



<FR1 n7_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				505000	507000	509000	17.3
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	17.07	17.14	17.03	
50	PI/2 BPSK	1	135	17.03	17.11	16.99	17.3
50	PI/2 BPSK	1	268	17.02	17.01	16.97	
50	PI/2 BPSK	135	0	16.98	17.04	16.93	17.3
50	PI/2 BPSK	135	68	16.98	17.05	16.99	17.3
50	PI/2 BPSK	135	135	16.96	16.90	16.87	17.3
50	PI/2 BPSK	270	0	16.98	16.95	17.00	
50	QPSK	1	1	17.05	17.09	16.90	17.3
50	QPSK	1	135	16.99	17.13	17.01	
50	QPSK	1	268	16.98	17.12	17.02	
50	QPSK	135	0	16.92	16.93	16.92	17.3
50	QPSK	135	68	16.93	17.06	16.89	17.3
50	QPSK	135	135	16.93	16.85	16.79	17.3
50	QPSK	270	0	16.89	16.94	16.89	
50	16QAM	1	1	17.00	16.98	16.92	17.3
50	64QAM	1	1	17.01	16.94	16.95	17.3
50	256QAM	1	1	17.00	16.99	16.95	17.3
Channel				504000	507000	510000	17.3
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	17.07	17.13	16.99	17.3
Channel				503000	507000	511000	17.3
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	16.97	17.13	16.98	17.3
Channel				502500	507000	511500	17.3
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	17.02	17.08	16.95	17.3
Channel				502000	507000	512000	17.3
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	16.97	17.13	16.93	17.3
Channel				501500	507000	512500	17.3
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	17.01	17.08	16.96	17.3
Channel				501000	507000	513000	17.3
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	17.07	17.13	16.93	17.3
Channel				500500	507000	513500	17.3
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	17.06	17.06	17.03	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				505000	507000	509000	
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	22.19	22.13	22.09	22.6
50	PI/2 BPSK	1	135	21.97	22.01	21.92	
50	PI/2 BPSK	1	268	21.96	21.98	21.92	
50	PI/2 BPSK	135	0	21.99	21.96	21.87	22.6
50	PI/2 BPSK	135	68	22.03	22.04	21.97	22.6
50	PI/2 BPSK	135	135	21.98	21.95	21.86	22.6
50	PI/2 BPSK	270	0	21.98	22.02	21.95	
50	QPSK	1	1	22.08	22.10	21.98	22.6
50	QPSK	1	135	22.09	22.04	22.00	
50	QPSK	1	268	22.00	21.94	21.85	
50	QPSK	135	0	22.04	22.07	21.94	22.6
50	QPSK	135	68	21.97	22.01	21.91	22.6
50	QPSK	135	135	21.98	21.99	21.94	22.6
50	QPSK	270	0	22.02	22.03	21.93	
50	16QAM	1	1	22.06	22.08	21.98	22.6
50	64QAM	1	1	21.32	21.31	21.25	22.6
50	256QAM	1	1	19.40	19.36	19.39	20.6
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	22.12	22.03	22.06	22.6
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	22.09	22.09	22.00	22.6
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	22.17	22.12	22.07	22.6
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	22.15	22.09	22.02	22.6
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	22.12	22.08	21.99	22.6
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	22.12	22.06	22.02	22.6
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	22.15	22.08	22.09	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				505000	507000	509000	
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	17.07	17.14	17.03	18.1
50	PI/2 BPSK	1	135	17.03	17.11	16.99	
50	PI/2 BPSK	1	268	17.02	17.01	16.97	
50	PI/2 BPSK	135	0	16.98	17.04	16.93	18.1
50	PI/2 BPSK	135	68	16.98	17.05	16.99	18.1
50	PI/2 BPSK	135	135	16.96	16.90	16.87	18.1
50	PI/2 BPSK	270	0	16.98	16.95	17.00	
50	QPSK	1	1	17.05	17.09	16.90	18.1
50	QPSK	1	135	16.99	17.13	17.01	
50	QPSK	1	268	16.98	17.12	17.02	
50	QPSK	135	0	16.92	16.93	16.92	18.1
50	QPSK	135	68	16.93	17.06	16.89	18.1
50	QPSK	135	135	16.93	16.85	16.79	18.1
50	QPSK	270	0	16.89	16.94	16.89	
50	16QAM	1	1	17.00	16.98	16.92	18.1
50	64QAM	1	1	17.01	16.94	16.95	18.1
50	256QAM	1	1	17.00	16.99	16.95	18.1
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	17.07	17.13	16.99	18.1
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	16.97	17.13	16.98	18.1
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	17.02	17.08	16.95	18.1
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	16.97	17.13	16.93	18.1
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	17.01	17.08	16.96	18.1
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	17.07	17.13	16.93	18.1
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	17.06	17.06	17.03	18.1



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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				505000	507000	509000	
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	22.19	22.13	22.09	23.4
50	PI/2 BPSK	1	135	21.97	22.01	21.92	
50	PI/2 BPSK	1	268	21.96	21.98	21.92	
50	PI/2 BPSK	135	0	21.99	21.96	21.87	23.4
50	PI/2 BPSK	135	68	22.03	22.04	21.97	23.4
50	PI/2 BPSK	135	135	21.98	21.95	21.86	23.4
50	PI/2 BPSK	270	0	21.98	22.02	21.95	
50	QPSK	1	1	22.08	22.10	21.98	23.4
50	QPSK	1	135	22.09	22.04	22.00	
50	QPSK	1	268	22.00	21.94	21.85	
50	QPSK	135	0	22.04	22.07	21.94	23.4
50	QPSK	135	68	21.97	22.01	21.91	23.4
50	QPSK	135	135	21.98	21.99	21.94	23.4
50	QPSK	270	0	22.02	22.03	21.93	
50	16QAM	1	1	22.06	22.08	21.98	23.4
50	64QAM	1	1	21.32	21.31	21.25	22.6
50	256QAM	1	1	19.40	19.36	19.39	20.6
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	22.12	22.03	22.06	23.4
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	22.09	22.09	22.00	23.4
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	22.17	22.12	22.07	23.4
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	22.15	22.09	22.02	23.4
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	22.12	22.08	21.99	23.4
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	22.12	22.06	22.02	23.4
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	22.15	22.08	22.09	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				505000	507000	509000	
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	17.07	17.14	17.03	17.3
50	PI/2 BPSK	1	135	17.03	17.11	16.99	
50	PI/2 BPSK	1	268	17.02	17.01	16.97	
50	PI/2 BPSK	135	0	16.98	17.04	16.93	17.3
50	PI/2 BPSK	135	68	16.98	17.05	16.99	17.3
50	PI/2 BPSK	135	135	16.96	16.90	16.87	17.3
50	PI/2 BPSK	270	0	16.98	16.95	17.00	
50	QPSK	1	1	17.05	17.09	16.90	17.3
50	QPSK	1	135	16.99	17.13	17.01	
50	QPSK	1	268	16.98	17.12	17.02	
50	QPSK	135	0	16.92	16.93	16.92	17.3
50	QPSK	135	68	16.93	17.06	16.89	17.3
50	QPSK	135	135	16.93	16.85	16.79	17.3
50	QPSK	270	0	16.89	16.94	16.89	
50	16QAM	1	1	17.00	16.98	16.92	17.3
50	64QAM	1	1	17.01	16.94	16.95	17.3
50	256QAM	1	1	17.00	16.99	16.95	17.3
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	17.07	17.13	16.99	17.3
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	16.97	17.13	16.98	17.3
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	17.02	17.08	16.95	17.3
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	16.97	17.13	16.93	17.3
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	17.01	17.08	16.96	17.3
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	17.07	17.13	16.93	17.3
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	17.06	17.06	17.03	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				505000	507000	509000	
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	22.19	22.13	22.09	22.6
50	PI/2 BPSK	1	135	21.97	22.01	21.92	
50	PI/2 BPSK	1	268	21.96	21.98	21.92	
50	PI/2 BPSK	135	0	21.99	21.96	21.87	22.6
50	PI/2 BPSK	135	68	22.03	22.04	21.97	22.6
50	PI/2 BPSK	135	135	21.98	21.95	21.86	22.6
50	PI/2 BPSK	270	0	21.98	22.02	21.95	
50	QPSK	1	1	22.08	22.10	21.98	22.6
50	QPSK	1	135	22.09	22.04	22.00	
50	QPSK	1	268	22.00	21.94	21.85	
50	QPSK	135	0	22.04	22.07	21.94	22.6
50	QPSK	135	68	21.97	22.01	21.91	22.6
50	QPSK	135	135	21.98	21.99	21.94	22.6
50	QPSK	270	0	22.02	22.03	21.93	
50	16QAM	1	1	22.06	22.08	21.98	22.6
50	64QAM	1	1	21.32	21.31	21.25	22.6
50	256QAM	1	1	19.40	19.36	19.39	20.6
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	22.12	22.03	22.06	22.6
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	22.09	22.09	22.00	22.6
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	22.17	22.12	22.07	22.6
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	22.15	22.09	22.02	22.6
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	22.12	22.08	21.99	22.6
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	22.12	22.06	22.02	22.6
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	22.15	22.08	22.09	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				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	24.20	24.24	24.22	25.7
15	PI/2 BPSK	1	40	23.96	24.08	24.04	
15	PI/2 BPSK	1	77	24.03	24.13	24.03	
15	PI/2 BPSK	36	0	23.64	23.70	23.65	25.2
15	PI/2 BPSK	36	22	24.06	24.17	24.08	25.7
15	PI/2 BPSK	36	43	23.59	23.73	23.67	25.2
15	PI/2 BPSK	75	0	23.61	23.66	23.54	
15	QPSK	1	1	24.18	24.23	24.11	25.7
15	QPSK	1	40	24.00	24.12	24.01	
15	QPSK	1	77	24.10	24.16	24.08	
15	QPSK	36	0	23.09	23.19	23.09	24.7
15	QPSK	36	22	24.08	24.16	24.11	25.7
15	QPSK	36	43	23.16	23.22	23.18	24.7
15	QPSK	75	0	23.10	23.17	23.08	
15	16QAM	1	1	23.10	23.24	23.19	24.7
15	64QAM	1	1	21.51	21.63	21.58	23.2
	256QAM	1	1	19.57	19.67	19.63	21.2
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	24.13	24.23	24.11	25.7
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	24.00	24.07	24.22	25.7

<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	22.07	22.13	22.10	23.1
15	PI/2 BPSK	1	40	21.89	21.93	22.07	
15	PI/2 BPSK	1	77	21.96	21.98	22.10	
15	PI/2 BPSK	36	0	22.04	22.09	22.05	23.1
15	PI/2 BPSK	36	22	21.92	22.06	22.02	23.1
15	PI/2 BPSK	36	43	21.96	22.01	21.93	23.1
15	PI/2 BPSK	75	0	21.93	21.98	21.95	
15	QPSK	1	1	21.99	22.02	21.92	23.1
15	QPSK	1	40	22.01	22.04	22.00	
15	QPSK	1	77	21.99	22.06	22.06	
15	QPSK	36	0	21.98	21.96	22.02	23.1
15	QPSK	36	22	21.90	21.93	21.98	23.1
15	QPSK	36	43	21.91	22.07	21.91	23.1
15	QPSK	75	0	21.93	22.11	21.90	
15	16QAM	1	1	21.89	22.12	21.92	23.1
15	64QAM	1	1	21.30	21.35	21.28	23.1
	256QAM	1	1	19.41	19.45	19.48	21.2
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	21.94	21.98	21.99	23.1
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	21.92	22.04	22.06	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	22.07	22.13	22.10	22.3
15	PI/2 BPSK	1	40	21.89	21.93	22.07	
15	PI/2 BPSK	1	77	21.96	21.98	22.10	
15	PI/2 BPSK	36	0	22.04	22.09	22.05	22.3
15	PI/2 BPSK	36	22	21.92	22.06	22.02	22.3
15	PI/2 BPSK	36	43	21.96	22.01	21.93	22.3
15	PI/2 BPSK	75	0	21.93	21.98	21.95	
15	QPSK	1	1	21.99	22.02	21.92	22.3
15	QPSK	1	40	22.01	22.04	22.00	
15	QPSK	1	77	21.99	22.06	22.06	
15	QPSK	36	0	21.98	21.96	22.02	22.3
15	QPSK	36	22	21.90	21.93	21.98	22.3
15	QPSK	36	43	21.91	22.07	21.91	22.3
15	QPSK	75	0	21.93	22.11	21.90	
15	16QAM	1	1	21.89	22.12	21.92	22.3
15	64QAM	1	1	21.30	21.35	21.28	22.3
	256QAM	1	1	19.41	19.45	19.48	21.2
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	21.94	21.98	21.99	22.3
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	21.92	22.04	22.06	22.3

<FR1 n12_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				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	24.20	24.24	24.22	25.7
15	PI/2 BPSK	1	40	23.96	24.08	24.04	
15	PI/2 BPSK	1	77	24.03	24.13	24.03	
15	PI/2 BPSK	36	0	23.64	23.70	23.65	25.2
15	PI/2 BPSK	36	22	24.06	24.17	24.08	25.7
15	PI/2 BPSK	36	43	23.59	23.73	23.67	25.2
15	PI/2 BPSK	75	0	23.61	23.66	23.54	
15	QPSK	1	1	24.18	24.23	24.11	25.7
15	QPSK	1	40	24.00	24.12	24.01	
15	QPSK	1	77	24.10	24.16	24.08	
15	QPSK	36	0	23.09	23.19	23.09	24.7
15	QPSK	36	22	24.08	24.16	24.11	25.7
15	QPSK	36	43	23.16	23.22	23.18	24.7
15	QPSK	75	0	23.10	23.17	23.08	
15	16QAM	1	1	23.10	23.24	23.19	24.7
15	64QAM	1	1	21.51	21.63	21.58	23.2
	256QAM	1	1	19.57	19.67	19.63	21.2
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	24.13	24.23	24.11	25.7
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	24.00	24.07	24.22	25.7



<FR1 n12_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				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	23.94	23.96	23.99	25.7
15	PI/2 BPSK	1	40	23.84	23.74	23.77	
15	PI/2 BPSK	1	77	23.78	23.80	23.80	
15	PI/2 BPSK	36	0	23.30	23.35	23.36	25.2
15	PI/2 BPSK	36	22	23.79	23.86	23.87	25.7
15	PI/2 BPSK	36	43	23.36	23.40	23.38	25.2
15	PI/2 BPSK	75	0	23.23	23.33	23.28	
15	QPSK	1	1	23.84	23.89	23.90	25.7
15	QPSK	1	40	23.86	23.76	23.89	
15	QPSK	1	77	23.79	23.82	23.85	
15	QPSK	36	0	22.82	22.86	22.84	24.7
15	QPSK	36	22	23.73	23.85	23.87	25.7
15	QPSK	36	43	22.82	22.90	22.92	24.7
15	QPSK	75	0	22.80	22.87	22.80	
15	16QAM	1	1	22.75	22.84	22.84	24.7
15	64QAM	1	1	21.24	21.34	21.29	23.2
	256QAM	1	1	19.21	19.32	19.31	21.2
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	23.93	23.80	23.90	25.7
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	23.78	23.91	23.87	25.7

<FR1 n12_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				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	24.20	24.24	24.22	25.7
15	PI/2 BPSK	1	40	23.96	24.08	24.04	
15	PI/2 BPSK	1	77	24.03	24.13	24.03	
15	PI/2 BPSK	36	0	23.64	23.70	23.65	25.2
15	PI/2 BPSK	36	22	24.06	24.17	24.08	25.7
15	PI/2 BPSK	36	43	23.59	23.73	23.67	25.2
15	PI/2 BPSK	75	0	23.61	23.66	23.54	
15	QPSK	1	1	24.18	24.23	24.11	25.7
15	QPSK	1	40	24.00	24.12	24.01	
15	QPSK	1	77	24.10	24.16	24.08	
15	QPSK	36	0	23.09	23.19	23.09	24.7
15	QPSK	36	22	24.08	24.16	24.11	25.7
15	QPSK	36	43	23.16	23.22	23.18	24.7
15	QPSK	75	0	23.10	23.17	23.08	
15	16QAM	1	1	23.10	23.24	23.19	24.7
15	64QAM	1	1	21.51	21.63	21.58	23.2
	256QAM	1	1	19.57	19.67	19.63	21.2
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	24.13	24.23	24.11	25.7
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	24.00	24.07	24.22	25.7



<FR1 n12_Ant 1_Index 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	23.94	23.96	23.99	
15	PI/2 BPSK	1	40	23.84	23.74	23.77	25.7
15	PI/2 BPSK	1	77	23.78	23.80	23.80	
15	PI/2 BPSK	36	0	23.30	23.35	23.36	25.2
15	PI/2 BPSK	36	22	23.79	23.86	23.87	25.7
15	PI/2 BPSK	36	43	23.36	23.40	23.38	25.2
15	PI/2 BPSK	75	0	23.23	23.33	23.28	
15	QPSK	1	1	23.84	23.89	23.90	25.7
15	QPSK	1	40	23.86	23.76	23.89	
15	QPSK	1	77	23.79	23.82	23.85	
15	QPSK	36	0	22.82	22.86	22.84	24.7
15	QPSK	36	22	23.73	23.85	23.87	25.7
15	QPSK	36	43	22.82	22.90	22.92	24.7
15	QPSK	75	0	22.80	22.87	22.80	
15	16QAM	1	1	22.75	22.84	22.84	24.7
15	64QAM	1	1	21.24	21.34	21.29	23.2
	256QAM	1	1	19.21	19.32	19.31	21.2
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	23.93	23.80	23.90	25.7
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	23.78	23.91	23.87	25.7

<FR1 n14_Ant 0_Index 2/3>

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		24.29		25.7
10	PI/2 BPSK	1	26		24.08		
10	PI/2 BPSK	1	50		24.00		
10	PI/2 BPSK	25	0		23.69		25.2
10	PI/2 BPSK	25	14		24.25		25.7
10	PI/2 BPSK	25	27		23.73		25.2
10	PI/2 BPSK	50	0		23.71		
10	QPSK	1	1		24.25		25.7
10	QPSK	1	26		24.23		
10	QPSK	1	50		24.22		
10	QPSK	25	0		23.21		24.7
10	QPSK	25	14		24.16		25.7
10	QPSK	25	27		23.12		24.7
10	QPSK	50	0		23.13		
10	16QAM	1	1		23.15		24.7
10	64QAM	1	1		21.85		23.2
10	256QAM	1	1		19.74		21.2
Channel				158100	158600	159100	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	PI/2 BPSK	1	1	24.09	24.20	24.18	25.7



<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		22.35		23.6
10	PI/2 BPSK	1	26		22.31		
10	PI/2 BPSK	1	50		22.28		
10	PI/2 BPSK	25	0		22.34		23.6
10	PI/2 BPSK	25	14		22.33		23.6
10	PI/2 BPSK	25	27		22.31		23.6
10	PI/2 BPSK	50	0		22.23		
10	QPSK	1	1		22.29		23.6
10	QPSK	1	26		22.34		
10	QPSK	1	50		22.30		
10	QPSK	25	0		22.32		23.6
10	QPSK	25	14		22.33		23.6
10	QPSK	25	27		22.29		23.6
10	QPSK	50	0		22.34		
10	16QAM	1	1		22.30		23.6
10	64QAM	1	1		21.67		23.2
10	256QAM	1	1		19.65		21.2
Channel				158100	158600	159100	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	PI/2 BPSK	1	1	22.27	22.28	22.25	23.6

<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		22.35		22.8
10	PI/2 BPSK	1	26		22.31		
10	PI/2 BPSK	1	50		22.28		
10	PI/2 BPSK	25	0		22.34		22.8
10	PI/2 BPSK	25	14		22.33		22.8
10	PI/2 BPSK	25	27		22.31		22.8
10	PI/2 BPSK	50	0		22.23		
10	QPSK	1	1		22.29		22.8
10	QPSK	1	26		22.34		
10	QPSK	1	50		22.30		
10	QPSK	25	0		22.32		22.8
10	QPSK	25	14		22.33		22.8
10	QPSK	25	27		22.29		22.8
10	QPSK	50	0		22.34		
10	16QAM	1	1		22.30		22.8
10	64QAM	1	1		21.67		22.8
10	256QAM	1	1		19.65		21.2
Channel				158100	158600	159100	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	PI/2 BPSK	1	1	22.27	22.28	22.25	22.8



<FR1 n14_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					158600		
Frequency (MHz)					793		
10	PI/2 BPSK	1	1		24.29		25.7
10	PI/2 BPSK	1	26		24.08		
10	PI/2 BPSK	1	50		24.00		
10	PI/2 BPSK	25	0		23.69		25.2
10	PI/2 BPSK	25	14		24.25		25.7
10	PI/2 BPSK	25	27		23.73		25.2
10	PI/2 BPSK	50	0		23.71		
10	QPSK	1	1		24.25		25.7
10	QPSK	1	26		24.23		
10	QPSK	1	50		24.22		
10	QPSK	25	0		23.21		24.7
10	QPSK	25	14		24.16		25.7
10	QPSK	25	27		23.12		24.7
10	QPSK	50	0		23.13		
10	16QAM	1	1		23.15		24.7
10	64QAM	1	1		21.85		23.2
10	256QAM	1	1		19.74		21.2
Channel				158100	158600	159100	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	PI/2 BPSK	1	1	24.09	24.20	24.18	25.7

<FR1 n14_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					158600		
Frequency (MHz)					793		
10	PI/2 BPSK	1	1		24.25		25.7
10	PI/2 BPSK	1	26		24.21		
10	PI/2 BPSK	1	50		23.98		
10	PI/2 BPSK	25	0		23.54		25.2
10	PI/2 BPSK	25	14		24.08		25.7
10	PI/2 BPSK	25	27		23.56		25.2
10	PI/2 BPSK	50	0		23.63		
10	QPSK	1	1		24.19		25.7
10	QPSK	1	26		24.04		
10	QPSK	1	50		24.05		
10	QPSK	25	0		24.02		24.7
10	QPSK	25	14		24.03		25.7
10	QPSK	25	27		23.99		24.7
10	QPSK	50	0		23.14		
10	16QAM	1	1		24.00		24.7
10	64QAM	1	1		21.67		23.2
10	256QAM	1	1		19.65		21.2
Channel				158100	158600	159100	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	PI/2 BPSK	1	1	24.19	23.77	23.85	25.7



<FR1 n14_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					158600		
Frequency (MHz)					793		
10	PI/2 BPSK	1	1		24.29		25.7
10	PI/2 BPSK	1	26		24.08		
10	PI/2 BPSK	1	50		24.00		
10	PI/2 BPSK	25	0		23.69		25.2
10	PI/2 BPSK	25	14		24.25		25.7
10	PI/2 BPSK	25	27		23.73		25.2
10	PI/2 BPSK	50	0		23.71		
10	QPSK	1	1		24.25		25.7
10	QPSK	1	26		24.23		
10	QPSK	1	50		24.22		
10	QPSK	25	0		23.21		24.7
10	QPSK	25	14		24.16		25.7
10	QPSK	25	27		23.12		24.7
10	QPSK	50	0		23.13		
10	16QAM	1	1		23.15		24.7
10	64QAM	1	1		21.85		23.2
10	256QAM	1	1		19.74		21.2
Channel				158100	158600	159100	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	PI/2 BPSK	1	1	24.09	24.20	24.18	25.7

<FR1 n14_Ant 1_Index 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		24.25		25.7
10	PI/2 BPSK	1	26		24.21		
10	PI/2 BPSK	1	50		23.98		
10	PI/2 BPSK	25	0		23.54		25.2
10	PI/2 BPSK	25	14		24.08		25.7
10	PI/2 BPSK	25	27		23.56		25.2
10	PI/2 BPSK	50	0		23.63		
10	QPSK	1	1		24.19		25.7
10	QPSK	1	26		24.04		
10	QPSK	1	50		24.05		
10	QPSK	25	0		24.02		24.7
10	QPSK	25	14		24.03		25.7
10	QPSK	25	27		23.99		24.7
10	QPSK	50	0		23.14		
10	16QAM	1	1		24.00		24.7
10	64QAM	1	1		21.67		23.2
10	256QAM	1	1		19.65		21.2
Channel				158100	158600	159100	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	PI/2 BPSK	1	1	24.19	23.77	23.85	25.7



<FR1 n25_Ant 2_Index 2/3>

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	24.18	24.20	24.12	25.3
40	PI/2 BPSK	1	108	24.09	24.19	24.04	
40	PI/2 BPSK	1	214	23.90	23.92	23.80	
40	PI/2 BPSK	108	0	23.58	23.61	23.45	24.8
40	PI/2 BPSK	108	54	23.95	24.02	23.91	25.3
40	PI/2 BPSK	108	108	23.51	23.53	23.42	24.8
40	PI/2 BPSK	216	0	23.35	23.47	23.29	
40	QPSK	1	1	23.88	23.98	23.83	25.3
40	QPSK	1	108	23.86	23.95	23.87	
40	QPSK	1	214	23.87	23.91	23.74	
40	QPSK	108	0	22.89	22.92	22.83	24.3
40	QPSK	108	54	23.84	23.96	23.84	25.3
40	QPSK	108	108	22.84	22.93	22.83	24.3
40	QPSK	216	0	22.86	22.94	22.82	
40	16QAM	1	1	23.01	23.04	22.91	24.3
40	64QAM	1	1	21.42	21.53	21.36	22.8
40	256QAM	1	1	19.63	19.73	19.56	20.8
Channel				373500	376500	379500	Tune-up limit (dBm)
Frequency (MHz)				1867.5	1882.5	1897.5	
35	PI/2 BPSK	1	1	23.98	24.11	24.09	25.3
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	24.07	24.06	23.99	25.3
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	23.98	24.01	24.00	25.3
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	24.11	24.03	23.95	25.3
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	24.00	24.11	23.93	25.3
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	24.12	24.13	24.09	25.3
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	24.10	24.05	24.10	25.3



<FR1 n25_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				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	15.16	15.15	15.13	16.2
40	PI/2 BPSK	1	108	15.13	15.11	15.03	
40	PI/2 BPSK	1	214	15.11	15.05	15.05	
40	PI/2 BPSK	108	0	15.08	15.00	15.04	16.2
40	PI/2 BPSK	108	54	15.09	15.06	15.06	16.2
40	PI/2 BPSK	108	108	15.04	15.05	15.05	16.2
40	PI/2 BPSK	216	0	15.07	15.11	15.07	
40	QPSK	1	1	15.08	15.01	15.02	16.2
40	QPSK	1	108	15.13	15.10	14.98	
40	QPSK	1	214	15.05	15.01	14.90	
40	QPSK	108	0	15.06	15.10	14.99	16.2
40	QPSK	108	54	14.96	14.94	14.96	16.2
40	QPSK	108	108	15.09	15.01	15.01	16.2
40	QPSK	216	0	15.14	15.06	15.06	
40	16QAM	1	1	15.02	14.98	15.03	16.2
40	64QAM	1	1	15.14	15.07	15.07	16.2
40	256QAM	1	1	15.12	15.06	15.05	16.2
Channel				373500	376500	379500	Tune-up limit (dBm)
Frequency (MHz)				1867.5	1882.5	1897.5	
35	PI/2 BPSK	1	1	15.06	15.13	15.03	16.2
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	15.09	15.15	15.12	16.2
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	15.10	15.11	15.10	16.2
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	15.14	15.09	15.08	16.2
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	15.14	15.07	15.06	16.2
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	15.06	15.06	15.08	16.2
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	15.08	15.08	15.10	16.2



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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	24.00	23.90	23.81	25.3
40	PI/2 BPSK	1	108	23.88	23.83	23.70	
40	PI/2 BPSK	1	214	23.88	23.82	23.70	
40	PI/2 BPSK	108	0	23.44	23.40	23.22	24.8
40	PI/2 BPSK	108	54	23.90	23.88	23.73	25.3
40	PI/2 BPSK	108	108	23.42	23.35	23.18	24.8
40	PI/2 BPSK	216	0	23.46	23.37	23.19	
40	QPSK	1	1	23.99	23.89	23.77	25.3
40	QPSK	1	108	23.88	23.84	23.74	
40	QPSK	1	214	23.88	23.80	23.64	
40	QPSK	108	0	22.93	22.83	22.69	24.3
40	QPSK	108	54	23.93	23.88	23.69	25.3
40	QPSK	108	108	22.89	22.86	22.75	24.3
40	QPSK	216	0	22.83	22.81	22.67	
40	16QAM	1	1	22.78	22.76	22.69	24.3
40	64QAM	1	1	21.54	21.52	21.34	22.8
40	256QAM	1	1	19.64	19.61	19.45	20.8
Channel				373500	376500	379500	Tune-up limit (dBm)
Frequency (MHz)				1867.5	1882.5	1897.5	
35	PI/2 BPSK	1	1	23.89	23.82	23.67	25.3
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	23.96	23.88	23.78	25.3
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	23.96	23.77	23.80	25.3
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.85	23.71	23.78	25.3
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.99	23.78	23.62	25.3
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.83	23.80	23.75	25.3
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.96	23.78	23.67	25.3



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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	25.0
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	23.52	23.54	23.43	25.0
40	PI/2 BPSK	1	108	23.39	23.47	23.30	
40	PI/2 BPSK	1	214	23.37	23.36	23.35	
40	PI/2 BPSK	108	0	22.85	22.96	22.85	24.5
40	PI/2 BPSK	108	54	23.39	23.51	23.37	25.0
40	PI/2 BPSK	108	108	23.08	23.14	23.02	24.5
40	PI/2 BPSK	216	0	22.88	22.90	22.87	
40	QPSK	1	1	23.46	23.52	23.35	25.0
40	QPSK	1	108	23.47	23.49	23.35	
40	QPSK	1	214	23.39	23.41	23.30	
40	QPSK	108	0	22.45	22.51	22.34	24.0
40	QPSK	108	54	23.40	23.42	23.46	25.0
40	QPSK	108	108	22.49	22.53	22.40	24.0
40	QPSK	216	0	22.49	22.51	22.37	
40	16QAM	1	1	22.41	22.33	22.35	24.0
40	64QAM	1	1	22.18	22.29	22.16	22.5
40	256QAM	1	1	19.44	19.53	19.36	20.5
Channel				373500	376500	379500	25.0
Frequency (MHz)				1867.5	1882.5	1897.5	
35	PI/2 BPSK	1	1	23.36	23.41	23.30	25.0
Channel				373000	376500	380000	25.0
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	23.45	23.44	23.37	25.0
Channel				372500	376500	380500	25.0
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	23.39	23.45	23.37	25.0
Channel				372000	376500	381000	25.0
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.38	23.40	23.31	25.0
Channel				371500	376500	381500	25.0
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.45	23.43	23.38	25.0
Channel				371000	376500	382000	25.0
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.43	23.45	23.33	25.0
Channel				370500	376500	382500	25.0
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.35	23.45	23.43	25.0



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Channel	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	15.4
40	PI/2 BPSK	1	108	
40	PI/2 BPSK	1	214	
40	PI/2 BPSK	108	0	15.4
40	PI/2 BPSK	108	54	15.4
40	PI/2 BPSK	108	108	15.4
40	PI/2 BPSK	216	0	
40	QPSK	1	1	15.4
40	QPSK	1	108	
40	QPSK	1	214	
40	QPSK	108	0	15.4
40	QPSK	108	54	15.4
40	QPSK	108	108	15.4
40	QPSK	216	0	
40	16QAM	1	1	15.4
40	64QAM	1	1	15.4
40	256QAM	1	1	15.4
Channel	373500	376500	379500	Tune-up limit (dBm)
Frequency (MHz)	1867.5	1882.5	1897.5	
35	PI/2 BPSK	1	1	15.4
Channel	373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)	1865	1882.5	1900	
30	PI/2 BPSK	1	1	15.4
Channel	372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)	1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	15.4
Channel	372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)	1860	1882.5	1905	
20	PI/2 BPSK	1	1	15.4
Channel	371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)	1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	15.4
Channel	371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)	1855	1882.5	1910	
10	PI/2 BPSK	1	1	15.4
Channel	370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)	1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	15.4



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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				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	17.21	17.22	17.20	18.1
40	PI/2 BPSK	1	108	17.16	17.15	17.10	
40	PI/2 BPSK	1	214	17.17	17.08	17.12	
40	PI/2 BPSK	108	0	17.07	17.04	17.03	18.1
40	PI/2 BPSK	108	54	17.11	17.13	17.08	18.1
40	PI/2 BPSK	108	108	17.05	16.99	16.98	18.1
40	PI/2 BPSK	216	0	16.99	17.04	16.95	
40	QPSK	1	1	17.15	17.18	17.12	18.1
40	QPSK	1	108	17.13	17.04	17.00	
40	QPSK	1	214	17.04	17.04	17.07	
40	QPSK	108	0	17.07	17.07	17.10	18.1
40	QPSK	108	54	17.09	16.97	17.06	18.1
40	QPSK	108	108	16.99	16.91	16.97	18.1
40	QPSK	216	0	17.02	17.03	17.06	
40	16QAM	1	1	17.13	16.96	17.05	18.1
40	64QAM	1	1	17.13	16.99	17.00	18.1
40	256QAM	1	1	17.08	17.05	17.11	18.1
Channel				373500	376500	379500	Tune-up limit (dBm)
Frequency (MHz)				1867.5	1882.5	1897.5	
35	PI/2 BPSK	1	1	17.12	17.13	17.09	18.1
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	17.14	17.12	17.07	18.1
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	17.06	17.18	17.11	18.1
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	17.06	17.16	17.09	18.1
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	17.05	17.18	17.05	18.1
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	17.15	17.11	17.05	18.1
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	17.12	17.12	17.07	18.1



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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				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	20.75	20.81	20.71	21.2
40	PI/2 BPSK	1	108	20.68	20.59	20.63	
40	PI/2 BPSK	1	214	20.60	20.65	20.69	
40	PI/2 BPSK	108	0	20.60	20.69	20.55	21.2
40	PI/2 BPSK	108	54	20.63	20.71	20.66	21.2
40	PI/2 BPSK	108	108	20.58	20.67	20.54	21.2
40	PI/2 BPSK	216	0	20.65	20.68	20.48	
40	QPSK	1	1	20.72	20.78	20.63	21.2
40	QPSK	1	108	20.57	20.60	20.51	
40	QPSK	1	214	20.68	20.55	20.45	
40	QPSK	108	0	20.60	20.69	20.60	21.2
40	QPSK	108	54	20.62	20.69	20.45	21.2
40	QPSK	108	108	20.66	20.62	20.57	21.2
40	QPSK	216	0	20.50	20.64	20.49	
40	16QAM	1	1	20.64	20.62	20.52	21.2
40	64QAM	1	1	20.54	20.61	20.50	21.2
40	256QAM	1	1	19.47	19.47	19.34	21.1
Channel				373500	376500	379500	Tune-up limit (dBm)
Frequency (MHz)				1867.5	1882.5	1897.5	
35	PI/2 BPSK	1	1	20.69	20.72	20.65	21.2
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	20.70	20.78	20.71	21.2
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	20.69	20.74	20.68	21.2
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	20.68	20.80	20.71	21.2
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	20.66	20.73	20.65	21.2
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	20.74	20.75	20.62	21.2
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	20.74	20.80	20.63	21.2



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Channel	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	21.55	21.9
40	PI/2 BPSK	1	108	21.54	
40	PI/2 BPSK	1	214	21.46	
40	PI/2 BPSK	108	0	21.47	21.9
40	PI/2 BPSK	108	54	21.48	21.9
40	PI/2 BPSK	108	108	21.46	21.9
40	PI/2 BPSK	216	0	21.45	
40	QPSK	1	1	21.54	21.9
40	QPSK	1	108	21.43	
40	QPSK	1	214	21.54	
40	QPSK	108	0	21.46	21.9
40	QPSK	108	54	21.52	21.9
40	QPSK	108	108	21.42	21.9
40	QPSK	216	0	21.41	
40	16QAM	1	1	21.39	21.9
40	64QAM	1	1	21.41	21.9
40	256QAM	1	1	19.41	21.1
Channel	373500	376500	379500	Tune-up limit (dBm)	
Frequency (MHz)	1867.5	1882.5	1897.5		
35	PI/2 BPSK	1	1	21.52	21.9
Channel	373000	376500	380000	Tune-up limit (dBm)	
Frequency (MHz)	1865	1882.5	1900		
30	PI/2 BPSK	1	1	21.45	21.9
Channel	372500	376500	380500	Tune-up limit (dBm)	
Frequency (MHz)	1862.5	1882.5	1902.5		
25	PI/2 BPSK	1	1	21.52	21.9
Channel	372000	376500	381000	Tune-up limit (dBm)	
Frequency (MHz)	1860	1882.5	1905		
20	PI/2 BPSK	1	1	21.51	21.9
Channel	371500	376500	381500	Tune-up limit (dBm)	
Frequency (MHz)	1857.5	1882.5	1907.5		
15	PI/2 BPSK	1	1	21.46	21.9
Channel	371000	376500	382000	Tune-up limit (dBm)	
Frequency (MHz)	1855	1882.5	1910		
10	PI/2 BPSK	1	1	21.49	21.9
Channel	370500	376500	382500	Tune-up limit (dBm)	
Frequency (MHz)	1852.5	1882.5	1912.5		
5	PI/2 BPSK	1	1	21.49	21.9



<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	23.52	23.54	23.43	25.0
40	PI/2 BPSK	1	108	23.39	23.47	23.30	
40	PI/2 BPSK	1	214	23.37	23.36	23.35	
40	PI/2 BPSK	108	0	22.85	22.96	22.85	24.5
40	PI/2 BPSK	108	54	23.39	23.51	23.37	25.0
40	PI/2 BPSK	108	108	23.08	23.14	23.02	24.5
40	PI/2 BPSK	216	0	22.88	22.90	22.87	
40	QPSK	1	1	23.46	23.52	23.35	25.0
40	QPSK	1	108	23.47	23.49	23.35	
40	QPSK	1	214	23.39	23.41	23.30	
40	QPSK	108	0	22.45	22.51	22.34	24.0
40	QPSK	108	54	23.40	23.42	23.46	25.0
40	QPSK	108	108	22.49	22.53	22.40	24.0
40	QPSK	216	0	22.49	22.51	22.37	
40	16QAM	1	1	22.41	22.33	22.35	24.0
40	64QAM	1	1	22.18	22.29	22.16	22.5
40	256QAM	1	1	19.44	19.53	19.36	20.5
Channel				373500	376500	379500	Tune-up limit (dBm)
Frequency (MHz)				1867.5	1882.5	1897.5	
35	PI/2 BPSK	1	1	23.36	23.41	23.30	25.0
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	23.45	23.44	23.37	25.0
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	23.39	23.45	23.37	25.0
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.38	23.40	23.31	25.0
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.45	23.43	23.38	25.0
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.43	23.45	23.33	25.0
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.35	23.45	23.43	25.0



