15	PI/2 BPSK	1	1	19.97	22.71	22.65	20.00	23.00	23.00



15	PI/2 BPSK	1	36	22.47	22.75	20.11	22.50	23.00	20.50
15	PI/2 BPSK	18	9	22.50	22.75	22.67	23.00	23.00	23.00
15	PI/2 BPSK	1	0	19.96	22.69	22.66	20.00	23.00	23.00
15	PI/2 BPSK	1	37	22.48	22.73	20.12	22.50	23.00	20.50
15	PI/2 BPSK	36	0	20.00	22.75	20.15	20.00	23.00	20.50
15	QPSK	1	1	19.98	22.71	22.68	20.00	23.00	23.00
15	QPSK	1	36	22.48	22.82	20.14	22.50	23.00	20.50
15	QPSK	18	9	22.48	22.77	22.66	22.50	23.00	23.00
15	QPSK	1	0	19.99	22.69	22.67	20.00	23.00	23.00
15	QPSK	1	37	22.48	22.78	20.13	22.50	23.00	20.50
15	QPSK	36	0	19.90	22.79	20.14	20.00	23.00	20.50
15	16QAM	1	1	19.00	22.73	22.63	19.00	23.00	23.00
15	64QAM	1	1	19.00	21.83	21.59	19.00	22.00	22.00
15	256QAM	1	1	19.48	19.62	19.59	19.50	20.00	20.00
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98
10	PI/2 BPSK	1	1	22.50	22.68	22.72	22.50	23.00	23.00
10	PI/2 BPSK	1	22	22.41	22.77	22.67	22.50	23.00	23.00
10	PI/2 BPSK	12	6	22.49	22.74	22.70	22.50	23.00	23.00
10	PI/2 BPSK	1	0	22.55	22.76	22.76	23.00	23.00	23.00
10	PI/2 BPSK	1	23	22.46	22.78	22.70	22.50	23.00	23.00
10	PI/2 BPSK	24	0	22.47	22.76	22.72	22.50	23.00	23.00
10	QPSK	1	1	22.47	22.77	22.70	22.50	23.00	23.00
10	QPSK	1	22	22.40	22.78	22.70	22.50	23.00	23.00
10	QPSK	12	6	22.41	22.73	22.72	22.50	23.00	23.00
10	QPSK	1	0	22.44	22.74	22.72	22.50	23.00	23.00
10	QPSK	1	23	22.41	22.83	22.70	22.50	23.00	23.00
10	QPSK	24	0	22.43	22.76	22.69	22.50	23.00	23.00
10	16QAM	1	1	22.61	22.83	22.76	23.00	23.00	23.00
10	64QAM	1	1	21.31	21.85	21.84	21.50	22.00	22.00
10	256QAM	1	1	19.46	19.53	19.56	19.50	20.00	20.00

<FR1 n48_Ant 6_Index 4/6>							Tune-up Limit		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Sub carrier spacing		Channel		638000	641666	645332	638000	641666	645332
30k	Hz	Frequency (MHz)		3570	3624.99	3679.98	3570	3624.99	3679.98
40	PI/2 BPSK	1	1	13.44	19.00	13.55	13.50	19.60	14.00
40	PI/2 BPSK	1	104	13.63	18.99	13.47	14.00	19.60	13.50
40	PI/2 BPSK	50	25	13.54	19.02	13.60	14.00	19.60	14.00
40	PI/2 BPSK	1	0	13.44	18.93	13.54	13.50	19.60	14.00
40	PI/2 BPSK	1	105	13.62	18.87	13.46	14.00	19.60	13.50
40	PI/2 BPSK	100	0	13.53	19.01	13.58	14.00	19.60	14.00
40	QPSK	1	1	13.54	18.87	13.53	14.00	19.60	14.00
40	QPSK	1	104	13.72	18.86	13.43	14.00	19.60	13.50
40	QPSK	50	25	13.57	18.87	13.61	14.00	19.60	14.00
40	QPSK	1	0	13.51	18.91	13.55	14.00	19.60	14.00
40	QPSK	1	105	13.71	18.83	13.40	14.00	19.60	13.50
40	QPSK	100	0	13.53	18.92	13.56	14.00	19.60	14.00
40	16QAM	1	1	12.84	18.96	13.18	13.00	19.60	13.50
40	64QAM	1	1	13.10	18.87	12.97	13.50	19.60	13.00
40	256QAM	1	1	13.05	18.93	13.14	13.50	19.60	13.50
Sub carrier spacing		Channel		637334	641666	646000	637334	641666	646000
30k	Hz	Frequency (MHz)		3560.01	3624.99	3690	3560.01	3624.99	3690
20	PI/2 BPSK	1	1	18.94	19.06	19.05	19.60	19.60	19.60
20	PI/2 BPSK	1	49	18.79	18.96	18.87	19.60	19.60	19.60



20	PI/2 BPSK	25	12	19.04	19.05	19.03	19.60	19.60	19.60
20	PI/2 BPSK	1	0	18.84	18.98	18.79	19.60	19.60	19.60
20	PI/2 BPSK	1	50	18.93	18.88	18.88	19.60	19.60	19.60
20	PI/2 BPSK	50	0	19.00	19.03	19.00	19.60	19.60	19.60
20	QPSK	1	1	18.85	18.87	18.87	19.60	19.60	19.60
20	QPSK	1	49	18.93	18.86	18.93	19.60	19.60	19.60
20	QPSK	25	12	18.97	18.88	18.89	19.60	19.60	19.60
20	QPSK	1	0	18.88	18.93	18.90	19.60	19.60	19.60
20	QPSK	1	50	18.92	18.84	18.95	19.60	19.60	19.60
20	QPSK	50	0	18.80	18.91	18.95	19.60	19.60	19.60
20	16QAM	1	1	18.81	18.81	18.84	19.50	19.60	19.60
20	64QAM	1	1	18.81	18.96	18.87	19.50	19.60	19.60
20	256QAM	1	1	18.81	18.94	18.91	19.50	19.60	19.60
Sub carrier spacing		Channel		637168	641666	646166	637168	641666	646166
30k	Hz	Frequency (MHz)		3557.52	3624.99	3692.49	3557.52	3624.99	3692.49
15	PI/2 BPSK	1	1	18.98	18.92	19.04	19.60	19.60	19.60
15	PI/2 BPSK	1	36	18.96	18.84	18.86	19.60	19.60	19.60
15	PI/2 BPSK	18	9	18.92	18.93	18.85	19.60	19.60	19.60
15	PI/2 BPSK	1	0	18.83	18.82	18.93	19.60	19.60	19.60
15	PI/2 BPSK	1	37	18.92	18.82	18.91	19.60	19.60	19.60
15	PI/2 BPSK	36	0	18.79	18.95	18.80	19.60	19.60	19.60
15	QPSK	1	1	18.80	18.99	18.99	19.60	19.60	19.60
15	QPSK	1	36	18.80	18.95	18.82	19.60	19.60	19.60
15	QPSK	18	9	18.99	18.89	18.81	19.60	19.60	19.60
15	QPSK	1	0	18.85	18.90	18.91	19.60	19.60	19.60
15	QPSK	1	37	18.97	18.96	18.85	19.60	19.60	19.60
15	QPSK	36	0	18.92	18.89	18.87	19.60	19.60	19.60
15	16QAM	1	1	18.82	18.83	18.91	19.00	19.60	19.60
15	64QAM	1	1	18.87	18.95	18.90	19.00	19.60	19.60
15	256QAM	1	1	18.80	18.98	18.99	19.50	19.60	19.60
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98
10	PI/2 BPSK	1	1	18.95	19.00	18.90	19.60	19.60	19.60
10	PI/2 BPSK	1	22	18.97	18.91	18.94	19.60	19.60	19.60
10	PI/2 BPSK	12	6	18.88	18.99	18.89	19.60	19.60	19.60
10	PI/2 BPSK	1	0	18.99	18.96	18.82	19.60	19.60	19.60
10	PI/2 BPSK	1	23	18.88	18.80	18.83	19.60	19.60	19.60
10	PI/2 BPSK	24	0	18.92	18.93	18.98	19.60	19.60	19.60
10	QPSK	1	1	18.87	18.85	18.99	19.60	19.60	19.60
10	QPSK	1	22	18.79	18.98	18.89	19.60	19.60	19.60
10	QPSK	12	6	18.86	18.82	18.93	19.60	19.60	19.60
10	QPSK	1	0	18.94	18.80	18.89	19.60	19.60	19.60
10	QPSK	1	23	18.98	18.85	18.97	19.60	19.60	19.60
10	QPSK	24	0	18.83	18.86	18.86	19.60	19.60	19.60
10	16QAM	1	1	18.86	18.79	18.93	19.60	19.60	19.60
10	64QAM	1	1	18.93	18.94	18.85	19.60	19.60	19.60
10	256QAM	1	1	18.88	18.80	18.94	19.50	19.60	19.60



<FR1 n48_Ant 6_Index 5>							Tune-up Limit		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Sub carrier spacing		Channel		638000	641666	645332	638000	641666	645332
30k	Hz	Frequency (MHz)		3570	3624.99	3679.98	3570	3624.99	3679.98
40	PI/2 BPSK	1	1	13.44	19.00	13.55	13.50	20.30	14.00
40	PI/2 BPSK	1	104	13.63	18.99	13.47	14.00	20.30	13.50
40	PI/2 BPSK	50	25	13.54	19.02	13.60	14.00	20.30	14.00
40	PI/2 BPSK	1	0	13.44	18.93	13.54	13.50	20.30	14.00
40	PI/2 BPSK	1	105	13.62	18.87	13.46	14.00	20.30	13.50
40	PI/2 BPSK	100	0	13.53	19.01	13.58	14.00	20.00	14.00
40	QPSK	1	1	13.54	18.87	13.53	14.00	20.30	14.00
40	QPSK	1	104	13.72	18.86	13.43	14.00	20.30	13.50
40	QPSK	50	25	13.57	18.87	13.61	14.00	20.30	14.00
40	QPSK	1	0	13.51	18.91	13.55	14.00	20.30	14.00
40	QPSK	1	105	13.71	18.83	13.40	14.00	20.30	13.50
40	QPSK	100	0	13.53	18.92	13.56	14.00	20.00	14.00
40	16QAM	1	1	12.84	18.96	13.18	13.00	20.30	13.50
40	64QAM	1	1	13.10	18.87	12.97	13.50	20.00	13.00
40	256QAM	1	1	13.05	18.93	13.14	13.50	20.00	13.50
Sub carrier spacing		Channel		637334	641666	646000	637334	641666	646000
30k	Hz	Frequency (MHz)		3560.01	3624.99	3690	3560.01	3624.99	3690
20	PI/2 BPSK	1	1	18.94	19.06	19.05	20.30	20.30	20.30
20	PI/2 BPSK	1	49	18.79	18.96	18.87	20.30	20.30	20.30
20	PI/2 BPSK	25	12	19.04	19.05	19.03	20.30	20.30	20.30
20	PI/2 BPSK	1	0	18.84	18.98	18.79	20.00	20.30	20.30
20	PI/2 BPSK	1	50	18.93	18.88	18.88	20.30	20.30	20.30
20	PI/2 BPSK	50	0	19.00	19.03	19.00	20.00	20.30	20.30
20	QPSK	1	1	18.85	18.87	18.87	20.30	20.30	20.30
20	QPSK	1	49	18.93	18.86	18.93	20.30	20.30	20.30
20	QPSK	25	12	18.97	18.88	18.89	20.30	20.30	20.30
20	QPSK	1	0	18.88	18.93	18.90	20.30	20.30	20.30
20	QPSK	1	50	18.92	18.84	18.95	20.30	20.30	20.30
20	QPSK	50	0	18.80	18.91	18.95	20.30	20.30	20.30
20	16QAM	1	1	18.81	18.81	18.84	19.50	20.30	20.30
20	64QAM	1	1	18.81	18.96	18.87	19.50	20.30	20.30
20	256QAM	1	1	18.81	18.94	18.91	19.50	20.00	20.00
Sub carrier spacing		Channel		637168	641666	646166	637168	641666	646166
30k	Hz	Frequency (MHz)		3557.52	3624.99	3692.49	3557.52	3624.99	3692.49
15	PI/2 BPSK	1	1	18.98	18.92	19.04	20.00	20.30	20.30
15	PI/2 BPSK	1	36	18.96	18.84	18.86	20.30	20.30	20.30
15	PI/2 BPSK	18	9	18.92	18.93	18.85	20.30	20.30	20.30
15	PI/2 BPSK	1	0	18.83	18.82	18.93	20.00	20.30	20.30
15	PI/2 BPSK	1	37	18.92	18.82	18.91	20.30	20.30	20.30
15	PI/2 BPSK	36	0	18.79	18.95	18.80	20.00	20.30	20.30
15	QPSK	1	1	18.80	18.99	18.99	20.00	20.30	20.30
15	QPSK	1	36	18.80	18.95	18.82	20.30	20.30	20.30
15	QPSK	18	9	18.99	18.89	18.81	20.30	20.30	20.30
15	QPSK	1	0	18.85	18.90	18.91	20.00	20.30	20.30
15	QPSK	1	37	18.97	18.96	18.85	20.30	20.30	20.30
15	QPSK	36	0	18.92	18.89	18.87	20.00	20.30	20.30
15	16QAM	1	1	18.82	18.83	18.91	19.00	20.30	20.30
15	64QAM	1	1	18.87	18.95	18.90	19.00	20.30	20.30
15	256QAM	1	1	18.80	18.98	18.99	19.50	20.00	20.00
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98



10	PI/2 BPSK	1	1	18.95	19.00	18.90	20.30	20.30	20.30
10	PI/2 BPSK	1	22	18.97	18.91	18.94	20.30	20.30	20.30
10	PI/2 BPSK	12	6	18.88	18.99	18.89	20.30	20.30	20.30
10	PI/2 BPSK	1	0	18.99	18.96	18.82	20.30	20.30	20.30
10	PI/2 BPSK	1	23	18.88	18.80	18.83	20.30	20.30	20.30
10	PI/2 BPSK	24	0	18.92	18.93	18.98	20.30	20.30	20.30
10	QPSK	1	1	18.87	18.85	18.99	20.30	20.30	20.30
10	QPSK	1	22	18.79	18.98	18.89	20.30	20.30	20.30
10	QPSK	12	6	18.86	18.82	18.93	20.30	20.30	20.30
10	QPSK	1	0	18.94	18.80	18.89	20.30	20.30	20.30
10	QPSK	1	23	18.98	18.85	18.97	20.30	20.30	20.30
10	QPSK	24	0	18.83	18.86	18.86	20.30	20.30	20.30
10	16QAM	1	1	18.86	18.79	18.93	20.30	20.30	20.30
10	64QAM	1	1	18.93	18.94	18.85	20.30	20.30	20.30
10	256QAM	1	1	18.88	18.80	18.94	19.50	20.00	20.00

<FR1 n48_Ant 7_Index 2/3>							Tune-up Limit		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Sub carrier spacing		Channel		638000	641666	645332	638000	641666	645332
30k	Hz	Frequency (MHz)		3570	3624.99	3679.98	3570	3624.99	3679.98
40	PI/2 BPSK	1	1	12.19	18.91	12.25	12.50	19.00	12.50
40	PI/2 BPSK	1	104	12.43	18.94	12.18	12.50	19.00	12.50
40	PI/2 BPSK	50	25	12.39	21.68	12.33	12.50	23.00	12.50
40	PI/2 BPSK	1	0	12.15	18.93	12.24	12.50	19.00	12.50
40	PI/2 BPSK	1	105	12.44	18.95	12.15	12.50	19.00	12.50
40	PI/2 BPSK	100	0	12.39	18.56	12.29	12.50	19.00	12.50
40	QPSK	1	1	12.18	18.96	12.28	12.50	19.00	12.50
40	QPSK	1	104	12.42	18.98	12.17	12.50	19.00	12.50
40	QPSK	50	25	12.40	21.69	12.30	12.50	23.00	12.50
40	QPSK	1	0	12.26	18.95	12.29	12.50	19.00	12.50
40	QPSK	1	105	12.52	18.94	12.20	13.00	19.00	12.50
40	QPSK	100	0	12.37	18.53	12.28	12.50	19.00	12.50
40	16QAM	1	1	11.57	19.21	11.76	12.00	19.50	12.00
40	64QAM	1	1	11.82	19.10	11.58	12.00	19.50	12.00
40	256QAM	1	1	11.63	18.59	11.81	12.00	19.00	12.00
Sub carrier spacing		Channel		637334	641666	646000	637334	641666	646000
30k	Hz	Frequency (MHz)		3560.01	3624.99	3690	3560.01	3624.99	3690
20	PI/2 BPSK	1	1	18.78	21.66	21.42	19.00	23.00	23.00
20	PI/2 BPSK	1	49	21.50	21.74	18.76	23.00	23.00	19.00
20	PI/2 BPSK	25	12	21.52	21.71	21.46	23.00	23.00	21.50
20	PI/2 BPSK	1	0	18.77	21.69	21.42	19.00	23.00	21.50
20	PI/2 BPSK	1	50	21.49	21.73	18.76	21.50	23.00	19.00
20	PI/2 BPSK	50	0	18.84	21.72	18.82	19.00	23.00	19.00
20	QPSK	1	1	18.83	21.66	21.39	19.00	23.00	21.50
20	QPSK	1	49	21.57	21.71	18.84	23.00	23.00	19.00
20	QPSK	25	12	21.52	21.70	21.44	23.00	23.00	21.50
20	QPSK	1	0	18.84	21.68	21.47	19.00	23.00	21.50
20	QPSK	1	50	21.55	21.72	18.79	23.00	23.00	19.00
20	QPSK	50	0	18.86	21.71	18.76	19.00	23.00	19.00
20	16QAM	1	1	17.94	21.61	21.39	18.00	23.00	21.50
20	64QAM	1	1	18.11	20.35	20.33	18.50	20.50	20.50
20	256QAM	1	1	18.51	18.52	18.21	19.00	19.00	18.50
Sub carrier spacing		Channel		637168	641666	646166	637168	641666	646166
30k	Hz	Frequency (MHz)		3557.52	3624.99	3692.49	3557.52	3624.99	3692.49
15	PI/2 BPSK	1	1	18.77	21.65	21.51	19.00	23.00	23.00



15	PI/2 BPSK	1	36	21.44	21.70	18.83	21.50	23.00	19.00
15	PI/2 BPSK	18	9	21.45	21.71	21.53	21.50	23.00	23.00
15	PI/2 BPSK	1	0	18.81	21.63	21.50	19.00	23.00	21.50
15	PI/2 BPSK	1	37	21.46	21.68	18.85	21.50	23.00	19.00
15	PI/2 BPSK	36	0	18.80	21.70	18.85	19.00	23.00	19.00
15	QPSK	1	1	18.81	21.71	21.54	19.00	23.00	23.00
15	QPSK	1	36	21.44	21.72	18.90	21.50	23.00	19.00
15	QPSK	18	9	21.48	21.72	21.48	21.50	23.00	21.50
15	QPSK	1	0	18.81	21.73	21.53	19.00	23.00	23.00
15	QPSK	1	37	21.49	21.69	18.86	21.50	23.00	19.00
15	QPSK	36	0	18.84	21.73	18.85	19.00	23.00	19.00
15	16QAM	1	1	17.58	21.96	21.49	18.00	23.00	21.50
15	64QAM	1	1	17.72	20.78	20.22	18.00	21.00	20.50
15	256QAM	1	1	18.28	18.47	18.41	18.50	18.50	18.50
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98
10	PI/2 BPSK	1	1	21.38	21.68	21.53	21.50	23.00	23.00
10	PI/2 BPSK	1	22	21.41	21.69	21.50	21.50	23.00	21.50
10	PI/2 BPSK	12	6	21.41	21.71	21.51	21.50	23.00	23.00
10	PI/2 BPSK	1	0	21.34	21.67	21.52	21.50	23.00	23.00
10	PI/2 BPSK	1	23	21.39	21.71	21.48	21.50	23.00	21.50
10	PI/2 BPSK	24	0	21.35	21.66	21.51	21.50	23.00	23.00
10	QPSK	1	1	21.44	21.67	21.55	21.50	23.00	23.00
10	QPSK	1	22	21.46	21.74	21.50	21.50	23.00	21.50
10	QPSK	12	6	21.43	21.68	21.53	21.50	23.00	23.00
10	QPSK	1	0	21.41	21.70	21.55	21.50	23.00	23.00
10	QPSK	1	23	21.42	21.65	21.54	21.50	23.00	23.00
10	QPSK	24	0	21.39	21.70	21.50	21.50	23.00	21.50
10	16QAM	1	1	21.53	21.55	21.57	22.00	23.00	23.00
10	64QAM	1	1	20.29	20.60	20.36	20.50	21.00	20.50
10	256QAM	1	1	18.17	18.72	18.24	18.50	19.00	18.50

<FR1 n48_Ant 7_Index 4/6>							Tune-up Limit		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Sub carrier spacing		Channel		638000	641666	645332	638000	641666	645332
30k	Hz	Frequency (MHz)		3570	3624.99	3679.98	3570	3624.99	3679.98
40	PI/2 BPSK	1	1	12.19	18.91	12.25	12.50	19.00	12.50
40	PI/2 BPSK	1	104	12.43	18.94	12.18	12.50	19.00	12.50
40	PI/2 BPSK	50	25	12.39	20.26	12.33	12.50	21.40	12.50
40	PI/2 BPSK	1	0	12.15	18.93	12.24	12.50	19.00	12.50
40	PI/2 BPSK	1	105	12.44	18.95	12.15	12.50	19.00	12.50
40	PI/2 BPSK	100	0	12.39	18.56	12.29	12.50	19.00	12.50
40	QPSK	1	1	12.18	18.96	12.28	12.50	19.00	12.50
40	QPSK	1	104	12.42	18.98	12.17	12.50	19.00	12.50
40	QPSK	50	25	12.40	20.11	12.30	12.50	21.40	12.50
40	QPSK	1	0	12.26	18.95	12.29	12.50	19.00	12.50
40	QPSK	1	105	12.52	18.94	12.20	13.00	19.00	12.50
40	QPSK	100	0	12.37	18.53	12.28	12.50	19.00	12.50
40	16QAM	1	1	11.57	19.21	11.76	12.00	19.50	12.00
40	64QAM	1	1	11.82	19.10	11.58	12.00	19.50	12.00
40	256QAM	1	1	11.63	18.59	11.81	12.00	19.00	12.00
Sub carrier spacing		Channel		637334	641666	646000	637334	641666	646000
30k	Hz	Frequency (MHz)		3560.01	3624.99	3690	3560.01	3624.99	3690
20	PI/2 BPSK	1	1	18.78	20.30	20.29	19.00	21.40	21.40
20	PI/2 BPSK	1	49	20.24	20.19	18.76	21.40	21.40	19.00



20	PI/2 BPSK	25	12	20.19	20.27	20.14	21.40	21.40	21.40
20	PI/2 BPSK	1	0	18.77	20.14	20.14	19.00	21.40	21.40
20	PI/2 BPSK	1	50	20.14	20.18	18.76	21.40	21.40	19.00
20	PI/2 BPSK	50	0	18.84	20.28	18.82	19.00	21.40	19.00
20	QPSK	1	1	18.83	20.12	20.11	19.00	21.40	21.40
20	QPSK	1	49	20.19	20.15	18.84	21.40	21.40	19.00
20	QPSK	25	12	20.21	20.17	20.12	21.40	21.40	21.40
20	QPSK	1	0	18.84	20.20	20.21	19.00	21.40	21.40
20	QPSK	1	50	20.15	20.15	18.79	21.40	21.40	19.00
20	QPSK	50	0	18.86	20.15	18.76	19.00	21.40	19.00
20	16QAM	1	1	17.94	20.23	20.14	18.00	21.40	21.40
20	64QAM	1	1	18.11	20.14	20.18	18.50	20.50	20.50
20	256QAM	1	1	18.51	18.52	18.21	19.00	19.00	18.50
Sub carrier spacing		Channel		637168	641666	646166	637168	641666	646166
30k	Hz	Frequency (MHz)		3557.52	3624.99	3692.49	3557.52	3624.99	3692.49
15	PI/2 BPSK	1	1	18.77	20.20	20.22	19.00	21.40	21.40
15	PI/2 BPSK	1	36	20.11	20.14	18.83	21.40	21.40	19.00
15	PI/2 BPSK	18	9	20.16	20.17	20.11	21.40	21.40	21.40
15	PI/2 BPSK	1	0	18.81	20.16	20.19	19.00	21.40	21.40
15	PI/2 BPSK	1	37	20.14	20.18	18.85	21.40	21.40	19.00
15	PI/2 BPSK	36	0	18.80	20.15	18.85	19.00	21.40	19.00
15	QPSK	1	1	18.81	20.13	20.23	19.00	21.40	21.40
15	QPSK	1	36	20.12	20.11	18.90	21.40	21.40	19.00
15	QPSK	18	9	20.18	20.11	20.19	21.40	21.40	21.40
15	QPSK	1	0	18.81	20.15	20.19	19.00	21.40	21.40
15	QPSK	1	37	20.19	20.15	18.86	21.40	21.40	19.00
15	QPSK	36	0	18.84	20.20	18.85	19.00	21.40	19.00
15	16QAM	1	1	17.58	20.18	20.14	18.00	21.40	21.40
15	64QAM	1	1	17.72	20.15	20.22	18.00	21.00	20.50
15	256QAM	1	1	18.28	18.47	18.41	18.50	18.50	18.50
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98
10	PI/2 BPSK	1	1	20.16	20.17	20.15	21.40	21.40	21.40
10	PI/2 BPSK	1	22	20.15	20.19	20.20	21.40	21.40	21.40
10	PI/2 BPSK	12	6	20.19	20.15	20.21	21.40	21.40	21.40
10	PI/2 BPSK	1	0	20.23	20.14	20.19	21.40	21.40	21.40
10	PI/2 BPSK	1	23	20.21	20.17	20.16	21.40	21.40	21.40
10	PI/2 BPSK	24	0	20.19	20.17	20.18	21.40	21.40	21.40
10	QPSK	1	1	20.21	20.15	20.16	21.40	21.40	21.40
10	QPSK	1	22	20.22	20.18	20.17	21.40	21.40	21.40
10	QPSK	12	6	20.17	20.16	20.22	21.40	21.40	21.40
10	QPSK	1	0	20.17	20.15	20.16	21.40	21.40	21.40
10	QPSK	1	23	20.18	20.18	20.22	21.40	21.40	21.40
10	QPSK	24	0	20.17	20.14	20.17	21.40	21.40	21.40
10	16QAM	1	1	20.24	20.17	20.17	21.40	21.40	21.40
10	64QAM	1	1	20.22	20.21	20.21	20.50	21.00	20.50
10	256QAM	1	1	18.17	18.72	18.24	18.50	19.00	18.50



<FR1 n48_Ant 7_Index 5>							Tune-up Limit		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Sub carrier spacing		Channel		638000	641666	645332	638000	641666	645332
30k	Hz	Frequency (MHz)		3570	3624.99	3679.98	3570	3624.99	3679.98
40	PI/2 BPSK	1	1	12.19	18.91	12.25	12.50	19.00	12.50
40	PI/2 BPSK	1	104	12.43	18.94	12.18	12.50	19.00	12.50
40	PI/2 BPSK	50	25	12.39	20.26	12.33	12.50	22.10	12.50
40	PI/2 BPSK	1	0	12.15	18.93	12.24	12.50	19.00	12.50
40	PI/2 BPSK	1	105	12.44	18.95	12.15	12.50	19.00	12.50
40	PI/2 BPSK	100	0	12.39	18.56	12.29	12.50	19.00	12.50
40	QPSK	1	1	12.18	18.96	12.28	12.50	19.00	12.50
40	QPSK	1	104	12.42	18.98	12.17	12.50	19.00	12.50
40	QPSK	50	25	12.40	20.11	12.30	12.50	22.10	12.50
40	QPSK	1	0	12.26	18.95	12.29	12.50	19.00	12.50
40	QPSK	1	105	12.52	18.94	12.20	13.00	19.00	12.50
40	QPSK	100	0	12.37	18.53	12.28	12.50	19.00	12.50
40	16QAM	1	1	11.57	19.21	11.76	12.00	19.50	12.00
40	64QAM	1	1	11.82	19.10	11.58	12.00	19.50	12.00
40	256QAM	1	1	11.63	18.59	11.81	12.00	19.00	12.00
Sub carrier spacing		Channel		637334	641666	646000	637334	641666	646000
30k	Hz	Frequency (MHz)		3560.01	3624.99	3690	3560.01	3624.99	3690
20	PI/2 BPSK	1	1	18.78	20.30	20.29	19.00	22.10	22.10
20	PI/2 BPSK	1	49	20.24	20.19	18.76	22.10	22.10	19.00
20	PI/2 BPSK	25	12	20.19	20.27	20.14	22.10	22.10	21.50
20	PI/2 BPSK	1	0	18.77	20.14	20.14	19.00	22.10	21.50
20	PI/2 BPSK	1	50	20.14	20.18	18.76	21.50	22.10	19.00
20	PI/2 BPSK	50	0	18.84	20.28	18.82	19.00	22.10	19.00
20	QPSK	1	1	18.83	20.12	20.11	19.00	22.10	21.50
20	QPSK	1	49	20.19	20.15	18.84	22.10	22.10	19.00
20	QPSK	25	12	20.21	20.17	20.12	22.10	22.10	21.50
20	QPSK	1	0	18.84	20.20	20.21	19.00	22.10	21.50
20	QPSK	1	50	20.15	20.15	18.79	22.10	22.10	19.00
20	QPSK	50	0	18.86	20.15	18.76	19.00	22.10	19.00
20	16QAM	1	1	17.94	20.23	20.14	18.00	22.10	21.50
20	64QAM	1	1	18.11	20.14	20.18	18.50	20.50	20.50
20	256QAM	1	1	18.51	18.52	18.21	19.00	19.00	18.50
Sub carrier spacing		Channel		637168	641666	646166	637168	641666	646166
30k	Hz	Frequency (MHz)		3557.52	3624.99	3692.49	3557.52	3624.99	3692.49
15	PI/2 BPSK	1	1	18.77	20.20	20.22	19.00	22.10	22.10
15	PI/2 BPSK	1	36	20.11	20.14	18.83	21.50	22.10	19.00
15	PI/2 BPSK	18	9	20.16	20.17	20.11	21.50	22.10	22.10
15	PI/2 BPSK	1	0	18.81	20.16	20.19	19.00	22.10	21.50
15	PI/2 BPSK	1	37	20.14	20.18	18.85	21.50	22.10	19.00
15	PI/2 BPSK	36	0	18.80	20.15	18.85	19.00	22.10	19.00
15	QPSK	1	1	18.81	20.13	20.23	19.00	22.10	22.10
15	QPSK	1	36	20.12	20.11	18.90	21.50	22.10	19.00
15	QPSK	18	9	20.18	20.11	20.19	21.50	22.10	21.50
15	QPSK	1	0	18.81	20.15	20.19	19.00	22.10	22.10
15	QPSK	1	37	20.19	20.15	18.86	21.50	22.10	19.00
15	QPSK	36	0	18.84	20.20	18.85	19.00	22.10	19.00
15	16QAM	1	1	17.58	20.18	20.14	18.00	22.10	21.50
15	64QAM	1	1	17.72	20.15	20.22	18.00	21.00	20.50
15	256QAM	1	1	18.28	18.47	18.41	18.50	18.50	18.50
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98