<FR1 n25_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	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	17.81	17.82	17.80	19.5
40	PI/2 BPSK	1	108	17.76	17.75	17.70	
40	PI/2 BPSK	1	214	17.77	17.68	17.72	
40	PI/2 BPSK	108	0	17.67	17.64	17.63	19.5
40	PI/2 BPSK	108	54	17.71	17.73	17.68	19.5
40	PI/2 BPSK	108	108	17.65	17.59	17.58	19.5
40	PI/2 BPSK	216	0	17.59	17.64	17.55	
40	QPSK	1	1	17.75	17.78	17.72	19.5
40	QPSK	1	108	17.73	17.64	17.60	
40	QPSK	1	214	17.64	17.64	17.67	
40	QPSK	108	0	17.67	17.67	17.70	19.5
40	QPSK	108	54	17.69	17.57	17.66	19.5
40	QPSK	108	108	17.59	17.51	17.57	19.5
40	QPSK	216	0	17.62	17.63	17.66	
40	16QAM	1	1	17.73	17.56	17.65	19.5
40	64QAM	1	1	17.73	17.59	17.60	19.5
40	256QAM	1	1	17.68	17.65	17.71	19.5
Channel				373500	376500	379500	Tune-up limit (dBm)
Frequency (MHz)				1867.5	1882.5	1897.5	
35	PI/2 BPSK	1	1	17.72	17.73	17.69	19.5
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	17.74	17.72	17.67	19.5
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	17.66	17.78	17.71	19.5
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	17.66	17.76	17.69	19.5
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	17.65	17.78	17.65	19.5
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	17.75	17.71	17.65	19.5
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	17.72	17.72	17.67	19.5



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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	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	20.75	20.81	20.71	22.1
40	PI/2 BPSK	1	108	20.68	20.59	20.63	
40	PI/2 BPSK	1	214	20.60	20.65	20.69	
40	PI/2 BPSK	108	0	20.60	20.69	20.55	22.1
40	PI/2 BPSK	108	54	20.63	20.71	20.66	22.1
40	PI/2 BPSK	108	108	20.58	20.67	20.54	22.1
40	PI/2 BPSK	216	0	20.65	20.68	20.48	
40	QPSK	1	1	20.72	20.78	20.63	22.1
40	QPSK	1	108	20.57	20.60	20.51	
40	QPSK	1	214	20.68	20.55	20.45	
40	QPSK	108	0	20.60	20.69	20.60	22.1
40	QPSK	108	54	20.62	20.69	20.45	22.1
40	QPSK	108	108	20.66	20.62	20.57	22.1
40	QPSK	216	0	20.50	20.64	20.49	
40	16QAM	1	1	20.64	20.62	20.52	22.1
40	64QAM	1	1	20.54	20.61	20.50	22.1
40	256QAM	1	1	19.47	19.47	19.34	21.1
Channel				373500	376500	379500	Tune-up limit (dBm)
Frequency (MHz)				1867.5	1882.5	1897.5	
35	PI/2 BPSK	1	1	20.69	20.72	20.65	22.1
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	20.70	20.78	20.71	22.1
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	20.69	20.74	20.68	22.1
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	20.68	20.80	20.71	22.1
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	20.66	20.73	20.65	22.1
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	20.74	20.75	20.62	22.1
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	20.74	20.80	20.63	22.1



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Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)			
374000	376500	379000					
1870	1882.5	1895					
40	PI/2 BPSK	1	1	22.24	22.26	22.21	23.5
40	PI/2 BPSK	1	108	22.11	22.20	22.14	
40	PI/2 BPSK	1	214	22.23	22.14	22.15	
40	PI/2 BPSK	108	0	22.05	22.13	22.10	23.5
40	PI/2 BPSK	108	54	22.21	22.26	22.17	23.5
40	PI/2 BPSK	108	108	22.07	22.08	22.13	23.5
40	PI/2 BPSK	216	0	22.20	22.13	22.12	
40	QPSK	1	1	22.19	22.21	22.21	23.5
40	QPSK	1	108	22.12	22.21	22.06	
40	QPSK	1	214	22.17	22.19	22.10	
40	QPSK	108	0	22.11	22.12	22.13	23.5
40	QPSK	108	54	22.12	22.10	22.16	23.5
40	QPSK	108	108	22.14	22.09	22.13	23.5
40	QPSK	216	0	22.07	22.05	22.13	
40	16QAM	1	1	22.15	22.20	22.15	23.5
40	64QAM	1	1	21.44	21.44	21.36	23.1
40	256QAM	1	1	19.55	19.59	19.44	21.1
373500	376500	379500					
1867.5	1882.5	1897.5					
35	PI/2 BPSK	1	1	22.19	22.18	22.17	23.5
373000	376500	380000					
1865	1882.5	1900					
30	PI/2 BPSK	1	1	22.14	22.18	22.14	23.5
372500	376500	380500					
1862.5	1882.5	1902.5					
25	PI/2 BPSK	1	1	22.23	22.17	22.19	23.5
372000	376500	381000					
1860	1882.5	1905					
20	PI/2 BPSK	1	1	22.15	22.20	22.16	23.5
371500	376500	381500					
1857.5	1882.5	1907.5					
15	PI/2 BPSK	1	1	22.16	22.17	22.19	23.5
371000	376500	382000					
1855	1882.5	1910					
10	PI/2 BPSK	1	1	22.23	22.22	22.21	23.5
370500	376500	382500					
1852.5	1882.5	1912.5					
5	PI/2 BPSK	1	1	22.22	22.20	22.11	23.5



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Channel	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	23.52	23.54	23.43	25.0
40	PI/2 BPSK	1	108	23.39	23.47	23.30	
40	PI/2 BPSK	1	214	23.37	23.36	23.35	
40	PI/2 BPSK	108	0	22.85	22.96	22.85	24.5
40	PI/2 BPSK	108	54	23.39	23.51	23.37	25.0
40	PI/2 BPSK	108	108	23.08	23.14	23.02	24.5
40	PI/2 BPSK	216	0	22.88	22.90	22.87	
40	QPSK	1	1	23.46	23.52	23.35	25.0
40	QPSK	1	108	23.47	23.49	23.35	
40	QPSK	1	214	23.39	23.41	23.30	
40	QPSK	108	0	22.45	22.51	22.34	24.0
40	QPSK	108	54	23.40	23.42	23.46	25.0
40	QPSK	108	108	22.49	22.53	22.40	24.0
40	QPSK	216	0	22.49	22.51	22.37	
40	16QAM	1	1	22.41	22.33	22.35	24.0
40	64QAM	1	1	22.18	22.29	22.16	22.5
40	256QAM	1	1	19.44	19.53	19.36	20.5
Channel	373500	376500	379500	Tune-up limit (dBm)			
Frequency (MHz)	1867.5	1882.5	1897.5				
35	PI/2 BPSK	1	1	23.36	23.41	23.30	25.0
Channel	373000	376500	380000	Tune-up limit (dBm)			
Frequency (MHz)	1865	1882.5	1900				
30	PI/2 BPSK	1	1	23.45	23.44	23.37	25.0
Channel	372500	376500	380500	Tune-up limit (dBm)			
Frequency (MHz)	1862.5	1882.5	1902.5				
25	PI/2 BPSK	1	1	23.39	23.45	23.37	25.0
Channel	372000	376500	381000	Tune-up limit (dBm)			
Frequency (MHz)	1860	1882.5	1905				
20	PI/2 BPSK	1	1	23.38	23.40	23.31	25.0
Channel	371500	376500	381500	Tune-up limit (dBm)			
Frequency (MHz)	1857.5	1882.5	1907.5				
15	PI/2 BPSK	1	1	23.45	23.43	23.38	25.0
Channel	371000	376500	382000	Tune-up limit (dBm)			
Frequency (MHz)	1855	1882.5	1910				
10	PI/2 BPSK	1	1	23.43	23.45	23.33	25.0
Channel	370500	376500	382500	Tune-up limit (dBm)			
Frequency (MHz)	1852.5	1882.5	1912.5				
5	PI/2 BPSK	1	1	23.35	23.45	23.43	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	17.81	17.82	17.80	18.7
40	PI/2 BPSK	1	108	17.76	17.75	17.70	
40	PI/2 BPSK	1	214	17.77	17.68	17.72	
40	PI/2 BPSK	108	0	17.67	17.64	17.63	18.7
40	PI/2 BPSK	108	54	17.71	17.73	17.68	18.7
40	PI/2 BPSK	108	108	17.65	17.59	17.58	18.7
40	PI/2 BPSK	216	0	17.59	17.64	17.55	
40	QPSK	1	1	17.75	17.78	17.72	18.7
40	QPSK	1	108	17.73	17.64	17.60	
40	QPSK	1	214	17.64	17.64	17.67	
40	QPSK	108	0	17.67	17.67	17.70	18.7
40	QPSK	108	54	17.69	17.57	17.66	18.7
40	QPSK	108	108	17.59	17.51	17.57	18.7
40	QPSK	216	0	17.62	17.63	17.66	
40	16QAM	1	1	17.73	17.56	17.65	18.7
40	64QAM	1	1	17.73	17.59	17.60	18.7
40	256QAM	1	1	17.68	17.65	17.71	18.7
Channel				373500	376500	379500	Tune-up limit (dBm)
Frequency (MHz)				1867.5	1882.5	1897.5	
35	PI/2 BPSK	1	1	17.72	17.73	17.69	18.7
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	17.74	17.72	17.67	18.7
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	17.66	17.78	17.71	18.7
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	17.66	17.76	17.69	18.7
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	17.65	17.78	17.65	18.7
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	17.75	17.71	17.65	18.7
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	17.72	17.72	17.67	18.7



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Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
374000	376500	379000		
1870	1882.5	1895		
40	20.75	20.81	20.71	21.3
40	20.68	20.59	20.63	
40	20.60	20.65	20.69	
40	20.60	20.69	20.55	21.3
40	20.63	20.71	20.66	21.3
40	20.58	20.67	20.54	21.3
40	20.65	20.68	20.48	
40	20.72	20.78	20.63	21.3
40	20.57	20.60	20.51	
40	20.68	20.55	20.45	
40	20.60	20.69	20.60	21.3
40	20.62	20.69	20.45	21.3
40	20.66	20.62	20.57	21.3
40	20.50	20.64	20.49	
40	20.64	20.62	20.52	21.3
40	20.54	20.61	20.50	21.3
40	19.47	19.47	19.34	21.1
373500	376500	379500		
1867.5	1882.5	1897.5		
35	20.69	20.72	20.65	21.3
373000	376500	380000		
1865	1882.5	1900		
30	20.70	20.78	20.71	21.3
372500	376500	380500		
1862.5	1882.5	1902.5		
25	20.69	20.74	20.68	21.3
372000	376500	381000		
1860	1882.5	1905		
20	20.68	20.80	20.71	21.3
371500	376500	381500		
1857.5	1882.5	1907.5		
15	20.66	20.73	20.65	21.3
371000	376500	382000		
1855	1882.5	1910		
10	20.74	20.75	20.62	21.3
370500	376500	382500		
1852.5	1882.5	1912.5		
5	20.74	20.80	20.63	21.3



<FR1 n25_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				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	22.24	22.26	22.21	22.7
40	PI/2 BPSK	1	108	22.11	22.20	22.14	
40	PI/2 BPSK	1	214	22.23	22.14	22.15	
40	PI/2 BPSK	108	0	22.05	22.13	22.10	22.7
40	PI/2 BPSK	108	54	22.21	22.26	22.17	22.7
40	PI/2 BPSK	108	108	22.07	22.08	22.13	22.7
40	PI/2 BPSK	216	0	22.20	22.13	22.12	
40	QPSK	1	1	22.19	22.21	22.21	22.7
40	QPSK	1	108	22.12	22.21	22.06	
40	QPSK	1	214	22.17	22.19	22.10	
40	QPSK	108	0	22.11	22.12	22.13	22.7
40	QPSK	108	54	22.12	22.10	22.16	22.7
40	QPSK	108	108	22.14	22.09	22.13	22.7
40	QPSK	216	0	22.07	22.05	22.13	
40	16QAM	1	1	22.15	22.20	22.15	22.7
40	64QAM	1	1	21.44	21.44	21.36	22.7
40	256QAM	1	1	19.55	19.59	19.44	21.1
Channel				373500	376500	379500	Tune-up limit (dBm)
Frequency (MHz)				1867.5	1882.5	1897.5	
35	PI/2 BPSK	1	1	22.19	22.18	22.17	22.7
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	22.14	22.18	22.14	22.7
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	22.23	22.17	22.19	22.7
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	22.15	22.20	22.16	22.7
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	22.16	22.17	22.19	22.7
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	22.23	22.22	22.21	22.7
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	22.22	22.20	22.11	22.7



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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				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	24.45	24.43	24.16	25.7
20	PI/2 BPSK	1	53	24.40	24.42	24.06	
20	PI/2 BPSK	1	104	24.20	24.28	23.96	
20	PI/2 BPSK	50	0	23.84	23.87	23.50	25.2
20	PI/2 BPSK	50	28	24.29	24.33	24.05	25.7
20	PI/2 BPSK	50	56	23.80	23.86	23.51	25.2
20	PI/2 BPSK	100	0	23.80	23.82	23.51	
20	QPSK	1	1	24.24	24.31	24.02	25.7
20	QPSK	1	53	24.35	24.39	24.02	
20	QPSK	1	104	24.24	24.30	23.98	
20	QPSK	50	0	23.32	23.36	23.02	24.7
20	QPSK	50	28	24.25	24.32	24.01	25.7
20	QPSK	50	56	23.37	23.36	23.09	24.7
20	QPSK	100	0	23.27	23.32	22.96	
20	16QAM	1	1	23.20	23.26	22.96	24.7
20	64QAM	1	1	21.83	21.81	21.50	23.2
20	256QAM	1	1	19.72	19.80	19.48	21.2
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	24.31	24.26	24.10	25.7
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	24.25	24.38	24.16	25.7
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	24.32	24.30	24.06	25.7



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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				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	23.00	22.94	22.83	24.0
20	PI/2 BPSK	1	53	22.89	22.79	22.75	
20	PI/2 BPSK	1	104	22.87	22.83	22.82	
20	PI/2 BPSK	50	0	22.80	22.88	22.66	24.0
20	PI/2 BPSK	50	28	22.88	22.81	22.81	24.0
20	PI/2 BPSK	50	56	22.83	22.87	22.67	24.0
20	PI/2 BPSK	100	0	22.99	22.94	22.69	
20	QPSK	1	1	22.97	22.85	22.63	24.0
20	QPSK	1	53	22.88	22.75	22.64	
20	QPSK	1	104	22.83	22.75	22.63	
20	QPSK	50	0	22.99	22.76	22.82	24.0
20	QPSK	50	28	22.93	22.91	22.64	24.0
20	QPSK	50	56	22.96	22.74	22.71	24.0
20	QPSK	100	0	22.87	22.85	22.74	
20	16QAM	1	1	22.83	22.81	22.66	24.0
20	64QAM	1	1	21.73	21.70	21.63	23.2
20	256QAM	1	1	19.75	19.72	19.68	21.2
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	22.95	22.91	22.63	24.0
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	22.83	22.83	22.83	24.0
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	22.89	22.91	22.74	24.0



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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				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	23.00	22.94	22.83	23.2
20	PI/2 BPSK	1	53	22.89	22.79	22.75	
20	PI/2 BPSK	1	104	22.87	22.83	22.82	
20	PI/2 BPSK	50	0	22.80	22.88	22.66	23.2
20	PI/2 BPSK	50	28	22.88	22.81	22.81	23.2
20	PI/2 BPSK	50	56	22.83	22.87	22.67	23.2
20	PI/2 BPSK	100	0	22.99	22.94	22.69	
20	QPSK	1	1	22.97	22.85	22.63	23.2
20	QPSK	1	53	22.88	22.75	22.64	
20	QPSK	1	104	22.83	22.75	22.63	
20	QPSK	50	0	22.99	22.76	22.82	23.2
20	QPSK	50	28	22.93	22.91	22.64	23.2
20	QPSK	50	56	22.96	22.74	22.71	23.2
20	QPSK	100	0	22.87	22.85	22.74	
20	16QAM	1	1	22.83	22.81	22.66	23.2
20	64QAM	1	1	21.73	21.70	21.63	23.2
20	256QAM	1	1	19.75	19.72	19.68	21.2
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	22.95	22.91	22.63	23.2
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	22.83	22.83	22.83	23.2
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	22.89	22.91	22.74	23.2



<FR1 n26_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				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	24.45	24.43	24.16	25.7
20	PI/2 BPSK	1	53	24.40	24.42	24.06	
20	PI/2 BPSK	1	104	24.20	24.28	23.96	
20	PI/2 BPSK	50	0	23.84	23.87	23.50	25.2
20	PI/2 BPSK	50	28	24.29	24.33	24.05	25.7
20	PI/2 BPSK	50	56	23.80	23.86	23.51	25.2
20	PI/2 BPSK	100	0	23.80	23.82	23.51	
20	QPSK	1	1	24.24	24.31	24.02	25.7
20	QPSK	1	53	24.35	24.39	24.02	
20	QPSK	1	104	24.24	24.30	23.98	
20	QPSK	50	0	23.32	23.36	23.02	24.7
20	QPSK	50	28	24.25	24.32	24.01	25.7
20	QPSK	50	56	23.37	23.36	23.09	24.7
20	QPSK	100	0	23.27	23.32	22.96	
20	16QAM	1	1	23.20	23.26	22.96	24.7
20	64QAM	1	1	21.83	21.81	21.50	23.2
20	256QAM	1	1	19.72	19.80	19.48	21.2
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	24.31	24.26	24.10	25.7
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	24.25	24.38	24.16	25.7
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	24.32	24.30	24.06	25.7



<FR1 n26_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				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	24.29	24.26	24.12	25.7
20	PI/2 BPSK	1	53	24.22	24.19	24.02	
20	PI/2 BPSK	1	104	24.07	24.09	23.90	
20	PI/2 BPSK	50	0	23.61	23.63	23.48	25.2
20	PI/2 BPSK	50	28	24.04	24.10	23.95	25.7
20	PI/2 BPSK	50	56	23.54	23.61	23.45	25.2
20	PI/2 BPSK	100	0	23.55	23.59	23.44	
20	QPSK	1	1	24.16	24.22	24.05	25.7
20	QPSK	1	53	24.15	24.19	23.97	
20	QPSK	1	104	24.05	24.06	23.89	
20	QPSK	50	0	23.18	23.17	23.03	24.7
20	QPSK	50	28	24.04	24.10	23.93	25.7
20	QPSK	50	56	23.07	23.12	22.98	24.7
20	QPSK	100	0	23.04	23.08	22.92	
20	16QAM	1	1	23.11	23.15	22.96	24.7
20	64QAM	1	1	21.64	21.64	21.44	23.2
20	256QAM	1	1	19.57	19.63	19.43	21.2
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	24.23	24.11	23.94	25.7
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	24.26	24.07	24.02	25.7
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	24.12	24.18	23.95	25.7



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Channel	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	24.45	24.43	24.16	25.7
20	PI/2 BPSK	1	53	24.40	24.42	24.06	
20	PI/2 BPSK	1	104	24.20	24.28	23.96	
20	PI/2 BPSK	50	0	23.84	23.87	23.50	25.2
20	PI/2 BPSK	50	28	24.29	24.33	24.05	25.7
20	PI/2 BPSK	50	56	23.80	23.86	23.51	25.2
20	PI/2 BPSK	100	0	23.80	23.82	23.51	
20	QPSK	1	1	24.24	24.31	24.02	25.7
20	QPSK	1	53	24.35	24.39	24.02	
20	QPSK	1	104	24.24	24.30	23.98	
20	QPSK	50	0	23.32	23.36	23.02	24.7
20	QPSK	50	28	24.25	24.32	24.01	25.7
20	QPSK	50	56	23.37	23.36	23.09	24.7
20	QPSK	100	0	23.27	23.32	22.96	
20	16QAM	1	1	23.20	23.26	22.96	24.7
20	64QAM	1	1	21.83	21.81	21.50	23.2
20	256QAM	1	1	19.72	19.80	19.48	21.2
Channel	164300	166300	168300	Tune-up limit (dBm)			
Frequency (MHz)	821.5	831.5	841.5				
15	PI/2 BPSK	1	1	24.31	24.26	24.10	25.7
Channel	163800	166300	168800	Tune-up limit (dBm)			
Frequency (MHz)	819	831.5	844				
10	PI/2 BPSK	1	1	24.25	24.38	24.16	25.7
Channel	163300	166300	169300	Tune-up limit (dBm)			
Frequency (MHz)	816.5	831.5	846.5				
5	PI/2 BPSK	1	1	24.32	24.30	24.06	25.7



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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				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	24.29	24.26	24.12	25.7
20	PI/2 BPSK	1	53	24.22	24.19	24.02	
20	PI/2 BPSK	1	104	24.07	24.09	23.90	
20	PI/2 BPSK	50	0	23.61	23.63	23.48	25.2
20	PI/2 BPSK	50	28	24.04	24.10	23.95	25.7
20	PI/2 BPSK	50	56	23.54	23.61	23.45	25.2
20	PI/2 BPSK	100	0	23.55	23.59	23.44	
20	QPSK	1	1	24.16	24.22	24.05	25.7
20	QPSK	1	53	24.15	24.19	23.97	
20	QPSK	1	104	24.05	24.06	23.89	
20	QPSK	50	0	23.18	23.17	23.03	24.7
20	QPSK	50	28	24.04	24.10	23.93	25.7
20	QPSK	50	56	23.07	23.12	22.98	24.7
20	QPSK	100	0	23.04	23.08	22.92	
20	16QAM	1	1	23.11	23.15	22.96	24.7
20	64QAM	1	1	21.64	21.64	21.44	23.2
20	256QAM	1	1	19.57	19.63	19.43	21.2
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	24.23	24.11	23.94	25.7
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	24.26	24.07	24.02	25.7
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	24.12	24.18	23.95	25.7



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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				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	24.45	24.43	24.16	25.7
20	PI/2 BPSK	1	53	24.40	24.42	24.06	
20	PI/2 BPSK	1	104	24.20	24.28	23.96	
20	PI/2 BPSK	50	0	23.84	23.87	23.50	25.2
20	PI/2 BPSK	50	28	24.29	24.33	24.05	25.7
20	PI/2 BPSK	50	56	23.80	23.86	23.51	25.2
20	PI/2 BPSK	100	0	23.80	23.82	23.51	
20	QPSK	1	1	24.24	24.31	24.02	25.7
20	QPSK	1	53	24.35	24.39	24.02	
20	QPSK	1	104	24.24	24.30	23.98	
20	QPSK	50	0	23.32	23.36	23.02	24.7
20	QPSK	50	28	24.25	24.32	24.01	25.7
20	QPSK	50	56	23.37	23.36	23.09	24.7
20	QPSK	100	0	23.27	23.32	22.96	
20	16QAM	1	1	23.20	23.26	22.96	24.7
20	64QAM	1	1	21.83	21.81	21.50	23.2
20	256QAM	1	1	19.72	19.80	19.48	21.2
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	24.31	24.26	24.10	25.7
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	24.25	24.38	24.16	25.7
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	24.32	24.30	24.06	25.7



<FR1 n26_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				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	24.29	24.26	24.12	25.7
20	PI/2 BPSK	1	53	24.22	24.19	24.02	
20	PI/2 BPSK	1	104	24.07	24.09	23.90	
20	PI/2 BPSK	50	0	23.61	23.63	23.48	25.2
20	PI/2 BPSK	50	28	24.04	24.10	23.95	25.7
20	PI/2 BPSK	50	56	23.54	23.61	23.45	25.2
20	PI/2 BPSK	100	0	23.55	23.59	23.44	
20	QPSK	1	1	24.16	24.22	24.05	25.7
20	QPSK	1	53	24.15	24.19	23.97	
20	QPSK	1	104	24.05	24.06	23.89	
20	QPSK	50	0	23.18	23.17	23.03	24.7
20	QPSK	50	28	24.04	24.10	23.93	25.7
20	QPSK	50	56	23.07	23.12	22.98	24.7
20	QPSK	100	0	23.04	23.08	22.92	
20	16QAM	1	1	23.11	23.15	22.96	24.7
20	64QAM	1	1	21.64	21.64	21.44	23.2
20	256QAM	1	1	19.57	19.63	19.43	21.2
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	24.23	24.11	23.94	25.7
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	24.26	24.07	24.02	25.7
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	24.12	24.18	23.95	25.7



<FR1 n30_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					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		22.45		23.5
10	PI/2 BPSK	1	26		22.37		
10	PI/2 BPSK	1	50		22.36		
10	PI/2 BPSK	25	0		21.83		23.0
10	PI/2 BPSK	25	14		22.36		23.5
10	PI/2 BPSK	25	27		21.87		23.0
10	PI/2 BPSK	50	0		21.84		
10	QPSK	1	1		22.42		23.5
10	QPSK	1	26		22.38		
10	QPSK	1	50		22.36		
10	QPSK	25	0		21.32		22.5
10	QPSK	25	14		22.35		23.5
10	QPSK	25	27		21.34		22.5
10	QPSK	50	0		21.33		
10	16QAM	1	1		21.44		22.5
10	64QAM	1	1		19.87		21.0
10	256QAM	1	1		17.87		19.0
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	22.32	22.39	22.26	23.5

<FR1 n30_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					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		22.45		22.8
10	PI/2 BPSK	1	26		22.37		
10	PI/2 BPSK	1	50		22.36		
10	PI/2 BPSK	25	0		21.83		22.8
10	PI/2 BPSK	25	14		22.36		22.8
10	PI/2 BPSK	25	27		21.87		22.8
10	PI/2 BPSK	50	0		21.84		
10	QPSK	1	1		22.42		22.8
10	QPSK	1	26		22.38		
10	QPSK	1	50		22.36		
10	QPSK	25	0		21.32		22.5
10	QPSK	25	14		22.35		22.8
10	QPSK	25	27		21.34		22.5
10	QPSK	50	0		21.33		
10	16QAM	1	1		21.44		22.5
10	64QAM	1	1		19.87		21.0
10	256QAM	1	1		17.87		19.0
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	22.32	22.39	22.26	22.8



<FR1 n30_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					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		16.39		17.0
10	PI/2 BPSK	1	26		16.35		
10	PI/2 BPSK	1	50		16.34		
10	PI/2 BPSK	25	0		16.33		17.0
10	PI/2 BPSK	25	14		16.37		17.0
10	PI/2 BPSK	25	27		16.29		17.0
10	PI/2 BPSK	50	0		16.29		
10	QPSK	1	1		16.30		17.0
10	QPSK	1	26		16.31		
10	QPSK	1	50		16.35		
10	QPSK	25	0		16.31		17.0
10	QPSK	25	14		16.34		17.0
10	QPSK	25	27		16.26		17.0
10	QPSK	50	0		16.27		
10	16QAM	1	1		16.28		17.0
10	64QAM	1	1		16.32		17.0
10	256QAM	1	1		16.31		17.0
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	16.33	16.35	16.31	17.0

<FR1 n30_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					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		22.45		23.1
10	PI/2 BPSK	1	26		22.37		
10	PI/2 BPSK	1	50		22.36		
10	PI/2 BPSK	25	0		21.83		23.0
10	PI/2 BPSK	25	14		22.36		23.1
10	PI/2 BPSK	25	27		21.87		23.0
10	PI/2 BPSK	50	0		21.84		
10	QPSK	1	1		22.42		23.1
10	QPSK	1	26		22.38		
10	QPSK	1	50		22.36		
10	QPSK	25	0		21.32		22.5
10	QPSK	25	14		22.35		23.1
10	QPSK	25	27		21.34		22.5
10	QPSK	50	0		21.33		
10	16QAM	1	1		21.44		22.5
10	64QAM	1	1		19.87		21.0
10	256QAM	1	1		17.87		19.0
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	22.32	22.39	22.26	23.1



<FR1 n30_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					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		16.39		18.2
10	PI/2 BPSK	1	26		16.35		
10	PI/2 BPSK	1	50		16.34		
10	PI/2 BPSK	25	0		16.33		18.2
10	PI/2 BPSK	25	14		16.37		18.2
10	PI/2 BPSK	25	27		16.29		18.2
10	PI/2 BPSK	50	0		16.29		
10	QPSK	1	1		16.30		18.2
10	QPSK	1	26		16.31		
10	QPSK	1	50		16.35		
10	QPSK	25	0		16.31		18.2
10	QPSK	25	14		16.34		18.2
10	QPSK	25	27		16.26		18.2
10	QPSK	50	0		16.27		
10	16QAM	1	1		16.28		18.2
10	64QAM	1	1		16.32		18.2
10	256QAM	1	1		16.31		18.2
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	16.33	16.35	16.31	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					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		22.45		23.5
10	PI/2 BPSK	1	26		22.37		
10	PI/2 BPSK	1	50		22.36		
10	PI/2 BPSK	25	0		21.83		23.0
10	PI/2 BPSK	25	14		22.36		23.5
10	PI/2 BPSK	25	27		21.87		23.0
10	PI/2 BPSK	50	0		21.84		
10	QPSK	1	1		22.42		23.5
10	QPSK	1	26		22.38		
10	QPSK	1	50		22.36		
10	QPSK	25	0		21.32		22.5
10	QPSK	25	14		22.35		23.5
10	QPSK	25	27		21.34		22.5
10	QPSK	50	0		21.33		
10	16QAM	1	1		21.44		22.5
10	64QAM	1	1		19.87		21.0
10	256QAM	1	1		17.87		19.0
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	22.32	22.39	22.26	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					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		16.39		17.4
10	PI/2 BPSK	1	26		16.35		
10	PI/2 BPSK	1	50		16.34		
10	PI/2 BPSK	25	0		16.33		17.4
10	PI/2 BPSK	25	14		16.37		17.4
10	PI/2 BPSK	25	27		16.29		17.4
10	PI/2 BPSK	50	0		16.29		
10	QPSK	1	1		16.30		17.4
10	QPSK	1	26		16.31		
10	QPSK	1	50		16.35		
10	QPSK	25	0		16.31		17.4
10	QPSK	25	14		16.34		17.4
10	QPSK	25	27		16.26		17.4
10	QPSK	50	0		16.27		
10	16QAM	1	1		16.28		17.4
10	64QAM	1	1		16.32		17.4
10	256QAM	1	1		16.31		17.4
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	16.33	16.35	16.31	17.4

<FR1 n30_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					462000		
Frequency (MHz)					2310		
10	PI/2 BPSK	1	1		22.45		23.1
10	PI/2 BPSK	1	26		22.37		
10	PI/2 BPSK	1	50		22.36		
10	PI/2 BPSK	25	0		21.83		23.0
10	PI/2 BPSK	25	14		22.36		23.1
10	PI/2 BPSK	25	27		21.87		23.0
10	PI/2 BPSK	50	0		21.84		
10	QPSK	1	1		22.42		23.1
10	QPSK	1	26		22.38		
10	QPSK	1	50		22.36		
10	QPSK	25	0		21.32		22.5
10	QPSK	25	14		22.35		23.1
10	QPSK	25	27		21.34		22.5
10	QPSK	50	0		21.33		
10	16QAM	1	1		21.44		22.5
10	64QAM	1	1		19.87		21.0
10	256QAM	1	1		17.87		19.0
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	PI/2 BPSK	1	1	22.32	22.39	22.26	23.1



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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				518000	519000	520000	25.1
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	24.41	24.43	24.39	
40	PI/2 BPSK	1	53	24.36	24.38	24.25	24.6
40	PI/2 BPSK	1	104	24.28	24.34	24.29	
40	PI/2 BPSK	50	0	23.79	23.88	23.78	25.1
40	PI/2 BPSK	50	28	24.29	24.37	24.30	
40	PI/2 BPSK	50	56	23.73	23.82	23.78	24.6
40	PI/2 BPSK	100	0	23.84	23.88	23.78	
40	QPSK	1	1	24.33	24.42	24.29	25.1
40	QPSK	1	53	24.30	24.39	24.31	
40	QPSK	1	104	24.35	24.38	24.29	
40	QPSK	50	0	23.36	23.38	23.29	24.1
40	QPSK	50	28	24.37	24.39	24.32	25.1
40	QPSK	50	56	23.31	23.33	23.26	24.1
40	QPSK	100	0	23.34	23.38	23.29	
40	16QAM	1	1	23.31	23.39	23.30	24.1
40	64QAM	1	1	21.89	21.93	21.87	22.6
40	256QAM	1	1	20.03	20.12	19.98	20.6
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	24.31	24.28	24.23	25.1
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	24.34	24.25	24.27	25.1
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	24.25	24.42	24.30	25.1
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	24.23	24.27	24.25	25.1
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	24.30	24.24	24.27	25.1



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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				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	22.26	22.27	22.26	
40	PI/2 BPSK	1	53	22.08	22.12	22.21	
40	PI/2 BPSK	1	104	22.26	22.15	22.10	
40	PI/2 BPSK	50	0	22.21	22.19	22.07	23.7
40	PI/2 BPSK	50	28	22.23	22.25	22.23	23.7
40	PI/2 BPSK	50	56	22.17	22.22	22.21	23.7
40	PI/2 BPSK	100	0	22.19	22.20	22.16	
40	QPSK	1	1	22.12	22.13	22.17	23.7
40	QPSK	1	53	22.21	22.22	22.23	
40	QPSK	1	104	22.23	22.11	22.26	
40	QPSK	50	0	22.24	22.23	22.21	23.7
40	QPSK	50	28	22.06	22.25	22.11	23.7
40	QPSK	50	56	22.12	22.18	22.21	23.7
40	QPSK	100	0	22.15	22.14	22.15	
40	16QAM	1	1	22.07	22.20	22.23	23.7
40	64QAM	1	1	21.84	21.86	21.82	22.6
40	256QAM	1	1	20.03	20.06	20.02	20.6
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	22.20	22.21	22.09	23.7
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	22.13	22.18	22.17	23.7
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	22.26	22.07	22.07	23.7
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	22.15	22.11	22.25	23.7
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	22.07	22.16	22.08	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				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	24.18	24.19	24.21	25.1
40	PI/2 BPSK	1	53	24.06	24.15	24.11	
40	PI/2 BPSK	1	104	24.08	24.13	24.09	
40	PI/2 BPSK	50	0	23.63	23.68	23.62	24.6
40	PI/2 BPSK	50	28	24.08	24.11	24.12	25.1
40	PI/2 BPSK	50	56	23.54	23.61	23.57	24.6
40	PI/2 BPSK	100	0	23.56	23.60	23.59	
40	QPSK	1	1	24.07	24.17	24.11	25.1
40	QPSK	1	53	24.05	24.15	24.09	
40	QPSK	1	104	24.14	24.16	24.08	
40	QPSK	50	0	23.14	23.16	23.14	24.1
40	QPSK	50	28	24.08	24.13	24.14	25.1
40	QPSK	50	56	23.06	23.12	23.04	24.1
40	QPSK	100	0	23.11	23.13	23.07	
40	16QAM	1	1	23.07	23.14	23.15	24.1
40	64QAM	1	1	21.65	21.69	21.63	22.6
40	256QAM	1	1	19.77	19.86	19.85	20.6
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	24.13	24.09	24.12	25.1
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	24.06	24.16	24.15	25.1
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	24.13	24.09	24.08	25.1
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	24.18	24.01	24.14	25.1
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	24.14	24.05	24.19	25.1



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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				518000	519000	520000	20.6
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	19.55	19.59	19.49	
40	PI/2 BPSK	1	53	19.43	19.47	19.27	20.6
40	PI/2 BPSK	1	104	19.29	19.40	19.23	
40	PI/2 BPSK	50	0	19.35	19.44	19.24	20.6
40	PI/2 BPSK	50	28	19.43	19.50	19.40	20.6
40	PI/2 BPSK	50	56	19.38	19.44	19.28	20.6
40	PI/2 BPSK	100	0	19.36	19.43	19.33	
40	QPSK	1	1	19.42	19.54	19.37	20.6
40	QPSK	1	53	19.32	19.45	19.29	
40	QPSK	1	104	19.28	19.38	19.20	
40	QPSK	50	0	19.33	19.45	19.34	20.6
40	QPSK	50	28	19.45	19.53	19.43	20.6
40	QPSK	50	56	19.32	19.43	19.33	20.6
40	QPSK	100	0	19.32	19.45	19.30	
40	16QAM	1	1	19.47	19.54	19.42	20.6
40	64QAM	1	1	19.25	19.39	19.26	20.6
40	256QAM	1	1	19.30	19.35	19.15	20.3
Channel				517000	519000	521000	20.6
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	19.55	19.50	19.39	20.6
Channel				516500	519000	521500	20.6
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	19.48	19.57	19.39	20.6
Channel				516000	519000	522000	20.6
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	19.45	19.51	19.43	20.6
Channel				515500	519000	522500	20.6
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	19.45	19.53	19.49	20.6
Channel				515000	519000	523000	20.6
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	19.50	19.57	19.43	20.6



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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	22.26	22.27	22.26	
40	PI/2 BPSK	1	53	22.08	22.12	22.21	22.9
40	PI/2 BPSK	1	104	22.26	22.15	22.10	
40	PI/2 BPSK	50	0	22.21	22.19	22.07	
40	PI/2 BPSK	50	28	22.23	22.25	22.23	22.9
40	PI/2 BPSK	50	56	22.17	22.22	22.21	22.9
40	PI/2 BPSK	100	0	22.19	22.20	22.16	
40	QPSK	1	1	22.12	22.13	22.17	22.9
40	QPSK	1	53	22.21	22.22	22.23	
40	QPSK	1	104	22.23	22.11	22.26	
40	QPSK	50	0	22.24	22.23	22.21	22.9
40	QPSK	50	28	22.06	22.25	22.11	22.9
40	QPSK	50	56	22.12	22.18	22.21	22.9
40	QPSK	100	0	22.15	22.14	22.15	
40	16QAM	1	1	22.07	22.20	22.23	22.9
40	64QAM	1	1	21.84	21.86	21.82	22.6
40	256QAM	1	1	20.03	20.06	20.02	20.6
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	22.20	22.21	22.09	22.9
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	22.13	22.18	22.17	22.9
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	22.26	22.07	22.07	22.9
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	22.15	22.11	22.25	22.9
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	22.07	22.16	22.08	22.9



<FR1 n38_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				518000	519000	520000	19.8
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	19.55	19.59	19.49	
40	PI/2 BPSK	1	53	19.43	19.47	19.27	19.8
40	PI/2 BPSK	1	104	19.29	19.40	19.23	
40	PI/2 BPSK	50	0	19.35	19.44	19.24	19.8
40	PI/2 BPSK	50	28	19.43	19.50	19.40	19.8
40	PI/2 BPSK	50	56	19.38	19.44	19.28	19.8
40	PI/2 BPSK	100	0	19.36	19.43	19.33	
40	QPSK	1	1	19.42	19.54	19.37	19.8
40	QPSK	1	53	19.32	19.45	19.29	
40	QPSK	1	104	19.28	19.38	19.20	
40	QPSK	50	0	19.33	19.45	19.34	19.8
40	QPSK	50	28	19.45	19.53	19.43	19.8
40	QPSK	50	56	19.32	19.43	19.33	19.8
40	QPSK	100	0	19.32	19.45	19.30	
40	16QAM	1	1	19.47	19.54	19.42	19.8
40	64QAM	1	1	19.25	19.39	19.26	19.8
40	256QAM	1	1	19.30	19.35	19.15	19.8
Channel				517000	519000	521000	19.8
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	19.55	19.50	19.39	19.8
Channel				516500	519000	521500	19.8
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	19.48	19.57	19.39	19.8
Channel				516000	519000	522000	19.8
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	19.45	19.51	19.43	19.8
Channel				515500	519000	522500	19.8
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	19.45	19.53	19.49	19.8
Channel				515000	519000	523000	19.8
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	19.50	19.57	19.43	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				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	18.25	18.27	18.24	18.6
40	PI/2 BPSK	1	53	18.11	18.20	18.17	
40	PI/2 BPSK	1	104	18.06	18.16	18.06	
40	PI/2 BPSK	50	0	18.18	18.21	18.11	18.6
40	PI/2 BPSK	50	28	18.20	18.23	18.16	18.6
40	PI/2 BPSK	50	56	18.07	18.17	18.04	18.6
40	PI/2 BPSK	100	0	18.10	18.21	18.14	
40	QPSK	1	1	18.21	18.23	18.16	18.6
40	QPSK	1	53	18.11	18.18	18.12	
40	QPSK	1	104	18.16	18.19	18.11	
40	QPSK	50	0	18.16	18.22	18.12	18.6
40	QPSK	50	28	18.18	18.21	18.09	18.6
40	QPSK	50	56	18.04	18.15	18.12	18.6
40	QPSK	100	0	18.15	18.19	18.07	
40	16QAM	1	1	18.15	18.21	18.09	18.6
40	64QAM	1	1	18.16	18.25	18.22	18.6
40	256QAM	1	1	18.24	18.26	18.22	18.6
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	18.18	18.23	18.14	18.6
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	18.22	18.17	18.20	18.6
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	18.22	18.17	18.18	18.6
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	18.14	18.23	18.22	18.6
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	18.17	18.18	18.18	18.6



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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	21.4
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	21.12	21.25	21.16	
40	PI/2 BPSK	1	53	20.93	21.06	20.88	21.4
40	PI/2 BPSK	1	104	20.78	20.94	20.76	
40	PI/2 BPSK	50	0	20.99	21.07	20.88	21.4
40	PI/2 BPSK	50	28	21.05	21.11	20.93	21.4
40	PI/2 BPSK	50	56	20.78	20.92	20.86	21.4
40	PI/2 BPSK	100	0	20.84	21.05	20.87	
40	QPSK	1	1	20.96	21.04	20.93	21.4
40	QPSK	1	53	20.93	21.07	20.96	
40	QPSK	1	104	20.82	20.97	20.79	
40	QPSK	50	0	20.89	21.01	20.99	21.4
40	QPSK	50	28	20.98	21.03	20.89	21.4
40	QPSK	50	56	20.93	20.97	20.92	21.4
40	QPSK	100	0	20.85	21.01	20.91	
40	16QAM	1	1	20.93	21.14	21.00	21.4
40	64QAM	1	1	21.02	21.07	21.11	21.4
40	256QAM	1	1	20.05	20.03	19.99	20.6
Channel				517000	519000	521000	21.4
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	21.06	21.18	21.09	21.4
Channel				516500	519000	521500	21.4
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	21.07	21.23	21.14	21.4
Channel				516000	519000	522000	21.4
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	21.06	21.19	21.09	21.4
Channel				515500	519000	522500	21.4
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	21.06	21.24	21.07	21.4
Channel				515000	519000	523000	21.4
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	21.06	21.23	21.15	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	22.6
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	22.02	22.04	22.03	
40	PI/2 BPSK	1	53	21.90	21.98	21.90	22.6
40	PI/2 BPSK	1	104	21.90	21.92	21.89	
40	PI/2 BPSK	50	0	21.89	21.96	21.93	22.6
40	PI/2 BPSK	50	28	21.91	21.99	21.94	22.6
40	PI/2 BPSK	50	56	21.83	21.94	21.91	22.6
40	PI/2 BPSK	100	0	21.87	21.94	21.93	
40	QPSK	1	1	21.93	22.02	22.01	22.6
40	QPSK	1	53	21.89	21.94	21.87	
40	QPSK	1	104	21.91	21.96	21.86	
40	QPSK	50	0	21.92	21.97	21.91	22.6
40	QPSK	50	28	21.96	21.98	21.95	22.6
40	QPSK	50	56	21.84	21.96	21.91	22.6
40	QPSK	100	0	21.86	21.93	21.90	
40	16QAM	1	1	21.93	21.96	21.95	22.6
40	64QAM	1	1	21.52	21.64	21.58	22.6
40	256QAM	1	1	19.75	19.77	19.70	20.6
Channel				517000	519000	521000	22.6
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	21.99	21.95	21.94	22.6
Channel				516500	519000	521500	22.6
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	22.02	21.94	22.03	22.6
Channel				516000	519000	522000	22.6
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	21.95	21.98	22.03	22.6
Channel				515500	519000	522500	22.6
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	21.95	21.96	21.98	22.6
Channel				515000	519000	523000	22.6
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	22.00	21.98	22.01	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	22.35	22.58	22.23	
40	PI/2 BPSK	1	53	22.28	22.42	22.03	22.7
40	PI/2 BPSK	1	104	22.29	22.21	22.13	
40	PI/2 BPSK	50	0	22.34	22.29	22.44	22.7
40	PI/2 BPSK	50	28	22.19	22.50	22.46	22.7
40	PI/2 BPSK	50	56	22.20	22.48	22.32	22.7
40	PI/2 BPSK	100	0	22.04	22.21	22.12	
40	QPSK	1	1	22.37	22.39	22.23	22.7
40	QPSK	1	53	22.45	22.24	22.40	
40	QPSK	1	104	22.36	22.37	22.06	
40	QPSK	50	0	22.35	22.29	22.44	22.7
40	QPSK	50	28	22.33	22.56	22.23	22.7
40	QPSK	50	56	22.41	22.38	22.25	22.7
40	QPSK	100	0	22.37	22.41	22.12	
40	16QAM	1	1	22.32	22.23	22.17	22.7
40	64QAM	1	1	21.23	21.42	21.29	22.3
40	256QAM	1	1	19.59	19.66	19.32	20.3
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	22.40	22.34	22.46	22.7
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	22.38	22.24	22.50	22.7
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	22.32	22.38	22.44	22.7
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	22.51	22.57	22.48	22.7
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	22.31	22.49	22.20	22.7



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Channel	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	18.25	18.27	18.24	19.6
40	PI/2 BPSK	1	53	18.11	18.20	18.17	
40	PI/2 BPSK	1	104	18.06	18.16	18.06	
40	PI/2 BPSK	50	0	18.18	18.21	18.11	19.6
40	PI/2 BPSK	50	28	18.20	18.23	18.16	19.6
40	PI/2 BPSK	50	56	18.07	18.17	18.04	19.6
40	PI/2 BPSK	100	0	18.10	18.21	18.14	
40	QPSK	1	1	18.21	18.23	18.16	19.6
40	QPSK	1	53	18.11	18.18	18.12	
40	QPSK	1	104	18.16	18.19	18.11	
40	QPSK	50	0	18.16	18.22	18.12	19.6
40	QPSK	50	28	18.18	18.21	18.09	19.6
40	QPSK	50	56	18.04	18.15	18.12	19.6
40	QPSK	100	0	18.15	18.19	18.07	
40	16QAM	1	1	18.15	18.21	18.09	19.6
40	64QAM	1	1	18.16	18.25	18.22	19.6
40	256QAM	1	1	18.24	18.26	18.22	19.6
Channel	517000	519000	521000	Tune-up limit (dBm)			
Frequency (MHz)	2585	2595	2605				
30	PI/2 BPSK	1	1	18.18	18.23	18.14	19.6
Channel	516500	519000	521500	Tune-up limit (dBm)			
Frequency (MHz)	2582.5	2595	2607.5				
25	PI/2 BPSK	1	1	18.22	18.17	18.20	19.6
Channel	516000	519000	522000	Tune-up limit (dBm)			
Frequency (MHz)	2580	2595	2610				
20	PI/2 BPSK	1	1	18.22	18.17	18.18	19.6
Channel	515500	519000	522500	Tune-up limit (dBm)			
Frequency (MHz)	2577.5	2595	2612.5				
15	PI/2 BPSK	1	1	18.14	18.23	18.22	19.6
Channel	515000	519000	523000	Tune-up limit (dBm)			
Frequency (MHz)	2575	2595	2615				
10	PI/2 BPSK	1	1	18.17	18.18	18.18	19.6



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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	21.12	21.25	21.16	22.2
40	PI/2 BPSK	1	53	20.93	21.06	20.88	
40	PI/2 BPSK	1	104	20.78	20.94	20.76	
40	PI/2 BPSK	50	0	20.99	21.07	20.88	22.2
40	PI/2 BPSK	50	28	21.05	21.11	20.93	22.2
40	PI/2 BPSK	50	56	20.78	20.92	20.86	22.2
40	PI/2 BPSK	100	0	20.84	21.05	20.87	
40	QPSK	1	1	20.96	21.04	20.93	22.2
40	QPSK	1	53	20.93	21.07	20.96	
40	QPSK	1	104	20.82	20.97	20.79	
40	QPSK	50	0	20.89	21.01	20.99	22.2
40	QPSK	50	28	20.98	21.03	20.89	22.2
40	QPSK	50	56	20.93	20.97	20.92	22.2
40	QPSK	100	0	20.85	21.01	20.91	
40	16QAM	1	1	20.93	21.14	21.00	22.2
40	64QAM	1	1	21.02	21.07	21.11	22.2
40	256QAM	1	1	20.05	20.03	19.99	20.6
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	21.06	21.18	21.09	22.2
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	21.07	21.23	21.14	22.2
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	21.06	21.19	21.09	22.2
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	21.06	21.24	21.07	22.2
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	21.06	21.23	21.15	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				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	22.02	22.04	22.03	23.4
40	PI/2 BPSK	1	53	21.90	21.98	21.90	
40	PI/2 BPSK	1	104	21.90	21.92	21.89	
40	PI/2 BPSK	50	0	21.89	21.96	21.93	23.4
40	PI/2 BPSK	50	28	21.91	21.99	21.94	23.4
40	PI/2 BPSK	50	56	21.83	21.94	21.91	23.4
40	PI/2 BPSK	100	0	21.87	21.94	21.93	
40	QPSK	1	1	21.93	22.02	22.01	23.4
40	QPSK	1	53	21.89	21.94	21.87	
40	QPSK	1	104	21.91	21.96	21.86	
40	QPSK	50	0	21.92	21.97	21.91	23.4
40	QPSK	50	28	21.96	21.98	21.95	23.4
40	QPSK	50	56	21.84	21.96	21.91	23.4
40	QPSK	100	0	21.86	21.93	21.90	
40	16QAM	1	1	21.93	21.96	21.95	23.4
40	64QAM	1	1	21.52	21.64	21.58	22.6
40	256QAM	1	1	19.75	19.77	19.70	20.6
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	21.99	21.95	21.94	23.4
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	22.02	21.94	22.03	23.4
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	21.95	21.98	22.03	23.4
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	21.95	21.96	21.98	23.4
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	22.00	21.98	22.01	23.4



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Channel	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	22.35	23.5
40	PI/2 BPSK	1	53	22.28	
40	PI/2 BPSK	1	104	22.29	
40	PI/2 BPSK	50	0	22.34	23.5
40	PI/2 BPSK	50	28	22.19	23.5
40	PI/2 BPSK	50	56	22.20	23.5
40	PI/2 BPSK	100	0	22.04	
40	QPSK	1	1	22.37	23.5
40	QPSK	1	53	22.45	
40	QPSK	1	104	22.36	
40	QPSK	50	0	22.35	23.5
40	QPSK	50	28	22.33	23.5
40	QPSK	50	56	22.41	23.5
40	QPSK	100	0	22.37	
40	16QAM	1	1	22.32	23.5
40	64QAM	1	1	21.23	22.3
40	256QAM	1	1	19.59	20.3
Channel	517000	519000	521000	Tune-up limit (dBm)	
Frequency (MHz)	2585	2595	2605		
30	PI/2 BPSK	1	1	22.40	23.5
Channel	516500	519000	521500	Tune-up limit (dBm)	
Frequency (MHz)	2582.5	2595	2607.5		
25	PI/2 BPSK	1	1	22.38	23.5
Channel	516000	519000	522000	Tune-up limit (dBm)	
Frequency (MHz)	2580	2595	2610		
20	PI/2 BPSK	1	1	22.32	23.5
Channel	515500	519000	522500	Tune-up limit (dBm)	
Frequency (MHz)	2577.5	2595	2612.5		
15	PI/2 BPSK	1	1	22.51	23.5
Channel	515000	519000	523000	Tune-up limit (dBm)	
Frequency (MHz)	2575	2595	2615		
10	PI/2 BPSK	1	1	22.31	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				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	18.25	18.27	18.24	
40	PI/2 BPSK	1	53	18.11	18.20	18.17	18.8
40	PI/2 BPSK	1	104	18.06	18.16	18.06	
40	PI/2 BPSK	50	0	18.18	18.21	18.11	
40	PI/2 BPSK	50	28	18.20	18.23	18.16	18.8
40	PI/2 BPSK	50	56	18.07	18.17	18.04	18.8
40	PI/2 BPSK	100	0	18.10	18.21	18.14	
40	QPSK	1	1	18.21	18.23	18.16	18.8
40	QPSK	1	53	18.11	18.18	18.12	
40	QPSK	1	104	18.16	18.19	18.11	
40	QPSK	50	0	18.16	18.22	18.12	18.8
40	QPSK	50	28	18.18	18.21	18.09	18.8
40	QPSK	50	56	18.04	18.15	18.12	18.8
40	QPSK	100	0	18.15	18.19	18.07	
40	16QAM	1	1	18.15	18.21	18.09	18.8
40	64QAM	1	1	18.16	18.25	18.22	18.8
40	256QAM	1	1	18.24	18.26	18.22	18.8
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	18.18	18.23	18.14	18.8
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	18.22	18.17	18.20	18.8
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	18.22	18.17	18.18	18.8
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	18.14	18.23	18.22	18.8
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	18.17	18.18	18.18	18.8



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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				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	22.02	22.04	22.03	22.6
40	PI/2 BPSK	1	53	21.90	21.98	21.90	
40	PI/2 BPSK	1	104	21.90	21.92	21.89	
40	PI/2 BPSK	50	0	21.89	21.96	21.93	22.6
40	PI/2 BPSK	50	28	21.91	21.99	21.94	22.6
40	PI/2 BPSK	50	56	21.83	21.94	21.91	22.6
40	PI/2 BPSK	100	0	21.87	21.94	21.93	
40	QPSK	1	1	21.93	22.02	22.01	22.6
40	QPSK	1	53	21.89	21.94	21.87	
40	QPSK	1	104	21.91	21.96	21.86	
40	QPSK	50	0	21.92	21.97	21.91	22.6
40	QPSK	50	28	21.96	21.98	21.95	22.6
40	QPSK	50	56	21.84	21.96	21.91	22.6
40	QPSK	100	0	21.86	21.93	21.90	
40	16QAM	1	1	21.93	21.96	21.95	22.6
40	64QAM	1	1	21.52	21.64	21.58	22.6
40	256QAM	1	1	19.75	19.77	19.70	20.6
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	21.99	21.95	21.94	22.6
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	22.02	21.94	22.03	22.6
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	21.95	21.98	22.03	22.6
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	21.95	21.96	21.98	22.6
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	22.00	21.98	22.01	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	22.7
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	22.35	22.58	22.23	
40	PI/2 BPSK	1	53	22.28	22.42	22.03	22.7
40	PI/2 BPSK	1	104	22.29	22.21	22.13	
40	PI/2 BPSK	50	0	22.34	22.29	22.44	22.7
40	PI/2 BPSK	50	28	22.19	22.50	22.46	22.7
40	PI/2 BPSK	50	56	22.20	22.48	22.32	22.7
40	PI/2 BPSK	100	0	22.04	22.21	22.12	
40	QPSK	1	1	22.37	22.39	22.23	22.7
40	QPSK	1	53	22.45	22.24	22.40	
40	QPSK	1	104	22.36	22.37	22.06	
40	QPSK	50	0	22.35	22.29	22.44	22.7
40	QPSK	50	28	22.33	22.56	22.23	22.7
40	QPSK	50	56	22.41	22.38	22.25	22.7
40	QPSK	100	0	22.37	22.41	22.12	
40	16QAM	1	1	22.32	22.23	22.17	22.7
40	64QAM	1	1	21.23	21.42	21.29	22.3
40	256QAM	1	1	19.59	19.66	19.32	20.3
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	22.40	22.34	22.46	22.7
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	22.38	22.24	22.50	22.7
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	22.32	22.38	22.44	22.7
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	22.51	22.57	22.48	22.7
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	22.31	22.49	22.20	22.7



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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	24.48	24.44	24.52	25.1
100	PI/2 BPSK	1	137	24.25	24.24	24.30	
100	PI/2 BPSK	1	271	24.43	24.39	24.44	
100	PI/2 BPSK	135	0	23.79	23.82	23.88	24.6
100	PI/2 BPSK	135	69	24.28	24.26	24.27	25.1
100	PI/2 BPSK	135	138	23.71	23.73	23.73	24.6
100	PI/2 BPSK	270	0	23.80	23.78	23.80	
100	QPSK	1	1	24.47	24.43	24.49	25.1
100	QPSK	1	137	24.20	24.23	24.29	
100	QPSK	1	271	24.42	24.38	24.45	
100	QPSK	135	0	23.26	23.31	23.35	24.1
100	QPSK	135	69	24.26	24.26	24.25	25.1
100	QPSK	135	138	23.28	23.25	23.28	24.1
100	QPSK	270	0	23.23	23.27	23.29	
100	16QAM	1	1	23.42	23.45	23.49	24.1
100	64QAM	1	1	21.93	21.95	21.98	22.6
100	256QAM	1	1	20.16	20.13	20.15	20.6
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.34	24.42	24.37	25.1
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.39	24.43	24.36	25.1
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	24.37	24.42	24.36	25.1
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.31	24.32	24.51	25.1
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.41	24.25	24.36	25.1
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.35	24.32	24.50	25.1
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.47	24.42	24.32	25.1
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.36	24.36	24.49	25.1
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	24.38	24.37	24.49	25.1
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	24.33	24.40	24.34	25.1



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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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.43	22.36	22.28	23.7
100	PI/2 BPSK	1	137	22.24	22.17	22.10	
100	PI/2 BPSK	1	271	22.42	22.28	22.13	
100	PI/2 BPSK	135	0	22.35	22.28	22.22	23.7
100	PI/2 BPSK	135	69	22.36	22.31	22.28	23.7
100	PI/2 BPSK	135	138	22.32	22.31	22.13	23.7
100	PI/2 BPSK	270	0	22.40	22.29	22.13	
100	QPSK	1	1	22.32	22.17	22.28	23.7
100	QPSK	1	137	22.32	22.32	22.13	
100	QPSK	1	271	22.35	22.25	22.24	
100	QPSK	135	0	22.36	22.33	22.18	23.7
100	QPSK	135	69	22.34	22.34	22.16	23.7
100	QPSK	135	138	22.35	22.21	22.16	23.7
100	QPSK	270	0	22.35	22.27	22.25	
100	16QAM	1	1	22.26	22.35	22.16	23.7
100	64QAM	1	1	22.04	21.98	22.02	22.6
100	256QAM	1	1	20.25	20.17	20.01	20.6
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	22.31	22.19	22.13	23.7
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	22.28	22.35	22.25	23.7
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	22.40	22.28	22.26	23.7
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	22.34	22.18	22.12	23.7
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	22.30	22.20	22.19	23.7
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	22.32	22.28	22.27	23.7
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	22.25	22.33	22.21	23.7
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	22.41	22.36	22.22	23.7
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	22.41	22.21	22.23	23.7
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	22.23	22.16	22.23	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	24.00	24.11	24.09	25.1
100	PI/2 BPSK	1	137	23.72	23.83	23.75	
100	PI/2 BPSK	1	271	23.84	24.04	23.98	
100	PI/2 BPSK	135	0	23.27	23.40	23.29	24.6
100	PI/2 BPSK	135	69	23.70	23.81	23.79	25.1
100	PI/2 BPSK	135	138	23.21	23.34	23.30	24.6
100	PI/2 BPSK	270	0	23.16	23.33	23.28	
100	QPSK	1	1	23.94	24.09	23.99	25.1
100	QPSK	1	137	23.64	23.81	23.79	
100	QPSK	1	271	23.86	24.04	23.98	
100	QPSK	135	0	22.70	22.91	22.81	24.1
100	QPSK	135	69	23.63	23.82	23.72	25.1
100	QPSK	135	138	22.72	22.86	22.82	24.1
100	QPSK	270	0	22.68	22.82	22.71	
100	16QAM	1	1	22.91	23.05	22.94	24.1
100	64QAM	1	1	21.36	21.55	21.51	22.6
100	256QAM	1	1	19.53	19.73	19.61	20.6
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	23.86	24.04	23.96	25.1
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	23.96	24.10	23.99	25.1
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	23.91	24.05	23.95	25.1
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	23.82	23.95	24.04	25.1
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	23.90	24.06	24.01	25.1
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	23.97	24.03	24.00	25.1
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	23.96	23.92	23.92	25.1
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	23.98	24.01	24.00	25.1
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	23.81	24.10	23.96	25.1
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	23.80	23.96	23.96	25.1



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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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	19.74	19.68	19.52	20.6
100	PI/2 BPSK	1	137	19.34	19.36	19.12	
100	PI/2 BPSK	1	271	19.40	19.41	19.16	
100	PI/2 BPSK	135	0	19.29	19.24	19.08	20.6
100	PI/2 BPSK	135	69	19.37	19.40	19.14	20.6
100	PI/2 BPSK	135	138	19.22	19.26	19.06	20.6
100	PI/2 BPSK	270	0	19.32	19.30	19.12	
100	QPSK	1	1	19.69	19.64	19.38	20.6
100	QPSK	1	137	19.43	19.43	19.28	
100	QPSK	1	271	19.40	19.42	19.21	
100	QPSK	135	0	19.41	19.37	19.17	20.6
100	QPSK	135	69	19.49	19.43	19.27	20.6
100	QPSK	135	138	19.32	19.28	19.11	20.6
100	QPSK	270	0	19.32	19.32	19.12	
100	16QAM	1	1	19.69	19.67	19.48	20.6
100	64QAM	1	1	19.51	19.47	19.26	20.6
100	256QAM	1	1	19.54	19.51	19.35	20.6
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	19.70	19.61	19.35	20.6
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	19.64	19.65	19.33	20.6
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	19.73	19.67	19.33	20.6
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	19.73	19.67	19.41	20.6
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	19.66	19.58	19.38	20.6
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	19.66	19.66	19.39	20.6
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	19.65	19.59	19.39	20.6
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	19.66	19.66	19.38	20.6
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	19.72	19.63	19.40	20.6
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	19.71	19.67	19.34	20.6



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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	22.43	22.36	22.28	22.9
100	PI/2 BPSK	1	137	22.24	22.17	22.10	
100	PI/2 BPSK	1	271	22.42	22.28	22.13	
100	PI/2 BPSK	135	0	22.35	22.28	22.22	22.9
100	PI/2 BPSK	135	69	22.36	22.31	22.28	22.9
100	PI/2 BPSK	135	138	22.32	22.31	22.13	22.9
100	PI/2 BPSK	270	0	22.40	22.29	22.13	
100	QPSK	1	1	22.32	22.17	22.28	22.9
100	QPSK	1	137	22.32	22.32	22.13	
100	QPSK	1	271	22.35	22.25	22.24	
100	QPSK	135	0	22.36	22.33	22.18	22.9
100	QPSK	135	69	22.34	22.34	22.16	22.9
100	QPSK	135	138	22.35	22.21	22.16	22.9
100	QPSK	270	0	22.35	22.27	22.25	
100	16QAM	1	1	22.26	22.35	22.16	22.9
100	64QAM	1	1	22.04	21.98	22.02	22.6
100	256QAM	1	1	20.25	20.17	20.01	20.6
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	22.31	22.19	22.13	22.9
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	22.28	22.35	22.25	22.9
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	22.40	22.28	22.26	22.9
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	22.34	22.18	22.12	22.9
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	22.30	22.20	22.19	22.9
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	22.32	22.28	22.27	22.9
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	22.25	22.33	22.21	22.9
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	22.41	22.36	22.22	22.9
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	22.41	22.21	22.23	22.9
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	22.23	22.16	22.23	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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	19.74	19.68	19.52	19.8
100	PI/2 BPSK	1	137	19.34	19.36	19.12	
100	PI/2 BPSK	1	271	19.40	19.41	19.16	
100	PI/2 BPSK	135	0	19.29	19.24	19.08	19.8
100	PI/2 BPSK	135	69	19.37	19.40	19.14	19.8
100	PI/2 BPSK	135	138	19.22	19.26	19.06	19.8
100	PI/2 BPSK	270	0	19.32	19.30	19.12	
100	QPSK	1	1	19.69	19.64	19.38	19.8
100	QPSK	1	137	19.43	19.43	19.28	
100	QPSK	1	271	19.40	19.42	19.21	
100	QPSK	135	0	19.41	19.37	19.17	19.8
100	QPSK	135	69	19.49	19.43	19.27	19.8
100	QPSK	135	138	19.32	19.28	19.11	19.8
100	QPSK	270	0	19.32	19.32	19.12	
100	16QAM	1	1	19.69	19.67	19.48	19.8
100	64QAM	1	1	19.51	19.47	19.26	19.8
100	256QAM	1	1	19.54	19.51	19.35	19.8
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	19.70	19.61	19.35	19.8
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	19.64	19.65	19.33	19.8
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	19.73	19.67	19.33	19.8
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	19.73	19.67	19.41	19.8
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	19.66	19.58	19.38	19.8
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	19.66	19.66	19.39	19.8
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	19.65	19.59	19.39	19.8
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	19.66	19.66	19.38	19.8
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	19.72	19.63	19.40	19.8
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	19.71	19.67	19.34	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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	18.25	18.26	18.22	18.6
100	PI/2 BPSK	1	137	18.01	18.09	18.07	
100	PI/2 BPSK	1	271	18.13	18.19	18.18	
100	PI/2 BPSK	135	0	18.03	18.10	18.06	18.6
100	PI/2 BPSK	135	69	18.16	18.17	18.13	18.6
100	PI/2 BPSK	135	138	18.08	18.07	18.07	18.6
100	PI/2 BPSK	270	0	18.11	18.12	18.10	
100	QPSK	1	1	18.23	18.25	18.19	18.6
100	QPSK	1	137	17.97	18.05	18.08	
100	QPSK	1	271	18.16	18.19	18.16	
100	QPSK	135	0	18.06	18.07	18.08	18.6
100	QPSK	135	69	18.08	18.10	18.10	18.6
100	QPSK	135	138	18.04	18.08	18.06	18.6
100	QPSK	270	0	18.07	18.13	18.11	
100	16QAM	1	1	18.11	18.13	18.11	18.6
100	64QAM	1	1	18.17	18.15	18.16	18.6
100	256QAM	1	1	18.16	18.13	18.17	18.6
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	18.20	18.24	18.16	18.6
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	18.21	18.16	18.21	18.6
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	18.18	18.16	18.14	18.6
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	18.16	18.22	18.13	18.6
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	18.20	18.22	18.18	18.6
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	18.22	18.17	18.15	18.6
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	18.22	18.18	18.18	18.6
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	18.15	18.20	18.21	18.6
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	18.23	18.19	18.19	18.6
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	18.16	18.22	18.19	18.6



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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	21.20	21.25	21.08	21.4
100	PI/2 BPSK	1	137	20.93	20.99	20.69	
100	PI/2 BPSK	1	271	21.05	21.05	20.92	
100	PI/2 BPSK	135	0	20.92	20.98	20.83	21.4
100	PI/2 BPSK	135	69	21.06	21.13	20.94	21.4
100	PI/2 BPSK	135	138	20.90	20.92	20.77	21.4
100	PI/2 BPSK	270	0	21.00	20.95	20.86	
100	QPSK	1	1	21.15	21.15	20.90	
100	QPSK	1	137	20.91	20.94	20.75	21.4
100	QPSK	1	271	20.94	20.99	20.81	
100	QPSK	135	0	21.07	21.02	20.89	
100	QPSK	135	69	21.10	21.04	20.87	21.4
100	QPSK	135	138	20.92	20.93	20.79	21.4
100	QPSK	270	0	21.02	20.97	20.78	
100	16QAM	1	1	21.13	21.17	21.05	
100	64QAM	1	1	21.18	21.10	20.93	21.4
100	256QAM	1	1	20.10	20.15	19.89	20.6
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.13	21.24	21.05	21.4
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	21.10	21.16	21.08	21.4
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	21.19	21.18	21.05	21.4
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	21.20	21.22	21.02	21.4
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	21.13	21.15	21.02	21.4
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.19	21.21	21.04	21.4
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	21.11	21.20	21.07	21.4
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.12	21.17	21.06	21.4
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	21.15	21.18	21.00	21.4
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.10	21.21	21.03	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	21.99	22.07	22.03	22.6
100	PI/2 BPSK	1	137	21.70	21.81	21.74	
100	PI/2 BPSK	1	271	21.90	22.02	21.94	
100	PI/2 BPSK	135	0	21.71	21.82	21.71	22.6
100	PI/2 BPSK	135	69	21.79	21.91	21.83	22.6
100	PI/2 BPSK	135	138	21.74	21.87	21.78	22.6
100	PI/2 BPSK	270	0	21.75	21.85	21.75	
100	QPSK	1	1	21.97	22.06	21.95	22.6
100	QPSK	1	137	21.70	21.79	21.70	
100	QPSK	1	271	21.88	22.01	21.87	
100	QPSK	135	0	21.72	21.82	21.77	22.6
100	QPSK	135	69	21.74	21.86	21.72	22.6
100	QPSK	135	138	21.72	21.81	21.73	22.6
100	QPSK	270	0	21.73	21.84	21.72	
100	16QAM	1	1	21.82	21.95	21.91	22.6
100	64QAM	1	1	21.40	21.51	21.47	22.6
100	256QAM	1	1	19.55	19.68	19.62	20.6
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.99	22.05	21.97	22.6
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	21.89	22.02	22.02	22.6
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	21.92	22.05	22.03	22.6
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	21.98	22.04	22.00	22.6
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	21.93	22.00	21.99	22.6
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.91	21.97	21.99	22.6
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	21.90	22.00	22.00	22.6
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.91	22.05	21.95	22.6
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	21.89	22.00	21.98	22.6
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.95	21.98	21.99	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	22.60	22.68	22.43	22.7
100	PI/2 BPSK	1	137	22.39	22.38	22.04	
100	PI/2 BPSK	1	271	22.44	22.45	22.22	
100	PI/2 BPSK	135	0	22.24	22.57	21.96	22.7
100	PI/2 BPSK	135	69	22.32	22.62	22.15	22.7
100	PI/2 BPSK	135	138	22.18	22.18	22.09	22.7
100	PI/2 BPSK	270	0	22.29	22.38	22.07	
100	QPSK	1	1	22.61	22.66	22.26	22.7
100	QPSK	1	137	22.20	22.13	22.07	
100	QPSK	1	271	22.45	22.55	22.13	
100	QPSK	135	0	22.39	22.52	21.97	22.7
100	QPSK	135	69	22.29	22.29	22.18	22.7
100	QPSK	135	138	22.26	22.15	22.10	22.7
100	QPSK	270	0	22.51	22.34	22.39	
100	16QAM	1	1	22.53	22.41	22.56	22.7
100	64QAM	1	1	21.41	21.55	21.24	22.7
100	256QAM	1	1	19.74	19.67	19.36	20.7
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	22.59	22.61	22.47	22.7
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	22.66	22.50	22.44	22.7
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	22.58	22.57	22.37	22.7
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	22.54	22.41	22.56	22.7
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	22.42	22.66	22.32	22.7
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	22.64	22.48	22.31	22.7
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	22.66	22.65	22.34	22.7
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	22.56	22.63	22.43	22.7
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	22.59	22.50	22.23	22.7
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	22.64	22.48	22.28	22.7



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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	18.25	18.26	18.22	19.6
100	PI/2 BPSK	1	137	18.01	18.09	18.07	
100	PI/2 BPSK	1	271	18.13	18.19	18.18	
100	PI/2 BPSK	135	0	18.03	18.10	18.06	19.6
100	PI/2 BPSK	135	69	18.16	18.17	18.13	19.6
100	PI/2 BPSK	135	138	18.08	18.07	18.07	19.6
100	PI/2 BPSK	270	0	18.11	18.12	18.10	
100	QPSK	1	1	18.23	18.25	18.19	19.6
100	QPSK	1	137	17.97	18.05	18.08	
100	QPSK	1	271	18.16	18.19	18.16	
100	QPSK	135	0	18.06	18.07	18.08	19.6
100	QPSK	135	69	18.08	18.10	18.10	19.6
100	QPSK	135	138	18.04	18.08	18.06	19.6
100	QPSK	270	0	18.07	18.13	18.11	
100	16QAM	1	1	18.11	18.13	18.11	19.6
100	64QAM	1	1	18.17	18.15	18.16	19.6
100	256QAM	1	1	18.16	18.13	18.17	19.6
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	18.20	18.24	18.16	19.6
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	18.21	18.16	18.21	19.6
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	18.18	18.16	18.14	19.6
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	18.16	18.22	18.13	19.6
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	18.20	18.22	18.18	19.6
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	18.22	18.17	18.15	19.6
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	18.22	18.18	18.18	19.6
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	18.15	18.20	18.21	19.6
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	18.23	18.19	18.19	19.6
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	18.16	18.22	18.19	19.6