FCC SAR TEST REPORT

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10	PI/2 BPSK	1	1	20.16	20.17	20.15	21.50	22.10	22.10
10	PI/2 BPSK	1	22	20.15	20.19	20.20	21.50	22.10	21.50
10	PI/2 BPSK	12	6	20.19	20.15	20.21	21.50	22.10	22.10
10	PI/2 BPSK	1	0	20.23	20.14	20.19	21.50	22.10	22.10
10	PI/2 BPSK	1	23	20.21	20.17	20.16	21.50	22.10	21.50
10	PI/2 BPSK	24	0	20.19	20.17	20.18	21.50	22.10	22.10
10	QPSK	1	1	20.21	20.15	20.16	21.50	22.10	22.10
10	QPSK	1	22	20.22	20.18	20.17	21.50	22.10	21.50
10	QPSK	12	6	20.17	20.16	20.22	21.50	22.10	22.10
10	QPSK	1	0	20.17	20.15	20.16	21.50	22.10	22.10
10	QPSK	1	23	20.18	20.18	20.22	21.50	22.10	22.10
10	QPSK	24	0	20.17	20.14	20.17	21.50	22.10	21.50
10	16QAM	1	1	20.24	20.17	20.17	22.00	22.10	22.10
10	64QAM	1	1	20.22	20.21	20.21	20.50	21.00	20.50
10	256QAM	1	1	18.17	18.72	18.24	18.50	19.00	18.50



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	15.95	15.96	15.92	16.7
100	PI/2 BPSK	1	137	15.91	15.90	15.93	
100	PI/2 BPSK	1	271	15.92	15.88	15.86	
100	PI/2 BPSK	135	0	15.91	15.90	15.86	16.7
100	PI/2 BPSK	135	69	15.90	15.95	15.93	16.7
100	PI/2 BPSK	135	138	15.88	15.85	15.91	16.7
100	PI/2 BPSK	270	0	15.92	15.89	15.93	
100	QPSK	1	1	15.87	15.87	15.93	
100	QPSK	1	137	15.88	15.88	15.87	16.7
100	QPSK	1	271	15.86	15.94	15.90	
100	QPSK	135	0	15.95	15.87	15.88	
100	QPSK	135	69	15.90	15.86	15.89	16.7
100	QPSK	135	138	15.89	15.94	15.92	16.7
100	QPSK	270	0	15.90	15.95	15.94	
100	16QAM	1	1	15.91	15.89	15.89	
100	64QAM	1	1	15.90	15.87	15.88	16.7
100	256QAM	1	1	15.93	15.94	15.94	16.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	15.71	15.70	15.77	16.7
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	15.80	15.75	15.80	16.7
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	15.75	15.70	15.71	16.7
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	15.79	15.70	15.79	16.7
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	15.78	15.74	15.72	16.7
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	15.72	15.73	15.70	16.7
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	15.77	15.80	15.71	16.7
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	15.71	15.74	15.73	16.7
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	15.74	15.78	15.77	16.7
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	15.73	15.70	15.78	16.7
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	15.71	15.73	15.74	16.7



<FR1 n77_Ant 1_Index 3> Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	16.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	15.95	15.96	15.92	16.0
100	PI/2 BPSK	1	137	15.91	15.90	15.93	
100	PI/2 BPSK	1	271	15.92	15.88	15.86	
100	PI/2 BPSK	135	0	15.91	15.90	15.86	16.0
100	PI/2 BPSK	135	69	15.90	15.95	15.93	16.0
100	PI/2 BPSK	135	138	15.88	15.85	15.91	16.0
100	PI/2 BPSK	270	0	15.92	15.89	15.93	
100	QPSK	1	1	15.87	15.87	15.93	
100	QPSK	1	137	15.88	15.88	15.87	16.0
100	QPSK	1	271	15.86	15.94	15.90	
100	QPSK	135	0	15.95	15.87	15.88	
100	QPSK	135	69	15.90	15.86	15.89	16.0
100	QPSK	135	138	15.89	15.94	15.92	16.0
100	QPSK	270	0	15.90	15.95	15.94	
100	16QAM	1	1	15.91	15.89	15.89	
100	64QAM	1	1	15.90	15.87	15.88	16.0
100	256QAM	1	1	15.93	15.94	15.94	16.0
Channel				649668	656000	662332	16.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	15.71	15.70	15.77	16.0
Channel				649334	656000	662666	16.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	15.80	15.75	15.80	16.0
Channel				649000	656000	663000	16.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	15.75	15.70	15.71	16.0
Channel				648668	656000	663332	16.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	15.79	15.70	15.79	16.0
Channel				648334	656000	663666	16.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	15.78	15.74	15.72	16.0
Channel				648000	656000	664000	16.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	15.72	15.73	15.70	16.0
Channel				647668	656000	664332	16.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	15.77	15.80	15.71	16.0
Channel				647500	656000	664500	16.0
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	15.71	15.74	15.73	16.0
Channel				647334	656000	664666	16.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	15.74	15.78	15.77	16.0
Channel				647168	656000	664832	16.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	15.73	15.70	15.78	16.0
Channel				647000	656000	665000	16.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	15.71	15.73	15.74	16.0



<FR1 n77_Ant 1_Index 4> Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	18.92	19.05	19.00	20.0
100	PI/2 BPSK	1	137	18.86	18.96	18.87	
100	PI/2 BPSK	1	271	18.90	18.91	18.85	
100	PI/2 BPSK	135	0	18.83	18.93	18.84	20.0
100	PI/2 BPSK	135	69	18.95	18.96	18.86	20.0
100	PI/2 BPSK	135	138	18.92	18.94	18.87	20.0
100	PI/2 BPSK	270	0	18.96	18.98	18.96	
100	QPSK	1	1	18.96	18.99	18.99	20.0
100	QPSK	1	137	18.98	19.03	19.05	
100	QPSK	1	271	18.95	19.02	19.02	
100	QPSK	135	0	18.83	18.85	18.83	20.0
100	QPSK	135	69	18.85	18.92	18.83	20.0
100	QPSK	135	138	18.81	18.86	18.82	20.0
100	QPSK	270	0	18.88	18.97	18.94	
100	16QAM	1	1	18.87	18.88	18.80	20.0
100	64QAM	1	1	18.84	18.88	18.87	20.0
100	256QAM	1	1	18.81	18.86	18.84	20.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	18.85	18.93	18.85	20.0
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	18.89	18.89	18.94	20.0
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	18.86	18.89	18.92	20.0
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	18.86	18.92	18.91	20.0
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	18.95	18.88	18.85	20.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	18.88	18.85	18.86	20.0
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	18.94	18.91	18.88	20.0
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	18.92	18.94	18.91	20.0
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	18.90	18.93	18.94	20.0
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	18.89	18.90	18.86	20.0
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	18.86	18.90	18.89	20.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	18.92	19.05	19.00	20.7
100	PI/2 BPSK	1	137	18.86	18.96	18.87	
100	PI/2 BPSK	1	271	18.90	18.91	18.85	
100	PI/2 BPSK	135	0	18.83	18.93	18.84	20.7
100	PI/2 BPSK	135	69	18.95	18.96	18.86	20.7
100	PI/2 BPSK	135	138	18.92	18.94	18.87	20.7
100	PI/2 BPSK	270	0	18.96	18.98	18.96	
100	QPSK	1	1	18.96	18.99	18.99	20.7
100	QPSK	1	137	18.98	19.03	19.05	
100	QPSK	1	271	18.95	19.02	19.02	
100	QPSK	135	0	18.83	18.85	18.83	20.7
100	QPSK	135	69	18.85	18.92	18.83	20.7
100	QPSK	135	138	18.81	18.86	18.82	20.7
100	QPSK	270	0	18.88	18.97	18.94	
100	16QAM	1	1	18.87	18.88	18.80	20.7
100	64QAM	1	1	18.84	18.88	18.87	20.7
100	256QAM	1	1	18.81	18.86	18.84	20.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	18.85	18.93	18.85	20.7
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	18.89	18.89	18.94	20.7
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	18.86	18.89	18.92	20.7
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	18.86	18.92	18.91	20.7
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	18.95	18.88	18.85	20.7
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	18.88	18.85	18.86	20.7
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	18.94	18.91	18.88	20.7
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	18.92	18.94	18.91	20.7
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	18.90	18.93	18.94	20.7
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	18.89	18.90	18.86	20.7
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	18.86	18.90	18.89	20.7



<FR1 n77_Ant 1_Index 6> Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	20.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	18.92	19.05	19.00	
100	PI/2 BPSK	1	137	18.86	18.96	18.87	20.0
100	PI/2 BPSK	1	271	18.90	18.91	18.85	
100	PI/2 BPSK	135	0	18.83	18.93	18.84	20.0
100	PI/2 BPSK	135	69	18.95	18.96	18.86	20.0
100	PI/2 BPSK	135	138	18.92	18.94	18.87	20.0
100	PI/2 BPSK	270	0	18.96	18.98	18.96	
100	QPSK	1	1	18.96	18.99	18.99	20.0
100	QPSK	1	137	18.98	19.03	19.05	
100	QPSK	1	271	18.95	19.02	19.02	
100	QPSK	135	0	18.83	18.85	18.83	20.0
100	QPSK	135	69	18.85	18.92	18.83	20.0
100	QPSK	135	138	18.81	18.86	18.82	20.0
100	QPSK	270	0	18.88	18.97	18.94	
100	16QAM	1	1	18.87	18.88	18.80	20.0
100	64QAM	1	1	18.84	18.88	18.87	20.0
100	256QAM	1	1	18.81	18.86	18.84	20.0
Channel				649668	656000	662332	20.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	18.85	18.93	18.85	20.0
Channel				649334	656000	662666	20.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	18.89	18.89	18.94	20.0
Channel				649000	656000	663000	20.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	18.86	18.89	18.92	20.0
Channel				648668	656000	663332	20.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	18.86	18.92	18.91	20.0
Channel				648334	656000	663666	20.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	18.95	18.88	18.85	20.0
Channel				648000	656000	664000	20.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	18.88	18.85	18.86	20.0
Channel				647668	656000	664332	20.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	18.94	18.91	18.88	20.0
Channel				647500	656000	664500	20.0
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	18.92	18.94	18.91	20.0
Channel				647334	656000	664666	20.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	18.90	18.93	18.94	20.0
Channel				647168	656000	664832	20.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	18.89	18.90	18.86	20.0
Channel				647000	656000	665000	20.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	18.86	18.90	18.89	20.0



<FR1 n77_Ant 5_Index 2> Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	18.53	18.55	18.53	19.4
100	PI/2 BPSK	1	137	18.43	18.50	18.44	
100	PI/2 BPSK	1	271	18.50	18.51	18.51	
100	PI/2 BPSK	135	0	18.21	18.26	18.24	19.4
100	PI/2 BPSK	135	69	18.22	18.50	18.30	19.4
100	PI/2 BPSK	135	138	18.21	18.22	18.22	19.4
100	PI/2 BPSK	270	0	18.27	18.36	18.33	
100	QPSK	1	1	18.53	18.54	18.54	19.4
100	QPSK	1	137	18.39	18.46	18.37	
100	QPSK	1	271	18.43	18.47	18.42	
100	QPSK	135	0	18.23	18.26	18.20	19.4
100	QPSK	135	69	18.20	18.29	18.26	19.4
100	QPSK	135	138	18.30	18.31	18.21	19.4
100	QPSK	270	0	18.23	18.31	18.30	
100	16QAM	1	1	18.49	18.52	18.43	19.4
100	64QAM	1	1	18.43	18.43	18.37	19.4
100	256QAM	1	1	18.41	18.47	18.47	19.4
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	18.46	18.41	18.48	19.4
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	18.45	18.41	18.50	19.4
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	18.44	18.42	18.50	19.4
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	18.41	18.50	18.47	19.4
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	18.43	18.46	18.44	19.4
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	18.43	18.49	18.45	19.4
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	18.50	18.48	18.40	19.4
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	18.41	18.46	18.48	19.4
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	18.41	18.46	18.47	19.4
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	18.42	18.50	18.42	19.4
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	18.46	18.47	18.47	19.4



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	18.53	18.55	18.53	18.7
100	PI/2 BPSK	1	137	18.43	18.50	18.44	
100	PI/2 BPSK	1	271	18.50	18.51	18.51	
100	PI/2 BPSK	135	0	18.21	18.26	18.24	18.7
100	PI/2 BPSK	135	69	18.22	18.50	18.30	18.7
100	PI/2 BPSK	135	138	18.21	18.22	18.22	18.7
100	PI/2 BPSK	270	0	18.27	18.36	18.33	
100	QPSK	1	1	18.53	18.54	18.54	18.7
100	QPSK	1	137	18.39	18.46	18.37	
100	QPSK	1	271	18.43	18.47	18.42	
100	QPSK	135	0	18.23	18.26	18.20	18.7
100	QPSK	135	69	18.20	18.29	18.26	18.7
100	QPSK	135	138	18.30	18.31	18.21	18.7
100	QPSK	270	0	18.23	18.31	18.30	
100	16QAM	1	1	18.49	18.52	18.43	18.7
100	64QAM	1	1	18.43	18.43	18.37	18.7
100	256QAM	1	1	18.41	18.47	18.47	18.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	18.46	18.41	18.48	18.7
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	18.45	18.41	18.50	18.7
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	18.44	18.42	18.50	18.7
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	18.41	18.50	18.47	18.7
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	18.43	18.46	18.44	18.7
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	18.43	18.49	18.45	18.7
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	18.50	18.48	18.40	18.7
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	18.41	18.46	18.48	18.7
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	18.41	18.46	18.47	18.7
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	18.42	18.50	18.42	18.7
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	18.46	18.47	18.47	18.7