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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	21.20	21.25	21.08	22.2
100	PI/2 BPSK	1	137	20.93	20.99	20.69	
100	PI/2 BPSK	1	271	21.05	21.05	20.92	
100	PI/2 BPSK	135	0	20.92	20.98	20.83	22.2
100	PI/2 BPSK	135	69	21.06	21.13	20.94	22.2
100	PI/2 BPSK	135	138	20.90	20.92	20.77	22.2
100	PI/2 BPSK	270	0	21.00	20.95	20.86	
100	QPSK	1	1	21.15	21.15	20.90	
100	QPSK	1	137	20.91	20.94	20.75	22.2
100	QPSK	1	271	20.94	20.99	20.81	
100	QPSK	135	0	21.07	21.02	20.89	
100	QPSK	135	69	21.10	21.04	20.87	22.2
100	QPSK	135	138	20.92	20.93	20.79	22.2
100	QPSK	270	0	21.02	20.97	20.78	
100	16QAM	1	1	21.13	21.17	21.05	
100	64QAM	1	1	21.18	21.10	20.93	22.2
100	256QAM	1	1	20.10	20.15	19.89	20.6
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.13	21.24	21.05	22.2
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	21.10	21.16	21.08	22.2
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	21.19	21.18	21.05	22.2
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	21.20	21.22	21.02	22.2
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	21.13	21.15	21.02	22.2
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.19	21.21	21.04	22.2
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	21.11	21.20	21.07	22.2
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.12	21.17	21.06	22.2
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	21.15	21.18	21.00	22.2
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.10	21.21	21.03	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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	21.99	22.07	22.03	23.4
100	PI/2 BPSK	1	137	21.70	21.81	21.74	
100	PI/2 BPSK	1	271	21.90	22.02	21.94	
100	PI/2 BPSK	135	0	21.71	21.82	21.71	23.4
100	PI/2 BPSK	135	69	21.79	21.91	21.83	23.4
100	PI/2 BPSK	135	138	21.74	21.87	21.78	23.4
100	PI/2 BPSK	270	0	21.75	21.85	21.75	
100	QPSK	1	1	21.97	22.06	21.95	23.4
100	QPSK	1	137	21.70	21.79	21.70	
100	QPSK	1	271	21.88	22.01	21.87	
100	QPSK	135	0	21.72	21.82	21.77	23.4
100	QPSK	135	69	21.74	21.86	21.72	23.4
100	QPSK	135	138	21.72	21.81	21.73	23.4
100	QPSK	270	0	21.73	21.84	21.72	
100	16QAM	1	1	21.82	21.95	21.91	23.4
100	64QAM	1	1	21.40	21.51	21.47	22.6
100	256QAM	1	1	19.55	19.68	19.62	20.6
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.99	22.05	21.97	23.4
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	21.89	22.02	22.02	23.4
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	21.92	22.05	22.03	23.4
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	21.98	22.04	22.00	23.4
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	21.93	22.00	21.99	23.4
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.91	21.97	21.99	23.4
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	21.90	22.00	22.00	23.4
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.91	22.05	21.95	23.4
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	21.89	22.00	21.98	23.4
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.95	21.98	21.99	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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.60	22.68	22.43	23.5
100	PI/2 BPSK	1	137	22.39	22.38	22.04	
100	PI/2 BPSK	1	271	22.44	22.45	22.22	
100	PI/2 BPSK	135	0	22.24	22.57	21.96	23.5
100	PI/2 BPSK	135	69	22.32	22.62	22.15	23.5
100	PI/2 BPSK	135	138	22.18	22.18	22.09	23.5
100	PI/2 BPSK	270	0	22.29	22.38	22.07	
100	QPSK	1	1	22.61	22.66	22.26	23.5
100	QPSK	1	137	22.20	22.13	22.07	
100	QPSK	1	271	22.45	22.55	22.13	
100	QPSK	135	0	22.39	22.52	21.97	23.5
100	QPSK	135	69	22.29	22.29	22.18	23.5
100	QPSK	135	138	22.26	22.15	22.10	23.5
100	QPSK	270	0	22.51	22.34	22.39	
100	16QAM	1	1	22.53	22.41	22.56	23.5
100	64QAM	1	1	21.41	21.55	21.24	22.7
100	256QAM	1	1	19.74	19.67	19.36	20.7
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	22.59	22.61	22.47	23.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	22.66	22.50	22.44	23.5
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	22.58	22.57	22.37	23.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	22.54	22.41	22.56	23.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	22.42	22.66	22.32	23.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	22.64	22.48	22.31	23.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	22.66	22.65	22.34	23.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	22.56	22.63	22.43	23.5
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	22.59	22.50	22.23	23.5
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	22.64	22.48	22.28	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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	18.25	18.26	18.22	18.8
100	PI/2 BPSK	1	137	18.01	18.09	18.07	
100	PI/2 BPSK	1	271	18.13	18.19	18.18	
100	PI/2 BPSK	135	0	18.03	18.10	18.06	18.8
100	PI/2 BPSK	135	69	18.16	18.17	18.13	18.8
100	PI/2 BPSK	135	138	18.08	18.07	18.07	18.8
100	PI/2 BPSK	270	0	18.11	18.12	18.10	
100	QPSK	1	1	18.23	18.25	18.19	18.8
100	QPSK	1	137	17.97	18.05	18.08	
100	QPSK	1	271	18.16	18.19	18.16	
100	QPSK	135	0	18.06	18.07	18.08	18.8
100	QPSK	135	69	18.08	18.10	18.10	18.8
100	QPSK	135	138	18.04	18.08	18.06	18.8
100	QPSK	270	0	18.07	18.13	18.11	
100	16QAM	1	1	18.11	18.13	18.11	18.8
100	64QAM	1	1	18.17	18.15	18.16	18.8
100	256QAM	1	1	18.16	18.13	18.17	18.8
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	18.20	18.24	18.16	18.8
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	18.21	18.16	18.21	18.8
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	18.18	18.16	18.14	18.8
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	18.16	18.22	18.13	18.8
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	18.20	18.22	18.18	18.8
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	18.22	18.17	18.15	18.8
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	18.22	18.18	18.18	18.8
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	18.15	18.20	18.21	18.8
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	18.23	18.19	18.19	18.8
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	18.16	18.22	18.19	18.8



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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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	21.99	22.07	22.03	22.6
100	PI/2 BPSK	1	137	21.70	21.81	21.74	
100	PI/2 BPSK	1	271	21.90	22.02	21.94	
100	PI/2 BPSK	135	0	21.71	21.82	21.71	22.6
100	PI/2 BPSK	135	69	21.79	21.91	21.83	22.6
100	PI/2 BPSK	135	138	21.74	21.87	21.78	22.6
100	PI/2 BPSK	270	0	21.75	21.85	21.75	
100	QPSK	1	1	21.97	22.06	21.95	22.6
100	QPSK	1	137	21.70	21.79	21.70	
100	QPSK	1	271	21.88	22.01	21.87	
100	QPSK	135	0	21.72	21.82	21.77	22.6
100	QPSK	135	69	21.74	21.86	21.72	22.6
100	QPSK	135	138	21.72	21.81	21.73	22.6
100	QPSK	270	0	21.73	21.84	21.72	
100	16QAM	1	1	21.82	21.95	21.91	22.6
100	64QAM	1	1	21.40	21.51	21.47	22.6
100	256QAM	1	1	19.55	19.68	19.62	20.6
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.99	22.05	21.97	22.6
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	21.89	22.02	22.02	22.6
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	21.92	22.05	22.03	22.6
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	21.98	22.04	22.00	22.6
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	21.93	22.00	21.99	22.6
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.91	21.97	21.99	22.6
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	21.90	22.00	22.00	22.6
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.91	22.05	21.95	22.6
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	21.89	22.00	21.98	22.6
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.95	21.98	21.99	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	22.60	22.68	22.43	22.7
100	PI/2 BPSK	1	137	22.39	22.38	22.04	
100	PI/2 BPSK	1	271	22.44	22.45	22.22	
100	PI/2 BPSK	135	0	22.24	22.57	21.96	22.7
100	PI/2 BPSK	135	69	22.32	22.62	22.15	22.7
100	PI/2 BPSK	135	138	22.18	22.18	22.09	22.7
100	PI/2 BPSK	270	0	22.29	22.38	22.07	
100	QPSK	1	1	22.61	22.66	22.26	22.7
100	QPSK	1	137	22.20	22.13	22.07	
100	QPSK	1	271	22.45	22.55	22.13	
100	QPSK	135	0	22.39	22.52	21.97	22.7
100	QPSK	135	69	22.29	22.29	22.18	22.7
100	QPSK	135	138	22.26	22.15	22.10	22.7
100	QPSK	270	0	22.51	22.34	22.39	
100	16QAM	1	1	22.53	22.41	22.56	22.7
100	64QAM	1	1	21.41	21.55	21.24	22.7
100	256QAM	1	1	19.74	19.67	19.36	20.7
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	22.59	22.61	22.47	22.7
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	22.66	22.50	22.44	22.7
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	22.58	22.57	22.37	22.7
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	22.54	22.41	22.56	22.7
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	22.42	22.66	22.32	22.7
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	22.64	22.48	22.31	22.7
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	22.66	22.65	22.34	22.7
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	22.56	22.63	22.43	22.7
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	22.59	22.50	22.23	22.7
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	22.64	22.48	22.28	22.7



<FR1 n41_HPUE_Ant 2_Index 2/3>

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	26.36	26.37	26.45	27.0
100	PI/2 BPSK	1	137	26.18	26.21	26.27	
100	PI/2 BPSK	1	271	26.30	26.32	26.38	
100	PI/2 BPSK	135	0	25.24	25.25	25.33	26.5
100	PI/2 BPSK	135	69	26.12	26.21	26.20	27.0
100	PI/2 BPSK	135	138	25.06	25.17	25.15	26.5
100	PI/2 BPSK	270	0	25.13	25.22	25.29	
100	QPSK	1	1	26.31	26.35	26.37	27.0
100	QPSK	1	137	26.14	26.19	26.18	
100	QPSK	1	271	26.22	26.26	26.29	
100	QPSK	135	0	24.70	24.75	24.73	26.0
100	QPSK	135	69	26.18	26.22	26.20	27.0
100	QPSK	135	138	24.63	24.67	24.65	26.0
100	QPSK	270	0	24.72	24.74	24.81	
100	16QAM	1	1	25.35	25.43	25.41	26.0
100	64QAM	1	1	23.75	23.84	23.86	24.5
100	256QAM	1	1	22.10	22.18	22.17	22.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	26.26	26.31	26.36	27.0
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	26.35	26.23	26.33	27.0
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	26.33	26.17	26.39	27.0
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	26.32	26.29	26.42	27.0
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	26.34	26.35	26.43	27.0
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	26.26	26.27	26.28	27.0
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	26.34	26.19	26.35	27.0
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	26.35	26.32	26.31	27.0
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	26.20	26.37	26.36	27.0
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	26.17	26.36	26.38	27.0



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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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	25.46	25.37	25.31	26.7
100	PI/2 BPSK	1	137	25.43	25.35	25.28	
100	PI/2 BPSK	1	271	25.45	25.17	25.15	
100	PI/2 BPSK	135	0	25.40	25.20	25.25	26.5
100	PI/2 BPSK	135	69	25.42	25.28	25.21	26.7
100	PI/2 BPSK	135	138	25.31	25.23	25.25	26.5
100	PI/2 BPSK	270	0	25.38	25.24	25.15	
100	QPSK	1	1	25.32	25.28	25.17	26.7
100	QPSK	1	137	25.38	25.27	25.28	
100	QPSK	1	271	25.39	25.25	25.24	
100	QPSK	135	0	24.61	24.71	24.60	26.0
100	QPSK	135	69	25.00	25.11	24.91	26.7
100	QPSK	135	138	24.46	24.58	24.56	26.0
100	QPSK	270	0	24.51	24.62	24.43	
100	16QAM	1	1	25.38	25.34	25.25	26.0
100	64QAM	1	1	23.84	23.90	23.85	24.5
100	256QAM	1	1	22.07	22.19	22.01	22.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	25.27	25.34	25.31	26.7
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	25.32	25.26	25.14	26.7
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	25.39	25.24	25.15	26.7
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	25.43	25.33	25.12	26.7
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	25.39	25.31	25.25	26.7
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	25.40	25.36	25.17	26.7
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	25.44	25.24	25.27	26.7
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	25.29	25.20	25.12	26.7
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	25.40	25.26	25.24	26.7
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	25.36	25.36	25.12	26.7



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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	25.94	26.03	26.00	27.0
100	PI/2 BPSK	1	137	25.69	25.78	25.72	
100	PI/2 BPSK	1	271	25.86	26.02	25.89	
100	PI/2 BPSK	135	0	24.71	24.85	24.79	26.5
100	PI/2 BPSK	135	69	25.68	25.81	25.72	27.0
100	PI/2 BPSK	135	138	24.65	24.80	24.76	26.5
100	PI/2 BPSK	270	0	24.59	24.77	24.70	
100	QPSK	1	1	25.93	26.02	25.89	27.0
100	QPSK	1	137	25.65	25.78	25.67	
100	QPSK	1	271	25.81	25.94	25.83	
100	QPSK	135	0	24.74	24.85	24.81	26.0
100	QPSK	135	69	25.72	25.81	25.76	27.0
100	QPSK	135	138	24.62	24.80	24.69	26.0
100	QPSK	270	0	24.65	24.81	24.77	
100	16QAM	1	1	24.91	25.07	25.04	26.0
100	64QAM	1	1	23.38	23.48	23.44	24.5
100	256QAM	1	1	21.60	21.76	21.66	22.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	25.94	25.84	25.88	27.0
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	25.89	25.87	25.96	27.0
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	25.84	25.88	25.87	27.0
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	25.76	25.89	25.90	27.0
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	25.80	25.99	25.89	27.0
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	25.92	25.93	25.96	27.0
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	25.76	25.89	25.86	27.0
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	25.91	25.94	25.95	27.0
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	25.75	26.00	25.98	27.0
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	25.75	25.85	25.99	27.0



<FR1 n41_HPUE_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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.75	22.66	22.44	23.6
100	PI/2 BPSK	1	137	22.55	22.53	22.26	
100	PI/2 BPSK	1	271	22.51	22.48	22.18	
100	PI/2 BPSK	135	0	22.44	22.38	22.07	23.6
100	PI/2 BPSK	135	69	22.52	22.45	22.16	23.6
100	PI/2 BPSK	135	138	22.45	22.42	22.14	23.6
100	PI/2 BPSK	270	0	22.49	22.42	22.10	
100	QPSK	1	1	22.74	22.65	22.41	23.6
100	QPSK	1	137	22.46	22.46	22.22	
100	QPSK	1	271	22.55	22.48	22.21	
100	QPSK	135	0	22.35	22.32	22.06	23.6
100	QPSK	135	69	22.57	22.48	22.16	23.6
100	QPSK	135	138	22.39	22.32	22.04	23.6
100	QPSK	270	0	22.37	22.37	22.09	
100	16QAM	1	1	22.64	22.62	22.30	23.6
100	64QAM	1	1	22.43	22.35	22.09	23.6
100	256QAM	1	1	21.74	21.65	21.43	22.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	22.67	22.65	22.37	23.6
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	22.70	22.57	22.44	23.6
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	22.71	22.58	22.42	23.6
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	22.65	22.57	22.41	23.6
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	22.66	22.63	22.39	23.6
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	22.69	22.61	22.36	23.6
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	22.74	22.58	22.35	23.6
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	22.71	22.66	22.43	23.6
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	22.74	22.59	22.43	23.6
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	22.66	22.58	22.34	23.6



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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	25.46	25.37	25.31	25.9
100	PI/2 BPSK	1	137	25.43	25.35	25.28	
100	PI/2 BPSK	1	271	25.45	25.17	25.15	
100	PI/2 BPSK	135	0	25.40	25.20	25.25	25.9
100	PI/2 BPSK	135	69	25.42	25.28	25.21	25.9
100	PI/2 BPSK	135	138	25.31	25.23	25.25	25.9
100	PI/2 BPSK	270	0	25.38	25.24	25.15	
100	QPSK	1	1	25.32	25.28	25.17	25.9
100	QPSK	1	137	25.38	25.27	25.28	
100	QPSK	1	271	25.39	25.25	25.24	
100	QPSK	135	0	24.61	24.71	24.60	25.9
100	QPSK	135	69	25.00	25.11	24.91	25.9
100	QPSK	135	138	24.46	24.58	24.56	25.9
100	QPSK	270	0	24.51	24.62	24.43	
100	16QAM	1	1	25.38	25.34	25.25	25.9
100	64QAM	1	1	23.84	23.90	23.85	24.5
100	256QAM	1	1	22.07	22.19	22.01	22.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	25.27	25.34	25.31	25.9
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	25.32	25.26	25.14	25.9
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	25.39	25.24	25.15	25.9
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	25.43	25.33	25.12	25.9
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	25.39	25.31	25.25	25.9
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	25.40	25.36	25.17	25.9
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	25.44	25.24	25.27	25.9
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	25.29	25.20	25.12	25.9
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	25.40	25.26	25.24	25.9
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	25.36	25.36	25.12	25.9



<FR1 n41_HPUE_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	22.75	22.66	22.44	22.8
100	PI/2 BPSK	1	137	22.55	22.53	22.26	
100	PI/2 BPSK	1	271	22.51	22.48	22.18	
100	PI/2 BPSK	135	0	22.44	22.38	22.07	22.8
100	PI/2 BPSK	135	69	22.52	22.45	22.16	22.8
100	PI/2 BPSK	135	138	22.45	22.42	22.14	22.8
100	PI/2 BPSK	270	0	22.49	22.42	22.10	
100	QPSK	1	1	22.74	22.65	22.41	22.8
100	QPSK	1	137	22.46	22.46	22.22	
100	QPSK	1	271	22.55	22.48	22.21	
100	QPSK	135	0	22.35	22.32	22.06	22.8
100	QPSK	135	69	22.57	22.48	22.16	22.8
100	QPSK	135	138	22.39	22.32	22.04	22.8
100	QPSK	270	0	22.37	22.37	22.09	
100	16QAM	1	1	22.64	22.62	22.30	22.8
100	64QAM	1	1	22.43	22.35	22.09	22.8
100	256QAM	1	1	21.74	21.65	21.43	22.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	22.67	22.65	22.37	22.8
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	22.70	22.57	22.44	22.8
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	22.71	22.58	22.42	22.8
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	22.65	22.57	22.41	22.8
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	22.66	22.63	22.39	22.8
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	22.69	22.61	22.36	22.8
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	22.74	22.58	22.35	22.8
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	22.71	22.66	22.43	22.8
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	22.74	22.59	22.43	22.8
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	22.66	22.58	22.34	22.8



<FR1 n41_HPUE_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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	21.13	21.15	21.11	21.6
100	PI/2 BPSK	1	137	20.90	21.01	20.99	
100	PI/2 BPSK	1	271	21.04	21.08	21.10	
100	PI/2 BPSK	135	0	20.93	20.91	20.96	21.6
100	PI/2 BPSK	135	69	20.96	21.02	21.00	21.6
100	PI/2 BPSK	135	138	20.88	20.94	20.94	21.6
100	PI/2 BPSK	270	0	20.92	20.98	20.91	
100	QPSK	1	1	21.12	21.14	21.08	21.6
100	QPSK	1	137	20.91	20.96	20.99	
100	QPSK	1	271	21.02	21.07	20.95	
100	QPSK	135	0	20.98	20.96	20.94	21.6
100	QPSK	135	69	20.87	20.93	20.98	21.6
100	QPSK	135	138	20.86	20.99	20.91	21.6
100	QPSK	270	0	20.95	20.95	20.94	
100	16QAM	1	1	21.07	21.05	21.12	21.6
100	64QAM	1	1	21.05	21.04	21.05	21.6
100	256QAM	1	1	20.97	20.99	20.95	21.6
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.02	21.12	21.09	21.6
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	21.03	21.08	21.08	21.6
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	21.06	21.12	21.08	21.6
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	21.04	21.14	21.09	21.6
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	21.04	21.07	21.04	21.6
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.08	21.12	21.02	21.6
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	21.04	21.13	21.02	21.6
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.01	21.12	21.04	21.6
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	21.05	21.06	21.00	21.6
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.04	21.05	21.10	21.6



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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	24.35	24.29	24.21	24.4
100	PI/2 BPSK	1	137	24.05	24.01	23.85	
100	PI/2 BPSK	1	271	24.03	24.09	23.86	
100	PI/2 BPSK	135	0	23.96	23.99	23.89	24.4
100	PI/2 BPSK	135	69	23.99	24.03	23.96	24.4
100	PI/2 BPSK	135	138	23.95	23.94	23.79	24.4
100	PI/2 BPSK	270	0	23.94	24.02	23.89	
100	QPSK	1	1	24.23	24.28	24.05	24.4
100	QPSK	1	137	23.99	23.95	23.87	
100	QPSK	1	271	24.07	24.09	23.86	
100	QPSK	135	0	24.06	24.04	23.87	24.4
100	QPSK	135	69	24.03	23.99	23.92	24.4
100	QPSK	135	138	23.91	23.92	23.73	24.4
100	QPSK	270	0	23.96	23.98	23.87	
100	16QAM	1	1	24.21	24.11	24.04	24.4
100	64QAM	1	1	23.90	23.92	23.83	24.4
100	256QAM	1	1	22.18	22.19	22.01	22.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.27	24.22	24.14	24.4
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.25	24.25	24.14	24.4
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	24.30	24.23	24.19	24.4
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.25	24.24	24.13	24.4
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.34	24.21	24.14	24.4
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.29	24.22	24.16	24.4
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.32	24.28	24.11	24.4
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.34	24.24	24.19	24.4
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	24.26	24.22	24.13	24.4
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	24.32	24.27	24.18	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	25.06	25.20	25.07	25.6
100	PI/2 BPSK	1	137	24.83	24.89	24.81	
100	PI/2 BPSK	1	271	24.84	24.99	24.85	
100	PI/2 BPSK	135	0	24.73	24.94	24.84	25.6
100	PI/2 BPSK	135	69	24.96	25.10	24.94	25.6
100	PI/2 BPSK	135	138	24.69	24.84	24.82	25.6
100	PI/2 BPSK	270	0	24.71	24.90	24.80	
100	QPSK	1	1	24.97	25.08	24.95	25.6
100	QPSK	1	137	24.77	24.82	24.88	
100	QPSK	1	271	24.92	25.02	24.88	
100	QPSK	135	0	24.67	24.83	24.80	25.6
100	QPSK	135	69	24.78	24.95	24.83	25.6
100	QPSK	135	138	24.81	24.96	24.83	25.6
100	QPSK	270	0	24.75	24.91	24.73	
100	16QAM	1	1	24.91	25.11	25.05	25.6
100	64QAM	1	1	23.28	23.37	23.22	24.5
100	256QAM	1	1	21.41	21.69	21.54	22.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.96	25.13	25.06	25.6
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	25.03	25.10	24.98	25.6
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	25.01	25.17	24.98	25.6
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.98	25.14	24.99	25.6
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	25.01	25.19	24.98	25.6
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.98	25.17	24.99	25.6
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	25.03	25.18	25.03	25.6
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.98	25.10	25.02	25.6
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	24.97	25.16	25.04	25.6
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	25.04	25.19	24.99	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	24.95	24.99	24.95	25.7
100	PI/2 BPSK	1	137	24.70	24.79	24.75	
100	PI/2 BPSK	1	271	24.78	24.87	24.66	
100	PI/2 BPSK	135	0	24.67	24.63	24.63	25.7
100	PI/2 BPSK	135	69	24.71	24.74	24.72	25.7
100	PI/2 BPSK	135	138	24.63	24.69	24.68	25.7
100	PI/2 BPSK	270	0	24.58	24.64	24.63	
100	QPSK	1	1	24.95	24.92	24.90	25.7
100	QPSK	1	137	24.65	24.72	24.70	
100	QPSK	1	271	24.81	24.87	24.67	
100	QPSK	135	0	24.72	24.71	24.72	25.7
100	QPSK	135	69	24.71	24.73	24.73	25.7
100	QPSK	135	138	24.70	24.70	24.73	25.7
100	QPSK	270	0	24.74	24.65	24.66	
100	16QAM	1	1	24.87	24.94	24.67	25.7
100	64QAM	1	1	23.29	23.38	23.20	24.5
100	256QAM	1	1	21.64	21.65	21.40	22.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.92	24.94	24.68	25.7
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.91	24.97	24.84	25.7
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	24.90	24.97	24.83	25.7
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.95	24.93	24.92	25.7
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.96	24.89	24.87	25.7
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.98	24.98	24.79	25.7
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.94	24.94	24.75	25.7
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.93	24.98	24.77	25.7
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	24.96	24.94	24.80	25.7
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	24.92	24.91	24.79	25.7



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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	21.13	21.15	21.11	22.6
100	PI/2 BPSK	1	137	20.90	21.01	20.99	
100	PI/2 BPSK	1	271	21.04	21.08	21.10	
100	PI/2 BPSK	135	0	20.93	20.91	20.96	22.6
100	PI/2 BPSK	135	69	20.96	21.02	21.00	22.6
100	PI/2 BPSK	135	138	20.88	20.94	20.94	22.6
100	PI/2 BPSK	270	0	20.92	20.98	20.91	
100	QPSK	1	1	21.12	21.14	21.08	22.6
100	QPSK	1	137	20.91	20.96	20.99	
100	QPSK	1	271	21.02	21.07	20.95	
100	QPSK	135	0	20.98	20.96	20.94	22.6
100	QPSK	135	69	20.87	20.93	20.98	22.6
100	QPSK	135	138	20.86	20.99	20.91	22.6
100	QPSK	270	0	20.95	20.95	20.94	
100	16QAM	1	1	21.07	21.05	21.12	22.6
100	64QAM	1	1	21.05	21.04	21.05	22.6
100	256QAM	1	1	20.97	20.99	20.95	22.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.02	21.12	21.09	22.6
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	21.03	21.08	21.08	22.6
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	21.06	21.12	21.08	22.6
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	21.04	21.14	21.09	22.6
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	21.04	21.07	21.04	22.6
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.08	21.12	21.02	22.6
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	21.04	21.13	21.02	22.6
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.01	21.12	21.04	22.6
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	21.05	21.06	21.00	22.6
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.04	21.05	21.10	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	24.35	24.29	24.21	25.2
100	PI/2 BPSK	1	137	24.05	24.01	23.85	
100	PI/2 BPSK	1	271	24.03	24.09	23.86	
100	PI/2 BPSK	135	0	23.96	23.99	23.89	25.2
100	PI/2 BPSK	135	69	23.99	24.03	23.96	25.2
100	PI/2 BPSK	135	138	23.95	23.94	23.79	25.2
100	PI/2 BPSK	270	0	23.94	24.02	23.89	
100	QPSK	1	1	24.23	24.28	24.05	25.2
100	QPSK	1	137	23.99	23.95	23.87	
100	QPSK	1	271	24.07	24.09	23.86	
100	QPSK	135	0	24.06	24.04	23.87	25.2
100	QPSK	135	69	24.03	23.99	23.92	25.2
100	QPSK	135	138	23.91	23.92	23.73	25.2
100	QPSK	270	0	23.96	23.98	23.87	
100	16QAM	1	1	24.21	24.11	24.04	25.2
100	64QAM	1	1	23.90	23.92	23.83	24.5
100	256QAM	1	1	22.18	22.19	22.01	22.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.27	24.22	24.14	25.2
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.25	24.25	24.14	25.2
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	24.30	24.23	24.19	25.2
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.25	24.24	24.13	25.2
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.34	24.21	24.14	25.2
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.29	24.22	24.16	25.2
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.32	24.28	24.11	25.2
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.34	24.24	24.19	25.2
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	24.26	24.22	24.13	25.2
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	24.32	24.27	24.18	25.2



<FR1 n41_HPUE_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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	25.06	25.20	25.07	26.4
100	PI/2 BPSK	1	137	24.83	24.89	24.81	
100	PI/2 BPSK	1	271	24.84	24.99	24.85	
100	PI/2 BPSK	135	0	24.73	24.94	24.84	26.4
100	PI/2 BPSK	135	69	24.96	25.10	24.94	26.4
100	PI/2 BPSK	135	138	24.69	24.84	24.82	26.4
100	PI/2 BPSK	270	0	24.71	24.90	24.80	
100	QPSK	1	1	24.97	25.08	24.95	26.4
100	QPSK	1	137	24.77	24.82	24.88	
100	QPSK	1	271	24.92	25.02	24.88	
100	QPSK	135	0	24.67	24.83	24.80	26.0
100	QPSK	135	69	24.78	24.95	24.83	26.4
100	QPSK	135	138	24.81	24.96	24.83	26.0
100	QPSK	270	0	24.75	24.91	24.73	
100	16QAM	1	1	24.91	25.11	25.05	26.0
100	64QAM	1	1	23.28	23.37	23.22	24.5
100	256QAM	1	1	21.41	21.69	21.54	22.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.96	25.13	25.06	26.4
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	25.03	25.10	24.98	26.4
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	25.01	25.17	24.98	26.4
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.98	25.14	24.99	26.4
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	25.01	25.19	24.98	26.4
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.98	25.17	24.99	26.4
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	25.03	25.18	25.03	26.4
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.98	25.10	25.02	26.4
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	24.97	25.16	25.04	26.4
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	25.04	25.19	24.99	26.4



<FR1 n41_HPUE_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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.95	24.99	24.95	26.5
100	PI/2 BPSK	1	137	24.70	24.79	24.75	
100	PI/2 BPSK	1	271	24.78	24.87	24.66	
100	PI/2 BPSK	135	0	24.67	24.63	24.63	26.5
100	PI/2 BPSK	135	69	24.71	24.74	24.72	26.5
100	PI/2 BPSK	135	138	24.63	24.69	24.68	26.5
100	PI/2 BPSK	270	0	24.58	24.64	24.63	
100	QPSK	1	1	24.95	24.92	24.90	26.5
100	QPSK	1	137	24.65	24.72	24.70	
100	QPSK	1	271	24.81	24.87	24.67	
100	QPSK	135	0	24.72	24.71	24.72	26.0
100	QPSK	135	69	24.71	24.73	24.73	26.5
100	QPSK	135	138	24.70	24.70	24.73	26.0
100	QPSK	270	0	24.74	24.65	24.66	
100	16QAM	1	1	24.87	24.94	24.67	26.0
100	64QAM	1	1	23.29	23.38	23.20	24.5
100	256QAM	1	1	21.64	21.65	21.40	22.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.92	24.94	24.68	26.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.91	24.97	24.84	26.5
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	24.90	24.97	24.83	26.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.95	24.93	24.92	26.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.96	24.89	24.87	26.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.98	24.98	24.79	26.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.94	24.94	24.75	26.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.93	24.98	24.77	26.5
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	24.96	24.94	24.80	26.5
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	24.92	24.91	24.79	26.5



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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	21.13	21.15	21.11	21.8
100	PI/2 BPSK	1	137	20.90	21.01	20.99	
100	PI/2 BPSK	1	271	21.04	21.08	21.10	
100	PI/2 BPSK	135	0	20.93	20.91	20.96	21.8
100	PI/2 BPSK	135	69	20.96	21.02	21.00	21.8
100	PI/2 BPSK	135	138	20.88	20.94	20.94	21.8
100	PI/2 BPSK	270	0	20.92	20.98	20.91	
100	QPSK	1	1	21.12	21.14	21.08	21.8
100	QPSK	1	137	20.91	20.96	20.99	
100	QPSK	1	271	21.02	21.07	20.95	
100	QPSK	135	0	20.98	20.96	20.94	21.8
100	QPSK	135	69	20.87	20.93	20.98	21.8
100	QPSK	135	138	20.86	20.99	20.91	21.8
100	QPSK	270	0	20.95	20.95	20.94	
100	16QAM	1	1	21.07	21.05	21.12	21.8
100	64QAM	1	1	21.05	21.04	21.05	21.8
100	256QAM	1	1	20.97	20.99	20.95	21.8
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.02	21.12	21.09	21.8
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	21.03	21.08	21.08	21.8
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	21.06	21.12	21.08	21.8
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	21.04	21.14	21.09	21.8
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	21.04	21.07	21.04	21.8
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.08	21.12	21.02	21.8
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	21.04	21.13	21.02	21.8
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.01	21.12	21.04	21.8
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	21.05	21.06	21.00	21.8
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.04	21.05	21.10	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				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	25.06	25.20	25.07	25.6
100	PI/2 BPSK	1	137	24.83	24.89	24.81	
100	PI/2 BPSK	1	271	24.84	24.99	24.85	
100	PI/2 BPSK	135	0	24.73	24.94	24.84	25.6
100	PI/2 BPSK	135	69	24.96	25.10	24.94	25.6
100	PI/2 BPSK	135	138	24.69	24.84	24.82	25.6
100	PI/2 BPSK	270	0	24.71	24.90	24.80	
100	QPSK	1	1	24.97	25.08	24.95	25.6
100	QPSK	1	137	24.77	24.82	24.88	
100	QPSK	1	271	24.92	25.02	24.88	
100	QPSK	135	0	24.67	24.83	24.80	25.6
100	QPSK	135	69	24.78	24.95	24.83	25.6
100	QPSK	135	138	24.81	24.96	24.83	25.6
100	QPSK	270	0	24.75	24.91	24.73	
100	16QAM	1	1	24.91	25.11	25.05	25.6
100	64QAM	1	1	23.28	23.37	23.22	24.5
100	256QAM	1	1	21.41	21.69	21.54	22.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.96	25.13	25.06	25.6
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	25.03	25.10	24.98	25.6
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	25.01	25.17	24.98	25.6
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.98	25.14	24.99	25.6
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	25.01	25.19	24.98	25.6
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.98	25.17	24.99	25.6
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	25.03	25.18	25.03	25.6
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.98	25.10	25.02	25.6
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	24.97	25.16	25.04	25.6
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	25.04	25.19	24.99	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	24.95	24.99	24.95	25.7
100	PI/2 BPSK	1	137	24.70	24.79	24.75	
100	PI/2 BPSK	1	271	24.78	24.87	24.66	
100	PI/2 BPSK	135	0	24.67	24.63	24.63	25.7
100	PI/2 BPSK	135	69	24.71	24.74	24.72	25.7
100	PI/2 BPSK	135	138	24.63	24.69	24.68	25.7
100	PI/2 BPSK	270	0	24.58	24.64	24.63	
100	QPSK	1	1	24.95	24.92	24.90	25.7
100	QPSK	1	137	24.65	24.72	24.70	
100	QPSK	1	271	24.81	24.87	24.67	
100	QPSK	135	0	24.72	24.71	24.72	25.7
100	QPSK	135	69	24.71	24.73	24.73	25.7
100	QPSK	135	138	24.70	24.70	24.73	25.7
100	QPSK	270	0	24.74	24.65	24.66	
100	16QAM	1	1	24.87	24.94	24.67	25.7
100	64QAM	1	1	23.29	23.38	23.20	24.5
100	256QAM	1	1	21.64	21.65	21.40	22.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.92	24.94	24.68	25.7
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.91	24.97	24.84	25.7
Channel				506202	518598	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2592.99	2655	
70	PI/2 BPSK	1	1	24.90	24.97	24.83	25.7
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.95	24.93	24.92	25.7
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.96	24.89	24.87	25.7
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.98	24.98	24.79	25.7
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.94	24.94	24.75	25.7
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.93	24.98	24.77	25.7
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	24.96	24.94	24.80	25.7
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	24.92	24.91	24.79	25.7



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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)		
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	13.77	13.63	13.67	14.60	14.60	14.60
10	PI/2 BPSK	1	22	13.70	13.65	13.71	14.60	14.60	14.60
10	PI/2 BPSK	12	6	13.61	13.52	13.54	14.60	14.60	14.60
10	PI/2 BPSK	1	0	13.69	13.62	13.75	14.60	14.60	14.60
10	PI/2 BPSK	1	23	13.65	13.58	13.60	14.60	14.60	14.60
10	PI/2 BPSK	24	0	13.54	13.63	13.57	14.60	14.60	14.60
10	QPSK	1	1	13.61	13.61	13.66	14.60	14.60	14.60
10	QPSK	1	22	13.64	13.63	13.62	14.60	14.60	14.60
10	QPSK	12	6	13.57	13.59	13.56	14.60	14.60	14.60
10	QPSK	1	0	13.62	13.70	13.59	14.60	14.60	14.60
10	QPSK	1	23	13.62	13.66	13.59	14.60	14.60	14.60
10	QPSK	24	0	13.61	13.65	13.55	14.60	14.60	14.60
10	16QAM	1	1	13.71	13.66	13.70	14.60	14.60	14.60
10	64QAM	1	1	13.66	13.78	13.70	14.60	14.60	14.60
10	256QAM	1	1	13.53	13.61	13.53	14.60	14.60	14.60
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	13.64	13.62	13.63	14.60	14.60	14.60
15	PI/2 BPSK	1	36	13.71	13.71	13.67	14.60	14.60	14.60
15	PI/2 BPSK	18	9	13.62	13.60	13.64	14.60	14.60	14.60
15	PI/2 BPSK	1	0	13.66	13.70	13.72	14.60	14.60	14.60
15	PI/2 BPSK	1	37	13.68	13.67	13.65	14.60	14.60	14.60
15	PI/2 BPSK	36	0	13.57	13.57	13.59	14.60	14.60	14.60
15	QPSK	1	1	13.66	13.73	13.69	14.60	14.60	14.60
15	QPSK	1	36	13.64	13.61	13.70	14.60	14.60	14.60
15	QPSK	18	9	13.68	13.56	13.58	14.60	14.60	14.60
15	QPSK	1	0	13.57	13.62	13.68	14.60	14.60	14.60
15	QPSK	1	37	13.65	13.65	13.64	14.60	14.60	14.60
15	QPSK	36	0	13.62	13.63	13.60	14.60	14.60	14.60
15	16QAM	1	1	13.69	13.68	13.67	14.60	14.60	14.60
15	64QAM	1	1	13.65	13.71	13.62	14.60	14.60	14.60
15	256QAM	1	1	13.62	13.55	13.60	14.60	14.60	14.60
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	13.75	13.76	13.71	14.60	14.60	14.60
20	PI/2 BPSK	1	49	13.69	13.60	13.72	14.60	14.60	14.60
20	PI/2 BPSK	25	12	13.61	13.60	13.61	14.60	14.60	14.60
20	PI/2 BPSK	1	0	13.67	13.71	13.62	14.60	14.60	14.60
20	PI/2 BPSK	1	50	13.59	13.62	13.62	14.60	14.60	14.60
20	PI/2 BPSK	50	0	13.52	13.62	13.53	14.60	14.60	14.60
20	QPSK	1	1	13.66	13.70	13.74	14.60	14.60	14.60
20	QPSK	1	49	13.69	13.61	13.73	14.60	14.60	14.60
20	QPSK	25	12	13.63	13.57	13.54	14.60	14.60	14.60
20	QPSK	1	0	13.57	13.63	13.72	14.60	14.60	14.60
20	QPSK	1	50	13.57	13.69	13.71	14.60	14.60	14.60
20	QPSK	50	0	13.55	13.62	13.59	14.60	14.60	14.60
20	16QAM	1	1	13.64	13.68	13.71	14.60	14.60	14.60
20	64QAM	1	1	13.60	13.71	13.72	14.60	14.60	14.60
20	256QAM	1	1	13.54	13.57	13.62	14.60	14.60	14.60
Sub carrier spacing		Channel		637668	641666	645666	637668	641666	645666
30k	Hz	Frequency (MHz)		3565.02	3624.99	3684.99	3565.02	3624.99	3684.99