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.04	23.05	22.77	23.4
100	PI/2 BPSK	1	137	22.38	22.46	22.26	
100	PI/2 BPSK	1	271	22.64	22.74	22.49	
100	PI/2 BPSK	135	0	22.27	22.33	22.14	23.4
100	PI/2 BPSK	135	69	22.45	22.53	22.27	23.4
100	PI/2 BPSK	135	138	22.19	22.25	22.15	23.4
100	PI/2 BPSK	270	0	22.30	22.31	22.16	
100	QPSK	1	1	22.83	22.90	22.64	23.4
100	QPSK	1	137	22.47	22.53	22.24	
100	QPSK	1	271	22.75	22.83	22.57	
100	QPSK	135	0	22.40	22.40	22.44	23.4
100	QPSK	135	69	22.51	22.55	22.31	23.4
100	QPSK	135	138	22.43	22.41	22.48	23.4
100	QPSK	270	0	22.03	22.11	22.05	
100	16QAM	1	1	22.35	22.44	22.20	23.4
100	64QAM	1	1	21.40	21.41	21.21	22.5
100	256QAM	1	1	19.41	19.50	19.20	20.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.94	23.01	22.74	23.4
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.95	23.01	22.67	23.4
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.99	23.01	22.75	23.4
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.03	22.99	22.75	23.4
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.97	23.01	22.71	23.4
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.98	23.00	22.75	23.4
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.02	22.98	22.70	23.4
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.00	22.96	22.73	23.4
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.94	22.95	22.68	23.4
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.96	22.99	22.74	23.4
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.02	22.97	22.67	23.4



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.04	23.05	22.77	24.1
100	PI/2 BPSK	1	137	22.38	22.46	22.26	
100	PI/2 BPSK	1	271	22.64	22.74	22.49	
100	PI/2 BPSK	135	0	22.27	22.33	22.14	24.1
100	PI/2 BPSK	135	69	22.45	22.53	22.27	24.1
100	PI/2 BPSK	135	138	22.19	22.25	22.15	24.1
100	PI/2 BPSK	270	0	22.30	22.31	22.16	
100	QPSK	1	1	22.83	22.90	22.64	24.1
100	QPSK	1	137	22.47	22.53	22.24	
100	QPSK	1	271	22.75	22.83	22.57	
100	QPSK	135	0	22.40	22.40	22.44	24.0
100	QPSK	135	69	22.51	22.55	22.31	24.1
100	QPSK	135	138	22.43	22.41	22.48	24.0
100	QPSK	270	0	22.03	22.11	22.05	
100	16QAM	1	1	22.35	22.44	22.20	24.0
100	64QAM	1	1	21.40	21.41	21.21	22.5
100	256QAM	1	1	19.41	19.50	19.20	20.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.94	23.01	22.74	24.1
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.95	23.01	22.67	24.1
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.99	23.01	22.75	24.1
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.03	22.99	22.75	24.1
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.97	23.01	22.71	24.1
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.98	23.00	22.75	24.1
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.02	22.98	22.70	24.1
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.00	22.96	22.73	24.1
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.94	22.95	22.68	24.1
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.96	22.99	22.74	24.1
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.02	22.97	22.67	24.1



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.04	23.05	22.77	23.4
100	PI/2 BPSK	1	137	22.38	22.46	22.26	
100	PI/2 BPSK	1	271	22.64	22.74	22.49	
100	PI/2 BPSK	135	0	22.27	22.33	22.14	23.4
100	PI/2 BPSK	135	69	22.45	22.53	22.27	23.4
100	PI/2 BPSK	135	138	22.19	22.25	22.15	23.4
100	PI/2 BPSK	270	0	22.30	22.31	22.16	
100	QPSK	1	1	22.83	22.90	22.64	23.4
100	QPSK	1	137	22.47	22.53	22.24	
100	QPSK	1	271	22.75	22.83	22.57	
100	QPSK	135	0	22.40	22.40	22.44	23.4
100	QPSK	135	69	22.51	22.55	22.31	23.4
100	QPSK	135	138	22.43	22.41	22.48	23.4
100	QPSK	270	0	22.03	22.11	22.05	
100	16QAM	1	1	22.35	22.44	22.20	23.4
100	64QAM	1	1	21.40	21.41	21.21	22.5
100	256QAM	1	1	19.41	19.50	19.20	20.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.94	23.01	22.74	23.4
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.95	23.01	22.67	23.4
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.99	23.01	22.75	23.4
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.03	22.99	22.75	23.4
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.97	23.01	22.71	23.4
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.98	23.00	22.75	23.4
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.02	22.98	22.70	23.4
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.00	22.96	22.73	23.4
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.94	22.95	22.68	23.4
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.96	22.99	22.74	23.4
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.02	22.97	22.67	23.4



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.20	24.25	24.24	25.0
100	PI/2 BPSK	1	137	23.87	23.87	23.81	
100	PI/2 BPSK	1	271	24.08	24.10	24.08	
100	PI/2 BPSK	135	0	23.27	23.35	23.30	24.5
100	PI/2 BPSK	135	69	23.87	23.89	23.79	25.0
100	PI/2 BPSK	135	138	23.54	23.57	23.47	24.5
100	PI/2 BPSK	270	0	23.41	23.45	23.41	
100	QPSK	1	1	24.04	24.07	23.98	25.0
100	QPSK	1	137	23.83	23.86	23.76	
100	QPSK	1	271	24.08	24.10	24.06	
100	QPSK	135	0	22.85	22.88	22.88	24.0
100	QPSK	135	69	23.84	23.92	23.86	25.0
100	QPSK	135	138	23.03	23.08	23.05	24.0
100	QPSK	270	0	22.93	22.97	22.89	
100	16QAM	1	1	23.12	23.21	23.12	24.0
100	64QAM	1	1	21.55	21.58	21.54	22.5
100	256QAM	1	1	19.64	19.69	19.69	20.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.19	24.23	24.22	25.0
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.12	24.23	24.20	25.0
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.10	24.22	24.18	25.0
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.14	24.21	24.22	25.0
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.19	24.16	24.15	25.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.13	24.24	24.18	25.0
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.10	24.18	24.19	25.0
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.11	24.19	24.17	25.0
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.11	24.16	24.19	25.0
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.20	24.19	24.15	25.0
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.14	24.15	24.22	25.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.20	24.25	24.24	25.0
100	PI/2 BPSK	1	137	23.87	23.87	23.81	
100	PI/2 BPSK	1	271	24.08	24.10	24.08	
100	PI/2 BPSK	135	0	23.27	23.35	23.30	24.5
100	PI/2 BPSK	135	69	23.87	23.89	23.79	25.0
100	PI/2 BPSK	135	138	23.54	23.57	23.47	24.5
100	PI/2 BPSK	270	0	23.41	23.45	23.41	
100	QPSK	1	1	24.04	24.07	23.98	25.0
100	QPSK	1	137	23.83	23.86	23.76	
100	QPSK	1	271	24.08	24.10	24.06	
100	QPSK	135	0	22.85	22.88	22.88	24.0
100	QPSK	135	69	23.84	23.92	23.86	25.0
100	QPSK	135	138	23.03	23.08	23.05	24.0
100	QPSK	270	0	22.93	22.97	22.89	
100	16QAM	1	1	23.12	23.21	23.12	24.0
100	64QAM	1	1	21.55	21.58	21.54	22.5
100	256QAM	1	1	19.64	19.69	19.69	20.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.19	24.23	24.22	25.0
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.12	24.23	24.20	25.0
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.10	24.22	24.18	25.0
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.14	24.21	24.22	25.0
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.19	24.16	24.15	25.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.13	24.24	24.18	25.0
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.10	24.18	24.19	25.0
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.11	24.19	24.17	25.0
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.11	24.16	24.19	25.0
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.20	24.19	24.15	25.0
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.14	24.15	24.22	25.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.09	19.10	19.05	19.4
100	PI/2 BPSK	1	137	18.91	19.01	18.98	
100	PI/2 BPSK	1	271	18.96	19.03	19.03	
100	PI/2 BPSK	135	0	19.03	19.03	18.96	19.4
100	PI/2 BPSK	135	69	19.26	19.27	19.18	19.4
100	PI/2 BPSK	135	138	19.09	19.11	19.08	19.4
100	PI/2 BPSK	270	0	19.18	19.19	19.09	
100	QPSK	1	1	19.02	19.02	18.98	19.4
100	QPSK	1	137	18.87	18.95	18.92	
100	QPSK	1	271	18.94	18.94	18.86	
100	QPSK	135	0	18.93	18.99	18.98	19.4
100	QPSK	135	69	19.12	19.21	19.15	19.4
100	QPSK	135	138	19.02	19.06	19.03	19.4
100	QPSK	270	0	19.05	19.15	19.07	
100	16QAM	1	1	18.95	19.02	19.02	19.4
100	64QAM	1	1	18.95	18.95	18.85	19.4
100	256QAM	1	1	18.46	18.51	18.51	19.4
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.22	19.10	19.15	19.4
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	19.17	19.14	19.18	19.4
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	19.19	19.13	19.14	19.4
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	19.17	19.17	19.18	19.4
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	19.21	19.20	19.16	19.4
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	19.23	19.21	19.18	19.4
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.21	19.17	19.17	19.4
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	19.19	19.13	19.15	19.4
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.22	19.18	19.09	19.4
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.14	19.18	19.10	19.4
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	19.23	19.20	19.12	19.4



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.09	19.10	19.05	20.1
100	PI/2 BPSK	1	137	18.91	19.01	18.98	
100	PI/2 BPSK	1	271	18.96	19.03	19.03	
100	PI/2 BPSK	135	0	19.03	19.03	18.96	20.1
100	PI/2 BPSK	135	69	19.26	19.27	19.18	20.1
100	PI/2 BPSK	135	138	19.09	19.11	19.08	20.1
100	PI/2 BPSK	270	0	19.18	19.19	19.09	
100	QPSK	1	1	19.02	19.02	18.98	20.1
100	QPSK	1	137	18.87	18.95	18.92	
100	QPSK	1	271	18.94	18.94	18.86	
100	QPSK	135	0	18.93	18.99	18.98	20.1
100	QPSK	135	69	19.12	19.21	19.15	20.1
100	QPSK	135	138	19.02	19.06	19.03	20.1
100	QPSK	270	0	19.05	19.15	19.07	
100	16QAM	1	1	18.95	19.02	19.02	20.1
100	64QAM	1	1	18.95	18.95	18.85	20.1
100	256QAM	1	1	18.46	18.51	18.51	20.1
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.22	19.10	19.15	20.1
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	19.17	19.14	19.18	20.1
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	19.19	19.13	19.14	20.1
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	19.17	19.17	19.18	20.1
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	19.21	19.20	19.16	20.1
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	19.23	19.21	19.18	20.1
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.21	19.17	19.17	20.1
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	19.19	19.13	19.15	20.1
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.22	19.18	19.09	20.1
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.14	19.18	19.10	20.1
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	19.23	19.20	19.12	20.1



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	19.4
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.09	19.10	19.05	
100	PI/2 BPSK	1	137	18.91	19.01	18.98	19.4
100	PI/2 BPSK	1	271	18.96	19.03	19.03	
100	PI/2 BPSK	135	0	19.03	19.03	18.96	19.4
100	PI/2 BPSK	135	69	19.26	19.27	19.18	19.4
100	PI/2 BPSK	135	138	19.09	19.11	19.08	19.4
100	PI/2 BPSK	270	0	19.18	19.19	19.09	
100	QPSK	1	1	19.02	19.02	18.98	19.4
100	QPSK	1	137	18.87	18.95	18.92	
100	QPSK	1	271	18.94	18.94	18.86	
100	QPSK	135	0	18.93	18.99	18.98	19.4
100	QPSK	135	69	19.12	19.21	19.15	19.4
100	QPSK	135	138	19.02	19.06	19.03	19.4
100	QPSK	270	0	19.05	19.15	19.07	
100	16QAM	1	1	18.95	19.02	19.02	19.4
100	64QAM	1	1	18.95	18.95	18.85	19.4
100	256QAM	1	1	18.46	18.51	18.51	19.4
Channel				649668	656000	662332	19.4
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.22	19.10	19.15	19.4
Channel				649334	656000	662666	19.4
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	19.17	19.14	19.18	19.4
Channel				649000	656000	663000	19.4
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	19.19	19.13	19.14	19.4
Channel				648668	656000	663332	19.4
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	19.17	19.17	19.18	19.4
Channel				648334	656000	663666	19.4
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	19.21	19.20	19.16	19.4
Channel				648000	656000	664000	19.4
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	19.23	19.21	19.18	19.4
Channel				647668	656000	664332	19.4
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.21	19.17	19.17	19.4
Channel				647500	656000	664500	19.4
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	19.19	19.13	19.15	19.4
Channel				647334	656000	664666	19.4
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.22	19.18	19.09	19.4
Channel				647168	656000	664832	19.4
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.14	19.18	19.10	19.4
Channel				647000	656000	665000	19.4
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	19.23	19.20	19.12	19.4



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.22	23.36	23.13	24.4
100	PI/2 BPSK	1	137	23.54	23.62	23.16	
100	PI/2 BPSK	1	271	23.40	23.23	23.08	
100	PI/2 BPSK	135	0	22.86	22.99	22.60	23.9
100	PI/2 BPSK	135	69	23.43	23.57	23.07	24.4
100	PI/2 BPSK	135	138	22.90	22.93	22.58	23.9
100	PI/2 BPSK	270	0	22.88	22.97	22.56	
100	QPSK	1	1	23.28	23.35	23.16	24.4
100	QPSK	1	137	23.46	23.61	23.11	
100	QPSK	1	271	23.35	23.20	23.04	
100	QPSK	135	0	22.36	22.43	22.12	23.4
100	QPSK	135	69	23.40	23.55	23.10	24.4
100	QPSK	135	138	22.37	22.43	22.02	23.4
100	QPSK	270	0	22.37	22.48	22.07	
100	16QAM	1	1	22.25	22.36	22.16	23.4
100	64QAM	1	1	20.80	20.90	20.68	21.9
100	256QAM	1	1	18.96	19.07	18.92	19.9
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	23.45	23.55	23.08	24.4
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	23.44	23.54	23.11	24.4
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.49	23.52	23.09	24.4
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.47	23.55	23.11	24.4
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.47	23.57	23.08	24.4
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	23.48	23.57	23.07	24.4
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.47	23.53	23.07	24.4
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.48	23.52	23.06	24.4
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	23.47	23.54	23.08	24.4
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	23.44	23.52	23.06	24.4
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.49	23.56	23.07	24.4