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30	PI/2 BPSK	1	1	12.20	13.70	12.04	13.00	14.60	13.00
30	PI/2 BPSK	1	76	11.98	13.60	11.82	13.00	14.60	13.00
30	PI/2 BPSK	36	18	12.04	13.64	13.57	13.00	14.60	14.60
30	PI/2 BPSK	1	0	12.23	13.75	12.02	13.00	14.60	13.00
30	PI/2 BPSK	1	77	11.99	13.57	11.82	13.00	14.60	13.00
30	PI/2 BPSK	75	0	12.06	13.60	11.91	13.00	14.60	13.00
30	QPSK	1	1	12.19	13.63	12.05	13.00	14.60	13.00
30	QPSK	1	76	12.00	13.70	11.82	13.00	14.60	13.00
30	QPSK	36	18	12.05	13.50	13.60	13.00	14.60	14.60
30	QPSK	1	0	12.18	13.63	12.03	13.00	14.60	13.00
30	QPSK	1	77	11.98	13.63	11.80	13.00	14.60	13.00
30	QPSK	75	0	12.03	13.67	11.91	13.00	14.60	13.00
30	16QAM	1	1	11.68	13.71	11.48	13.00	14.60	13.00
30	64QAM	1	1	11.57	13.70	11.48	13.00	14.60	13.00
30	256QAM	1	1	11.78	13.52	11.56	13.00	14.60	13.00
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	12.22	13.76	11.98	13.00	14.60	13.00
40	PI/2 BPSK	1	104	11.97	13.75	11.84	13.00	14.60	13.00
40	PI/2 BPSK	50	25	12.05	13.67	11.95	13.00	14.60	13.00
40	PI/2 BPSK	1	0	12.21	13.77	11.99	13.00	14.60	13.00
40	PI/2 BPSK	1	105	11.93	13.67	11.84	13.00	14.60	13.00
40	PI/2 BPSK	100	0	12.09	13.62	11.95	13.00	14.60	13.00
40	QPSK	1	1	12.21	13.67	11.97	13.00	14.60	13.00
40	QPSK	1	104	11.97	13.73	11.84	13.00	14.60	13.00
40	QPSK	50	25	12.06	13.60	11.97	13.00	14.60	13.00
40	QPSK	1	0	12.19	13.72	11.94	13.00	14.60	13.00
40	QPSK	1	105	11.96	13.74	11.85	13.00	14.60	13.00
40	QPSK	100	0	12.06	13.71	11.98	13.00	14.60	13.00
40	16QAM	1	1	11.84	13.74	11.57	13.00	14.60	13.00
40	64QAM	1	1	11.74	13.69	11.57	13.00	14.60	13.00
40	256QAM	1	1	11.76	13.67	11.37	13.00	14.60	13.00



<FR1 n48_Ant 2_Index 2/3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				638000	641666	645332	Tune-up limit (dBm)
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	24.60	24.59	24.55	25.3
40	PI/2 BPSK	1	53	24.42	24.49	24.43	
40	PI/2 BPSK	1	104	24.54	24.57	24.53	
40	PI/2 BPSK	50	0	24.05	24.06	24.01	24.8
40	PI/2 BPSK	50	28	24.49	24.53	24.46	25.3
40	PI/2 BPSK	50	56	23.89	23.98	23.94	24.8
40	PI/2 BPSK	100	0	24.00	24.00	23.91	
40	QPSK	1	1	24.49	24.50	24.36	25.3
40	QPSK	1	53	24.47	24.46	24.36	
40	QPSK	1	104	24.41	24.48	24.37	
40	QPSK	50	0	23.48	23.55	23.47	24.3
40	QPSK	50	28	24.44	24.48	24.36	25.3
40	QPSK	50	56	23.42	23.51	23.44	24.3
40	QPSK	100	0	23.48	23.53	23.39	
40	16QAM	1	1	23.48	23.50	23.46	24.3
40	64QAM	1	1	22.05	22.11	22.06	22.8
40	256QAM	1	1	20.17	20.24	20.19	20.8
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	24.47	24.45	24.45	25.3
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	24.46	24.48	24.41	25.3
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	24.49	24.51	24.52	25.3
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	24.53	24.48	24.50	25.3



<FR1 n48_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				638000	641666	645332	Tune-up limit (dBm)
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	24.05	24.06	24.02	24.9
40	PI/2 BPSK	1	53	23.94	24.00	23.86	
40	PI/2 BPSK	1	104	23.95	23.98	23.94	
40	PI/2 BPSK	50	0	23.41	23.52	23.42	24.4
40	PI/2 BPSK	50	28	24.00	24.01	23.95	24.9
40	PI/2 BPSK	50	56	23.43	23.46	23.39	24.4
40	PI/2 BPSK	100	0	23.38	23.49	23.37	
40	QPSK	1	1	23.95	24.04	23.93	24.9
40	QPSK	1	53	23.93	24.01	23.91	
40	QPSK	1	104	23.91	24.02	23.95	
40	QPSK	50	0	22.91	23.01	22.91	23.9
40	QPSK	50	28	23.97	24.00	23.96	24.9
40	QPSK	50	56	22.90	22.99	22.95	23.9
40	QPSK	100	0	22.96	23.01	22.92	
40	16QAM	1	1	23.00	23.01	22.96	23.9
40	64QAM	1	1	21.55	21.58	21.49	22.4
40	256QAM	1	1	19.70	19.79	19.75	20.4
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	23.92	23.93	23.87	24.9
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	23.91	23.94	23.91	24.9
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	23.95	23.99	23.97	24.9
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	23.95	24.00	23.89	24.9



<FR1 n48_Ant 6_Index 2/3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)		
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	24.42	24.50	24.53	25.30	25.30	25.30
10	PI/2 BPSK	1	22	24.42	24.50	24.51	25.30	25.30	25.30
10	PI/2 BPSK	12	6	24.43	24.46	24.51	25.30	25.30	25.30
10	PI/2 BPSK	1	0	23.95	23.95	24.04	24.30	24.30	24.30
10	PI/2 BPSK	1	23	23.89	23.97	24.03	24.30	24.30	24.30
10	PI/2 BPSK	24	0	23.92	23.98	24.01	24.30	24.30	24.30
10	QPSK	1	1	24.49	24.50	24.54	25.30	25.30	25.30
10	QPSK	1	22	24.45	24.54	24.54	25.30	25.30	25.30
10	QPSK	12	6	24.44	24.47	24.49	25.30	25.30	25.30
10	QPSK	1	0	23.43	23.43	23.54	24.30	24.30	24.30
10	QPSK	1	23	23.41	23.44	23.55	24.30	24.30	24.30
10	QPSK	24	0	23.43	23.46	23.50	24.30	24.30	24.30
10	16QAM	1	1	23.36	23.59	23.43	24.30	24.30	24.30
10	64QAM	1	1	22.01	22.24	22.12	23.00	23.00	23.00
10	256QAM	1	1	19.88	19.91	19.95	21.00	21.00	21.00
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	20.48	24.44	24.48	21.00	25.30	25.30
15	PI/2 BPSK	1	36	24.48	24.51	20.51	25.30	25.30	21.00
15	PI/2 BPSK	18	9	24.45	24.46	24.45	25.30	25.30	25.30
15	PI/2 BPSK	1	0	20.41	24.00	23.97	21.00	24.30	24.30
15	PI/2 BPSK	1	37	23.94	24.03	20.46	24.30	24.30	21.00
15	PI/2 BPSK	36	0	20.42	23.95	20.51	21.00	24.30	21.00
15	QPSK	1	1	20.50	24.46	24.48	21.00	25.30	25.30
15	QPSK	1	36	24.43	24.48	20.45	25.30	25.30	21.00
15	QPSK	18	9	24.46	24.46	24.53	25.30	25.30	25.30
15	QPSK	1	0	20.50	23.44	23.47	21.00	24.30	24.30
15	QPSK	1	37	23.44	23.50	20.44	24.30	24.30	21.00
15	QPSK	36	0	20.47	23.48	20.47	21.00	24.30	21.00
15	16QAM	1	1	19.50	23.46	23.44	21.00	24.30	24.30
15	64QAM	1	1	19.40	22.11	21.88	21.00	23.00	22.00
15	256QAM	1	1	19.92	19.95	19.84	21.00	21.00	21.00
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	20.51	24.47	24.42	21.00	25.30	25.30
20	PI/2 BPSK	1	49	24.47	24.47	20.43	25.30	25.30	21.00
20	PI/2 BPSK	25	12	24.46	24.47	24.44	25.30	25.30	25.30
20	PI/2 BPSK	1	0	20.42	23.91	23.93	21.00	24.30	24.30
20	PI/2 BPSK	1	50	23.92	23.96	20.46	24.30	24.30	21.00
20	PI/2 BPSK	50	0	20.46	23.93	20.44	21.00	24.30	21.00
20	QPSK	1	1	20.56	24.47	24.39	21.00	25.30	25.30
20	QPSK	1	49	24.48	24.51	20.42	25.30	25.30	21.00
20	QPSK	25	12	24.48	24.45	24.43	25.30	25.30	25.30
20	QPSK	1	0	20.55	23.51	23.42	21.00	24.30	24.30
20	QPSK	1	50	23.49	23.52	20.48	24.30	24.30	21.00
20	QPSK	50	0	20.44	23.45	20.42	21.00	24.30	21.00
20	16QAM	1	1	19.55	23.54	23.46	21.00	24.30	24.30
20	64QAM	1	1	19.72	21.93	22.02	21.00	22.00	23.00
20	256QAM	1	1	20.04	19.76	19.98	21.00	21.00	21.00
Sub carrier spacing		Channel		637668	641666	645666	637668	641666	645666
30k	Hz	Frequency (MHz)		3565.02	3624.99	3684.99	3565.02	3624.99	3684.99



FCC SAR TEST REPORT

Report No. : FA3D2001D

30	PI/2 BPSK	1	1	12.91	20.46	12.91	13.00	21.00	13.00
30	PI/2 BPSK	1	76	12.84	20.50	12.95	13.00	21.00	13.00
30	PI/2 BPSK	36	18	12.86	24.47	24.50	13.00	25.30	25.30
30	PI/2 BPSK	1	0	12.90	20.46	12.89	13.00	21.00	13.00
30	PI/2 BPSK	1	77	12.83	20.49	12.95	13.00	21.00	13.00
30	PI/2 BPSK	75	0	12.85	20.47	12.93	13.00	21.00	13.00
30	QPSK	1	1	12.90	20.42	12.89	13.00	21.00	13.00
30	QPSK	1	76	12.85	20.49	12.94	13.00	21.00	13.00
30	QPSK	36	18	12.88	24.45	24.50	13.00	25.30	25.30
30	QPSK	1	0	12.91	20.44	12.91	13.00	21.00	13.00
30	QPSK	1	77	12.81	20.48	12.95	13.00	21.00	13.00
30	QPSK	75	0	12.85	20.47	12.98	13.00	21.00	13.00
30	16QAM	1	1	12.32	20.39	12.36	13.00	21.00	13.00
30	64QAM	1	1	12.43	20.50	12.40	13.00	21.00	13.00
30	256QAM	1	1	12.45	19.94	12.30	13.00	21.00	13.00
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	12.97	20.46	12.80	13.00	21.00	13.00
40	PI/2 BPSK	1	104	12.92	20.48	12.84	13.00	21.00	13.00
40	PI/2 BPSK	50	25	12.89	24.46	12.86	13.00	25.30	13.00
40	PI/2 BPSK	1	0	12.98	20.47	12.79	13.00	21.00	13.00
40	PI/2 BPSK	1	105	12.92	20.48	12.87	13.00	21.00	13.00
40	PI/2 BPSK	100	0	12.90	19.97	12.82	13.00	21.00	13.00
40	QPSK	1	1	12.96	20.44	12.91	13.00	21.00	13.00
40	QPSK	1	104	12.92	20.49	12.91	13.00	21.00	13.00
40	QPSK	50	25	12.86	24.45	12.84	13.00	25.30	13.00
40	QPSK	1	0	12.97	20.46	12.88	13.00	21.00	13.00
40	QPSK	1	105	12.88	20.49	12.91	13.00	21.00	13.00
40	QPSK	100	0	12.90	19.95	12.83	13.00	21.00	13.00
40	16QAM	1	1	12.47	20.51	12.53	13.00	21.00	13.00
40	64QAM	1	1	12.39	20.55	12.24	13.00	21.00	13.00
40	256QAM	1	1	12.38	20.03	12.24	13.00	21.00	13.00



<FR1 n48_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)		
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	13.77	13.63	13.67	13.80	13.80	13.80
10	PI/2 BPSK	1	22	13.70	13.65	13.71	13.80	13.80	13.80
10	PI/2 BPSK	12	6	13.61	13.52	13.54	13.80	13.80	13.80
10	PI/2 BPSK	1	0	13.69	13.62	13.75	13.80	13.80	13.80
10	PI/2 BPSK	1	23	13.65	13.58	13.60	13.80	13.80	13.80
10	PI/2 BPSK	24	0	13.54	13.63	13.57	13.80	13.80	13.80
10	QPSK	1	1	13.61	13.61	13.66	13.80	13.80	13.80
10	QPSK	1	22	13.64	13.63	13.62	13.80	13.80	13.80
10	QPSK	12	6	13.57	13.59	13.56	13.80	13.80	13.80
10	QPSK	1	0	13.62	13.70	13.59	13.80	13.80	13.80
10	QPSK	1	23	13.62	13.66	13.59	13.80	13.80	13.80
10	QPSK	24	0	13.61	13.65	13.55	13.80	13.80	13.80
10	16QAM	1	1	13.71	13.66	13.70	13.80	13.80	13.80
10	64QAM	1	1	13.66	13.78	13.70	13.80	13.80	13.80
10	256QAM	1	1	13.53	13.61	13.53	13.80	13.80	13.80
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	13.64	13.62	13.63	13.80	13.80	13.80
15	PI/2 BPSK	1	36	13.71	13.71	13.67	13.80	13.80	13.80
15	PI/2 BPSK	18	9	13.62	13.60	13.64	13.80	13.80	13.80
15	PI/2 BPSK	1	0	13.66	13.70	13.72	13.80	13.80	13.80
15	PI/2 BPSK	1	37	13.68	13.67	13.65	13.80	13.80	13.80
15	PI/2 BPSK	36	0	13.57	13.57	13.59	13.80	13.80	13.80
15	QPSK	1	1	13.66	13.73	13.69	13.80	13.80	13.80
15	QPSK	1	36	13.64	13.61	13.70	13.80	13.80	13.80
15	QPSK	18	9	13.68	13.56	13.58	13.80	13.80	13.80
15	QPSK	1	0	13.57	13.62	13.68	13.80	13.80	13.80
15	QPSK	1	37	13.65	13.65	13.64	13.80	13.80	13.80
15	QPSK	36	0	13.62	13.63	13.60	13.80	13.80	13.80
15	16QAM	1	1	13.69	13.68	13.67	13.80	13.80	13.80
15	64QAM	1	1	13.65	13.71	13.62	13.80	13.80	13.80
15	256QAM	1	1	13.62	13.55	13.60	13.80	13.80	13.80
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	13.75	13.76	13.71	13.80	13.80	13.80
20	PI/2 BPSK	1	49	13.69	13.60	13.72	13.80	13.80	13.80
20	PI/2 BPSK	25	12	13.61	13.60	13.61	13.80	13.80	13.80
20	PI/2 BPSK	1	0	13.67	13.71	13.62	13.80	13.80	13.80
20	PI/2 BPSK	1	50	13.59	13.62	13.62	13.80	13.80	13.80
20	PI/2 BPSK	50	0	13.52	13.62	13.53	13.80	13.80	13.80
20	QPSK	1	1	13.66	13.70	13.74	13.80	13.80	13.80
20	QPSK	1	49	13.69	13.61	13.73	13.80	13.80	13.80
20	QPSK	25	12	13.63	13.57	13.54	13.80	13.80	13.80
20	QPSK	1	0	13.57	13.63	13.72	13.80	13.80	13.80
20	QPSK	1	50	13.57	13.69	13.71	13.80	13.80	13.80
20	QPSK	50	0	13.55	13.62	13.59	13.80	13.80	13.80
20	16QAM	1	1	13.64	13.68	13.71	13.80	13.80	13.80
20	64QAM	1	1	13.60	13.71	13.72	13.80	13.80	13.80
20	256QAM	1	1	13.54	13.57	13.62	13.80	13.80	13.80
Sub carrier spacing		Channel		637668	641666	645666	637668	641666	645666
30k	Hz	Frequency (MHz)		3565.02	3624.99	3684.99	3565.02	3624.99	3684.99



FCC SAR TEST REPORT

Report No. : FA3D2001D

30	PI/2 BPSK	1	1	12.20	13.70	12.04	13.00	13.80	13.00
30	PI/2 BPSK	1	76	11.98	13.60	11.82	13.00	13.80	13.00
30	PI/2 BPSK	36	18	12.04	13.64	13.57	13.00	13.80	13.80
30	PI/2 BPSK	1	0	12.23	13.75	12.02	13.00	13.80	13.00
30	PI/2 BPSK	1	77	11.99	13.57	11.82	13.00	13.80	13.00
30	PI/2 BPSK	75	0	12.06	13.60	11.91	13.00	13.80	13.00
30	QPSK	1	1	12.19	13.63	12.05	13.00	13.80	13.00
30	QPSK	1	76	12.00	13.70	11.82	13.00	13.80	13.00
30	QPSK	36	18	12.05	13.50	13.60	13.00	13.80	13.80
30	QPSK	1	0	12.18	13.63	12.03	13.00	13.80	13.00
30	QPSK	1	77	11.98	13.63	11.80	13.00	13.80	13.00
30	QPSK	75	0	12.03	13.67	11.91	13.00	13.80	13.00
30	16QAM	1	1	11.68	13.71	11.48	13.00	13.80	13.00
30	64QAM	1	1	11.57	13.70	11.48	13.00	13.80	13.00
30	256QAM	1	1	11.78	13.52	11.56	13.00	13.80	13.00
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	12.22	13.76	11.98	13.00	13.80	13.00
40	PI/2 BPSK	1	104	11.97	13.75	11.84	13.00	13.80	13.00
40	PI/2 BPSK	50	25	12.05	13.67	11.95	13.00	13.80	13.00
40	PI/2 BPSK	1	0	12.21	13.77	11.99	13.00	13.80	13.00
40	PI/2 BPSK	1	105	11.93	13.67	11.84	13.00	13.80	13.00
40	PI/2 BPSK	100	0	12.09	13.62	11.95	13.00	13.80	13.00
40	QPSK	1	1	12.21	13.67	11.97	13.00	13.80	13.00
40	QPSK	1	104	11.97	13.73	11.84	13.00	13.80	13.00
40	QPSK	50	25	12.06	13.60	11.97	13.00	13.80	13.00
40	QPSK	1	0	12.19	13.72	11.94	13.00	13.80	13.00
40	QPSK	1	105	11.96	13.74	11.85	13.00	13.80	13.00
40	QPSK	100	0	12.06	13.71	11.98	13.00	13.80	13.00
40	16QAM	1	1	11.84	13.74	11.57	13.00	13.80	13.00
40	64QAM	1	1	11.74	13.69	11.57	13.00	13.80	13.00
40	256QAM	1	1	11.76	13.67	11.37	13.00	13.80	13.00



<FR1 n48_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				638000	641666	645332	Tune-up limit (dBm)
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	24.05	24.06	24.02	24.4
40	PI/2 BPSK	1	53	23.94	24.00	23.86	
40	PI/2 BPSK	1	104	23.95	23.98	23.94	
40	PI/2 BPSK	50	0	23.41	23.52	23.42	24.4
40	PI/2 BPSK	50	28	24.00	24.01	23.95	24.4
40	PI/2 BPSK	50	56	23.43	23.46	23.39	24.4
40	PI/2 BPSK	100	0	23.38	23.49	23.37	
40	QPSK	1	1	23.95	24.04	23.93	24.4
40	QPSK	1	53	23.93	24.01	23.91	
40	QPSK	1	104	23.91	24.02	23.95	
40	QPSK	50	0	22.91	23.01	22.91	24.0
40	QPSK	50	28	23.97	24.00	23.96	24.4
40	QPSK	50	56	22.90	22.99	22.95	24.0
40	QPSK	100	0	22.96	23.01	22.92	
40	16QAM	1	1	23.00	23.01	22.96	24.0
40	64QAM	1	1	21.55	21.58	21.49	22.5
40	256QAM	1	1	19.70	19.79	19.75	20.5
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	23.92	23.93	23.87	24.4
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	23.91	23.94	23.91	24.4
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	23.95	23.99	23.97	24.4
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	23.95	24.00	23.89	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)		
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	22.23	22.06	21.97	22.50	22.50	22.50
10	PI/2 BPSK	1	22	22.06	22.10	21.82	22.50	22.50	22.50
10	PI/2 BPSK	12	6	22.15	22.02	21.91	22.50	22.50	22.50
10	PI/2 BPSK	1	0	22.20	22.09	21.96	22.50	22.50	22.50
10	PI/2 BPSK	1	23	22.04	22.10	21.79	22.50	22.50	22.50
10	PI/2 BPSK	24	0	22.14	22.08	21.88	22.50	22.50	22.50
10	QPSK	1	1	22.16	22.11	21.91	22.50	22.50	22.50
10	QPSK	1	22	22.12	22.09	21.90	22.50	22.50	22.50
10	QPSK	12	6	22.13	22.13	21.86	22.50	22.50	22.50
10	QPSK	1	0	22.20	22.12	21.95	22.50	22.50	22.50
10	QPSK	1	23	22.05	22.10	21.91	22.50	22.50	22.50
10	QPSK	24	0	22.13	22.07	21.97	22.50	22.50	22.50
10	16QAM	1	1	22.21	22.17	22.09	22.50	22.50	22.50
10	64QAM	1	1	21.24	21.11	20.91	22.00	22.00	21.00
10	256QAM	1	1	19.09	19.23	18.97	20.00	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	19.76	22.09	21.98	20.00	22.50	22.50
15	PI/2 BPSK	1	36	22.10	22.06	19.43	22.50	22.50	20.00
15	PI/2 BPSK	18	9	22.10	22.09	22.01	22.50	22.50	22.50
15	PI/2 BPSK	1	0	19.71	22.13	22.01	20.00	22.50	22.50
15	PI/2 BPSK	1	37	22.02	22.11	19.43	22.50	22.50	20.00
15	PI/2 BPSK	36	0	19.63	22.08	19.49	20.00	22.50	20.00
15	QPSK	1	1	19.85	22.21	22.03	20.00	22.50	22.50
15	QPSK	1	36	22.13	22.07	19.43	22.50	22.50	20.00
15	QPSK	18	9	22.13	22.12	21.99	22.50	22.50	22.50
15	QPSK	1	0	19.69	22.17	22.01	20.00	22.50	22.50
15	QPSK	1	37	22.07	22.09	19.46	22.50	22.50	20.00
15	QPSK	36	0	19.67	22.14	19.51	20.00	22.50	20.00
15	16QAM	1	1	18.67	22.13	22.14	20.00	22.50	22.50
15	64QAM	1	1	18.86	21.32	21.00	20.00	22.00	21.00
15	256QAM	1	1	19.36	19.00	19.03	20.00	19.00	20.00
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	19.75	22.23	22.02	20.00	22.50	22.50
20	PI/2 BPSK	1	49	22.08	22.18	19.49	22.50	22.50	20.00
20	PI/2 BPSK	25	12	22.08	22.06	21.97	22.50	22.50	22.50
20	PI/2 BPSK	1	0	19.71	22.15	22.09	20.00	22.50	22.50
20	PI/2 BPSK	1	50	22.11	22.11	19.47	22.50	22.50	20.00
20	PI/2 BPSK	50	0	19.67	22.14	19.54	20.00	22.50	20.00
20	QPSK	1	1	19.80	22.19	22.00	20.00	22.50	22.50
20	QPSK	1	49	22.11	22.12	19.37	22.50	22.50	20.00
20	QPSK	25	12	22.18	22.17	21.96	22.50	22.50	22.50
20	QPSK	1	0	19.80	22.17	21.98	20.00	22.50	22.50
20	QPSK	1	50	22.12	22.08	19.39	22.50	22.50	20.00
20	QPSK	50	0	19.68	22.17	19.49	20.00	22.50	20.00
20	16QAM	1	1	18.72	22.38	22.06	20.00	22.50	22.50
20	64QAM	1	1	18.63	21.30	21.09	20.00	22.00	22.00
20	256QAM	1	1	19.44	19.24	19.18	20.00	20.00	20.00
Sub carrier spacing		Channel		637668	641666	645666	637668	641666	645666
30k	Hz	Frequency (MHz)		3565.02	3624.99	3684.99	3565.02	3624.99	3684.99



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30	PI/2 BPSK	1	1	12.20	19.69	12.04	13.00	20.00	13.00
30	PI/2 BPSK	1	76	11.98	19.56	11.82	13.00	20.00	13.00
30	PI/2 BPSK	36	18	12.04	22.07	21.94	13.00	22.50	22.50
30	PI/2 BPSK	1	0	12.23	19.74	12.02	13.00	20.00	13.00
30	PI/2 BPSK	1	77	11.99	19.56	11.82	13.00	20.00	13.00
30	PI/2 BPSK	75	0	12.06	19.56	11.91	13.00	20.00	13.00
30	QPSK	1	1	12.19	19.67	12.05	13.00	20.00	13.00
30	QPSK	1	76	12.00	19.52	11.82	13.00	20.00	13.00
30	QPSK	36	18	12.05	22.06	21.93	13.00	22.50	22.50
30	QPSK	1	0	12.18	19.68	12.03	13.00	20.00	13.00
30	QPSK	1	77	11.98	19.51	11.80	13.00	20.00	13.00
30	QPSK	75	0	12.03	19.55	11.91	13.00	20.00	13.00
30	16QAM	1	1	11.68	19.56	11.48	13.00	20.00	13.00
30	64QAM	1	1	11.57	19.58	11.48	13.00	20.00	13.00
30	256QAM	1	1	11.78	19.17	11.56	13.00	20.00	13.00
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	12.22	19.74	11.98	13.00	20.00	13.00
40	PI/2 BPSK	1	104	11.97	19.51	11.84	13.00	20.00	13.00
40	PI/2 BPSK	50	25	12.05	22.05	11.95	13.00	22.50	13.00
40	PI/2 BPSK	1	0	12.21	19.75	11.99	13.00	20.00	13.00
40	PI/2 BPSK	1	105	11.93	19.49	11.84	13.00	20.00	13.00
40	PI/2 BPSK	100	0	12.09	19.06	11.95	13.00	20.00	13.00
40	QPSK	1	1	12.21	19.64	11.97	13.00	20.00	13.00
40	QPSK	1	104	11.97	19.41	11.84	13.00	20.00	13.00
40	QPSK	50	25	12.06	22.01	11.97	13.00	22.50	13.00
40	QPSK	1	0	12.19	19.63	11.94	13.00	20.00	13.00
40	QPSK	1	105	11.96	19.41	11.85	13.00	20.00	13.00
40	QPSK	100	0	12.06	19.06	11.98	13.00	20.00	13.00
40	16QAM	1	1	11.84	19.65	11.57	13.00	20.00	13.00
40	64QAM	1	1	11.74	19.76	11.57	13.00	20.00	13.00
40	256QAM	1	1	11.76	19.17	11.37	13.00	20.00	13.00



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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				638000	641666	645332	Tune-up limit (dBm)
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	20.22	20.24	20.23	21.1
40	PI/2 BPSK	1	53	20.10	20.19	20.08	
40	PI/2 BPSK	1	104	20.06	20.17	20.07	
40	PI/2 BPSK	50	0	20.15	20.18	20.09	21.1
40	PI/2 BPSK	50	28	20.18	20.22	20.20	21.1
40	PI/2 BPSK	50	56	20.10	20.18	20.17	21.1
40	PI/2 BPSK	100	0	20.18	20.21	20.15	
40	QPSK	1	1	20.09	20.20	20.15	21.1
40	QPSK	1	53	20.11	20.16	20.08	
40	QPSK	1	104	20.09	20.20	20.14	
40	QPSK	50	0	20.10	20.18	20.10	21.1
40	QPSK	50	28	20.14	20.19	20.08	21.1
40	QPSK	50	56	20.07	20.13	20.12	21.1
40	QPSK	100	0	20.08	20.11	20.10	
40	16QAM	1	1	20.03	20.12	20.03	21.1
40	64QAM	1	1	20.06	20.09	20.01	21.1
40	256QAM	1	1	19.94	20.02	19.98	20.8
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	20.20	20.16	20.16	21.1
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	20.21	20.23	20.20	21.1
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	20.15	20.23	20.14	21.1
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	20.22	20.22	20.22	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				638000	641666	645332	Tune-up limit (dBm)
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	24.05	24.06	24.02	24.9
40	PI/2 BPSK	1	53	23.94	24.00	23.86	
40	PI/2 BPSK	1	104	23.95	23.98	23.94	
40	PI/2 BPSK	50	0	23.41	23.52	23.42	24.4
40	PI/2 BPSK	50	28	24.00	24.01	23.95	24.9
40	PI/2 BPSK	50	56	23.43	23.46	23.39	24.4
40	PI/2 BPSK	100	0	23.38	23.49	23.37	
40	QPSK	1	1	23.95	24.04	23.93	24.9
40	QPSK	1	53	23.93	24.01	23.91	
40	QPSK	1	104	23.91	24.02	23.95	
40	QPSK	50	0	22.91	23.01	22.91	23.9
40	QPSK	50	28	23.97	24.00	23.96	24.9
40	QPSK	50	56	22.90	22.99	22.95	23.9
40	QPSK	100	0	22.96	23.01	22.92	
40	16QAM	1	1	23.00	23.01	22.96	23.9
40	64QAM	1	1	21.55	21.58	21.49	22.4
40	256QAM	1	1	19.70	19.79	19.75	20.4
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	23.92	23.93	23.87	24.9
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	23.91	23.94	23.91	24.9
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	23.95	23.99	23.97	24.9
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	23.95	24.00	23.89	24.9



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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)		
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	22.79	22.84	22.86	23.70	23.70	23.70
10	PI/2 BPSK	1	22	22.77	22.84	22.88	23.70	23.70	23.70
10	PI/2 BPSK	12	6	22.82	22.80	22.84	23.70	23.70	23.70
10	PI/2 BPSK	1	0	22.85	22.76	22.90	23.70	23.70	23.70
10	PI/2 BPSK	1	23	22.70	22.85	22.85	23.70	23.70	23.70
10	PI/2 BPSK	24	0	22.76	22.79	22.90	23.70	23.70	23.70
10	QPSK	1	1	22.89	22.86	22.92	23.70	23.70	23.70
10	QPSK	1	22	22.77	22.91	22.87	23.70	23.70	23.70
10	QPSK	12	6	22.74	22.82	22.79	23.70	23.70	23.70
10	QPSK	1	0	22.30	22.29	22.36	23.70	23.70	23.70
10	QPSK	1	23	22.66	22.72	22.85	23.70	23.70	23.70
10	QPSK	24	0	22.64	22.69	22.77	23.70	23.70	23.70
10	16QAM	1	1	22.63	22.87	22.70	23.70	23.70	23.70
10	64QAM	1	1	22.01	22.24	22.12	23.00	23.00	23.00
10	256QAM	1	1	19.88	19.91	19.95	21.00	21.00	21.00
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	20.48	22.82	22.86	21.00	23.70	23.70
15	PI/2 BPSK	1	36	22.86	22.92	20.51	23.70	23.70	21.00
15	PI/2 BPSK	18	9	22.78	22.81	22.85	23.70	23.70	23.70
15	PI/2 BPSK	1	0	20.41	22.34	22.31	21.00	23.70	23.70
15	PI/2 BPSK	1	37	22.31	22.33	20.46	23.70	23.70	21.00
15	PI/2 BPSK	36	0	20.42	22.35	20.51	21.00	23.70	21.00
15	QPSK	1	1	20.50	22.78	22.85	21.00	23.70	23.70
15	QPSK	1	36	22.73	22.81	20.45	23.70	23.70	21.00
15	QPSK	18	9	22.85	22.77	22.93	23.70	23.70	23.70
15	QPSK	1	0	20.50	22.84	22.87	21.00	23.70	23.70
15	QPSK	1	37	22.86	22.50	20.44	23.70	23.70	21.00
15	QPSK	36	0	20.47	22.88	20.47	21.00	23.70	21.00
15	16QAM	1	1	19.50	22.76	22.74	21.00	23.70	23.70
15	64QAM	1	1	19.40	22.11	21.88	21.00	23.00	22.00
15	256QAM	1	1	19.92	19.95	19.84	21.00	21.00	21.00
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	20.51	22.86	22.81	21.00	23.70	23.70
20	PI/2 BPSK	1	49	22.84	22.78	20.43	23.70	23.70	21.00
20	PI/2 BPSK	25	12	22.82	22.81	22.81	23.70	23.70	23.70
20	PI/2 BPSK	1	0	20.42	22.75	22.77	21.00	23.70	23.70
20	PI/2 BPSK	1	50	22.76	22.76	20.46	23.70	23.70	21.00
20	PI/2 BPSK	50	0	20.46	22.79	20.44	21.00	23.70	21.00
20	QPSK	1	1	20.56	22.78	22.74	21.00	23.70	23.70
20	QPSK	1	49	22.82	22.90	20.42	23.70	23.70	21.00
20	QPSK	25	12	22.83	22.78	22.81	23.70	23.70	23.70
20	QPSK	1	0	20.55	22.51	22.47	21.00	23.70	23.70
20	QPSK	1	50	22.89	22.52	20.48	23.70	23.70	21.00
20	QPSK	50	0	20.44	22.48	20.42	21.00	23.70	21.00
20	16QAM	1	1	19.55	22.54	22.44	21.00	23.70	23.70
20	64QAM	1	1	19.72	21.93	22.02	21.00	22.00	23.00
20	256QAM	1	1	20.04	19.76	19.98	21.00	21.00	21.00
Sub carrier spacing		Channel		637668	641666	645666	637668	641666	645666
30k	Hz	Frequency (MHz)		3565.02	3624.99	3684.99	3565.02	3624.99	3684.99



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30	PI/2 BPSK	1	1	12.91	20.46	12.91	13.00	21.00	13.00
30	PI/2 BPSK	1	76	12.84	20.50	12.95	13.00	21.00	13.00
30	PI/2 BPSK	36	18	12.86	22.78	22.81	13.00	23.70	23.70
30	PI/2 BPSK	1	0	12.90	20.46	12.89	13.00	21.00	13.00
30	PI/2 BPSK	1	77	12.83	20.49	12.95	13.00	21.00	13.00
30	PI/2 BPSK	75	0	12.85	20.47	12.93	13.00	21.00	13.00
30	QPSK	1	1	12.90	20.42	12.89	13.00	21.00	13.00
30	QPSK	1	76	12.85	20.49	12.94	13.00	21.00	13.00
30	QPSK	36	18	12.88	22.78	22.80	13.00	23.70	23.70
30	QPSK	1	0	12.91	20.44	12.91	13.00	21.00	13.00
30	QPSK	1	77	12.81	20.48	12.95	13.00	21.00	13.00
30	QPSK	75	0	12.85	20.47	12.98	13.00	21.00	13.00
30	16QAM	1	1	12.32	20.39	12.36	13.00	21.00	13.00
30	64QAM	1	1	12.43	20.50	12.40	13.00	21.00	13.00
30	256QAM	1	1	12.45	19.94	12.30	13.00	21.00	13.00
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	12.97	20.46	12.80	13.00	21.00	13.00
40	PI/2 BPSK	1	104	12.92	20.48	12.84	13.00	21.00	13.00
40	PI/2 BPSK	50	25	12.89	22.85	12.86	13.00	23.70	13.00
40	PI/2 BPSK	1	0	12.98	20.47	12.79	13.00	21.00	13.00
40	PI/2 BPSK	1	105	12.92	20.48	12.87	13.00	21.00	13.00
40	PI/2 BPSK	100	0	12.90	19.97	12.82	13.00	21.00	13.00
40	QPSK	1	1	12.96	20.44	12.91	13.00	21.00	13.00
40	QPSK	1	104	12.92	20.49	12.91	13.00	21.00	13.00
40	QPSK	50	25	12.86	22.80	12.84	13.00	23.70	13.00
40	QPSK	1	0	12.97	20.46	12.88	13.00	21.00	13.00
40	QPSK	1	105	12.88	20.49	12.91	13.00	21.00	13.00
40	QPSK	100	0	12.90	19.95	12.83	13.00	21.00	13.00
40	16QAM	1	1	12.47	20.51	12.53	13.00	21.00	13.00
40	64QAM	1	1	12.39	20.55	12.24	13.00	21.00	13.00
40	256QAM	1	1	12.38	20.03	12.24	13.00	21.00	13.00



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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)		
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	22.23	22.06	21.97	23.30	23.30	23.30
10	PI/2 BPSK	1	22	22.06	22.10	21.82	23.30	23.30	23.30
10	PI/2 BPSK	12	6	22.15	22.02	21.91	23.30	23.30	23.30
10	PI/2 BPSK	1	0	22.20	22.09	21.96	23.30	23.30	22.00
10	PI/2 BPSK	1	23	22.04	22.10	21.79	23.30	23.30	22.00
10	PI/2 BPSK	24	0	22.14	22.08	21.88	23.30	23.30	22.00
10	QPSK	1	1	22.16	22.11	21.91	23.30	23.30	23.30
10	QPSK	1	22	22.12	22.09	21.90	23.30	23.30	23.30
10	QPSK	12	6	22.13	22.13	21.86	23.30	23.30	23.30
10	QPSK	1	0	22.20	22.12	21.95	23.00	23.00	22.00
10	QPSK	1	23	22.05	22.10	21.91	23.00	23.00	22.00
10	QPSK	24	0	22.13	22.07	21.97	23.00	23.00	22.00
10	16QAM	1	1	22.21	22.17	22.09	23.00	23.00	23.00
10	64QAM	1	1	21.24	21.11	20.91	22.00	22.00	21.00
10	256QAM	1	1	19.09	19.23	18.97	20.00	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	19.76	22.09	21.98	20.00	23.30	23.30
15	PI/2 BPSK	1	36	22.10	22.06	19.43	23.30	23.30	20.00
15	PI/2 BPSK	18	9	22.10	22.09	22.01	23.30	23.30	23.30
15	PI/2 BPSK	1	0	19.71	22.13	22.01	20.00	23.30	23.30
15	PI/2 BPSK	1	37	22.02	22.11	19.43	23.30	23.30	20.00
15	PI/2 BPSK	36	0	19.63	22.08	19.49	20.00	23.30	20.00
15	QPSK	1	1	19.85	22.21	22.03	20.00	23.30	23.30
15	QPSK	1	36	22.13	22.07	19.43	23.30	23.30	20.00
15	QPSK	18	9	22.13	22.12	21.99	23.30	23.30	23.30
15	QPSK	1	0	19.69	22.17	22.01	20.00	23.00	23.00
15	QPSK	1	37	22.07	22.09	19.46	23.00	23.00	20.00
15	QPSK	36	0	19.67	22.14	19.51	20.00	23.00	20.00
15	16QAM	1	1	18.67	22.13	22.14	20.00	23.00	23.00
15	64QAM	1	1	18.86	21.32	21.00	20.00	22.00	21.00
15	256QAM	1	1	19.36	19.00	19.03	20.00	19.00	20.00
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	19.75	22.23	22.02	20.00	23.30	23.30
20	PI/2 BPSK	1	49	22.08	22.18	19.49	23.30	23.30	20.00
20	PI/2 BPSK	25	12	22.08	22.06	21.97	23.30	23.30	23.30
20	PI/2 BPSK	1	0	19.71	22.15	22.09	20.00	23.30	23.30
20	PI/2 BPSK	1	50	22.11	22.11	19.47	23.30	23.30	20.00
20	PI/2 BPSK	50	0	19.67	22.14	19.54	20.00	23.30	20.00
20	QPSK	1	1	19.80	22.19	22.00	20.00	23.30	23.30
20	QPSK	1	49	22.11	22.12	19.37	23.30	23.30	20.00
20	QPSK	25	12	22.18	22.17	21.96	23.30	23.30	23.30
20	QPSK	1	0	19.80	22.17	21.98	20.00	23.00	22.00
20	QPSK	1	50	22.12	22.08	19.39	23.00	23.00	20.00
20	QPSK	50	0	19.68	22.17	19.49	20.00	23.00	20.00
20	16QAM	1	1	18.72	22.38	22.06	20.00	23.00	23.00
20	64QAM	1	1	18.63	21.30	21.09	20.00	22.00	22.00
20	256QAM	1	1	19.44	19.24	19.18	20.00	20.00	20.00
Sub carrier spacing		Channel		637668	641666	645666	637668	641666	645666
30k	Hz	Frequency (MHz)		3565.02	3624.99	3684.99	3565.02	3624.99	3684.99