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.22	23.36	23.13	24.4
100	PI/2 BPSK	1	137	23.54	23.62	23.16	
100	PI/2 BPSK	1	271	23.40	23.23	23.08	
100	PI/2 BPSK	135	0	22.86	22.99	22.60	23.9
100	PI/2 BPSK	135	69	23.43	23.57	23.07	24.4
100	PI/2 BPSK	135	138	22.90	22.93	22.58	23.9
100	PI/2 BPSK	270	0	22.88	22.97	22.56	
100	QPSK	1	1	23.28	23.35	23.16	24.4
100	QPSK	1	137	23.46	23.61	23.11	
100	QPSK	1	271	23.35	23.20	23.04	
100	QPSK	135	0	22.36	22.43	22.12	23.4
100	QPSK	135	69	23.40	23.55	23.10	24.4
100	QPSK	135	138	22.37	22.43	22.02	23.4
100	QPSK	270	0	22.37	22.48	22.07	
100	16QAM	1	1	22.25	22.36	22.16	23.4
100	64QAM	1	1	20.80	20.90	20.68	21.9
100	256QAM	1	1	18.96	19.07	18.92	19.9
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	23.45	23.55	23.08	24.4
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	23.44	23.54	23.11	24.4
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.49	23.52	23.09	24.4
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.47	23.55	23.11	24.4
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.47	23.57	23.08	24.4
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	23.48	23.57	23.07	24.4
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.47	23.53	23.07	24.4
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.48	23.52	23.06	24.4
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	23.47	23.54	23.08	24.4
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	23.44	23.52	23.06	24.4
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.49	23.56	23.07	24.4



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	20.05	20.13	20.09	21.0
100	PI/2 BPSK	1	137	20.06	20.12	20.02	
100	PI/2 BPSK	1	271	20.10	20.10	20.01	
100	PI/2 BPSK	135	0	20.18	20.19	20.18	21.0
100	PI/2 BPSK	135	69	20.22	20.28	20.18	21.0
100	PI/2 BPSK	135	138	20.21	20.21	20.16	21.0
100	PI/2 BPSK	270	0	20.18	20.18	20.16	
100	QPSK	1	1	20.05	20.05	19.97	21.0
100	QPSK	1	137	20.00	20.07	19.97	
100	QPSK	1	271	19.96	20.03	19.93	
100	QPSK	135	0	20.16	20.19	20.18	21.0
100	QPSK	135	69	20.13	20.20	20.13	21.0
100	QPSK	135	138	20.10	20.13	20.03	21.0
100	QPSK	270	0	20.06	20.10	20.06	
100	16QAM	1	1	19.96	20.02	19.95	21.0
100	64QAM	1	1	19.98	20.06	20.06	21.0
100	256QAM	1	1	19.09	19.10	19.07	19.9
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	20.12	20.14	20.15	21.0
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	20.09	20.17	20.12	21.0
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	20.09	20.09	20.17	21.0
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	20.15	20.09	20.16	21.0
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	20.16	20.14	20.11	21.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	20.12	20.11	20.09	21.0
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	20.15	20.16	20.13	21.0
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	20.18	20.17	20.13	21.0
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	20.17	20.14	20.14	21.0
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	20.16	20.14	20.16	21.0
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	20.08	20.15	20.12	21.0



<FR1 n77_Ant 7_Index 5> Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	20.05	20.13	20.09	21.7
100	PI/2 BPSK	1	137	20.06	20.12	20.02	
100	PI/2 BPSK	1	271	20.10	20.10	20.01	
100	PI/2 BPSK	135	0	20.18	20.19	20.18	21.7
100	PI/2 BPSK	135	69	20.22	20.28	20.18	21.7
100	PI/2 BPSK	135	138	20.21	20.21	20.16	21.7
100	PI/2 BPSK	270	0	20.18	20.18	20.16	
100	QPSK	1	1	20.05	20.05	19.97	21.7
100	QPSK	1	137	20.00	20.07	19.97	
100	QPSK	1	271	19.96	20.03	19.93	
100	QPSK	135	0	20.16	20.19	20.18	21.7
100	QPSK	135	69	20.13	20.20	20.13	21.7
100	QPSK	135	138	20.10	20.13	20.03	21.7
100	QPSK	270	0	20.06	20.10	20.06	
100	16QAM	1	1	19.96	20.02	19.95	21.7
100	64QAM	1	1	19.98	20.06	20.06	21.7
100	256QAM	1	1	19.09	19.10	19.07	19.9
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	20.12	20.14	20.15	21.7
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	20.09	20.17	20.12	21.7
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	20.09	20.09	20.17	21.7
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	20.15	20.09	20.16	21.7
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	20.16	20.14	20.11	21.7
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	20.12	20.11	20.09	21.7
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	20.15	20.16	20.13	21.7
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	20.18	20.17	20.13	21.7
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	20.17	20.14	20.14	21.7
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	20.16	20.14	20.16	21.7
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	20.08	20.15	20.12	21.7



<FR1 n77_Ant 7_Index 6> Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	20.05	20.13	20.09	21.0
100	PI/2 BPSK	1	137	20.06	20.12	20.02	
100	PI/2 BPSK	1	271	20.10	20.10	20.01	
100	PI/2 BPSK	135	0	20.18	20.19	20.18	21.0
100	PI/2 BPSK	135	69	20.22	20.28	20.18	21.0
100	PI/2 BPSK	135	138	20.21	20.21	20.16	21.0
100	PI/2 BPSK	270	0	20.18	20.18	20.16	
100	QPSK	1	1	20.05	20.05	19.97	21.0
100	QPSK	1	137	20.00	20.07	19.97	
100	QPSK	1	271	19.96	20.03	19.93	
100	QPSK	135	0	20.16	20.19	20.18	21.0
100	QPSK	135	69	20.13	20.20	20.13	21.0
100	QPSK	135	138	20.10	20.13	20.03	21.0
100	QPSK	270	0	20.06	20.10	20.06	
100	16QAM	1	1	19.96	20.02	19.95	21.0
100	64QAM	1	1	19.98	20.06	20.06	21.0
100	256QAM	1	1	19.09	19.10	19.07	19.9
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	20.12	20.14	20.15	21.0
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	20.09	20.17	20.12	21.0
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	20.09	20.09	20.17	21.0
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	20.15	20.09	20.16	21.0
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	20.16	20.14	20.11	21.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	20.12	20.11	20.09	21.0
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	20.15	20.16	20.13	21.0
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	20.18	20.17	20.13	21.0
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	20.17	20.14	20.14	21.0
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	20.16	20.14	20.16	21.0
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	20.08	20.15	20.12	21.0



<FR1 n77_HPUE_Ant 1_Index 2> Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	18.93	18.96	18.86	19.9
100	PI/2 BPSK	1	137	18.66	18.71	18.66	
100	PI/2 BPSK	1	271	18.53	18.62	18.62	
100	PI/2 BPSK	135	0	18.55	18.62	18.52	19.9
100	PI/2 BPSK	135	69	18.66	18.74	18.68	19.9
100	PI/2 BPSK	135	138	18.67	18.70	18.61	19.9
100	PI/2 BPSK	270	0	18.62	18.72	18.69	
100	QPSK	1	1	18.87	18.93	18.85	19.9
100	QPSK	1	137	18.66	18.71	18.71	
100	QPSK	1	271	18.55	18.56	18.55	
100	QPSK	135	0	18.53	18.53	18.46	19.9
100	QPSK	135	69	18.59	18.64	18.64	19.9
100	QPSK	135	138	18.53	18.60	18.51	19.9
100	QPSK	270	0	18.55	18.65	18.59	
100	16QAM	1	1	18.70	18.74	18.66	19.9
100	64QAM	1	1	18.64	18.67	18.65	19.9
100	256QAM	1	1	18.59	18.67	18.64	19.9
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	18.83	18.86	18.91	19.9
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	18.92	18.83	18.84	19.9
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	18.92	18.89	18.88	19.9
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	18.88	18.85	18.92	19.9
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	18.86	18.88	18.92	19.9
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	18.86	18.86	18.87	19.9
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	18.93	18.91	18.85	19.9
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	18.83	18.84	18.93	19.9
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	18.88	18.87	18.91	19.9
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	18.92	18.89	18.90	19.9
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	18.89	18.92	18.88	19.9



<FR1 n77_HPUE_Ant 1_Index 3> Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	18.93	18.96	18.86	19.2
100	PI/2 BPSK	1	137	18.66	18.71	18.66	
100	PI/2 BPSK	1	271	18.53	18.62	18.62	
100	PI/2 BPSK	135	0	18.55	18.62	18.52	19.2
100	PI/2 BPSK	135	69	18.66	18.74	18.68	19.2
100	PI/2 BPSK	135	138	18.67	18.70	18.61	19.2
100	PI/2 BPSK	270	0	18.62	18.72	18.69	
100	QPSK	1	1	18.87	18.93	18.85	19.2
100	QPSK	1	137	18.66	18.71	18.71	
100	QPSK	1	271	18.55	18.56	18.55	
100	QPSK	135	0	18.53	18.53	18.46	19.2
100	QPSK	135	69	18.59	18.64	18.64	19.2
100	QPSK	135	138	18.53	18.60	18.51	19.2
100	QPSK	270	0	18.55	18.65	18.59	
100	16QAM	1	1	18.70	18.74	18.66	19.2
100	64QAM	1	1	18.64	18.67	18.65	19.2
100	256QAM	1	1	18.59	18.67	18.64	19.2
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	18.83	18.86	18.91	19.2
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	18.92	18.83	18.84	19.2
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	18.92	18.89	18.88	19.2
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	18.88	18.85	18.92	19.2
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	18.86	18.88	18.92	19.2
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	18.86	18.86	18.87	19.2
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	18.93	18.91	18.85	19.2
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	18.83	18.84	18.93	19.2
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	18.88	18.87	18.91	19.2
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	18.92	18.89	18.90	19.2
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	18.89	18.92	18.88	19.2



<FR1 n77_HPUE_Ant 1_Index 4> Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.05	22.06	22.03	23.2
100	PI/2 BPSK	1	137	21.96	21.97	21.93	
100	PI/2 BPSK	1	271	21.95	21.95	21.96	
100	PI/2 BPSK	135	0	21.96	22.00	21.92	23.2
100	PI/2 BPSK	135	69	21.97	21.91	21.93	23.2
100	PI/2 BPSK	135	138	21.90	21.90	21.98	23.2
100	PI/2 BPSK	270	0	21.92	21.93	21.91	
100	QPSK	1	1	21.92	21.96	21.96	23.2
100	QPSK	1	137	21.96	21.92	21.99	
100	QPSK	1	271	21.91	21.99	21.99	
100	QPSK	135	0	22.01	22.00	22.05	23.2
100	QPSK	135	69	21.98	21.92	21.94	23.2
100	QPSK	135	138	22.00	22.00	22.00	23.2
100	QPSK	270	0	21.96	21.94	21.91	
100	16QAM	1	1	21.92	22.00	21.90	23.2
100	64QAM	1	1	22.05	22.03	22.00	23.2
100	256QAM	1	1	20.68	20.70	20.64	21.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.04	22.01	21.98	23.2
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.97	21.96	21.97	23.2
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.04	22.03	21.95	23.2
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.96	22.01	21.96	23.2
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.04	22.01	21.97	23.2
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.00	21.98	21.97	23.2
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.01	21.98	22.01	23.2
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.04	22.00	22.03	23.2
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.02	21.98	22.00	23.2
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.02	22.03	22.01	23.2
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.99	22.04	22.03	23.2



<FR1 n77_HPUE_Ant 1_Index 5> Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.05	22.06	22.03	23.9
100	PI/2 BPSK	1	137	21.96	21.97	21.93	
100	PI/2 BPSK	1	271	21.95	21.95	21.96	
100	PI/2 BPSK	135	0	21.96	22.00	21.92	23.9
100	PI/2 BPSK	135	69	21.97	21.91	21.93	23.9
100	PI/2 BPSK	135	138	21.90	21.90	21.98	23.9
100	PI/2 BPSK	270	0	21.92	21.93	21.91	
100	QPSK	1	1	21.92	21.96	21.96	23.9
100	QPSK	1	137	21.96	21.92	21.99	
100	QPSK	1	271	21.91	21.99	21.99	
100	QPSK	135	0	22.01	22.00	22.05	23.9
100	QPSK	135	69	21.98	21.92	21.94	23.9
100	QPSK	135	138	22.00	22.00	22.00	23.9
100	QPSK	270	0	21.96	21.94	21.91	
100	16QAM	1	1	21.92	22.00	21.90	23.9
100	64QAM	1	1	22.05	22.03	22.00	23.7
100	256QAM	1	1	20.68	20.70	20.64	21.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.04	22.01	21.98	23.9
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.97	21.96	21.97	23.9
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.04	22.03	21.95	23.9
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.96	22.01	21.96	23.9
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.04	22.01	21.97	23.9
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.00	21.98	21.97	23.9
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.01	21.98	22.01	23.9
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.04	22.00	22.03	23.9
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.02	21.98	22.00	23.9
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.02	22.03	22.01	23.9
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.99	22.04	22.03	23.9



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.05	22.06	22.03	23.2
100	PI/2 BPSK	1	137	21.96	21.97	21.93	
100	PI/2 BPSK	1	271	21.95	21.95	21.96	
100	PI/2 BPSK	135	0	21.96	22.00	21.92	23.2
100	PI/2 BPSK	135	69	21.97	21.91	21.93	23.2
100	PI/2 BPSK	135	138	21.90	21.90	21.98	23.2
100	PI/2 BPSK	270	0	21.92	21.93	21.91	
100	QPSK	1	1	21.92	21.96	21.96	23.2
100	QPSK	1	137	21.96	21.92	21.99	
100	QPSK	1	271	21.91	21.99	21.99	
100	QPSK	135	0	22.01	22.00	22.05	23.2
100	QPSK	135	69	21.98	21.92	21.94	23.2
100	QPSK	135	138	22.00	22.00	22.00	23.2
100	QPSK	270	0	21.96	21.94	21.91	
100	16QAM	1	1	21.92	22.00	21.90	23.2
100	64QAM	1	1	22.05	22.03	22.00	23.2
100	256QAM	1	1	20.68	20.70	20.64	21.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.04	22.01	21.98	23.2
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.97	21.96	21.97	23.2
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.04	22.03	21.95	23.2
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.96	22.01	21.96	23.2
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.04	22.01	21.97	23.2
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.00	21.98	21.97	23.2
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.01	21.98	22.01	23.2
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.04	22.00	22.03	23.2
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.02	21.98	22.00	23.2
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.02	22.03	22.01	23.2
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.99	22.04	22.03	23.2



<FR1 n77_HPUE_Ant 5_Index 2> Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	21.49	21.57	21.49	22.6
100	PI/2 BPSK	1	137	21.41	21.47	21.42	
100	PI/2 BPSK	1	271	21.54	21.55	21.47	
100	PI/2 BPSK	135	0	21.47	21.48	21.42	22.6
100	PI/2 BPSK	135	69	21.45	21.49	21.41	22.6
100	PI/2 BPSK	135	138	21.44	21.48	21.41	22.6
100	PI/2 BPSK	270	0	21.48	21.53	21.43	
100	QPSK	1	1	21.43	21.51	21.42	22.6
100	QPSK	1	137	21.46	21.51	21.48	
100	QPSK	1	271	21.40	21.49	21.49	
100	QPSK	135	0	21.40	21.40	21.42	22.6
100	QPSK	135	69	21.45	21.44	21.40	22.6
100	QPSK	135	138	21.40	21.41	21.43	22.6
100	QPSK	270	0	21.42	21.46	21.42	
100	16QAM	1	1	21.43	21.43	21.43	22.6
100	64QAM	1	1	21.44	21.46	21.44	22.6
100	256QAM	1	1	20.35	20.41	20.31	21.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.46	21.49	21.46	22.6
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.54	21.50	21.49	22.6
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	21.46	21.54	21.45	22.6
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.47	21.52	21.55	22.6
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.47	21.50	21.53	22.6
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.49	21.48	21.49	22.6
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	21.51	21.54	21.49	22.6
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	21.54	21.47	21.55	22.6
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	21.55	21.53	21.46	22.6
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.47	21.51	21.54	22.6
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.49	21.55	21.55	22.6



<FR1 n77_HPUE_Ant 5_Index 3> Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	21.49	21.57	21.49	21.9
100	PI/2 BPSK	1	137	21.41	21.47	21.42	
100	PI/2 BPSK	1	271	21.54	21.55	21.47	
100	PI/2 BPSK	135	0	21.47	21.48	21.42	21.9
100	PI/2 BPSK	135	69	21.45	21.49	21.41	21.9
100	PI/2 BPSK	135	138	21.44	21.48	21.41	21.9
100	PI/2 BPSK	270	0	21.48	21.53	21.43	
100	QPSK	1	1	21.43	21.51	21.42	21.9
100	QPSK	1	137	21.46	21.51	21.48	
100	QPSK	1	271	21.40	21.49	21.49	
100	QPSK	135	0	21.40	21.40	21.42	21.9
100	QPSK	135	69	21.45	21.44	21.40	21.9
100	QPSK	135	138	21.40	21.41	21.43	21.9
100	QPSK	270	0	21.42	21.46	21.42	
100	16QAM	1	1	21.43	21.43	21.43	21.9
100	64QAM	1	1	21.44	21.46	21.44	21.9
100	256QAM	1	1	20.35	20.41	20.31	21.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.46	21.49	21.46	21.9
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.54	21.50	21.49	21.9
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	21.46	21.54	21.45	21.9
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.47	21.52	21.55	21.9
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.47	21.50	21.53	21.9
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.49	21.48	21.49	21.9
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	21.51	21.54	21.49	21.9
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	21.54	21.47	21.55	21.9
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	21.55	21.53	21.46	21.9
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.47	21.51	21.54	21.9
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.49	21.55	21.55	21.9



<FR1 n77_HPUE_Ant 5_Index 4> Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.94	24.95	24.88	26.2
100	PI/2 BPSK	1	137	24.57	24.57	24.47	
100	PI/2 BPSK	1	271	24.85	24.88	24.80	
100	PI/2 BPSK	135	0	24.25	24.25	24.16	25.7
100	PI/2 BPSK	135	69	24.58	24.63	24.60	26.2
100	PI/2 BPSK	135	138	24.10	24.16	24.15	25.7
100	PI/2 BPSK	270	0	24.10	24.20	24.10	
100	QPSK	1	1	24.76	24.86	24.80	26.2
100	QPSK	1	137	24.63	24.64	24.60	
100	QPSK	1	271	24.81	24.84	24.76	
100	QPSK	135	0	24.07	24.06	24.00	25.2
100	QPSK	135	69	24.55	24.65	24.61	26.2
100	QPSK	135	138	24.06	24.07	24.03	25.2
100	QPSK	270	0	23.66	23.71	23.69	
100	16QAM	1	1	24.07	24.10	24.10	25.2
100	64QAM	1	1	22.39	22.45	22.41	23.7
100	256QAM	1	1	20.51	20.52	20.50	21.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.91	24.91	24.86	26.2
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.93	24.94	24.86	26.2
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.87	24.85	24.85	26.2
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.93	24.94	24.79	26.2
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.84	24.86	24.79	26.2
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.86	24.91	24.82	26.2
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.94	24.92	24.82	26.2
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.88	24.93	24.81	26.2
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.94	24.90	24.85	26.2
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.85	24.90	24.85	26.2
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.86	24.85	24.82	26.2



<FR1 n77_HPUE_Ant 5_Index 5> Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.94	24.95	24.88	26.2
100	PI/2 BPSK	1	137	24.57	24.57	24.47	
100	PI/2 BPSK	1	271	24.85	24.88	24.80	
100	PI/2 BPSK	135	0	24.25	24.25	24.16	25.7
100	PI/2 BPSK	135	69	24.58	24.63	24.60	26.2
100	PI/2 BPSK	135	138	24.10	24.16	24.15	25.7
100	PI/2 BPSK	270	0	24.10	24.20	24.10	
100	QPSK	1	1	24.76	24.86	24.80	26.2
100	QPSK	1	137	24.63	24.64	24.60	
100	QPSK	1	271	24.81	24.84	24.76	
100	QPSK	135	0	24.07	24.06	24.00	25.2
100	QPSK	135	69	24.55	24.65	24.61	26.2
100	QPSK	135	138	24.06	24.07	24.03	25.2
100	QPSK	270	0	23.66	23.71	23.69	
100	16QAM	1	1	24.07	24.10	24.10	25.2
100	64QAM	1	1	22.39	22.45	22.41	23.7
100	256QAM	1	1	20.51	20.52	20.50	21.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.91	24.91	24.86	26.2
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.93	24.94	24.86	26.2
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.87	24.85	24.85	26.2
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.93	24.94	24.79	26.2
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.84	24.86	24.79	26.2
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.86	24.91	24.82	26.2
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.94	24.92	24.82	26.2
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.88	24.93	24.81	26.2
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.94	24.90	24.85	26.2
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.85	24.90	24.85	26.2
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.86	24.85	24.82	26.2



<FR1 n77_HPUE_Ant 5_Index 6> Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.94	24.95	24.88	26.2
100	PI/2 BPSK	1	137	24.57	24.57	24.47	
100	PI/2 BPSK	1	271	24.85	24.88	24.80	
100	PI/2 BPSK	135	0	24.25	24.25	24.16	25.7
100	PI/2 BPSK	135	69	24.58	24.63	24.60	26.2
100	PI/2 BPSK	135	138	24.10	24.16	24.15	25.7
100	PI/2 BPSK	270	0	24.10	24.20	24.10	
100	QPSK	1	1	24.76	24.86	24.80	26.2
100	QPSK	1	137	24.63	24.64	24.60	
100	QPSK	1	271	24.81	24.84	24.76	
100	QPSK	135	0	24.07	24.06	24.00	25.2
100	QPSK	135	69	24.55	24.65	24.61	26.2
100	QPSK	135	138	24.06	24.07	24.03	25.2
100	QPSK	270	0	23.66	23.71	23.69	
100	16QAM	1	1	24.07	24.10	24.10	25.2
100	64QAM	1	1	22.39	22.45	22.41	23.7
100	256QAM	1	1	20.51	20.52	20.50	21.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.91	24.91	24.86	26.2
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.93	24.94	24.86	26.2
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.87	24.85	24.85	26.2
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.93	24.94	24.79	26.2
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.84	24.86	24.79	26.2
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.86	24.91	24.82	26.2
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.94	24.92	24.82	26.2
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.88	24.93	24.81	26.2
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.94	24.90	24.85	26.2
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.85	24.90	24.85	26.2
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.86	24.85	24.82	26.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	26.30	26.32	26.30	27.1
100	PI/2 BPSK	1	137	25.97	25.98	25.98	
100	PI/2 BPSK	1	271	26.31	26.30	26.29	
100	PI/2 BPSK	135	0	25.48	25.51	25.46	26.6
100	PI/2 BPSK	135	69	25.92	26.02	25.92	27.1
100	PI/2 BPSK	135	138	25.69	25.70	25.62	26.6
100	PI/2 BPSK	270	0	25.48	25.58	25.56	
100	QPSK	1	1	26.20	26.28	26.27	27.1
100	QPSK	1	137	26.00	26.00	26.00	
100	QPSK	1	271	26.30	26.30	26.29	
100	QPSK	135	0	24.92	24.99	24.93	26.1
100	QPSK	135	69	25.97	26.04	25.97	27.1
100	QPSK	135	138	25.18	25.20	25.18	26.1
100	QPSK	270	0	25.05	25.08	25.01	
100	16QAM	1	1	25.22	25.32	25.28	26.1
100	64QAM	1	1	23.64	23.69	23.62	24.6
100	256QAM	1	1	21.76	21.77	21.75	22.6
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	26.27	26.25	26.23	27.1
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	26.31	26.21	26.29	27.1
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	26.29	26.26	26.21	27.1
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	26.29	26.28	26.29	27.1
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	26.29	26.25	26.29	27.1
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	26.20	26.23	26.22	27.1
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	26.20	26.22	26.19	27.1
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	26.28	26.25	26.26	27.1
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	26.31	26.25	26.21	27.1
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	26.27	26.23	26.25	27.1
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	26.28	26.21	26.23	27.1



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	26.30	26.32	26.30	27.1
100	PI/2 BPSK	1	137	25.97	25.98	25.98	
100	PI/2 BPSK	1	271	26.31	26.30	26.29	
100	PI/2 BPSK	135	0	25.48	25.51	25.46	26.6
100	PI/2 BPSK	135	69	25.92	26.02	25.92	27.1
100	PI/2 BPSK	135	138	25.69	25.70	25.62	26.6
100	PI/2 BPSK	270	0	25.48	25.58	25.56	
100	QPSK	1	1	26.20	26.28	26.27	27.1
100	QPSK	1	137	26.00	26.00	26.00	
100	QPSK	1	271	26.30	26.30	26.29	
100	QPSK	135	0	24.92	24.99	24.93	26.1
100	QPSK	135	69	25.97	26.04	25.97	27.1
100	QPSK	135	138	25.18	25.20	25.18	26.1
100	QPSK	270	0	25.05	25.08	25.01	
100	16QAM	1	1	25.22	25.32	25.28	26.1
100	64QAM	1	1	23.64	23.69	23.62	24.6
100	256QAM	1	1	21.76	21.77	21.75	22.6
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	26.27	26.25	26.23	27.1
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	26.31	26.21	26.29	27.1
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	26.29	26.26	26.21	27.1
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	26.29	26.28	26.29	27.1
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	26.29	26.25	26.29	27.1
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	26.20	26.23	26.22	27.1
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	26.20	26.22	26.19	27.1
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	26.28	26.25	26.26	27.1
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	26.31	26.25	26.21	27.1
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	26.27	26.23	26.25	27.1
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	26.28	26.21	26.23	27.1



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.10	22.11	22.08	22.5
100	PI/2 BPSK	1	137	22.06	22.06	21.97	
100	PI/2 BPSK	1	271	22.00	22.05	22.04	
100	PI/2 BPSK	135	0	22.12	22.22	22.20	22.5
100	PI/2 BPSK	135	69	22.21	22.30	22.29	22.5
100	PI/2 BPSK	135	138	22.15	22.25	22.25	22.5
100	PI/2 BPSK	270	0	22.16	22.25	22.24	
100	QPSK	1	1	22.09	22.10	22.03	22.5
100	QPSK	1	137	21.94	21.98	21.95	
100	QPSK	1	271	22.05	22.05	22.02	
100	QPSK	135	0	22.22	22.22	22.14	22.5
100	QPSK	135	69	22.23	22.26	22.18	22.5
100	QPSK	135	138	22.17	22.18	22.11	22.5
100	QPSK	270	0	22.18	22.21	22.19	
100	16QAM	1	1	22.17	22.25	22.23	22.5
100	64QAM	1	1	22.21	22.22	22.22	22.5
100	256QAM	1	1	21.38	21.44	21.44	22.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.05	22.09	21.99	22.5
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.02	22.10	22.03	22.5
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.09	22.10	22.01	22.5
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.09	22.01	21.98	22.5
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.02	22.03	22.01	22.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.10	22.05	22.01	22.5
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.06	22.09	22.06	22.5
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.07	22.10	22.04	22.5
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.08	22.07	22.04	22.5
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.02	22.03	22.00	22.5
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.05	22.01	22.05	22.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.10	22.11	22.08	23.2
100	PI/2 BPSK	1	137	22.06	22.06	21.97	
100	PI/2 BPSK	1	271	22.00	22.05	22.04	
100	PI/2 BPSK	135	0	22.12	22.22	22.20	23.2
100	PI/2 BPSK	135	69	22.21	22.30	22.29	23.2
100	PI/2 BPSK	135	138	22.15	22.25	22.25	23.2
100	PI/2 BPSK	270	0	22.16	22.25	22.24	
100	QPSK	1	1	22.09	22.10	22.03	23.2
100	QPSK	1	137	21.94	21.98	21.95	
100	QPSK	1	271	22.05	22.05	22.02	
100	QPSK	135	0	22.22	22.22	22.14	23.2
100	QPSK	135	69	22.23	22.26	22.18	23.2
100	QPSK	135	138	22.17	22.18	22.11	23.2
100	QPSK	270	0	22.18	22.21	22.19	
100	16QAM	1	1	22.17	22.25	22.23	23.2
100	64QAM	1	1	22.21	22.22	22.22	23.2
100	256QAM	1	1	21.38	21.44	21.44	22.6
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.05	22.09	21.99	23.2
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.02	22.10	22.03	23.2
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.09	22.10	22.01	23.2
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.09	22.01	21.98	23.2
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.02	22.03	22.01	23.2
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.10	22.05	22.01	23.2
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.06	22.09	22.06	23.2
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.07	22.10	22.04	23.2
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.08	22.07	22.04	23.2
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.02	22.03	22.00	23.2
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.05	22.01	22.05	23.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	22.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.10	22.11	22.08	
100	PI/2 BPSK	1	137	22.06	22.06	21.97	22.5
100	PI/2 BPSK	1	271	22.00	22.05	22.04	
100	PI/2 BPSK	135	0	22.12	22.22	22.20	22.5
100	PI/2 BPSK	135	69	22.21	22.30	22.29	22.5
100	PI/2 BPSK	135	138	22.15	22.25	22.25	22.5
100	PI/2 BPSK	270	0	22.16	22.25	22.24	
100	QPSK	1	1	22.09	22.10	22.03	22.5
100	QPSK	1	137	21.94	21.98	21.95	
100	QPSK	1	271	22.05	22.05	22.02	
100	QPSK	135	0	22.22	22.22	22.14	22.5
100	QPSK	135	69	22.23	22.26	22.18	22.5
100	QPSK	135	138	22.17	22.18	22.11	22.5
100	QPSK	270	0	22.18	22.21	22.19	
100	16QAM	1	1	22.17	22.25	22.23	22.5
100	64QAM	1	1	22.21	22.22	22.22	22.5
100	256QAM	1	1	21.38	21.44	21.44	22.5
Channel				649668	656000	662332	22.5
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.05	22.09	21.99	22.5
Channel				649334	656000	662666	22.5
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.02	22.10	22.03	22.5
Channel				649000	656000	663000	22.5
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.09	22.10	22.01	22.5
Channel				648668	656000	663332	22.5
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.09	22.01	21.98	22.5
Channel				648334	656000	663666	22.5
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.02	22.03	22.01	22.5
Channel				648000	656000	664000	22.5
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.10	22.05	22.01	22.5
Channel				647668	656000	664332	22.5
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.06	22.09	22.06	22.5
Channel				647500	656000	664500	22.5
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.07	22.10	22.04	22.5
Channel				647334	656000	664666	22.5
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.08	22.07	22.04	22.5
Channel				647168	656000	664832	22.5
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.02	22.03	22.00	22.5
Channel				647000	656000	665000	22.5
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.05	22.01	22.05	22.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	25.28	25.41	25.11	26.5
100	PI/2 BPSK	1	137	25.56	25.67	25.38	
100	PI/2 BPSK	1	271	25.21	25.34	25.04	
100	PI/2 BPSK	135	0	24.90	25.03	24.73	26.0
100	PI/2 BPSK	135	69	25.45	25.58	25.27	26.5
100	PI/2 BPSK	135	138	24.87	24.99	24.69	26.0
100	PI/2 BPSK	270	0	24.91	25.04	24.74	
100	QPSK	1	1	25.32	25.45	25.14	26.5
100	QPSK	1	137	25.53	25.66	25.35	
100	QPSK	1	271	25.14	25.27	25.01	
100	QPSK	135	0	24.44	24.56	24.27	25.5
100	QPSK	135	69	25.49	25.62	25.31	26.5
100	QPSK	135	138	24.37	24.49	24.20	25.5
100	QPSK	270	0	24.42	24.54	24.25	
100	16QAM	1	1	24.32	24.44	24.15	25.5
100	64QAM	1	1	22.80	22.90	22.70	24.0
100	256QAM	1	1	21.25	21.33	21.10	22.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	25.22	25.36	25.03	26.5
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	25.19	25.34	25.04	26.5
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	25.20	25.36	25.03	26.5
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	25.20	25.34	25.01	26.5
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	25.21	25.32	25.04	26.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	25.18	25.36	25.02	26.5
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	25.19	25.35	25.03	26.5
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	25.19	25.34	25.06	26.5
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	25.18	25.34	25.02	26.5
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	25.23	25.32	25.03	26.5
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	25.23	25.36	25.04	26.5