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30	PI/2 BPSK	1	1	12.20	19.69	12.04	13.00	20.00	13.00
30	PI/2 BPSK	1	76	11.98	19.56	11.82	13.00	20.00	13.00
30	PI/2 BPSK	36	18	12.04	22.07	21.94	13.00	23.30	23.30
30	PI/2 BPSK	1	0	12.23	19.74	12.02	13.00	20.00	13.00
30	PI/2 BPSK	1	77	11.99	19.56	11.82	13.00	20.00	13.00
30	PI/2 BPSK	75	0	12.06	19.56	11.91	13.00	20.00	13.00
30	QPSK	1	1	12.19	19.67	12.05	13.00	20.00	13.00
30	QPSK	1	76	12.00	19.52	11.82	13.00	20.00	13.00
30	QPSK	36	18	12.05	22.06	21.93	13.00	23.30	23.30
30	QPSK	1	0	12.18	19.68	12.03	13.00	20.00	13.00
30	QPSK	1	77	11.98	19.51	11.80	13.00	20.00	13.00
30	QPSK	75	0	12.03	19.55	11.91	13.00	20.00	13.00
30	16QAM	1	1	11.68	19.56	11.48	13.00	20.00	13.00
30	64QAM	1	1	11.57	19.58	11.48	13.00	20.00	13.00
30	256QAM	1	1	11.78	19.17	11.56	13.00	20.00	13.00
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	12.22	19.74	11.98	13.00	20.00	13.00
40	PI/2 BPSK	1	104	11.97	19.51	11.84	13.00	20.00	13.00
40	PI/2 BPSK	50	25	12.05	22.05	11.95	13.00	23.30	13.00
40	PI/2 BPSK	1	0	12.21	19.75	11.99	13.00	20.00	13.00
40	PI/2 BPSK	1	105	11.93	19.49	11.84	13.00	20.00	13.00
40	PI/2 BPSK	100	0	12.09	19.06	11.95	13.00	20.00	13.00
40	QPSK	1	1	12.21	19.64	11.97	13.00	20.00	13.00
40	QPSK	1	104	11.97	19.41	11.84	13.00	20.00	13.00
40	QPSK	50	25	12.06	22.01	11.97	13.00	23.30	13.00
40	QPSK	1	0	12.19	19.63	11.94	13.00	20.00	13.00
40	QPSK	1	105	11.96	19.41	11.85	13.00	20.00	13.00
40	QPSK	100	0	12.06	19.06	11.98	13.00	20.00	13.00
40	16QAM	1	1	11.84	19.65	11.57	13.00	20.00	13.00
40	64QAM	1	1	11.74	19.76	11.57	13.00	20.00	13.00
40	256QAM	1	1	11.76	19.17	11.37	13.00	20.00	13.00



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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				638000	641666	645332	Tune-up limit (dBm)
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	20.22	20.24	20.23	21.9
40	PI/2 BPSK	1	53	20.10	20.19	20.08	
40	PI/2 BPSK	1	104	20.06	20.17	20.07	
40	PI/2 BPSK	50	0	20.15	20.18	20.09	21.9
40	PI/2 BPSK	50	28	20.18	20.22	20.20	21.9
40	PI/2 BPSK	50	56	20.10	20.18	20.17	21.9
40	PI/2 BPSK	100	0	20.18	20.21	20.15	
40	QPSK	1	1	20.09	20.20	20.15	21.9
40	QPSK	1	53	20.11	20.16	20.08	
40	QPSK	1	104	20.09	20.20	20.14	
40	QPSK	50	0	20.10	20.18	20.10	21.9
40	QPSK	50	28	20.14	20.19	20.08	21.9
40	QPSK	50	56	20.07	20.13	20.12	21.9
40	QPSK	100	0	20.08	20.11	20.10	
40	16QAM	1	1	20.03	20.12	20.03	21.9
40	64QAM	1	1	20.06	20.09	20.01	21.9
40	256QAM	1	1	19.94	20.02	19.98	20.8
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	20.20	20.16	20.16	21.9
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	20.21	20.23	20.20	21.9
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	20.15	20.23	20.14	21.9
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	20.22	20.22	20.22	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				638000	641666	645332	Tune-up limit (dBm)
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	24.05	24.06	24.02	24.9
40	PI/2 BPSK	1	53	23.94	24.00	23.86	
40	PI/2 BPSK	1	104	23.95	23.98	23.94	
40	PI/2 BPSK	50	0	23.41	23.52	23.42	24.4
40	PI/2 BPSK	50	28	24.00	24.01	23.95	24.9
40	PI/2 BPSK	50	56	23.43	23.46	23.39	24.4
40	PI/2 BPSK	100	0	23.38	23.49	23.37	
40	QPSK	1	1	23.95	24.04	23.93	24.9
40	QPSK	1	53	23.93	24.01	23.91	
40	QPSK	1	104	23.91	24.02	23.95	
40	QPSK	50	0	22.91	23.01	22.91	23.9
40	QPSK	50	28	23.97	24.00	23.96	24.9
40	QPSK	50	56	22.90	22.99	22.95	23.9
40	QPSK	100	0	22.96	23.01	22.92	
40	16QAM	1	1	23.00	23.01	22.96	23.9
40	64QAM	1	1	21.55	21.58	21.49	22.4
40	256QAM	1	1	19.70	19.79	19.75	20.4
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	23.92	23.93	23.87	24.9
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	23.91	23.94	23.91	24.9
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	23.95	23.99	23.97	24.9
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	23.95	24.00	23.89	24.9



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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)		
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	22.79	22.84	22.86	24.50	24.50	24.50
10	PI/2 BPSK	1	22	22.77	22.84	22.88	24.50	24.50	24.50
10	PI/2 BPSK	12	6	22.82	22.80	22.84	24.50	24.50	24.50
10	PI/2 BPSK	1	0	22.85	22.76	22.90	24.30	24.30	24.30
10	PI/2 BPSK	1	23	22.70	22.85	22.85	24.30	24.30	24.30
10	PI/2 BPSK	24	0	22.76	22.79	22.90	24.30	24.30	24.30
10	QPSK	1	1	22.89	22.86	22.92	24.50	24.50	24.50
10	QPSK	1	22	22.77	22.91	22.87	24.50	24.50	24.50
10	QPSK	12	6	22.74	22.82	22.79	24.50	24.50	24.50
10	QPSK	1	0	22.30	22.29	22.36	24.30	24.30	24.30
10	QPSK	1	23	22.66	22.72	22.85	24.30	24.30	24.30
10	QPSK	24	0	22.64	22.69	22.77	24.30	24.30	24.30
10	16QAM	1	1	22.63	22.87	22.70	24.30	24.30	24.30
10	64QAM	1	1	22.01	22.24	22.12	23.00	23.00	23.00
10	256QAM	1	1	19.88	19.91	19.95	21.00	21.00	21.00
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	20.48	22.82	22.86	21.00	24.50	24.50
15	PI/2 BPSK	1	36	22.86	22.92	20.51	24.50	24.50	21.00
15	PI/2 BPSK	18	9	22.78	22.81	22.85	24.50	24.50	24.50
15	PI/2 BPSK	1	0	20.41	22.34	22.31	21.00	24.30	24.30
15	PI/2 BPSK	1	37	22.31	22.33	20.46	24.30	24.30	21.00
15	PI/2 BPSK	36	0	20.42	22.35	20.51	21.00	24.30	21.00
15	QPSK	1	1	20.50	22.78	22.85	21.00	24.50	24.50
15	QPSK	1	36	22.73	22.81	20.45	24.50	24.50	21.00
15	QPSK	18	9	22.85	22.77	22.93	24.50	24.50	24.50
15	QPSK	1	0	20.50	22.84	22.87	21.00	24.30	24.30
15	QPSK	1	37	22.86	22.50	20.44	24.30	24.30	21.00
15	QPSK	36	0	20.47	22.88	20.47	21.00	24.30	21.00
15	16QAM	1	1	19.50	22.76	22.74	21.00	24.30	24.30
15	64QAM	1	1	19.40	22.11	21.88	21.00	23.00	22.00
15	256QAM	1	1	19.92	19.95	19.84	21.00	21.00	21.00
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	20.51	22.86	22.81	21.00	24.50	24.50
20	PI/2 BPSK	1	49	22.84	22.78	20.43	24.50	24.50	21.00
20	PI/2 BPSK	25	12	22.82	22.81	22.81	24.50	24.50	24.50
20	PI/2 BPSK	1	0	20.42	22.75	22.77	21.00	24.30	24.30
20	PI/2 BPSK	1	50	22.76	22.76	20.46	24.30	24.30	21.00
20	PI/2 BPSK	50	0	20.46	22.79	20.44	21.00	24.30	21.00
20	QPSK	1	1	20.56	22.78	22.74	21.00	24.50	24.50
20	QPSK	1	49	22.82	22.90	20.42	24.50	24.50	21.00
20	QPSK	25	12	22.83	22.78	22.81	24.50	24.50	24.50
20	QPSK	1	0	20.55	22.51	22.47	21.00	24.30	24.30
20	QPSK	1	50	22.89	22.52	20.48	24.30	24.30	21.00
20	QPSK	50	0	20.44	22.48	20.42	21.00	24.30	21.00
20	16QAM	1	1	19.55	22.54	22.44	21.00	24.30	24.30
20	64QAM	1	1	19.72	21.93	22.02	21.00	22.00	23.00
20	256QAM	1	1	20.04	19.76	19.98	21.00	21.00	21.00
Sub carrier spacing		Channel		637668	641666	645666	637668	641666	645666
30k	Hz	Frequency (MHz)		3565.02	3624.99	3684.99	3565.02	3624.99	3684.99



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30	PI/2 BPSK	1	1	12.91	20.46	12.91	13.00	21.00	13.00
30	PI/2 BPSK	1	76	12.84	20.50	12.95	13.00	21.00	13.00
30	PI/2 BPSK	36	18	12.86	22.78	22.81	13.00	24.50	24.50
30	PI/2 BPSK	1	0	12.90	20.46	12.89	13.00	21.00	13.00
30	PI/2 BPSK	1	77	12.83	20.49	12.95	13.00	21.00	13.00
30	PI/2 BPSK	75	0	12.85	20.47	12.93	13.00	21.00	13.00
30	QPSK	1	1	12.90	20.42	12.89	13.00	21.00	13.00
30	QPSK	1	76	12.85	20.49	12.94	13.00	21.00	13.00
30	QPSK	36	18	12.88	22.78	22.80	13.00	24.50	24.50
30	QPSK	1	0	12.91	20.44	12.91	13.00	21.00	13.00
30	QPSK	1	77	12.81	20.48	12.95	13.00	21.00	13.00
30	QPSK	75	0	12.85	20.47	12.98	13.00	21.00	13.00
30	16QAM	1	1	12.32	20.39	12.36	13.00	21.00	13.00
30	64QAM	1	1	12.43	20.50	12.40	13.00	21.00	13.00
30	256QAM	1	1	12.45	19.94	12.30	13.00	21.00	13.00
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	12.97	20.46	12.80	13.00	21.00	13.00
40	PI/2 BPSK	1	104	12.92	20.48	12.84	13.00	21.00	13.00
40	PI/2 BPSK	50	25	12.89	22.85	12.86	13.00	24.50	13.00
40	PI/2 BPSK	1	0	12.98	20.47	12.79	13.00	21.00	13.00
40	PI/2 BPSK	1	105	12.92	20.48	12.87	13.00	21.00	13.00
40	PI/2 BPSK	100	0	12.90	19.97	12.82	13.00	21.00	13.00
40	QPSK	1	1	12.96	20.44	12.91	13.00	21.00	13.00
40	QPSK	1	104	12.92	20.49	12.91	13.00	21.00	13.00
40	QPSK	50	25	12.86	22.80	12.84	13.00	24.50	13.00
40	QPSK	1	0	12.97	20.46	12.88	13.00	21.00	13.00
40	QPSK	1	105	12.88	20.49	12.91	13.00	21.00	13.00
40	QPSK	100	0	12.90	19.95	12.83	13.00	21.00	13.00
40	16QAM	1	1	12.47	20.51	12.53	13.00	21.00	13.00
40	64QAM	1	1	12.39	20.55	12.24	13.00	21.00	13.00
40	256QAM	1	1	12.38	20.03	12.24	13.00	21.00	13.00



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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)		
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	22.23	22.06	21.97	22.50	22.50	22.50
10	PI/2 BPSK	1	22	22.06	22.10	21.82	22.50	22.50	22.50
10	PI/2 BPSK	12	6	22.15	22.02	21.91	22.50	22.50	22.50
10	PI/2 BPSK	1	0	22.20	22.09	21.96	22.50	22.50	22.50
10	PI/2 BPSK	1	23	22.04	22.10	21.79	22.50	22.50	22.50
10	PI/2 BPSK	24	0	22.14	22.08	21.88	22.50	22.50	22.50
10	QPSK	1	1	22.16	22.11	21.91	22.50	22.50	22.50
10	QPSK	1	22	22.12	22.09	21.90	22.50	22.50	22.50
10	QPSK	12	6	22.13	22.13	21.86	22.50	22.50	22.50
10	QPSK	1	0	22.20	22.12	21.95	22.50	22.50	22.50
10	QPSK	1	23	22.05	22.10	21.91	22.50	22.50	22.50
10	QPSK	24	0	22.13	22.07	21.97	22.50	22.50	22.50
10	16QAM	1	1	22.21	22.17	22.09	22.50	22.50	22.50
10	64QAM	1	1	21.24	21.11	20.91	22.00	22.00	21.00
10	256QAM	1	1	19.09	19.23	18.97	20.00	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	19.76	22.09	21.98	20.00	22.50	22.50
15	PI/2 BPSK	1	36	22.10	22.06	19.43	22.50	22.50	20.00
15	PI/2 BPSK	18	9	22.10	22.09	22.01	22.50	22.50	22.50
15	PI/2 BPSK	1	0	19.71	22.13	22.01	20.00	22.50	22.50
15	PI/2 BPSK	1	37	22.02	22.11	19.43	22.50	22.50	20.00
15	PI/2 BPSK	36	0	19.63	22.08	19.49	20.00	22.50	20.00
15	QPSK	1	1	19.85	22.21	22.03	20.00	22.50	22.50
15	QPSK	1	36	22.13	22.07	19.43	22.50	22.50	20.00
15	QPSK	18	9	22.13	22.12	21.99	22.50	22.50	22.50
15	QPSK	1	0	19.69	22.17	22.01	20.00	22.50	22.50
15	QPSK	1	37	22.07	22.09	19.46	22.50	22.50	20.00
15	QPSK	36	0	19.67	22.14	19.51	20.00	22.50	20.00
15	16QAM	1	1	18.67	22.13	22.14	20.00	22.50	22.50
15	64QAM	1	1	18.86	21.32	21.00	20.00	22.00	21.00
15	256QAM	1	1	19.36	19.00	19.03	20.00	19.00	20.00
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	19.75	22.23	22.02	20.00	22.50	22.50
20	PI/2 BPSK	1	49	22.08	22.18	19.49	22.50	22.50	20.00
20	PI/2 BPSK	25	12	22.08	22.06	21.97	22.50	22.50	22.50
20	PI/2 BPSK	1	0	19.71	22.15	22.09	20.00	22.50	22.50
20	PI/2 BPSK	1	50	22.11	22.11	19.47	22.50	22.50	20.00
20	PI/2 BPSK	50	0	19.67	22.14	19.54	20.00	22.50	20.00
20	QPSK	1	1	19.80	22.19	22.00	20.00	22.50	22.50
20	QPSK	1	49	22.11	22.12	19.37	22.50	22.50	20.00
20	QPSK	25	12	22.18	22.17	21.96	22.50	22.50	22.50
20	QPSK	1	0	19.80	22.17	21.98	20.00	22.50	22.50
20	QPSK	1	50	22.12	22.08	19.39	22.50	22.50	20.00
20	QPSK	50	0	19.68	22.17	19.49	20.00	22.50	20.00
20	16QAM	1	1	18.72	22.38	22.06	20.00	22.50	22.50
20	64QAM	1	1	18.63	21.30	21.09	20.00	22.00	22.00
20	256QAM	1	1	19.44	19.24	19.18	20.00	20.00	20.00
Sub carrier spacing		Channel		637668	641666	645666	637668	641666	645666
30k	Hz	Frequency (MHz)		3565.02	3624.99	3684.99	3565.02	3624.99	3684.99



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30	PI/2 BPSK	1	1	12.20	19.69	12.04	13.00	20.00	13.00
30	PI/2 BPSK	1	76	11.98	19.56	11.82	13.00	20.00	13.00
30	PI/2 BPSK	36	18	12.04	22.07	21.94	13.00	22.50	22.50
30	PI/2 BPSK	1	0	12.23	19.74	12.02	13.00	20.00	13.00
30	PI/2 BPSK	1	77	11.99	19.56	11.82	13.00	20.00	13.00
30	PI/2 BPSK	75	0	12.06	19.56	11.91	13.00	20.00	13.00
30	QPSK	1	1	12.19	19.67	12.05	13.00	20.00	13.00
30	QPSK	1	76	12.00	19.52	11.82	13.00	20.00	13.00
30	QPSK	36	18	12.05	22.06	21.93	13.00	22.50	22.50
30	QPSK	1	0	12.18	19.68	12.03	13.00	20.00	13.00
30	QPSK	1	77	11.98	19.51	11.80	13.00	20.00	13.00
30	QPSK	75	0	12.03	19.55	11.91	13.00	20.00	13.00
30	16QAM	1	1	11.68	19.56	11.48	13.00	20.00	13.00
30	64QAM	1	1	11.57	19.58	11.48	13.00	20.00	13.00
30	256QAM	1	1	11.78	19.17	11.56	13.00	20.00	13.00
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	12.22	19.74	11.98	13.00	20.00	13.00
40	PI/2 BPSK	1	104	11.97	19.51	11.84	13.00	20.00	13.00
40	PI/2 BPSK	50	25	12.05	22.05	11.95	13.00	22.50	13.00
40	PI/2 BPSK	1	0	12.21	19.75	11.99	13.00	20.00	13.00
40	PI/2 BPSK	1	105	11.93	19.49	11.84	13.00	20.00	13.00
40	PI/2 BPSK	100	0	12.09	19.06	11.95	13.00	20.00	13.00
40	QPSK	1	1	12.21	19.64	11.97	13.00	20.00	13.00
40	QPSK	1	104	11.97	19.41	11.84	13.00	20.00	13.00
40	QPSK	50	25	12.06	22.01	11.97	13.00	22.50	13.00
40	QPSK	1	0	12.19	19.63	11.94	13.00	20.00	13.00
40	QPSK	1	105	11.96	19.41	11.85	13.00	20.00	13.00
40	QPSK	100	0	12.06	19.06	11.98	13.00	20.00	13.00
40	16QAM	1	1	11.84	19.65	11.57	13.00	20.00	13.00
40	64QAM	1	1	11.74	19.76	11.57	13.00	20.00	13.00
40	256QAM	1	1	11.76	19.17	11.37	13.00	20.00	13.00



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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				638000	641666	645332	Tune-up limit (dBm)
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	20.22	20.24	20.23	21.1
40	PI/2 BPSK	1	53	20.10	20.19	20.08	
40	PI/2 BPSK	1	104	20.06	20.17	20.07	
40	PI/2 BPSK	50	0	20.15	20.18	20.09	21.1
40	PI/2 BPSK	50	28	20.18	20.22	20.20	21.1
40	PI/2 BPSK	50	56	20.10	20.18	20.17	21.1
40	PI/2 BPSK	100	0	20.18	20.21	20.15	
40	QPSK	1	1	20.09	20.20	20.15	21.1
40	QPSK	1	53	20.11	20.16	20.08	
40	QPSK	1	104	20.09	20.20	20.14	
40	QPSK	50	0	20.10	20.18	20.10	21.1
40	QPSK	50	28	20.14	20.19	20.08	21.1
40	QPSK	50	56	20.07	20.13	20.12	21.1
40	QPSK	100	0	20.08	20.11	20.10	
40	16QAM	1	1	20.03	20.12	20.03	21.1
40	64QAM	1	1	20.06	20.09	20.01	21.1
40	256QAM	1	1	19.94	20.02	19.98	20.8
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	20.20	20.16	20.16	21.1
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	20.21	20.23	20.20	21.1
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	20.15	20.23	20.14	21.1
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	20.22	20.22	20.22	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				638000	641666	645332	Tune-up limit (dBm)
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	24.05	24.06	24.02	24.9
40	PI/2 BPSK	1	53	23.94	24.00	23.86	
40	PI/2 BPSK	1	104	23.95	23.98	23.94	
40	PI/2 BPSK	50	0	23.41	23.52	23.42	24.4
40	PI/2 BPSK	50	28	24.00	24.01	23.95	24.9
40	PI/2 BPSK	50	56	23.43	23.46	23.39	24.4
40	PI/2 BPSK	100	0	23.38	23.49	23.37	
40	QPSK	1	1	23.95	24.04	23.93	24.9
40	QPSK	1	53	23.93	24.01	23.91	
40	QPSK	1	104	23.91	24.02	23.95	
40	QPSK	50	0	22.91	23.01	22.91	23.9
40	QPSK	50	28	23.97	24.00	23.96	24.9
40	QPSK	50	56	22.90	22.99	22.95	23.9
40	QPSK	100	0	22.96	23.01	22.92	
40	16QAM	1	1	23.00	23.01	22.96	23.9
40	64QAM	1	1	21.55	21.58	21.49	22.4
40	256QAM	1	1	19.70	19.79	19.75	20.4
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	23.92	23.93	23.87	24.9
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	23.91	23.94	23.91	24.9
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	23.95	23.99	23.97	24.9
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	23.95	24.00	23.89	24.9



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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)		
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	22.79	22.84	22.86	23.70	23.70	23.70
10	PI/2 BPSK	1	22	22.77	22.84	22.88	23.70	23.70	23.70
10	PI/2 BPSK	12	6	22.82	22.80	22.84	23.70	23.70	23.70
10	PI/2 BPSK	1	0	22.85	22.76	22.90	23.70	23.70	23.70
10	PI/2 BPSK	1	23	22.70	22.85	22.85	23.70	23.70	23.70
10	PI/2 BPSK	24	0	22.76	22.79	22.90	23.70	23.70	23.70
10	QPSK	1	1	22.89	22.86	22.92	23.70	23.70	23.70
10	QPSK	1	22	22.77	22.91	22.87	23.70	23.70	23.70
10	QPSK	12	6	22.74	22.82	22.79	23.70	23.70	23.70
10	QPSK	1	0	22.30	22.29	22.36	23.70	23.70	23.70
10	QPSK	1	23	22.66	22.72	22.85	23.70	23.70	23.70
10	QPSK	24	0	22.64	22.69	22.77	23.70	23.70	23.70
10	16QAM	1	1	22.63	22.87	22.70	23.70	23.70	23.70
10	64QAM	1	1	22.01	22.24	22.12	23.00	23.00	23.00
10	256QAM	1	1	19.88	19.91	19.95	21.00	21.00	21.00
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	20.48	22.82	22.86	21.00	23.70	23.70
15	PI/2 BPSK	1	36	22.86	22.92	20.51	23.70	23.70	21.00
15	PI/2 BPSK	18	9	22.78	22.81	22.85	23.70	23.70	23.70
15	PI/2 BPSK	1	0	20.41	22.34	22.31	21.00	23.70	23.70
15	PI/2 BPSK	1	37	22.31	22.33	20.46	23.70	23.70	21.00
15	PI/2 BPSK	36	0	20.42	22.35	20.51	21.00	23.70	21.00
15	QPSK	1	1	20.50	22.78	22.85	21.00	23.70	23.70
15	QPSK	1	36	22.73	22.81	20.45	23.70	23.70	21.00
15	QPSK	18	9	22.85	22.77	22.93	23.70	23.70	23.70
15	QPSK	1	0	20.50	22.84	22.87	21.00	23.70	23.70
15	QPSK	1	37	22.86	22.50	20.44	23.70	23.70	21.00
15	QPSK	36	0	20.47	22.88	20.47	21.00	23.70	21.00
15	16QAM	1	1	19.50	22.76	22.74	21.00	23.70	23.70
15	64QAM	1	1	19.40	22.11	21.88	21.00	23.00	22.00
15	256QAM	1	1	19.92	19.95	19.84	21.00	21.00	21.00
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	20.51	22.86	22.81	21.00	23.70	23.70
20	PI/2 BPSK	1	49	22.84	22.78	20.43	23.70	23.70	21.00
20	PI/2 BPSK	25	12	22.82	22.81	22.81	23.70	23.70	23.70
20	PI/2 BPSK	1	0	20.42	22.75	22.77	21.00	23.70	23.70
20	PI/2 BPSK	1	50	22.76	22.76	20.46	23.70	23.70	21.00
20	PI/2 BPSK	50	0	20.46	22.79	20.44	21.00	23.70	21.00
20	QPSK	1	1	20.56	22.78	22.74	21.00	23.70	23.70
20	QPSK	1	49	22.82	22.90	20.42	23.70	23.70	21.00
20	QPSK	25	12	22.83	22.78	22.81	23.70	23.70	23.70
20	QPSK	1	0	20.55	22.51	22.47	21.00	23.70	23.70
20	QPSK	1	50	22.89	22.52	20.48	23.70	23.70	21.00
20	QPSK	50	0	20.44	22.48	20.42	21.00	23.70	21.00
20	16QAM	1	1	19.55	22.54	22.44	21.00	23.70	23.70
20	64QAM	1	1	19.72	21.93	22.02	21.00	22.00	23.00
20	256QAM	1	1	20.04	19.76	19.98	21.00	21.00	21.00
Sub carrier spacing		Channel		637668	641666	645666	637668	641666	645666
30k	Hz	Frequency (MHz)		3565.02	3624.99	3684.99	3565.02	3624.99	3684.99
30	PI/2 BPSK	1	1	12.91	20.46	12.91	13.00	21.00	13.00
30	PI/2 BPSK	1	76	12.84	20.50	12.95	13.00	21.00	13.00
30	PI/2 BPSK	36	18	12.86	22.78	22.81	13.00	23.70	23.70
30	PI/2 BPSK	1	0	12.90	20.46	12.89	13.00	21.00	13.00
30	PI/2 BPSK	1	77	12.83	20.49	12.95	13.00	21.00	13.00
30	PI/2 BPSK	75	0	12.85	20.47	12.93	13.00	21.00	13.00



30	QPSK	1	1	12.90	20.42	12.89	13.00	21.00	13.00
30	QPSK	1	76	12.85	20.49	12.94	13.00	21.00	13.00
30	QPSK	36	18	12.88	22.78	22.80	13.00	23.70	23.70
30	QPSK	1	0	12.91	20.44	12.91	13.00	21.00	13.00
30	QPSK	1	77	12.81	20.48	12.95	13.00	21.00	13.00
30	QPSK	75	0	12.85	20.47	12.98	13.00	21.00	13.00
30	16QAM	1	1	12.32	20.39	12.36	13.00	21.00	13.00
30	64QAM	1	1	12.43	20.50	12.40	13.00	21.00	13.00
30	256QAM	1	1	12.45	19.94	12.30	13.00	21.00	13.00
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	12.97	20.46	12.80	13.00	21.00	13.00
40	PI/2 BPSK	1	104	12.92	20.48	12.84	13.00	21.00	13.00
40	PI/2 BPSK	50	25	12.89	22.85	12.86	13.00	23.70	13.00
40	PI/2 BPSK	1	0	12.98	20.47	12.79	13.00	21.00	13.00
40	PI/2 BPSK	1	105	12.92	20.48	12.87	13.00	21.00	13.00
40	PI/2 BPSK	100	0	12.90	19.97	12.82	13.00	21.00	13.00
40	QPSK	1	1	12.96	20.44	12.91	13.00	21.00	13.00
40	QPSK	1	104	12.92	20.49	12.91	13.00	21.00	13.00
40	QPSK	50	25	12.86	22.80	12.84	13.00	23.70	13.00
40	QPSK	1	0	12.97	20.46	12.88	13.00	21.00	13.00
40	QPSK	1	105	12.88	20.49	12.91	13.00	21.00	13.00
40	QPSK	100	0	12.90	19.95	12.83	13.00	21.00	13.00
40	16QAM	1	1	12.47	20.51	12.53	13.00	21.00	13.00
40	64QAM	1	1	12.39	20.55	12.24	13.00	21.00	13.00
40	256QAM	1	1	12.38	20.03	12.24	13.00	21.00	13.00



<FR1 n66_Ant 2_Index 2/3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	24.57	24.51	24.44	25.6
40	PI/2 BPSK	1	108	24.44	24.48	24.34	
40	PI/2 BPSK	1	214	24.35	24.33	24.22	
40	PI/2 BPSK	108	0	23.99	23.99	23.89	25.1
40	PI/2 BPSK	108	54	24.37	24.40	24.29	25.6
40	PI/2 BPSK	108	108	23.89	23.91	23.81	25.1
40	PI/2 BPSK	216	0	23.95	23.91	23.75	
40	QPSK	1	1	24.48	24.45	24.38	25.6
40	QPSK	1	108	24.43	24.37	24.26	
40	QPSK	1	214	24.35	24.32	24.24	
40	QPSK	108	0	23.45	23.48	23.36	24.6
40	QPSK	108	54	24.37	24.41	24.29	25.6
40	QPSK	108	108	23.43	23.41	23.25	24.6
40	QPSK	216	0	23.42	23.39	23.32	
40	16QAM	1	1	23.41	23.43	23.31	24.6
40	64QAM	1	1	21.89	21.93	21.76	23.1
40	256QAM	1	1	20.03	19.98	19.91	21.1
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	24.51	24.42	24.34	25.6
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	24.38	24.35	24.40	25.6
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	24.51	24.42	24.31	25.6
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	24.50	24.41	24.26	25.6
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	24.37	24.32	24.44	25.6
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	24.47	24.31	24.25	25.6



<FR1 n66_Ant 1_Index 2>

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel	346000	349000	352000	15.1
Frequency (MHz)	1730	1745	1760	
40	PI/2 BPSK	1	1	14.17
40	PI/2 BPSK	1	108	14.07
40	PI/2 BPSK	1	214	14.12
40	PI/2 BPSK	108	0	14.08
40	PI/2 BPSK	108	54	14.15
40	PI/2 BPSK	108	108	14.09
40	PI/2 BPSK	216	0	14.08
40	QPSK	1	1	14.10
40	QPSK	1	108	14.09
40	QPSK	1	214	14.06
40	QPSK	108	0	14.07
40	QPSK	108	54	14.15
40	QPSK	108	108	14.07
40	QPSK	216	0	14.04
40	16QAM	1	1	14.07
40	64QAM	1	1	14.06
40	256QAM	1	1	14.11
Channel	345000	349000	353000	15.1
Frequency (MHz)	1725	1745	1765	
30	PI/2 BPSK	1	1	14.16
Channel	344500	349000	353500	15.1
Frequency (MHz)	1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	14.08
Channel	344000	349000	354000	15.1
Frequency (MHz)	1720	1745	1770	
20	PI/2 BPSK	1	1	14.13
Channel	343500	349000	354500	15.1
Frequency (MHz)	1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	14.10
Channel	343000	349000	355000	15.1
Frequency (MHz)	1715	1745	1775	
10	PI/2 BPSK	1	1	14.09
Channel	342500	349000	355500	15.1
Frequency (MHz)	1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	14.10



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Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	
Channel	346000	349000	352000		
Frequency (MHz)	1730	1745	1760		
40	PI/2 BPSK	1	1	24.22	25.6
40	PI/2 BPSK	1	108	24.02	
40	PI/2 BPSK	1	214	24.09	
40	PI/2 BPSK	108	0	23.73	25.1
40	PI/2 BPSK	108	54	24.01	25.6
40	PI/2 BPSK	108	108	23.57	25.1
40	PI/2 BPSK	216	0	23.59	
40	QPSK	1	1	24.12	25.6
40	QPSK	1	108	24.17	
40	QPSK	1	214	24.09	
40	QPSK	108	0	23.21	24.6
40	QPSK	108	54	24.04	25.6
40	QPSK	108	108	23.13	24.6
40	QPSK	216	0	23.07	
40	16QAM	1	1	23.04	24.6
40	64QAM	1	1	21.54	23.1
40	256QAM	1	1	19.58	21.1
Channel	345000	349000	353000	Tune-up limit (dBm)	
Frequency (MHz)	1725	1745	1765		
30	PI/2 BPSK	1	1	24.11	25.6
Channel	344500	349000	353500	Tune-up limit (dBm)	
Frequency (MHz)	1722.5	1745	1767.5		
25	PI/2 BPSK	1	1	24.05	25.6
Channel	344000	349000	354000	Tune-up limit (dBm)	
Frequency (MHz)	1720	1745	1770		
20	PI/2 BPSK	1	1	24.09	25.6
Channel	343500	349000	354500	Tune-up limit (dBm)	
Frequency (MHz)	1717.5	1745	1772.5		
15	PI/2 BPSK	1	1	24.07	25.6
Channel	343000	349000	355000	Tune-up limit (dBm)	
Frequency (MHz)	1715	1745	1775		
10	PI/2 BPSK	1	1	24.21	25.6
Channel	342500	349000	355500	Tune-up limit (dBm)	
Frequency (MHz)	1712.5	1745	1777.5		
5	PI/2 BPSK	1	1	24.09	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				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	24.32	24.31	24.35	25.6
40	PI/2 BPSK	1	108	24.27	24.26	24.24	
40	PI/2 BPSK	1	214	24.08	24.09	24.11	
40	PI/2 BPSK	108	0	23.69	23.72	23.76	25.1
40	PI/2 BPSK	108	54	24.12	24.16	24.14	25.6
40	PI/2 BPSK	108	108	23.67	23.70	23.67	25.1
40	PI/2 BPSK	216	0	23.56	23.65	23.64	
40	QPSK	1	1	24.23	24.23	24.27	25.6
40	QPSK	1	108	24.13	24.16	24.14	
40	QPSK	1	214	24.06	24.13	24.16	
40	QPSK	108	0	23.21	23.23	23.23	24.6
40	QPSK	108	54	24.07	24.16	24.14	25.6
40	QPSK	108	108	23.18	23.19	23.21	24.6
40	QPSK	216	0	23.08	23.14	23.17	
40	16QAM	1	1	23.21	23.22	23.22	24.6
40	64QAM	1	1	21.62	21.69	21.68	23.1
40	256QAM	1	1	19.85	19.89	19.91	21.1
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	24.17	24.13	24.28	25.6
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	24.13	24.11	24.34	25.6
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	24.20	24.16	24.23	25.6
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	24.27	24.18	24.26	25.6
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	24.15	24.22	24.21	25.6
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	24.12	24.31	24.23	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				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	14.17	14.09	14.14	14.3
40	PI/2 BPSK	1	108	14.07	14.05	14.03	
40	PI/2 BPSK	1	214	14.12	13.94	13.97	
40	PI/2 BPSK	108	0	14.08	13.98	13.95	14.3
40	PI/2 BPSK	108	54	14.15	14.02	14.11	14.3
40	PI/2 BPSK	108	108	14.09	13.99	13.94	14.3
40	PI/2 BPSK	216	0	14.08	13.98	13.97	
40	QPSK	1	1	14.10	14.07	13.97	14.3
40	QPSK	1	108	14.09	14.05	13.92	
40	QPSK	1	214	14.06	14.02	13.91	
40	QPSK	108	0	14.07	14.01	14.08	14.3
40	QPSK	108	54	14.15	14.01	13.98	14.3
40	QPSK	108	108	14.07	13.96	13.98	14.3
40	QPSK	216	0	14.04	13.89	13.92	
40	16QAM	1	1	14.07	14.00	13.97	14.3
40	64QAM	1	1	14.06	14.07	14.09	14.3
40	256QAM	1	1	14.11	14.09	14.05	14.3
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	14.16	14.02	14.14	14.3
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	14.08	14.08	14.07	14.3
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	14.13	14.02	14.08	14.3
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	14.10	14.02	14.12	14.3
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	14.09	14.05	14.14	14.3
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	14.10	14.09	14.07	14.3



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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	18.11	18.13	18.09	18.3
40	PI/2 BPSK	1	108	18.01	17.88	17.97	
40	PI/2 BPSK	1	214	17.97	17.89	17.83	
40	PI/2 BPSK	108	0	17.95	17.99	17.97	18.3
40	PI/2 BPSK	108	54	18.02	18.03	18.02	18.3
40	PI/2 BPSK	108	108	18.00	18.02	17.92	18.3
40	PI/2 BPSK	216	0	17.93	17.98	17.91	
40	QPSK	1	1	17.97	18.05	17.89	18.3
40	QPSK	1	108	17.98	17.96	17.95	
40	QPSK	1	214	17.90	17.82	17.81	
40	QPSK	108	0	18.02	18.01	18.00	18.3
40	QPSK	108	54	17.93	18.00	17.81	18.3
40	QPSK	108	108	18.01	17.89	17.88	18.3
40	QPSK	216	0	17.95	17.81	17.79	
40	16QAM	1	1	18.04	17.97	17.93	18.3
40	64QAM	1	1	18.01	17.96	17.97	18.3
40	256QAM	1	1	18.01	18.00	17.99	18.3
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	18.02	18.05	18.05	18.3
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	17.99	18.01	18.03	18.3
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	18.05	18.08	18.00	18.3
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	18.00	18.04	18.07	18.3
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	18.03	18.03	18.08	18.3
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	18.08	18.02	18.00	18.3



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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	19.76	19.78	19.69	20.1
40	PI/2 BPSK	1	108	19.57	19.61	19.62	
40	PI/2 BPSK	1	214	19.55	19.60	19.61	
40	PI/2 BPSK	108	0	19.57	19.67	19.46	20.1
40	PI/2 BPSK	108	54	19.68	19.74	19.59	20.1
40	PI/2 BPSK	108	108	19.56	19.65	19.50	20.1
40	PI/2 BPSK	216	0	19.70	19.63	19.58	
40	QPSK	1	1	19.68	19.72	19.68	20.1
40	QPSK	1	108	19.71	19.66	19.61	
40	QPSK	1	214	19.68	19.69	19.55	
40	QPSK	108	0	19.64	19.60	19.62	20.1
40	QPSK	108	54	19.75	19.73	19.62	20.1
40	QPSK	108	108	19.62	19.70	19.56	20.1
40	QPSK	216	0	19.55	19.68	19.59	
40	16QAM	1	1	19.70	19.68	19.42	20.1
40	64QAM	1	1	19.62	19.66	19.65	20.1
40	256QAM	1	1	19.59	19.69	19.64	20.1
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	19.62	19.71	19.62	20.1
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	19.69	19.68	19.64	20.1
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	19.63	19.71	19.59	20.1
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	19.70	19.74	19.61	20.1
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	19.65	19.70	19.66	20.1
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	19.65	19.74	19.66	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				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	21.06	21.14	21.11	21.3
40	PI/2 BPSK	1	108	21.04	21.11	21.09	
40	PI/2 BPSK	1	214	20.98	21.00	20.89	
40	PI/2 BPSK	108	0	20.97	20.94	20.94	21.3
40	PI/2 BPSK	108	54	20.99	21.05	21.00	21.3
40	PI/2 BPSK	108	108	20.92	20.96	20.96	21.3
40	PI/2 BPSK	216	0	20.84	20.96	20.94	
40	QPSK	1	1	21.07	21.10	20.87	21.3
40	QPSK	1	108	20.99	20.93	20.95	
40	QPSK	1	214	20.96	21.00	21.02	
40	QPSK	108	0	20.91	20.99	20.92	21.3
40	QPSK	108	54	20.95	21.03	20.95	21.3
40	QPSK	108	108	20.90	20.97	20.99	21.3
40	QPSK	216	0	20.98	20.94	20.99	
40	16QAM	1	1	20.97	20.99	20.98	21.3
40	64QAM	1	1	20.87	20.96	21.06	21.3
40	256QAM	1	1	19.62	19.66	19.68	21.1
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	21.04	21.05	21.03	21.3
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	21.01	21.03	21.08	21.3
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	20.98	21.06	21.08	21.3
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	21.02	21.09	21.09	21.3
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	21.00	21.05	21.07	21.3
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	20.98	21.09	21.02	21.3



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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	24.32	24.31	24.35	25.6
40	PI/2 BPSK	1	108	24.27	24.26	24.24	
40	PI/2 BPSK	1	214	24.08	24.09	24.11	
40	PI/2 BPSK	108	0	23.69	23.72	23.76	25.1
40	PI/2 BPSK	108	54	24.12	24.16	24.14	25.6
40	PI/2 BPSK	108	108	23.67	23.70	23.67	25.1
40	PI/2 BPSK	216	0	23.56	23.65	23.64	
40	QPSK	1	1	24.23	24.23	24.27	25.6
40	QPSK	1	108	24.13	24.16	24.14	
40	QPSK	1	214	24.06	24.13	24.16	
40	QPSK	108	0	23.21	23.23	23.23	24.6
40	QPSK	108	54	24.07	24.16	24.14	25.6
40	QPSK	108	108	23.18	23.19	23.21	24.6
40	QPSK	216	0	23.08	23.14	23.17	
40	16QAM	1	1	23.21	23.22	23.22	24.6
40	64QAM	1	1	21.62	21.69	21.68	23.1
40	256QAM	1	1	19.85	19.89	19.91	21.1
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	24.17	24.13	24.28	25.6
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	24.13	24.11	24.34	25.6
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	24.20	24.16	24.23	25.6
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	24.27	24.18	24.26	25.6
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	24.15	24.22	24.21	25.6
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	24.12	24.31	24.23	25.6



<FR1 n66_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				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	18.11	18.13	18.09	19.1
40	PI/2 BPSK	1	108	18.01	17.88	17.97	
40	PI/2 BPSK	1	214	17.97	17.89	17.83	
40	PI/2 BPSK	108	0	17.95	17.99	17.97	19.1
40	PI/2 BPSK	108	54	18.02	18.03	18.02	19.1
40	PI/2 BPSK	108	108	18.00	18.02	17.92	19.1
40	PI/2 BPSK	216	0	17.93	17.98	17.91	
40	QPSK	1	1	17.97	18.05	17.89	19.1
40	QPSK	1	108	17.98	17.96	17.95	
40	QPSK	1	214	17.90	17.82	17.81	
40	QPSK	108	0	18.02	18.01	18.00	19.1
40	QPSK	108	54	17.93	18.00	17.81	19.1
40	QPSK	108	108	18.01	17.89	17.88	19.1
40	QPSK	216	0	17.95	17.81	17.79	
40	16QAM	1	1	18.04	17.97	17.93	19.1
40	64QAM	1	1	18.01	17.96	17.97	19.1
40	256QAM	1	1	18.01	18.00	17.99	19.1
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	18.02	18.05	18.05	19.1
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	17.99	18.01	18.03	19.1
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	18.05	18.08	18.00	19.1
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	18.00	18.04	18.07	19.1
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	18.03	18.03	18.08	19.1
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	18.08	18.02	18.00	19.1



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Channel	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	20.30	21.5
40	PI/2 BPSK	1	108	20.13	
40	PI/2 BPSK	1	214	20.15	
40	PI/2 BPSK	108	0	20.12	21.5
40	PI/2 BPSK	108	54	20.23	21.5
40	PI/2 BPSK	108	108	20.09	21.5
40	PI/2 BPSK	216	0	20.22	
40	QPSK	1	1	20.28	21.5
40	QPSK	1	108	20.24	
40	QPSK	1	214	20.20	
40	QPSK	108	0	20.14	21.5
40	QPSK	108	54	20.26	21.5
40	QPSK	108	108	20.18	21.5
40	QPSK	216	0	20.09	
40	16QAM	1	1	20.23	21.5
40	64QAM	1	1	20.20	21.5
40	256QAM	1	1	19.95	21.1
Channel	345000	349000	353000	Tune-up limit (dBm)	
Frequency (MHz)	1725	1745	1765		
30	PI/2 BPSK	1	1	20.21	21.5
Channel	344500	349000	353500	Tune-up limit (dBm)	
Frequency (MHz)	1722.5	1745	1767.5		
25	PI/2 BPSK	1	1	20.27	21.5
Channel	344000	349000	354000	Tune-up limit (dBm)	
Frequency (MHz)	1720	1745	1770		
20	PI/2 BPSK	1	1	20.21	21.5
Channel	343500	349000	354500	Tune-up limit (dBm)	
Frequency (MHz)	1717.5	1745	1772.5		
15	PI/2 BPSK	1	1	20.26	21.5
Channel	343000	349000	355000	Tune-up limit (dBm)	
Frequency (MHz)	1715	1745	1775		
10	PI/2 BPSK	1	1	20.25	21.5
Channel	342500	349000	355500	Tune-up limit (dBm)	
Frequency (MHz)	1712.5	1745	1777.5		
5	PI/2 BPSK	1	1	20.30	21.5



<FR1 n66_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				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	21.06	21.14	21.11	22.1
40	PI/2 BPSK	1	108	21.04	21.11	21.09	
40	PI/2 BPSK	1	214	20.98	21.00	20.89	
40	PI/2 BPSK	108	0	20.97	20.94	20.94	22.1
40	PI/2 BPSK	108	54	20.99	21.05	21.00	22.1
40	PI/2 BPSK	108	108	20.92	20.96	20.96	22.1
40	PI/2 BPSK	216	0	20.84	20.96	20.94	
40	QPSK	1	1	21.07	21.10	20.87	22.1
40	QPSK	1	108	20.99	20.93	20.95	
40	QPSK	1	214	20.96	21.00	21.02	
40	QPSK	108	0	20.91	20.99	20.92	22.1
40	QPSK	108	54	20.95	21.03	20.95	22.1
40	QPSK	108	108	20.90	20.97	20.99	22.1
40	QPSK	216	0	20.98	20.94	20.99	
40	16QAM	1	1	20.97	20.99	20.98	22.1
40	64QAM	1	1	20.87	20.96	21.06	22.1
40	256QAM	1	1	19.62	19.66	19.68	21.1
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	21.04	21.05	21.03	22.1
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	21.01	21.03	21.08	22.1
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	20.98	21.06	21.08	22.1
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	21.02	21.09	21.09	22.1
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	21.00	21.05	21.07	22.1
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	20.98	21.09	21.02	22.1



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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	24.32	24.31	24.35	25.6
40	PI/2 BPSK	1	108	24.27	24.26	24.24	
40	PI/2 BPSK	1	214	24.08	24.09	24.11	
40	PI/2 BPSK	108	0	23.69	23.72	23.76	25.1
40	PI/2 BPSK	108	54	24.12	24.16	24.14	25.6
40	PI/2 BPSK	108	108	23.67	23.70	23.67	25.1
40	PI/2 BPSK	216	0	23.56	23.65	23.64	
40	QPSK	1	1	24.23	24.23	24.27	25.6
40	QPSK	1	108	24.13	24.16	24.14	
40	QPSK	1	214	24.06	24.13	24.16	
40	QPSK	108	0	23.21	23.23	23.23	24.6
40	QPSK	108	54	24.07	24.16	24.14	25.6
40	QPSK	108	108	23.18	23.19	23.21	24.6
40	QPSK	216	0	23.08	23.14	23.17	
40	16QAM	1	1	23.21	23.22	23.22	24.6
40	64QAM	1	1	21.62	21.69	21.68	23.1
40	256QAM	1	1	19.85	19.89	19.91	21.1
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	24.17	24.13	24.28	25.6
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	24.13	24.11	24.34	25.6
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	24.20	24.16	24.23	25.6
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	24.27	24.18	24.26	25.6
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	24.15	24.22	24.21	25.6
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	24.12	24.31	24.23	25.6



<FR1 n66_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				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	18.11	18.13	18.09	18.3
40	PI/2 BPSK	1	108	18.01	17.88	17.97	
40	PI/2 BPSK	1	214	17.97	17.89	17.83	
40	PI/2 BPSK	108	0	17.95	17.99	17.97	18.3
40	PI/2 BPSK	108	54	18.02	18.03	18.02	18.3
40	PI/2 BPSK	108	108	18.00	18.02	17.92	18.3
40	PI/2 BPSK	216	0	17.93	17.98	17.91	
40	QPSK	1	1	17.97	18.05	17.89	18.3
40	QPSK	1	108	17.98	17.96	17.95	
40	QPSK	1	214	17.90	17.82	17.81	
40	QPSK	108	0	18.02	18.01	18.00	18.3
40	QPSK	108	54	17.93	18.00	17.81	18.3
40	QPSK	108	108	18.01	17.89	17.88	18.3
40	QPSK	216	0	17.95	17.81	17.79	
40	16QAM	1	1	18.04	17.97	17.93	18.3
40	64QAM	1	1	18.01	17.96	17.97	18.3
40	256QAM	1	1	18.01	18.00	17.99	18.3
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	18.02	18.05	18.05	18.3
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	17.99	18.01	18.03	18.3
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	18.05	18.08	18.00	18.3
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	18.00	18.04	18.07	18.3
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	18.03	18.03	18.08	18.3
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	18.08	18.02	18.00	18.3



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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	20.30	20.33	20.22	20.7
40	PI/2 BPSK	1	108	20.13	20.17	20.16	
40	PI/2 BPSK	1	214	20.15	20.19	20.19	
40	PI/2 BPSK	108	0	20.12	20.24	20.05	20.7
40	PI/2 BPSK	108	54	20.23	20.27	20.19	20.7
40	PI/2 BPSK	108	108	20.09	20.17	20.07	20.7
40	PI/2 BPSK	216	0	20.22	20.20	20.13	
40	QPSK	1	1	20.28	20.28	20.21	20.7
40	QPSK	1	108	20.24	20.18	20.17	
40	QPSK	1	214	20.20	20.24	20.10	
40	QPSK	108	0	20.14	20.18	20.15	20.7
40	QPSK	108	54	20.26	20.23	20.21	20.7
40	QPSK	108	108	20.18	20.28	20.07	20.7
40	QPSK	216	0	20.09	20.24	20.13	
40	16QAM	1	1	20.23	20.18	20.01	20.7
40	64QAM	1	1	20.20	20.26	20.17	20.7
40	256QAM	1	1	19.95	19.99	19.96	20.7
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	20.21	20.32	20.20	20.7
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	20.27	20.23	20.18	20.7
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	20.21	20.31	20.19	20.7
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	20.26	20.27	20.14	20.7
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	20.25	20.22	20.19	20.7
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	20.30	20.24	20.22	20.7



<FR1 n66_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				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	21.06	21.14	21.11	21.3
40	PI/2 BPSK	1	108	21.04	21.11	21.09	
40	PI/2 BPSK	1	214	20.98	21.00	20.89	
40	PI/2 BPSK	108	0	20.97	20.94	20.94	21.3
40	PI/2 BPSK	108	54	20.99	21.05	21.00	21.3
40	PI/2 BPSK	108	108	20.92	20.96	20.96	21.3
40	PI/2 BPSK	216	0	20.84	20.96	20.94	
40	QPSK	1	1	21.07	21.10	20.87	21.3
40	QPSK	1	108	20.99	20.93	20.95	
40	QPSK	1	214	20.96	21.00	21.02	
40	QPSK	108	0	20.91	20.99	20.92	21.3
40	QPSK	108	54	20.95	21.03	20.95	21.3
40	QPSK	108	108	20.90	20.97	20.99	21.3
40	QPSK	216	0	20.98	20.94	20.99	
40	16QAM	1	1	20.97	20.99	20.98	21.3
40	64QAM	1	1	20.87	20.96	21.06	21.3
40	256QAM	1	1	19.62	19.66	19.68	21.1
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	21.04	21.05	21.03	21.3
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	21.01	21.03	21.08	21.3
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	20.98	21.06	21.08	21.3
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	21.02	21.09	21.09	21.3
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	21.00	21.05	21.07	21.3
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	20.98	21.09	21.02	21.3



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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					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		24.45		25.6
15	PI/2 BPSK	1	40		24.31		
15	PI/2 BPSK	1	77		24.35		
15	PI/2 BPSK	36	0		23.86		25.1
15	PI/2 BPSK	36	22		24.39		25.6
15	PI/2 BPSK	36	43		23.89		25.1
15	PI/2 BPSK	75	0		23.92		
15	QPSK	1	1		24.43		25.6
15	QPSK	1	40		24.33		
15	QPSK	1	77		24.36		
15	QPSK	36	0		23.39		24.6
15	QPSK	36	22		24.42		25.6
15	QPSK	36	43		23.38		24.6
15	QPSK	75	0		23.40		
15	16QAM	1	1		23.51		24.6
15	64QAM	1	1		21.96		23.1
15	256QAM	1	1		20.03		21.1
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	24.42	24.35	24.27	25.6
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	24.26	24.29	24.26	25.6

<FR1 n70_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					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		15.53		16.8
15	PI/2 BPSK	1	40		15.46		
15	PI/2 BPSK	1	77		15.37		
15	PI/2 BPSK	36	0		15.44		16.8
15	PI/2 BPSK	36	22		15.38		16.8
15	PI/2 BPSK	36	43		15.33		16.8
15	PI/2 BPSK	75	0		15.40		
15	QPSK	1	1		15.51		16.8
15	QPSK	1	40		15.35		
15	QPSK	1	77		15.41		
15	QPSK	36	0		15.39		16.8
15	QPSK	36	22		15.41		16.8
15	QPSK	36	43		15.37		16.8
15	QPSK	75	0		15.42		
15	16QAM	1	1		15.43		16.8
15	64QAM	1	1		15.40		16.8
15	256QAM	1	1		15.42		16.8
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	15.45	15.49	15.41	16.8
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	15.44	15.49	15.44	16.8



<FR1 n70_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					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		15.53		16.0
15	PI/2 BPSK	1	40		15.46		
15	PI/2 BPSK	1	77		15.37		
15	PI/2 BPSK	36	0		15.44		16.0
15	PI/2 BPSK	36	22		15.38		16.0
15	PI/2 BPSK	36	43		15.33		16.0
15	PI/2 BPSK	75	0		15.40		
15	QPSK	1	1		15.51		16.0
15	QPSK	1	40		15.35		
15	QPSK	1	77		15.41		
15	QPSK	36	0		15.39		16.0
15	QPSK	36	22		15.41		16.0
15	QPSK	36	43		15.37		16.0
15	QPSK	75	0		15.42		
15	16QAM	1	1		15.43		16.0
15	64QAM	1	1		15.40		16.0
15	256QAM	1	1		15.42		16.0
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	15.45	15.49	15.41	16.0
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	15.44	15.49	15.44	16.0

<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		17.88		18.0
15	PI/2 BPSK	1	40		17.78		
15	PI/2 BPSK	1	77		17.63		
15	PI/2 BPSK	36	0		17.69		18.0
15	PI/2 BPSK	36	22		17.75		18.0
15	PI/2 BPSK	36	43		17.68		18.0
15	PI/2 BPSK	75	0		17.68		
15	QPSK	1	1		17.76		18.0
15	QPSK	1	40		17.65		
15	QPSK	1	77		17.58		
15	QPSK	36	0		17.72		18.0
15	QPSK	36	22		17.67		18.0
15	QPSK	36	43		17.58		18.0
15	QPSK	75	0		17.67		
15	16QAM	1	1		17.77		18.0
15	64QAM	1	1		17.69		18.0
15	256QAM	1	1		17.73		18.0
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	17.81	17.76	17.79	18.0
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	17.81	17.78	17.86	18.0



<FR1 n70_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					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		19.86		20.4
15	PI/2 BPSK	1	40		19.73		
15	PI/2 BPSK	1	77		19.78		
15	PI/2 BPSK	36	0		19.80		20.4
15	PI/2 BPSK	36	22		19.81		20.4
15	PI/2 BPSK	36	43		19.78		20.4
15	PI/2 BPSK	75	0		19.79		
15	QPSK	1	1		19.84		20.4
15	QPSK	1	40		19.76		
15	QPSK	1	77		19.80		
15	QPSK	36	0		19.79		20.4
15	QPSK	36	22		19.81		20.4
15	QPSK	36	43		19.78		20.4
15	QPSK	75	0		19.81		
15	16QAM	1	1		19.83		20.4
15	64QAM	1	1		19.84		20.4
15	256QAM	1	1		19.63		20.4
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	19.73	19.78	19.70	20.4
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	19.69	19.79	19.68	20.4

<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		17.88		18.8
15	PI/2 BPSK	1	40		17.78		
15	PI/2 BPSK	1	77		17.63		
15	PI/2 BPSK	36	0		17.69		18.8
15	PI/2 BPSK	36	22		17.75		18.8
15	PI/2 BPSK	36	43		17.68		18.8
15	PI/2 BPSK	75	0		17.68		
15	QPSK	1	1		17.76		18.8
15	QPSK	1	40		17.65		
15	QPSK	1	77		17.58		
15	QPSK	36	0		17.72		18.8
15	QPSK	36	22		17.67		18.8
15	QPSK	36	43		17.58		18.8
15	QPSK	75	0		17.67		
15	16QAM	1	1		17.77		18.8
15	64QAM	1	1		17.69		18.8
15	256QAM	1	1		17.73		18.8
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	17.81	17.76	17.79	18.8
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	17.81	17.78	17.86	18.8



<FR1 n70_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					340500		
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		20.86		22.1
15	PI/2 BPSK	1	40		20.73		
15	PI/2 BPSK	1	77		20.78		
15	PI/2 BPSK	36	0		20.80		22.1
15	PI/2 BPSK	36	22		20.81		22.1
15	PI/2 BPSK	36	43		20.78		22.1
15	PI/2 BPSK	75	0		20.79		
15	QPSK	1	1		20.84		22.1
15	QPSK	1	40		20.76		
15	QPSK	1	77		20.80		
15	QPSK	36	0		20.79		22.1
15	QPSK	36	22		20.81		22.1
15	QPSK	36	43		20.78		22.1
15	QPSK	75	0		20.81		
15	16QAM	1	1		20.83		22.1
15	64QAM	1	1		20.84		22.1
15	256QAM	1	1		20.13		21.1
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	20.73	20.78	20.70	22.1
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	20.69	20.79	20.68	22.1

<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		17.88		18.0
15	PI/2 BPSK	1	40		17.78		
15	PI/2 BPSK	1	77		17.63		
15	PI/2 BPSK	36	0		17.69		18.0
15	PI/2 BPSK	36	22		17.75		18.0
15	PI/2 BPSK	36	43		17.68		18.0
15	PI/2 BPSK	75	0		17.68		
15	QPSK	1	1		17.76		18.0
15	QPSK	1	40		17.65		
15	QPSK	1	77		17.58		
15	QPSK	36	0		17.72		18.0
15	QPSK	36	22		17.67		18.0
15	QPSK	36	43		17.58		18.0
15	QPSK	75	0		17.67		
15	16QAM	1	1		17.77		18.0
15	64QAM	1	1		17.69		18.0
15	256QAM	1	1		17.73		18.0
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	17.81	17.76	17.79	18.0
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	17.81	17.78	17.86	18.0



<FR1 n70_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					340500		Tune-up limit (dBm)
Frequency (MHz)					1702.5		
15	PI/2 BPSK	1	1		20.86		21.3
15	PI/2 BPSK	1	40		20.73		
15	PI/2 BPSK	1	77		20.78		
15	PI/2 BPSK	36	0		20.80		21.3
15	PI/2 BPSK	36	22		20.81		21.3
15	PI/2 BPSK	36	43		20.78		21.3
15	PI/2 BPSK	75	0		20.79		
15	QPSK	1	1		20.84		21.3
15	QPSK	1	40		20.76		
15	QPSK	1	77		20.80		
15	QPSK	36	0		20.79		21.3
15	QPSK	36	22		20.81		21.3
15	QPSK	36	43		20.78		21.3
15	QPSK	75	0		20.81		
15	16QAM	1	1		20.83		21.3
15	64QAM	1	1		20.84		21.3
15	256QAM	1	1		20.13		21.1
Channel				340000	340500	341000	Tune-up limit (dBm)
Frequency (MHz)				1700	1702.5	1705	
10	PI/2 BPSK	1	1	20.73	20.78	20.70	21.3
Channel				339500	340500	341500	Tune-up limit (dBm)
Frequency (MHz)				1697.5	1702.5	1707.5	
5	PI/2 BPSK	1	1	20.69	20.79	20.68	21.3



<FR1 n71_Ant 0_Index 2/3>

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	24.15	24.12	24.10	25.7
20	PI/2 BPSK	1	53	24.03	24.10	24.05	
20	PI/2 BPSK	1	104	23.96	23.93	23.89	
20	PI/2 BPSK	50	0	23.36	23.41	23.32	25.2
20	PI/2 BPSK	50	28	23.90	23.95	23.92	25.7
20	PI/2 BPSK	50	56	23.38	23.41	23.35	25.2
20	PI/2 BPSK	100	0	23.41	23.48	23.45	
20	QPSK	1	1	23.95	23.95	23.91	25.7
20	QPSK	1	53	23.85	23.91	23.79	
20	QPSK	1	104	23.88	23.87	23.85	
20	QPSK	50	0	23.38	23.41	23.39	24.7
20	QPSK	50	28	23.84	23.89	23.82	25.7
20	QPSK	50	56	23.35	23.37	23.27	24.7
20	QPSK	100	0	23.08	23.06	23.02	
20	16QAM	1	1	22.91	22.95	22.85	24.7
20	64QAM	1	1	21.26	21.27	21.37	23.2
20	256QAM	1	1	19.38	19.41	19.29	21.2
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	23.98	24.11	23.94	25.7
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	24.01	24.01	23.92	25.7
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	24.09	24.05	24.06	25.7



<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	24.08	24.04	24.07	24.9
20	PI/2 BPSK	1	53	23.98	23.96	23.90	
20	PI/2 BPSK	1	104	23.94	23.92	23.93	
20	PI/2 BPSK	50	0	23.48	23.46	23.47	24.9
20	PI/2 BPSK	50	28	23.93	23.93	23.89	24.9
20	PI/2 BPSK	50	56	23.45	23.45	23.38	24.9
20	PI/2 BPSK	100	0	23.41	23.43	23.45	
20	QPSK	1	1	24.04	24.03	24.05	24.9
20	QPSK	1	53	23.92	23.98	23.92	
20	QPSK	1	104	23.94	23.95	23.90	
20	QPSK	50	0	22.91	22.97	22.92	24.7
20	QPSK	50	28	23.95	23.95	23.90	24.9
20	QPSK	50	56	22.92	22.94	22.91	24.7
20	QPSK	100	0	22.96	22.99	23.02	
20	16QAM	1	1	23.02	23.02	22.96	24.7
20	64QAM	1	1	21.45	21.48	21.43	23.2
20	256QAM	1	1	19.58	19.59	19.52	21.2
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	24.04	23.98	23.99	24.9
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	24.00	23.95	23.87	24.9
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	23.98	23.84	23.87	24.9



<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	24.08	24.04	24.07	24.1
20	PI/2 BPSK	1	53	23.98	23.96	23.90	
20	PI/2 BPSK	1	104	23.94	23.92	23.93	
20	PI/2 BPSK	50	0	23.48	23.46	23.47	24.1
20	PI/2 BPSK	50	28	23.93	23.93	23.89	24.1
20	PI/2 BPSK	50	56	23.45	23.45	23.38	24.1
20	PI/2 BPSK	100	0	23.41	23.43	23.45	
20	QPSK	1	1	24.04	24.03	24.05	24.1
20	QPSK	1	53	23.92	23.98	23.92	
20	QPSK	1	104	23.94	23.95	23.90	
20	QPSK	50	0	22.91	22.97	22.92	24.1
20	QPSK	50	28	23.95	23.95	23.90	24.1
20	QPSK	50	56	22.92	22.94	22.91	24.1
20	QPSK	100	0	22.96	22.99	23.02	
20	16QAM	1	1	23.02	23.02	22.96	24.1
20	64QAM	1	1	21.45	21.48	21.43	23.2
20	256QAM	1	1	19.58	19.59	19.52	21.2
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	24.04	23.98	23.99	24.1
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	24.00	23.95	23.87	24.1
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	23.98	23.84	23.87	24.1



<FR1 n71_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				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	24.15	24.12	24.10	25.7
20	PI/2 BPSK	1	53	24.03	24.10	24.05	
20	PI/2 BPSK	1	104	23.96	23.93	23.89	
20	PI/2 BPSK	50	0	23.36	23.41	23.32	25.2
20	PI/2 BPSK	50	28	23.90	23.95	23.92	25.7
20	PI/2 BPSK	50	56	23.38	23.41	23.35	25.2
20	PI/2 BPSK	100	0	23.41	23.48	23.45	
20	QPSK	1	1	23.95	23.95	23.91	25.7
20	QPSK	1	53	23.85	23.91	23.79	
20	QPSK	1	104	23.88	23.87	23.85	
20	QPSK	50	0	23.38	23.41	23.39	24.7
20	QPSK	50	28	23.84	23.89	23.82	25.7
20	QPSK	50	56	23.35	23.37	23.27	24.7
20	QPSK	100	0	23.08	23.06	23.02	
20	16QAM	1	1	22.91	22.95	22.85	24.7
20	64QAM	1	1	21.26	21.27	21.37	23.2
20	256QAM	1	1	19.38	19.41	19.29	21.2
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	23.98	24.11	23.94	25.7
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	24.01	24.01	23.92	25.7
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	24.09	24.05	24.06	25.7



<FR1 n71_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				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	24.08	24.04	24.07	25.7
20	PI/2 BPSK	1	53	23.98	23.96	23.90	
20	PI/2 BPSK	1	104	23.94	23.92	23.93	
20	PI/2 BPSK	50	0	23.48	23.46	23.47	25.2
20	PI/2 BPSK	50	28	23.93	23.93	23.89	25.7
20	PI/2 BPSK	50	56	23.45	23.45	23.38	25.2
20	PI/2 BPSK	100	0	23.41	23.43	23.45	
20	QPSK	1	1	24.04	24.03	24.05	25.7
20	QPSK	1	53	23.92	23.98	23.92	
20	QPSK	1	104	23.94	23.95	23.90	
20	QPSK	50	0	22.91	22.97	22.92	24.7
20	QPSK	50	28	23.95	23.95	23.90	25.7
20	QPSK	50	56	22.92	22.94	22.91	24.7
20	QPSK	100	0	22.96	22.99	23.02	
20	16QAM	1	1	23.02	23.02	22.96	24.7
20	64QAM	1	1	21.45	21.48	21.43	23.2
20	256QAM	1	1	19.58	19.59	19.52	21.2
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	24.04	23.98	23.99	25.7
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	24.00	23.95	23.87	25.7
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	23.98	23.84	23.87	25.7



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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				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	24.15	24.12	24.10	25.7
20	PI/2 BPSK	1	53	24.03	24.10	24.05	
20	PI/2 BPSK	1	104	23.96	23.93	23.89	
20	PI/2 BPSK	50	0	23.36	23.41	23.32	25.2
20	PI/2 BPSK	50	28	23.90	23.95	23.92	25.7
20	PI/2 BPSK	50	56	23.38	23.41	23.35	25.2
20	PI/2 BPSK	100	0	23.41	23.48	23.45	
20	QPSK	1	1	23.95	23.95	23.91	25.7
20	QPSK	1	53	23.85	23.91	23.79	
20	QPSK	1	104	23.88	23.87	23.85	
20	QPSK	50	0	23.38	23.41	23.39	24.7
20	QPSK	50	28	23.84	23.89	23.82	25.7
20	QPSK	50	56	23.35	23.37	23.27	24.7
20	QPSK	100	0	23.08	23.06	23.02	
20	16QAM	1	1	22.91	22.95	22.85	24.7
20	64QAM	1	1	21.26	21.27	21.37	23.2
20	256QAM	1	1	19.38	19.41	19.29	21.2
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	23.98	24.11	23.94	25.7
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	24.01	24.01	23.92	25.7
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	24.09	24.05	24.06	25.7



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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				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	24.08	24.04	24.07	25.7
20	PI/2 BPSK	1	53	23.98	23.96	23.90	
20	PI/2 BPSK	1	104	23.94	23.92	23.93	
20	PI/2 BPSK	50	0	23.48	23.46	23.47	25.2
20	PI/2 BPSK	50	28	23.93	23.93	23.89	25.7
20	PI/2 BPSK	50	56	23.45	23.45	23.38	25.2
20	PI/2 BPSK	100	0	23.41	23.43	23.45	
20	QPSK	1	1	24.04	24.03	24.05	25.7
20	QPSK	1	53	23.92	23.98	23.92	
20	QPSK	1	104	23.94	23.95	23.90	
20	QPSK	50	0	22.91	22.97	22.92	24.7
20	QPSK	50	28	23.95	23.95	23.90	25.7
20	QPSK	50	56	22.92	22.94	22.91	24.7
20	QPSK	100	0	22.96	22.99	23.02	
20	16QAM	1	1	23.02	23.02	22.96	24.7
20	64QAM	1	1	21.45	21.48	21.43	23.2
20	256QAM	1	1	19.58	19.59	19.52	21.2
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	24.04	23.98	23.99	25.7
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	24.00	23.95	23.87	25.7
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	23.98	23.84	23.87	25.7



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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	24.01	23.99	24.11	25.1
100	PI/2 BPSK	1	137	23.78	23.78	23.82	
100	PI/2 BPSK	1	271	23.87	23.94	24.02	
100	PI/2 BPSK	135	0	23.21	23.26	23.34	24.6
100	PI/2 BPSK	135	69	23.82	23.82	23.84	25.1
100	PI/2 BPSK	135	138	23.33	23.31	23.36	24.6
100	PI/2 BPSK	270	0	23.34	23.32	23.41	
100	QPSK	1	1	23.87	23.93	23.98	25.1
100	QPSK	1	137	23.71	23.74	23.79	
100	QPSK	1	271	23.84	23.92	24.01	
100	QPSK	135	0	22.72	22.77	22.83	24.1
100	QPSK	135	69	23.70	23.77	23.81	25.1
100	QPSK	135	138	22.82	22.83	22.89	24.1
100	QPSK	270	0	22.77	22.83	22.87	
100	16QAM	1	1	22.87	22.91	22.94	24.1
100	64QAM	1	1	21.33	21.41	21.44	22.6
100	256QAM	1	1	19.60	19.63	19.66	20.6
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	23.83	23.83	23.91	25.1
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	23.95	23.99	24.04	25.1
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.92	23.83	24.04	25.1
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.91	23.79	23.93	25.1
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.98	23.83	24.04	25.1
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	23.97	23.83	23.98	25.1
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.99	23.80	24.00	25.1
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.97	23.95	24.10	25.1
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	23.98	23.96	23.96	25.1
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	23.88	23.87	24.07	25.1
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.94	23.98	24.06	25.1



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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	13.73	13.77	13.79	14.6
100	PI/2 BPSK	1	137	13.63	13.68	13.68	
100	PI/2 BPSK	1	271	13.67	13.60	13.76	
100	PI/2 BPSK	135	0	13.67	13.65	13.69	14.6
100	PI/2 BPSK	135	69	13.69	13.70	13.78	14.6
100	PI/2 BPSK	135	138	13.68	13.65	13.76	14.6
100	PI/2 BPSK	270	0	13.66	13.67	13.69	
100	QPSK	1	1	13.67	13.59	13.67	14.6
100	QPSK	1	137	13.55	13.64	13.65	
100	QPSK	1	271	13.59	13.70	13.77	
100	QPSK	135	0	13.64	13.66	13.65	14.6
100	QPSK	135	69	13.55	13.71	13.78	14.6
100	QPSK	135	138	13.69	13.75	13.76	14.6
100	QPSK	270	0	13.58	13.63	13.76	
100	16QAM	1	1	13.57	13.70	13.68	14.6
100	64QAM	1	1	13.63	13.58	13.67	14.6
100	256QAM	1	1	13.62	13.76	13.67	14.6
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	13.54	13.76	13.78	14.6
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	13.72	13.59	13.76	14.6
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	13.60	13.70	13.74	14.6
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	13.70	13.69	13.75	14.6
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	13.66	13.69	13.74	14.6
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	13.68	13.59	13.77	14.6
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	13.70	13.62	13.74	14.6
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	13.59	13.61	13.75	14.6
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	13.71	13.65	13.76	14.6
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	13.53	13.67	13.74	14.6
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	13.54	13.76	13.76	14.6