<FR1 n77_HPUE_Ant 7_Index 3> Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	25.28	25.41	25.11	26.5
100	PI/2 BPSK	1	137	25.56	25.67	25.38	
100	PI/2 BPSK	1	271	25.21	25.34	25.04	
100	PI/2 BPSK	135	0	24.90	25.03	24.73	26.0
100	PI/2 BPSK	135	69	25.45	25.58	25.27	26.5
100	PI/2 BPSK	135	138	24.87	24.99	24.69	26.0
100	PI/2 BPSK	270	0	24.91	25.04	24.74	
100	QPSK	1	1	25.32	25.45	25.14	26.5
100	QPSK	1	137	25.53	25.66	25.35	
100	QPSK	1	271	25.14	25.27	25.01	
100	QPSK	135	0	24.44	24.56	24.27	25.5
100	QPSK	135	69	25.49	25.62	25.31	26.5
100	QPSK	135	138	24.37	24.49	24.20	25.5
100	QPSK	270	0	24.42	24.54	24.25	
100	16QAM	1	1	24.32	24.44	24.15	25.5
100	64QAM	1	1	22.80	22.90	22.70	24.0
100	256QAM	1	1	21.25	21.33	21.10	22.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	25.22	25.36	25.03	26.5
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	25.19	25.34	25.04	26.5
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	25.20	25.36	25.03	26.5
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	25.20	25.34	25.01	26.5
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	25.21	25.32	25.04	26.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	25.18	25.36	25.02	26.5
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	25.19	25.35	25.03	26.5
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	25.19	25.34	25.06	26.5
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	25.18	25.34	25.02	26.5
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	25.23	25.32	25.03	26.5
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	25.23	25.36	25.04	26.5



<FR1 n77_HPUE_Ant 7_Index 4> Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.02	23.11	23.03	24.1
100	PI/2 BPSK	1	137	23.05	23.08	23.01	
100	PI/2 BPSK	1	271	22.98	23.08	23.00	
100	PI/2 BPSK	135	0	23.17	23.27	23.26	24.1
100	PI/2 BPSK	135	69	23.21	23.28	23.24	24.1
100	PI/2 BPSK	135	138	23.19	23.23	23.21	24.1
100	PI/2 BPSK	270	0	23.15	23.20	23.15	
100	QPSK	1	1	23.10	23.10	23.02	24.1
100	QPSK	1	137	22.96	23.06	23.05	
100	QPSK	1	271	23.01	23.08	22.99	
100	QPSK	135	0	23.17	23.17	23.13	24.1
100	QPSK	135	69	23.21	23.22	23.22	24.1
100	QPSK	135	138	23.03	23.13	23.11	24.1
100	QPSK	270	0	23.12	23.12	23.07	
100	16QAM	1	1	23.01	23.02	22.92	24.1
100	64QAM	1	1	22.73	22.83	22.81	24.0
100	256QAM	1	1	21.24	21.26	21.24	22.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	23.04	23.07	23.02	24.1
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	23.05	23.06	23.11	24.1
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.06	23.06	23.09	24.1
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.10	23.02	23.05	24.1
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.04	23.04	23.09	24.1
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	23.02	23.03	23.06	24.1
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.11	23.10	23.06	24.1
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.08	23.01	23.11	24.1
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	23.08	23.01	23.11	24.1
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	23.11	23.10	23.10	24.1
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.01	23.10	23.11	24.1



<FR1 n77_HPUE_Ant 7_Index 5> Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.02	23.11	23.03	24.8
100	PI/2 BPSK	1	137	23.05	23.08	23.01	
100	PI/2 BPSK	1	271	22.98	23.08	23.00	
100	PI/2 BPSK	135	0	23.17	23.27	23.26	24.8
100	PI/2 BPSK	135	69	23.21	23.28	23.24	24.8
100	PI/2 BPSK	135	138	23.19	23.23	23.21	24.8
100	PI/2 BPSK	270	0	23.15	23.20	23.15	
100	QPSK	1	1	23.10	23.10	23.02	24.8
100	QPSK	1	137	22.96	23.06	23.05	
100	QPSK	1	271	23.01	23.08	22.99	
100	QPSK	135	0	23.17	23.17	23.13	24.8
100	QPSK	135	69	23.21	23.22	23.22	24.8
100	QPSK	135	138	23.03	23.13	23.11	24.8
100	QPSK	270	0	23.12	23.12	23.07	
100	16QAM	1	1	23.01	23.02	22.92	24.8
100	64QAM	1	1	22.73	22.83	22.81	24.0
100	256QAM	1	1	21.24	21.26	21.24	22.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	23.04	23.07	23.02	24.8
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	23.05	23.06	23.11	24.8
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.06	23.06	23.09	24.8
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.10	23.02	23.05	24.8
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.04	23.04	23.09	24.8
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	23.02	23.03	23.06	24.8
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.11	23.10	23.06	24.8
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.08	23.01	23.11	24.8
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	23.08	23.01	23.11	24.8
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	23.11	23.10	23.10	24.8
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.01	23.10	23.11	24.8



<FR1 n77_HPUE_Ant 7_Index 6> Part 270

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.02	23.11	23.03	24.1
100	PI/2 BPSK	1	137	23.05	23.08	23.01	
100	PI/2 BPSK	1	271	22.98	23.08	23.00	
100	PI/2 BPSK	135	0	23.17	23.27	23.26	24.1
100	PI/2 BPSK	135	69	23.21	23.28	23.24	24.1
100	PI/2 BPSK	135	138	23.19	23.23	23.21	24.1
100	PI/2 BPSK	270	0	23.15	23.20	23.15	
100	QPSK	1	1	23.10	23.10	23.02	24.1
100	QPSK	1	137	22.96	23.06	23.05	
100	QPSK	1	271	23.01	23.08	22.99	
100	QPSK	135	0	23.17	23.17	23.13	24.1
100	QPSK	135	69	23.21	23.22	23.22	24.1
100	QPSK	135	138	23.03	23.13	23.11	24.1
100	QPSK	270	0	23.12	23.12	23.07	
100	16QAM	1	1	23.01	23.02	22.92	24.1
100	64QAM	1	1	22.73	22.83	22.81	24.0
100	256QAM	1	1	21.24	21.26	21.24	22.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	23.04	23.07	23.02	24.1
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	23.05	23.06	23.11	24.1
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.06	23.06	23.09	24.1
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.10	23.02	23.05	24.1
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.04	23.04	23.09	24.1
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	23.02	23.03	23.06	24.1
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.11	23.10	23.06	24.1
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.08	23.01	23.11	24.1
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	23.08	23.01	23.11	24.1
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	23.11	23.10	23.10	24.1
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.01	23.10	23.11	24.1



<FR1 n77_Ant 1_Index 2> Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		15.95		16.7
100	PI/2 BPSK	1	137		15.92		
100	PI/2 BPSK	1	271		15.90		
100	PI/2 BPSK	135	0		15.80		16.7
100	PI/2 BPSK	135	69		15.81		16.7
100	PI/2 BPSK	135	138		15.80		16.7
100	PI/2 BPSK	270	0		15.80		
100	QPSK	1	1		15.92		16.7
100	QPSK	1	137		15.91		
100	QPSK	1	271		15.86		
100	QPSK	135	0		15.76		16.7
100	QPSK	135	69		15.73		16.7
100	QPSK	135	138		15.77		16.7
100	QPSK	270	0		15.75		
100	16QAM	1	1		15.93		16.7
100	64QAM	1	1		15.86		16.7
100	256QAM	1	1		15.85		16.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	15.83	15.90	15.85	16.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	15.92	15.82	15.83	16.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	15.82	15.84	15.88	16.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	15.90	15.82	15.86	16.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	15.82	15.82	15.85	16.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	15.86	15.91	15.92	16.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	15.92	15.82	15.87	16.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	15.82	15.85	15.90	16.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	15.88	15.83	15.92	16.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	15.88	15.87	15.85	16.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	15.84	15.87	15.86	16.7



<FR1 n77_Ant 1_Index 3> Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		16.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		15.95		16.0
100	PI/2 BPSK	1	137		15.92		
100	PI/2 BPSK	1	271		15.90		16.0
100	PI/2 BPSK	135	0		15.80		
100	PI/2 BPSK	135	69		15.81		16.0
100	PI/2 BPSK	135	138		15.80		
100	PI/2 BPSK	270	0		15.80		16.0
100	QPSK	1	1		15.92		
100	QPSK	1	137		15.91		16.0
100	QPSK	1	271		15.86		
100	QPSK	135	0		15.76		16.0
100	QPSK	135	69		15.73		
100	QPSK	135	138		15.77		16.0
100	QPSK	270	0		15.75		
100	16QAM	1	1		15.93		16.0
100	64QAM	1	1		15.86		
100	256QAM	1	1		15.85		16.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	15.83	15.90	15.85	16.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	15.92	15.82	15.83	16.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	15.82	15.84	15.88	16.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	15.90	15.82	15.86	16.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	15.82	15.82	15.85	16.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	15.86	15.91	15.92	16.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	15.92	15.82	15.87	16.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	15.82	15.85	15.90	16.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	15.88	15.83	15.92	16.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	15.88	15.87	15.85	16.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	15.84	15.87	15.86	16.0



<FR1 n77_Ant 1_Index 4> Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		20.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.15		
100	PI/2 BPSK	1	137		19.14		
100	PI/2 BPSK	1	271		19.09		
100	PI/2 BPSK	135	0		18.92		
100	PI/2 BPSK	135	69		18.95		
100	PI/2 BPSK	135	138		18.93		
100	PI/2 BPSK	270	0		19.00		
100	QPSK	1	1		19.05		
100	QPSK	1	137		19.14		
100	QPSK	1	271		19.08		
100	QPSK	135	0		18.91		
100	QPSK	135	69		18.94		
100	QPSK	135	138		18.87		
100	QPSK	270	0		18.93		
100	16QAM	1	1		18.93		
100	64QAM	1	1		19.08		
100	256QAM	1	1		19.08		
Channel				633000	633332	633666	20.0
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.06	19.05	19.07	
Channel				632668	633332	634000	20.0
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.09	19.06	19.03	
Channel				632334	633332	634332	20.0
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.05	19.05	19.00	
Channel				632000	633332	634666	20.0
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.99	19.02	19.01	
Channel				631668	633332	635000	20.0
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.08	19.07	19.01	
Channel				631334	633332	635332	20.0
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.06	19.07	19.08	
Channel				631000	633332	635666	20.0
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.00	19.08	19.05	
Channel				630834	633332	635832	20.0
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.02	19.03	19.03	
Channel				630668	633332	636000	20.0
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.09	19.08	19.01	
Channel				630500	633332	636166	20.0
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.08	19.02	18.99	
Channel				630334	633332	636332	20.0
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.08	19.08	19.01	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.15		20.7
100	PI/2 BPSK	1	137		19.14		
100	PI/2 BPSK	1	271		19.09		
100	PI/2 BPSK	135	0		18.92		20.7
100	PI/2 BPSK	135	69		18.95		20.7
100	PI/2 BPSK	135	138		18.93		20.7
100	PI/2 BPSK	270	0		19.00		
100	QPSK	1	1		19.05		20.7
100	QPSK	1	137		19.14		
100	QPSK	1	271		19.08		
100	QPSK	135	0		18.91		20.7
100	QPSK	135	69		18.94		20.7
100	QPSK	135	138		18.87		20.7
100	QPSK	270	0		18.93		
100	16QAM	1	1		18.93		20.7
100	64QAM	1	1		19.08		20.7
100	256QAM	1	1		19.08		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.06	19.05	19.07	20.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.09	19.06	19.03	20.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.05	19.05	19.00	20.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.99	19.02	19.01	20.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.08	19.07	19.01	20.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.06	19.07	19.08	20.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.00	19.08	19.05	20.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.02	19.03	19.03	20.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.09	19.08	19.01	20.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.08	19.02	18.99	20.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.08	19.08	19.01	20.7



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.15		20.0
100	PI/2 BPSK	1	137		19.14		
100	PI/2 BPSK	1	271		19.09		
100	PI/2 BPSK	135	0		18.92		20.0
100	PI/2 BPSK	135	69		18.95		20.0
100	PI/2 BPSK	135	138		18.93		20.0
100	PI/2 BPSK	270	0		19.00		
100	QPSK	1	1		19.05		20.0
100	QPSK	1	137		19.14		
100	QPSK	1	271		19.08		
100	QPSK	135	0		18.91		20.0
100	QPSK	135	69		18.94		20.0
100	QPSK	135	138		18.87		20.0
100	QPSK	270	0		18.93		
100	16QAM	1	1		18.93		20.0
100	64QAM	1	1		19.08		20.0
100	256QAM	1	1		19.08		20.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.06	19.05	19.07	20.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.09	19.06	19.03	20.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.05	19.05	19.00	20.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.99	19.02	19.01	20.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.08	19.07	19.01	20.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.06	19.07	19.08	20.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.00	19.08	19.05	20.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.02	19.03	19.03	20.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.09	19.08	19.01	20.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.08	19.02	18.99	20.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.08	19.08	19.01	20.0



<FR1 n77_Ant 5_Index 2> Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		18.70		19.4
100	PI/2 BPSK	1	137		18.66		
100	PI/2 BPSK	1	271		18.60		
100	PI/2 BPSK	135	0		18.39		19.4
100	PI/2 BPSK	135	69		18.45		19.4
100	PI/2 BPSK	135	138		18.40		19.4
100	PI/2 BPSK	270	0		18.49		
100	QPSK	1	1		18.65		19.4
100	QPSK	1	137		18.56		
100	QPSK	1	271		18.58		
100	QPSK	135	0		18.29		19.4
100	QPSK	135	69		18.40		19.4
100	QPSK	135	138		18.31		19.4
100	QPSK	270	0		18.43		
100	16QAM	1	1		18.63		19.4
100	64QAM	1	1		18.60		19.4
100	256QAM	1	1		18.37		19.4
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	18.57	18.58	18.66	19.4
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.59	18.56	18.62	19.4
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	18.58	18.60	18.65	19.4
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.63	18.56	18.60	19.4
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	18.61	18.59	18.59	19.4
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	18.65	18.58	18.58	19.4
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	18.62	18.66	18.62	19.4
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	18.58	18.56	18.57	19.4
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	18.61	18.62	18.59	19.4
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	18.65	18.56	18.56	19.4
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	18.64	18.61	18.59	19.4



<FR1 n77_Ant 5_Index 3> Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		18.70		18.7
100	PI/2 BPSK	1	137		18.66		
100	PI/2 BPSK	1	271		18.60		
100	PI/2 BPSK	135	0		18.39		18.7
100	PI/2 BPSK	135	69		18.45		18.7
100	PI/2 BPSK	135	138		18.40		18.7
100	PI/2 BPSK	270	0		18.49		
100	QPSK	1	1		18.65		18.7
100	QPSK	1	137		18.56		
100	QPSK	1	271		18.58		
100	QPSK	135	0		18.29		18.7
100	QPSK	135	69		18.40		18.7
100	QPSK	135	138		18.31		18.7
100	QPSK	270	0		18.43		
100	16QAM	1	1		18.63		18.7
100	64QAM	1	1		18.60		18.7
100	256QAM	1	1		18.37		18.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	18.57	18.58	18.66	18.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.59	18.56	18.62	18.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	18.58	18.60	18.65	18.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.63	18.56	18.60	18.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	18.61	18.59	18.59	18.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	18.65	18.58	18.58	18.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	18.62	18.66	18.62	18.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	18.58	18.56	18.57	18.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	18.61	18.62	18.59	18.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	18.65	18.56	18.56	18.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	18.64	18.61	18.59	18.7



<FR1 n77_Ant 5_Index 4> Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		23.4
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.21		23.4
100	PI/2 BPSK	1	137		22.65		
100	PI/2 BPSK	1	271		22.53		23.4
100	PI/2 BPSK	135	0		22.35		
100	PI/2 BPSK	135	69		22.71		23.4
100	PI/2 BPSK	135	138		22.15		
100	PI/2 BPSK	270	0		22.25		23.4
100	QPSK	1	1		23.18		
100	QPSK	1	137		22.70		23.4
100	QPSK	1	271		22.58		
100	QPSK	135	0		22.47		23.4
100	QPSK	135	69		22.72		
100	QPSK	135	138		22.47		23.4
100	QPSK	270	0		22.25		
100	16QAM	1	1		22.70		23.4
100	64QAM	1	1		21.68		
100	256QAM	1	1		19.75		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.14	23.20	23.15	23.4
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.18	23.19	23.12	23.4
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.14	23.20	23.11	23.4
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.17	23.20	23.19	23.4
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.16	23.16	23.15	23.4
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.20	23.18	23.19	23.4
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.12	23.12	23.20	23.4
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.18	23.19	23.18	23.4
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.14	23.15	23.13	23.4
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.13	23.20	23.13	23.4
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.18	23.19	23.18	23.4



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.21		24.1
100	PI/2 BPSK	1	137		22.65		
100	PI/2 BPSK	1	271		22.53		
100	PI/2 BPSK	135	0		22.35		24.1
100	PI/2 BPSK	135	69		22.71		24.1
100	PI/2 BPSK	135	138		22.15		24.1
100	PI/2 BPSK	270	0		22.25		
100	QPSK	1	1		23.18		24.1
100	QPSK	1	137		22.70		
100	QPSK	1	271		22.58		
100	QPSK	135	0		22.47		24.0
100	QPSK	135	69		22.72		24.1
100	QPSK	135	138		22.47		24.0
100	QPSK	270	0		22.25		
100	16QAM	1	1		22.70		24.0
100	64QAM	1	1		21.68		22.5
100	256QAM	1	1		19.75		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.14	23.20	23.15	24.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.18	23.19	23.12	24.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.14	23.20	23.11	24.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.17	23.20	23.19	24.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.16	23.16	23.15	24.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.20	23.18	23.19	24.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.12	23.12	23.20	24.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.18	23.19	23.18	24.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.14	23.15	23.13	24.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.13	23.20	23.13	24.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.18	23.19	23.18	24.1



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.21		23.4
100	PI/2 BPSK	1	137		22.65		
100	PI/2 BPSK	1	271		22.53		
100	PI/2 BPSK	135	0		22.35		23.4
100	PI/2 BPSK	135	69		22.71		23.4
100	PI/2 BPSK	135	138		22.15		23.4
100	PI/2 BPSK	270	0		22.25		
100	QPSK	1	1		23.18		23.4
100	QPSK	1	137		22.70		
100	QPSK	1	271		22.58		
100	QPSK	135	0		22.47		23.4
100	QPSK	135	69		22.72		23.4
100	QPSK	135	138		22.47		23.4
100	QPSK	270	0		22.25		
100	16QAM	1	1		22.70		23.4
100	64QAM	1	1		21.68		22.5
100	256QAM	1	1		19.75		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.14	23.20	23.15	23.4
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.18	23.19	23.12	23.4
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.14	23.20	23.11	23.4
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.17	23.20	23.19	23.4
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.16	23.16	23.15	23.4
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.20	23.18	23.19	23.4
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.12	23.12	23.20	23.4
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.18	23.19	23.18	23.4
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.14	23.15	23.13	23.4
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.13	23.20	23.13	23.4
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.18	23.19	23.18	23.4



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		25.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.20		25.0
100	PI/2 BPSK	1	137		23.80		
100	PI/2 BPSK	1	271		24.09		24.5
100	PI/2 BPSK	135	0		23.39		
100	PI/2 BPSK	135	69		23.83		25.0
100	PI/2 BPSK	135	138		23.40		24.5
100	PI/2 BPSK	270	0		23.42		
100	QPSK	1	1		24.15		25.0
100	QPSK	1	137		23.80		
100	QPSK	1	271		24.11		24.0
100	QPSK	135	0		22.91		
100	QPSK	135	69		23.86		25.0
100	QPSK	135	138		22.90		24.0
100	QPSK	270	0		22.92		
100	16QAM	1	1		23.29		24.0
100	64QAM	1	1		21.66		22.5
100	256QAM	1	1		19.73		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.13	24.13	24.12	25.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.17	24.18	24.19	25.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.15	24.14	24.11	25.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.17	24.17	24.16	25.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.11	24.13	24.10	25.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.19	24.15	24.12	25.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.19	24.11	24.15	25.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.10	24.12	24.13	25.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.17	24.13	24.17	25.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.16	24.14	24.15	25.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.12	24.15	24.18	25.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		25.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.20		25.0
100	PI/2 BPSK	1	137		23.80		
100	PI/2 BPSK	1	271		24.09		24.5
100	PI/2 BPSK	135	0		23.39		
100	PI/2 BPSK	135	69		23.83		25.0
100	PI/2 BPSK	135	138		23.40		24.5
100	PI/2 BPSK	270	0		23.42		
100	QPSK	1	1		24.15		25.0
100	QPSK	1	137		23.80		
100	QPSK	1	271		24.11		24.0
100	QPSK	135	0		22.91		
100	QPSK	135	69		23.86		25.0
100	QPSK	135	138		22.90		24.0
100	QPSK	270	0		22.92		
100	16QAM	1	1		23.29		24.0
100	64QAM	1	1		21.66		22.5
100	256QAM	1	1		19.73		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.13	24.13	24.12	25.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.17	24.18	24.19	25.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.15	24.14	24.11	25.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.17	24.17	24.16	25.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.11	24.13	24.10	25.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.19	24.15	24.12	25.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.19	24.11	24.15	25.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.10	24.12	24.13	25.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.17	24.13	24.17	25.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.16	24.14	24.15	25.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.12	24.15	24.18	25.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		18.93		19.4
100	PI/2 BPSK	1	137		18.87		
100	PI/2 BPSK	1	271		18.87		
100	PI/2 BPSK	135	0		18.89		19.4
100	PI/2 BPSK	135	69		19.12		19.4
100	PI/2 BPSK	135	138		19.03		19.4
100	PI/2 BPSK	270	0		19.03		
100	QPSK	1	1		18.92		19.4
100	QPSK	1	137		18.79		
100	QPSK	1	271		18.86		
100	QPSK	135	0		18.87		19.4
100	QPSK	135	69		19.11		19.4
100	QPSK	135	138		18.98		19.4
100	QPSK	270	0		18.93		
100	16QAM	1	1		18.86		19.4
100	64QAM	1	1		19.09		19.4
100	256QAM	1	1		18.41		19.4
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	18.80	18.90	18.90	19.4
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.82	18.86	18.82	19.4
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	18.89	18.87	18.88	19.4
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.87	18.81	18.86	19.4
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	18.82	18.86	18.83	19.4
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	18.90	18.81	18.89	19.4
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	18.88	18.82	18.80	19.4
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	18.81	18.85	18.87	19.4
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	18.83	18.87	18.80	19.4
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	18.80	18.90	18.81	19.4
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	18.80	18.84	18.90	19.4



<FR1 n77_Ant 6_Index 5> Part 27Q

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		20.1
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		18.93		20.1
100	PI/2 BPSK	1	137		18.87		
100	PI/2 BPSK	1	271		18.87		20.1
100	PI/2 BPSK	135	0		18.89		
100	PI/2 BPSK	135	69		19.12		20.1
100	PI/2 BPSK	135	138		19.03		
100	PI/2 BPSK	270	0		19.03		20.1
100	QPSK	1	1		18.92		
100	QPSK	1	137		18.79		20.1
100	QPSK	1	271		18.86		
100	QPSK	135	0		18.87		20.1
100	QPSK	135	69		19.11		
100	QPSK	135	138		18.98		20.1
100	QPSK	270	0		18.93		
100	16QAM	1	1		18.86		20.1
100	64QAM	1	1		19.09		
100	256QAM	1	1		18.41		20.1
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	18.80	18.90	18.90	20.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.82	18.86	18.82	20.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	18.89	18.87	18.88	20.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.87	18.81	18.86	20.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	18.82	18.86	18.83	20.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	18.90	18.81	18.89	20.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	18.88	18.82	18.80	20.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	18.81	18.85	18.87	20.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	18.83	18.87	18.80	20.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	18.80	18.90	18.81	20.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	18.80	18.84	18.90	20.1



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		18.93		19.4
100	PI/2 BPSK	1	137		18.87		
100	PI/2 BPSK	1	271		18.87		
100	PI/2 BPSK	135	0		18.89		19.4
100	PI/2 BPSK	135	69		19.12		19.4
100	PI/2 BPSK	135	138		19.03		19.4
100	PI/2 BPSK	270	0		19.03		
100	QPSK	1	1		18.92		19.4
100	QPSK	1	137		18.79		
100	QPSK	1	271		18.86		
100	QPSK	135	0		18.87		19.4
100	QPSK	135	69		19.11		19.4
100	QPSK	135	138		18.98		19.4
100	QPSK	270	0		18.93		
100	16QAM	1	1		18.86		19.4
100	64QAM	1	1		19.09		19.4
100	256QAM	1	1		18.41		19.4
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	18.80	18.90	18.90	19.4
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.82	18.86	18.82	19.4
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	18.89	18.87	18.88	19.4
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.87	18.81	18.86	19.4
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	18.82	18.86	18.83	19.4
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	18.90	18.81	18.89	19.4
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	18.88	18.82	18.80	19.4
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	18.81	18.85	18.87	19.4
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	18.83	18.87	18.80	19.4
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	18.80	18.90	18.81	19.4
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	18.80	18.84	18.90	19.4



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.30		24.4
100	PI/2 BPSK	1	137		23.62		
100	PI/2 BPSK	1	271		23.35		
100	PI/2 BPSK	135	0		22.91		23.9
100	PI/2 BPSK	135	69		23.57		24.4
100	PI/2 BPSK	135	138		22.90		23.9
100	PI/2 BPSK	270	0		22.98		
100	QPSK	1	1		23.37		24.4
100	QPSK	1	137		23.55		
100	QPSK	1	271		23.35		
100	QPSK	135	0		22.46		23.4
100	QPSK	135	69		23.53		24.4
100	QPSK	135	138		22.41		23.4
100	QPSK	270	0		22.48		
100	16QAM	1	1		22.30		23.4
100	64QAM	1	1		20.85		21.9
100	256QAM	1	1		19.03		19.9
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.49	23.58	23.51	24.4
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.38	23.51	23.43	24.4
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.43	23.51	23.45	24.4
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.40	23.52	23.45	24.4
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.43	23.47	23.44	24.4
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.43	23.49	23.44	24.4
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.44	23.46	23.41	24.4
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.43	23.49	23.42	24.4
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.42	23.47	23.41	24.4
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.43	23.51	23.39	24.4
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.42	23.53	23.46	24.4