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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				650000	656000	662000	25.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.46	24.53	24.41	
100	PI/2 BPSK	1	137	24.10	24.23	24.11	24.5
100	PI/2 BPSK	1	271	24.27	24.41	24.19	
100	PI/2 BPSK	135	0	23.63	23.79	23.62	24.5
100	PI/2 BPSK	135	69	24.16	24.27	24.11	25.0
100	PI/2 BPSK	135	138	23.69	23.82	23.64	24.5
100	PI/2 BPSK	270	0	23.58	23.71	23.51	
100	QPSK	1	1	24.38	24.48	24.31	25.0
100	QPSK	1	137	24.08	24.19	23.99	
100	QPSK	1	271	24.30	24.40	24.21	
100	QPSK	135	0	23.06	23.22	23.05	24.0
100	QPSK	135	69	24.07	24.20	24.04	25.0
100	QPSK	135	138	23.20	23.27	23.06	24.0
100	QPSK	270	0	23.15	23.29	23.08	
100	16QAM	1	1	23.36	23.47	23.29	24.0
100	64QAM	1	1	21.94	22.01	21.81	22.5
100	256QAM	1	1	20.02	20.16	20.00	20.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.39	24.46	24.29	25.0
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.27	24.50	24.21	25.0
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.37	24.35	24.40	25.0
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.33	24.49	24.27	25.0
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.31	24.42	24.25	25.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.44	24.35	24.28	25.0
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.39	24.39	24.26	25.0
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.39	24.49	24.26	25.0
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.40	24.37	24.21	25.0
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.35	24.40	24.27	25.0
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.43	24.46	24.21	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	22.51	22.56	22.58	23.5
100	PI/2 BPSK	1	137	22.13	22.31	22.29	
100	PI/2 BPSK	1	271	22.39	22.51	22.53	
100	PI/2 BPSK	135	0	21.98	22.08	22.06	23.5
100	PI/2 BPSK	135	69	22.09	22.27	22.29	23.5
100	PI/2 BPSK	135	138	22.01	22.11	22.13	23.5
100	PI/2 BPSK	270	0	21.92	22.05	21.98	
100	QPSK	1	1	22.34	22.53	22.54	23.5
100	QPSK	1	137	22.07	22.25	22.21	
100	QPSK	1	271	22.40	22.54	22.52	
100	QPSK	135	0	22.18	22.32	22.33	23.5
100	QPSK	135	69	22.22	22.32	22.32	23.5
100	QPSK	135	138	22.20	22.39	22.33	23.5
100	QPSK	270	0	22.16	22.35	22.36	
100	16QAM	1	1	22.28	22.47	22.41	23.5
100	64QAM	1	1	21.35	21.54	21.54	22.5
100	256QAM	1	1	19.64	19.76	19.71	20.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.49	22.55	22.57	23.5
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.35	22.53	22.54	23.5
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.37	22.48	22.54	23.5
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.36	22.56	22.54	23.5
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.37	22.54	22.50	23.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.49	22.55	22.54	23.5
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.32	22.52	22.52	23.5
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.34	22.43	22.47	23.5
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.45	22.45	22.48	23.5
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.48	22.56	22.56	23.5
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.44	22.50	22.57	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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	13.73	13.77	13.79	13.8
100	PI/2 BPSK	1	137	13.63	13.68	13.68	
100	PI/2 BPSK	1	271	13.67	13.60	13.76	
100	PI/2 BPSK	135	0	13.67	13.65	13.69	13.8
100	PI/2 BPSK	135	69	13.69	13.70	13.78	13.8
100	PI/2 BPSK	135	138	13.68	13.65	13.76	13.8
100	PI/2 BPSK	270	0	13.66	13.67	13.69	
100	QPSK	1	1	13.67	13.59	13.67	13.8
100	QPSK	1	137	13.55	13.64	13.65	
100	QPSK	1	271	13.59	13.70	13.77	
100	QPSK	135	0	13.64	13.66	13.65	13.8
100	QPSK	135	69	13.55	13.71	13.78	13.8
100	QPSK	135	138	13.69	13.75	13.76	13.8
100	QPSK	270	0	13.58	13.63	13.76	
100	16QAM	1	1	13.57	13.70	13.68	13.8
100	64QAM	1	1	13.63	13.58	13.67	13.8
100	256QAM	1	1	13.62	13.76	13.67	13.8
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	13.54	13.76	13.78	13.8
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	13.72	13.59	13.76	13.8
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	13.60	13.70	13.74	13.8
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	13.70	13.69	13.75	13.8
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	13.66	13.69	13.74	13.8
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	13.68	13.59	13.77	13.8
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	13.70	13.62	13.74	13.8
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	13.59	13.61	13.75	13.8
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	13.71	13.65	13.76	13.8
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	13.53	13.67	13.74	13.8
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	13.54	13.76	13.76	13.8



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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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.51	22.56	22.58	22.7
100	PI/2 BPSK	1	137	22.13	22.31	22.29	
100	PI/2 BPSK	1	271	22.39	22.51	22.53	
100	PI/2 BPSK	135	0	21.98	22.08	22.06	22.7
100	PI/2 BPSK	135	69	22.09	22.27	22.29	22.7
100	PI/2 BPSK	135	138	22.01	22.11	22.13	22.7
100	PI/2 BPSK	270	0	21.92	22.05	21.98	
100	QPSK	1	1	22.34	22.53	22.54	22.7
100	QPSK	1	137	22.07	22.25	22.21	
100	QPSK	1	271	22.40	22.54	22.52	
100	QPSK	135	0	22.18	22.32	22.33	22.7
100	QPSK	135	69	22.22	22.32	22.32	22.7
100	QPSK	135	138	22.20	22.39	22.33	22.7
100	QPSK	270	0	22.16	22.35	22.36	
100	16QAM	1	1	22.28	22.47	22.41	22.7
100	64QAM	1	1	21.35	21.54	21.54	22.5
100	256QAM	1	1	19.64	19.76	19.71	20.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.49	22.55	22.57	22.7
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.35	22.53	22.54	22.7
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.37	22.48	22.54	22.7
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.36	22.56	22.54	22.7
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.37	22.54	22.50	22.7
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.49	22.55	22.54	22.7
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.32	22.52	22.52	22.7
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.34	22.43	22.47	22.7
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.45	22.45	22.48	22.7
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.48	22.56	22.56	22.7
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.44	22.50	22.57	22.7



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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	21.53	21.69	21.57	21.7
100	PI/2 BPSK	1	137	21.32	21.49	21.29	
100	PI/2 BPSK	1	271	21.34	21.59	21.45	
100	PI/2 BPSK	135	0	21.20	21.39	21.18	21.7
100	PI/2 BPSK	135	69	21.37	21.53	21.39	21.7
100	PI/2 BPSK	135	138	21.32	21.48	21.34	21.7
100	PI/2 BPSK	270	0	21.28	21.49	21.30	
100	QPSK	1	1	21.30	21.51	21.38	21.7
100	QPSK	1	137	21.21	21.45	21.25	
100	QPSK	1	271	21.41	21.63	21.46	
100	QPSK	135	0	21.19	21.41	21.22	21.7
100	QPSK	135	69	21.34	21.51	21.36	21.7
100	QPSK	135	138	21.30	21.48	21.35	21.7
100	QPSK	270	0	21.29	21.47	21.27	
100	16QAM	1	1	21.29	21.48	21.34	21.7
100	64QAM	1	1	20.88	21.13	20.97	21.7
100	256QAM	1	1	19.08	19.32	19.12	20.6
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.47	21.60	21.47	21.7
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.44	21.65	21.52	21.7
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	21.46	21.60	21.55	21.7
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.50	21.68	21.54	21.7
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.51	21.65	21.56	21.7
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.50	21.64	21.50	21.7
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	21.50	21.61	21.51	21.7
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	21.51	21.64	21.51	21.7
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	21.44	21.59	21.47	21.7
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.46	21.61	21.56	21.7
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.47	21.68	21.57	21.7



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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	20.34	20.42	20.67	20.8
100	PI/2 BPSK	1	137	20.20	20.28	20.59	
100	PI/2 BPSK	1	271	20.21	20.27	20.66	
100	PI/2 BPSK	135	0	20.29	20.19	20.52	20.8
100	PI/2 BPSK	135	69	20.34	20.27	20.61	20.8
100	PI/2 BPSK	135	138	20.31	20.24	20.42	20.8
100	PI/2 BPSK	270	0	20.15	20.27	20.57	
100	QPSK	1	1	20.14	20.37	20.54	20.8
100	QPSK	1	137	20.32	20.43	20.60	
100	QPSK	1	271	20.29	20.26	20.49	
100	QPSK	135	0	20.36	20.22	20.32	20.8
100	QPSK	135	69	20.23	20.32	20.34	20.8
100	QPSK	135	138	20.36	20.11	20.27	20.8
100	QPSK	270	0	20.36	20.30	20.25	
100	16QAM	1	1	20.22	20.34	20.11	20.8
100	64QAM	1	1	20.07	20.08	20.10	20.8
100	256QAM	1	1	18.27	18.32	18.09	19.6
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	20.22	20.42	20.49	20.8
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	20.36	20.15	20.45	20.8
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	20.28	20.35	20.53	20.8
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	20.36	20.27	20.60	20.8
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	20.19	20.18	20.44	20.8
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	20.27	20.35	20.46	20.8
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	20.21	20.31	20.50	20.8
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	20.28	20.27	20.56	20.8
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	20.24	20.30	20.45	20.8
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	20.38	20.24	20.61	20.8
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	20.30	20.27	20.58	20.8



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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				650000	656000	662000	21.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	20.48	20.53	20.45	
100	PI/2 BPSK	1	137	20.22	20.26	20.23	21.0
100	PI/2 BPSK	1	271	20.46	20.50	20.45	
100	PI/2 BPSK	135	0	20.32	20.31	20.26	
100	PI/2 BPSK	135	69	20.33	20.34	20.31	21.0
100	PI/2 BPSK	135	138	20.21	20.25	20.23	21.0
100	PI/2 BPSK	270	0	20.29	20.30	20.24	
100	QPSK	1	1	20.38	20.51	20.42	
100	QPSK	1	137	20.20	20.24	20.22	21.0
100	QPSK	1	271	20.46	20.47	20.42	
100	QPSK	135	0	20.22	20.27	20.24	
100	QPSK	135	69	20.21	20.24	20.25	21.0
100	QPSK	135	138	20.32	20.29	20.32	21.0
100	QPSK	270	0	20.27	20.21	20.30	
100	16QAM	1	1	20.33	20.47	20.33	
100	64QAM	1	1	20.37	20.49	20.36	21.0
100	256QAM	1	1	20.00	20.14	20.05	20.5
Channel				649668	656000	662332	21.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	20.39	20.43	20.42	
Channel				649334	656000	662666	21.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	20.38	20.48	20.42	
Channel				649000	656000	663000	21.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	20.43	20.52	20.45	
Channel				648668	656000	663332	21.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	20.44	20.49	20.43	
Channel				648334	656000	663666	21.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	20.43	20.43	20.44	
Channel				648000	656000	664000	21.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	20.47	20.45	20.40	
Channel				647668	656000	664332	21.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	20.48	20.47	20.42	
Channel				647500	656000	664500	21.0
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	20.46	20.48	20.43	
Channel				647334	656000	664666	21.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	20.41	20.46	20.45	
Channel				647168	656000	664832	21.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	20.47	20.47	20.42	
Channel				647000	656000	665000	21.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	20.43	20.44	20.35	



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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	21.79	21.85	21.81	22.3
100	PI/2 BPSK	1	137	21.78	21.82	21.70	
100	PI/2 BPSK	1	271	21.68	21.70	21.66	
100	PI/2 BPSK	135	0	21.68	21.70	21.73	22.3
100	PI/2 BPSK	135	69	21.69	21.75	21.75	22.3
100	PI/2 BPSK	135	138	21.64	21.73	21.73	22.3
100	PI/2 BPSK	270	0	21.65	21.68	21.63	
100	QPSK	1	1	21.69	21.73	21.72	22.3
100	QPSK	1	137	21.75	21.66	21.81	
100	QPSK	1	271	21.79	21.74	21.64	
100	QPSK	135	0	21.64	21.74	21.76	22.3
100	QPSK	135	69	21.59	21.79	21.69	22.3
100	QPSK	135	138	21.72	21.76	21.68	22.3
100	QPSK	270	0	21.74	21.74	21.77	
100	16QAM	1	1	21.70	21.74	21.80	22.3
100	64QAM	1	1	21.35	21.37	21.30	22.3
100	256QAM	1	1	19.57	19.53	19.54	20.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.73	21.77	21.65	22.3
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.68	21.67	21.64	22.3
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	21.60	21.77	21.78	22.3
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.71	21.75	21.66	22.3
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.73	21.67	21.77	22.3
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.65	21.76	21.80	22.3
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	21.70	21.80	21.62	22.3
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	21.76	21.78	21.72	22.3
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	21.67	21.80	21.81	22.3
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.71	21.72	21.71	22.3
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.60	21.67	21.81	22.3



<FR1 n77_Ant 6_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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	21.53	21.69	21.57	22.5
100	PI/2 BPSK	1	137	21.32	21.49	21.29	
100	PI/2 BPSK	1	271	21.34	21.59	21.45	
100	PI/2 BPSK	135	0	21.20	21.39	21.18	22.5
100	PI/2 BPSK	135	69	21.37	21.53	21.39	22.5
100	PI/2 BPSK	135	138	21.32	21.48	21.34	22.5
100	PI/2 BPSK	270	0	21.28	21.49	21.30	
100	QPSK	1	1	21.30	21.51	21.38	22.5
100	QPSK	1	137	21.21	21.45	21.25	
100	QPSK	1	271	21.41	21.63	21.46	
100	QPSK	135	0	21.19	21.41	21.22	22.5
100	QPSK	135	69	21.34	21.51	21.36	22.5
100	QPSK	135	138	21.30	21.48	21.35	22.5
100	QPSK	270	0	21.29	21.47	21.27	
100	16QAM	1	1	21.29	21.48	21.34	22.5
100	64QAM	1	1	20.88	21.13	20.97	22.5
100	256QAM	1	1	19.08	19.32	19.12	20.6
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.47	21.60	21.47	22.5
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.44	21.65	21.52	22.5
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	21.46	21.60	21.55	22.5
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.50	21.68	21.54	22.5
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.51	21.65	21.56	22.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.50	21.64	21.50	22.5
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	21.50	21.61	21.51	22.5
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	21.51	21.64	21.51	22.5
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	21.44	21.59	21.47	22.5
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.46	21.61	21.56	22.5
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.47	21.68	21.57	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	20.34	20.42	20.67	21.6
100	PI/2 BPSK	1	137	20.20	20.28	20.59	
100	PI/2 BPSK	1	271	20.21	20.27	20.66	
100	PI/2 BPSK	135	0	20.29	20.19	20.52	21.6
100	PI/2 BPSK	135	69	20.34	20.27	20.61	21.6
100	PI/2 BPSK	135	138	20.31	20.24	20.42	21.6
100	PI/2 BPSK	270	0	20.15	20.27	20.57	
100	QPSK	1	1	20.14	20.37	20.54	21.6
100	QPSK	1	137	20.32	20.43	20.60	
100	QPSK	1	271	20.29	20.26	20.49	
100	QPSK	135	0	20.36	20.22	20.32	21.6
100	QPSK	135	69	20.23	20.32	20.34	21.6
100	QPSK	135	138	20.36	20.11	20.27	21.6
100	QPSK	270	0	20.36	20.30	20.25	
100	16QAM	1	1	20.22	20.34	20.11	21.6
100	64QAM	1	1	20.07	20.08	20.10	21.6
100	256QAM	1	1	18.27	18.32	18.09	19.6
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	20.22	20.42	20.49	21.6
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	20.36	20.15	20.45	21.6
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	20.28	20.35	20.53	21.6
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	20.36	20.27	20.60	21.6
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	20.19	20.18	20.44	21.6
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	20.27	20.35	20.46	21.6
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	20.21	20.31	20.50	21.6
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	20.28	20.27	20.56	21.6
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	20.24	20.30	20.45	21.6
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	20.38	20.24	20.61	21.6
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	20.30	20.27	20.58	21.6



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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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	20.48	20.53	20.45	21.8
100	PI/2 BPSK	1	137	20.22	20.26	20.23	
100	PI/2 BPSK	1	271	20.46	20.50	20.45	
100	PI/2 BPSK	135	0	20.32	20.31	20.26	21.8
100	PI/2 BPSK	135	69	20.33	20.34	20.31	21.8
100	PI/2 BPSK	135	138	20.21	20.25	20.23	21.8
100	PI/2 BPSK	270	0	20.29	20.30	20.24	
100	QPSK	1	1	20.38	20.51	20.42	21.8
100	QPSK	1	137	20.20	20.24	20.22	
100	QPSK	1	271	20.46	20.47	20.42	
100	QPSK	135	0	20.22	20.27	20.24	21.8
100	QPSK	135	69	20.21	20.24	20.25	21.8
100	QPSK	135	138	20.32	20.29	20.32	21.8
100	QPSK	270	0	20.27	20.21	20.30	
100	16QAM	1	1	20.33	20.47	20.33	21.8
100	64QAM	1	1	20.37	20.49	20.36	21.8
100	256QAM	1	1	20.00	20.14	20.05	20.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	20.39	20.43	20.42	21.8
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	20.38	20.48	20.42	21.8
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	20.43	20.52	20.45	21.8
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	20.44	20.49	20.43	21.8
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	20.43	20.43	20.44	21.8
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	20.47	20.45	20.40	21.8
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	20.48	20.47	20.42	21.8
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	20.46	20.48	20.43	21.8
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	20.41	20.46	20.45	21.8
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	20.47	20.47	20.42	21.8
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	20.43	20.44	20.35	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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	21.79	21.85	21.81	23.1
100	PI/2 BPSK	1	137	21.78	21.82	21.70	
100	PI/2 BPSK	1	271	21.68	21.70	21.66	
100	PI/2 BPSK	135	0	21.68	21.70	21.73	23.1
100	PI/2 BPSK	135	69	21.69	21.75	21.75	23.1
100	PI/2 BPSK	135	138	21.64	21.73	21.73	23.1
100	PI/2 BPSK	270	0	21.65	21.68	21.63	
100	QPSK	1	1	21.69	21.73	21.72	23.1
100	QPSK	1	137	21.75	21.66	21.81	
100	QPSK	1	271	21.79	21.74	21.64	
100	QPSK	135	0	21.64	21.74	21.76	23.1
100	QPSK	135	69	21.59	21.79	21.69	23.1
100	QPSK	135	138	21.72	21.76	21.68	23.1
100	QPSK	270	0	21.74	21.74	21.77	
100	16QAM	1	1	21.70	21.74	21.80	23.1
100	64QAM	1	1	21.35	21.37	21.30	22.5
100	256QAM	1	1	19.57	19.53	19.54	20.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.73	21.77	21.65	23.1
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.68	21.67	21.64	23.1
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	21.60	21.77	21.78	23.1
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.71	21.75	21.66	23.1
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.73	21.67	21.77	23.1
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.65	21.76	21.80	23.1
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	21.70	21.80	21.62	23.1
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	21.76	21.78	21.72	23.1
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	21.67	21.80	21.81	23.1
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.71	21.72	21.71	23.1
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.60	21.67	21.81	23.1



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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	21.53	21.69	21.57	21.7
100	PI/2 BPSK	1	137	21.32	21.49	21.29	
100	PI/2 BPSK	1	271	21.34	21.59	21.45	
100	PI/2 BPSK	135	0	21.20	21.39	21.18	21.7
100	PI/2 BPSK	135	69	21.37	21.53	21.39	21.7
100	PI/2 BPSK	135	138	21.32	21.48	21.34	21.7
100	PI/2 BPSK	270	0	21.28	21.49	21.30	
100	QPSK	1	1	21.30	21.51	21.38	21.7
100	QPSK	1	137	21.21	21.45	21.25	
100	QPSK	1	271	21.41	21.63	21.46	
100	QPSK	135	0	21.19	21.41	21.22	21.7
100	QPSK	135	69	21.34	21.51	21.36	21.7
100	QPSK	135	138	21.30	21.48	21.35	21.7
100	QPSK	270	0	21.29	21.47	21.27	
100	16QAM	1	1	21.29	21.48	21.34	21.7
100	64QAM	1	1	20.88	21.13	20.97	21.7
100	256QAM	1	1	19.08	19.32	19.12	20.6
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.47	21.60	21.47	21.7
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.44	21.65	21.52	21.7
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	21.46	21.60	21.55	21.7
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.50	21.68	21.54	21.7
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.51	21.65	21.56	21.7
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.50	21.64	21.50	21.7
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	21.50	21.61	21.51	21.7
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	21.51	21.64	21.51	21.7
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	21.44	21.59	21.47	21.7
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.46	21.61	21.56	21.7
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.47	21.68	21.57	21.7



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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	20.48	20.53	20.45	21.0
100	PI/2 BPSK	1	137	20.22	20.26	20.23	
100	PI/2 BPSK	1	271	20.46	20.50	20.45	
100	PI/2 BPSK	135	0	20.32	20.31	20.26	21.0
100	PI/2 BPSK	135	69	20.33	20.34	20.31	21.0
100	PI/2 BPSK	135	138	20.21	20.25	20.23	21.0
100	PI/2 BPSK	270	0	20.29	20.30	20.24	
100	QPSK	1	1	20.38	20.51	20.42	21.0
100	QPSK	1	137	20.20	20.24	20.22	
100	QPSK	1	271	20.46	20.47	20.42	
100	QPSK	135	0	20.22	20.27	20.24	21.0
100	QPSK	135	69	20.21	20.24	20.25	21.0
100	QPSK	135	138	20.32	20.29	20.32	21.0
100	QPSK	270	0	20.27	20.21	20.30	
100	16QAM	1	1	20.33	20.47	20.33	21.0
100	64QAM	1	1	20.37	20.49	20.36	21.0
100	256QAM	1	1	20.00	20.14	20.05	20.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	20.39	20.43	20.42	21.0
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	20.38	20.48	20.42	21.0
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	20.43	20.52	20.45	21.0
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	20.44	20.49	20.43	21.0
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	20.43	20.43	20.44	21.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	20.47	20.45	20.40	21.0
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	20.48	20.47	20.42	21.0
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	20.46	20.48	20.43	21.0
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	20.41	20.46	20.45	21.0
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	20.47	20.47	20.42	21.0
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	20.43	20.44	20.35	21.0



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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	21.79	21.85	21.81	22.3
100	PI/2 BPSK	1	137	21.78	21.82	21.70	
100	PI/2 BPSK	1	271	21.68	21.70	21.66	
100	PI/2 BPSK	135	0	21.68	21.70	21.73	22.3
100	PI/2 BPSK	135	69	21.69	21.75	21.75	22.3
100	PI/2 BPSK	135	138	21.64	21.73	21.73	22.3
100	PI/2 BPSK	270	0	21.65	21.68	21.63	
100	QPSK	1	1	21.69	21.73	21.72	22.3
100	QPSK	1	137	21.75	21.66	21.81	
100	QPSK	1	271	21.79	21.74	21.64	
100	QPSK	135	0	21.64	21.74	21.76	22.3
100	QPSK	135	69	21.59	21.79	21.69	22.3
100	QPSK	135	138	21.72	21.76	21.68	22.3
100	QPSK	270	0	21.74	21.74	21.77	
100	16QAM	1	1	21.70	21.74	21.80	22.3
100	64QAM	1	1	21.35	21.37	21.30	22.3
100	256QAM	1	1	19.57	19.53	19.54	20.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.73	21.77	21.65	22.3
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.68	21.67	21.64	22.3
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	21.60	21.77	21.78	22.3
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.71	21.75	21.66	22.3
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.73	21.67	21.77	22.3
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.65	21.76	21.80	22.3
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	21.70	21.80	21.62	22.3
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	21.76	21.78	21.72	22.3
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	21.67	21.80	21.81	22.3
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.71	21.72	21.71	22.3
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.60	21.67	21.81	22.3



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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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	26.40	26.39	26.51	27.5
100	PI/2 BPSK	1	137	26.32	26.36	26.43	
100	PI/2 BPSK	1	271	26.30	26.38	26.41	
100	PI/2 BPSK	135	0	25.74	25.79	25.86	27.0
100	PI/2 BPSK	135	69	26.29	26.37	26.43	27.5
100	PI/2 BPSK	135	138	25.83	25.92	25.98	27.0
100	PI/2 BPSK	270	0	25.91	25.90	26.00	
100	QPSK	1	1	26.39	26.41	26.47	27.5
100	QPSK	1	137	26.31	26.32	26.34	
100	QPSK	1	271	26.34	26.36	26.43	
100	QPSK	135	0	25.22	25.26	25.28	26.5
100	QPSK	135	69	26.32	26.37	26.42	27.5
100	QPSK	135	138	25.32	25.38	25.45	26.5
100	QPSK	270	0	25.31	25.39	25.44	
100	16QAM	1	1	25.35	25.40	25.46	26.5
100	64QAM	1	1	23.84	23.88	23.96	25.0
100	256QAM	1	1	22.13	22.16	22.18	23.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	26.30	26.39	26.33	27.5
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	26.21	26.22	26.33	27.5
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	26.29	26.35	26.41	27.5
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	26.26	26.37	26.50	27.5
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	26.38	26.37	26.33	27.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	26.34	26.19	26.31	27.5
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	26.22	26.25	26.33	27.5
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	26.25	26.35	26.45	27.5
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	26.27	26.38	26.43	27.5
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	26.38	26.38	26.39	27.5
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	26.32	26.37	26.44	27.5



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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	16.69	16.78	16.80	17.6
100	PI/2 BPSK	1	137	16.49	16.66	16.64	
100	PI/2 BPSK	1	271	16.47	16.63	16.58	
100	PI/2 BPSK	135	0	16.37	16.56	16.48	17.6
100	PI/2 BPSK	135	69	16.57	16.66	16.60	17.6
100	PI/2 BPSK	135	138	16.64	16.76	16.73	17.6
100	PI/2 BPSK	270	0	16.56	16.73	16.73	
100	QPSK	1	1	16.50	16.67	16.65	17.6
100	QPSK	1	137	16.51	16.66	16.66	
100	QPSK	1	271	16.53	16.63	16.60	
100	QPSK	135	0	16.42	16.56	16.56	17.6
100	QPSK	135	69	16.53	16.68	16.68	17.6
100	QPSK	135	138	16.65	16.75	16.70	17.6
100	QPSK	270	0	16.54	16.69	16.70	
100	16QAM	1	1	16.52	16.66	16.65	17.6
100	64QAM	1	1	16.57	16.68	16.66	17.6
100	256QAM	1	1	16.53	16.65	16.63	17.6
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	16.62	16.77	16.78	17.6
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	16.62	16.68	16.78	17.6
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	16.66	16.74	16.77	17.6
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	16.61	16.71	16.76	17.6
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	16.67	16.68	16.73	17.6
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	16.59	16.68	16.78	17.6
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	16.52	16.61	16.78	17.6
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	16.61	16.75	16.74	17.6
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	16.62	16.74	16.70	17.6
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	16.68	16.78	16.77	17.6
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	16.69	16.78	16.71	17.6



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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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	25.63	25.70	25.61	26.2
100	PI/2 BPSK	1	137	25.42	25.54	25.35	
100	PI/2 BPSK	1	271	25.59	25.69	25.53	
100	PI/2 BPSK	135	0	24.61	24.78	24.63	25.7
100	PI/2 BPSK	135	69	25.40	25.55	25.46	26.2
100	PI/2 BPSK	135	138	24.81	24.90	24.73	25.7
100	PI/2 BPSK	270	0	24.72	24.89	24.75	
100	QPSK	1	1	25.56	25.68	25.55	26.2
100	QPSK	1	137	25.44	25.52	25.36	
100	QPSK	1	271	25.53	25.65	25.46	
100	QPSK	135	0	24.16	24.33	24.15	25.2
100	QPSK	135	69	25.43	25.56	25.47	26.2
100	QPSK	135	138	24.28	24.40	24.27	25.2
100	QPSK	270	0	24.25	24.39	24.25	
100	16QAM	1	1	24.39	24.46	24.34	25.2
100	64QAM	1	1	22.76	22.93	22.80	23.7
100	256QAM	1	1	21.17	21.25	21.09	21.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	25.55	25.67	25.49	26.2
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	25.56	25.51	25.55	26.2
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	25.50	25.59	25.48	26.2
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	25.47	25.53	25.54	26.2
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	25.60	25.68	25.57	26.2
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	25.53	25.50	25.43	26.2
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	25.44	25.56	25.50	26.2
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	25.45	25.58	25.45	26.2
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	25.62	25.64	25.42	26.2
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	25.51	25.50	25.55	26.2
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	25.51	25.51	25.56	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	25.39	25.49	25.42	26.2
100	PI/2 BPSK	1	137	24.99	25.15	25.08	
100	PI/2 BPSK	1	271	25.35	25.46	25.34	
100	PI/2 BPSK	135	0	24.27	24.45	24.29	25.7
100	PI/2 BPSK	135	69	24.96	25.13	24.99	26.2
100	PI/2 BPSK	135	138	24.39	24.55	24.43	25.7
100	PI/2 BPSK	270	0	24.40	24.50	24.38	
100	QPSK	1	1	25.24	25.35	25.20	26.2
100	QPSK	1	137	24.96	25.10	24.94	
100	QPSK	1	271	25.30	25.43	25.34	
100	QPSK	135	0	23.75	23.94	23.85	25.2
100	QPSK	135	69	25.00	25.13	24.97	26.2
100	QPSK	135	138	23.87	24.04	23.90	25.2
100	QPSK	270	0	23.87	23.97	23.88	
100	16QAM	1	1	24.05	24.16	24.01	25.2
100	64QAM	1	1	22.48	22.65	22.52	23.7
100	256QAM	1	1	20.75	20.95	20.79	21.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	25.30	25.41	25.25	26.2
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	25.27	25.43	25.39	26.2
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	25.38	25.41	25.32	26.2
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	25.19	25.48	25.41	26.2
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	25.34	25.45	25.26	26.2
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	25.25	25.42	25.36	26.2
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	25.38	25.41	25.39	26.2
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	25.31	25.48	25.28	26.2
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	25.25	25.48	25.26	26.2
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	25.21	25.40	25.29	26.2
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	25.35	25.40	25.37	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	16.69	16.78	16.80	16.8
100	PI/2 BPSK	1	137	16.49	16.66	16.64	
100	PI/2 BPSK	1	271	16.47	16.63	16.58	
100	PI/2 BPSK	135	0	16.37	16.56	16.48	16.8
100	PI/2 BPSK	135	69	16.57	16.66	16.60	16.8
100	PI/2 BPSK	135	138	16.64	16.76	16.73	16.8
100	PI/2 BPSK	270	0	16.56	16.73	16.73	
100	QPSK	1	1	16.50	16.67	16.65	16.8
100	QPSK	1	137	16.51	16.66	16.66	
100	QPSK	1	271	16.53	16.63	16.60	
100	QPSK	135	0	16.42	16.56	16.56	16.8
100	QPSK	135	69	16.53	16.68	16.68	16.8
100	QPSK	135	138	16.65	16.75	16.70	16.8
100	QPSK	270	0	16.54	16.69	16.70	
100	16QAM	1	1	16.52	16.66	16.65	16.8
100	64QAM	1	1	16.57	16.68	16.66	16.8
100	256QAM	1	1	16.53	16.65	16.63	16.8
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	16.62	16.77	16.78	16.8
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	16.62	16.68	16.78	16.8
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	16.66	16.74	16.77	16.8
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	16.61	16.71	16.76	16.8
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	16.67	16.68	16.73	16.8
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	16.59	16.68	16.78	16.8
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	16.52	16.61	16.78	16.8
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	16.61	16.75	16.74	16.8
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	16.62	16.74	16.70	16.8
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	16.68	16.78	16.77	16.8
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	16.69	16.78	16.71	16.8



<FR1 n77_HPUE_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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	25.39	25.49	25.42	25.7
100	PI/2 BPSK	1	137	24.99	25.15	25.08	
100	PI/2 BPSK	1	271	25.35	25.46	25.34	
100	PI/2 BPSK	135	0	24.27	24.45	24.29	25.7
100	PI/2 BPSK	135	69	24.96	25.13	24.99	25.7
100	PI/2 BPSK	135	138	24.39	24.55	24.43	25.7
100	PI/2 BPSK	270	0	24.40	24.50	24.38	
100	QPSK	1	1	25.24	25.35	25.20	25.7
100	QPSK	1	137	24.96	25.10	24.94	
100	QPSK	1	271	25.30	25.43	25.34	
100	QPSK	135	0	23.75	23.94	23.85	25.2
100	QPSK	135	69	25.00	25.13	24.97	25.7
100	QPSK	135	138	23.87	24.04	23.90	25.2
100	QPSK	270	0	23.87	23.97	23.88	
100	16QAM	1	1	24.05	24.16	24.01	25.2
100	64QAM	1	1	22.48	22.65	22.52	23.7
100	256QAM	1	1	20.75	20.95	20.79	21.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	25.30	25.41	25.25	25.7
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	25.27	25.43	25.39	25.7
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	25.38	25.41	25.32	25.7
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	25.19	25.48	25.41	25.7
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	25.34	25.45	25.26	25.7
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	25.25	25.42	25.36	25.7
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	25.38	25.41	25.39	25.7
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	25.31	25.48	25.28	25.7
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	25.25	25.48	25.26	25.7
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	25.21	25.40	25.29	25.7
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	25.35	25.40	25.37	25.7



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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	24.55	24.52	24.65	24.7
100	PI/2 BPSK	1	137	24.20	24.25	24.36	
100	PI/2 BPSK	1	271	24.43	24.35	24.51	
100	PI/2 BPSK	135	0	24.33	24.24	24.34	24.7
100	PI/2 BPSK	135	69	24.45	24.40	24.48	24.7
100	PI/2 BPSK	135	138	24.20	24.18	24.30	24.7
100	PI/2 BPSK	270	0	24.28	24.28	24.37	
100	QPSK	1	1	24.46	24.48	24.61	24.7
100	QPSK	1	137	24.28	24.25	24.35	
100	QPSK	1	271	24.38	24.32	24.44	
100	QPSK	135	0	24.29	24.22	24.37	24.7
100	QPSK	135	69	24.22	24.17	24.34	24.7
100	QPSK	135	138	24.18	24.16	24.34	24.7
100	QPSK	270	0	24.25	24.30	24.43	
100	16QAM	1	1	23.94	23.93	24.08	24.7
100	64QAM	1	1	23.61	23.59	23.69	24.7
100	256QAM	1	1	21.93	21.88	21.95	23.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.53	24.47	24.56	24.7
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.46	24.47	24.62	24.7
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.54	24.47	24.61	24.7
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.53	24.45	24.55	24.7
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.51	24.44	24.61	24.7
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.53	24.48	24.56	24.7
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.54	24.47	24.59	24.7
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.50	24.42	24.57	24.7
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.48	24.48	24.63	24.7
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.47	24.45	24.62	24.7
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.53	24.45	24.60	24.7



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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	23.58	23.58	23.66	23.8
100	PI/2 BPSK	1	137	23.44	23.52	23.61	
100	PI/2 BPSK	1	271	23.56	23.51	23.62	
100	PI/2 BPSK	135	0	23.48	23.41	23.53	23.8
100	PI/2 BPSK	135	69	23.51	23.51	23.62	23.8
100	PI/2 BPSK	135	138	23.50	23.42	23.41	23.8
100	PI/2 BPSK	270	0	23.47	23.56	23.46	
100	QPSK	1	1	23.56	23.50	23.64	23.8
100	QPSK	1	137	23.43	23.50	23.63	
100	QPSK	1	271	23.63	23.62	23.60	
100	QPSK	135	0	23.44	23.49	23.50	23.8
100	QPSK	135	69	23.47	23.49	23.56	23.8
100	QPSK	135	138	23.62	23.63	23.50	23.8
100	QPSK	270	0	23.53	23.53	23.63	
100	16QAM	1	1	23.45	23.51	23.57	23.8
100	64QAM	1	1	22.56	22.68	22.74	23.8
100	256QAM	1	1	20.74	20.97	21.08	22.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	23.45	23.40	23.55	23.8
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	23.48	23.60	23.60	23.8
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.44	23.49	23.65	23.8
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.42	23.49	23.63	23.8
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.46	23.59	23.65	23.8
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	23.44	23.54	23.56	23.8
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.47	23.57	23.45	23.8
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.45	23.55	23.61	23.8
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	23.44	23.50	23.56	23.8
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	23.43	23.48	23.63	23.8
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.46	23.60	23.63	23.8



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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				650000	656000	662000	24.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.33	23.42	23.35	
100	PI/2 BPSK	1	137	23.23	23.27	23.25	24.0
100	PI/2 BPSK	1	271	23.22	23.41	23.33	
100	PI/2 BPSK	135	0	23.22	23.20	23.25	
100	PI/2 BPSK	135	69	23.34	23.39	23.26	24.0
100	PI/2 BPSK	135	138	23.33	23.26	23.22	
100	PI/2 BPSK	270	0	23.27	23.21	23.21	
100	QPSK	1	1	23.24	23.40	23.25	24.0
100	QPSK	1	137	23.24	23.30	23.23	
100	QPSK	1	271	23.29	23.37	23.26	
100	QPSK	135	0	23.25	23.27	23.25	24.0
100	QPSK	135	69	23.22	23.23	23.20	
100	QPSK	135	138	23.25	23.23	23.23	
100	QPSK	270	0	23.25	23.30	23.29	24.0
100	16QAM	1	1	23.23	23.40	23.25	
100	64QAM	1	1	22.72	22.89	22.77	
100	256QAM	1	1	21.06	21.20	21.07	21.7
Channel				649668	656000	662332	24.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	23.33	23.38	23.32	
Channel				649334	656000	662666	24.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	23.28	23.40	23.26	
Channel				649000	656000	663000	24.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.25	23.32	23.27	
Channel				648668	656000	663332	24.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.32	23.39	23.31	
Channel				648334	656000	663666	24.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.27	23.39	23.35	
Channel				648000	656000	664000	24.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	23.23	23.32	23.31	
Channel				647668	656000	664332	24.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.33	23.35	23.25	
Channel				647500	656000	664500	24.0
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.27	23.39	23.32	
Channel				647334	656000	664666	24.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	23.31	23.36	23.33	
Channel				647168	656000	664832	24.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	23.32	23.40	23.26	
Channel				647000	656000	665000	24.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.25	23.39	23.30	



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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	24.73	24.89	24.74	25.3
100	PI/2 BPSK	1	137	24.30	24.35	24.33	
100	PI/2 BPSK	1	271	24.71	24.80	24.61	
100	PI/2 BPSK	135	0	24.24	24.52	24.38	25.3
100	PI/2 BPSK	135	69	24.38	24.62	24.53	25.3
100	PI/2 BPSK	135	138	24.32	24.61	24.44	25.3
100	PI/2 BPSK	270	0	24.41	24.42	24.41	
100	QPSK	1	1	24.64	24.74	24.48	25.3
100	QPSK	1	137	24.27	24.33	24.14	
100	QPSK	1	271	24.69	24.73	24.61	
100	QPSK	135	0	23.84	23.92	23.77	25.2
100	QPSK	135	69	24.34	24.34	24.17	25.3
100	QPSK	135	138	23.86	23.97	23.99	25.2
100	QPSK	270	0	23.92	24.00	23.83	
100	16QAM	1	1	24.06	24.16	23.92	25.2
100	64QAM	1	1	22.55	22.66	22.55	23.7
100	256QAM	1	1	20.72	20.86	20.86	21.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.67	24.65	24.53	25.3
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.48	24.80	24.70	25.3
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.71	24.72	24.55	25.3
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.55	24.80	24.80	25.3
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.73	24.77	24.55	25.3
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.48	24.79	24.74	25.3
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.72	24.76	24.69	25.3
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.71	24.72	24.56	25.3
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.52	24.69	24.62	25.3
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.57	24.73	24.65	25.3
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.66	24.78	24.73	25.3



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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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.55	24.52	24.65	25.5
100	PI/2 BPSK	1	137	24.20	24.25	24.36	
100	PI/2 BPSK	1	271	24.43	24.35	24.51	
100	PI/2 BPSK	135	0	24.33	24.24	24.34	25.5
100	PI/2 BPSK	135	69	24.45	24.40	24.48	25.5
100	PI/2 BPSK	135	138	24.20	24.18	24.30	25.5
100	PI/2 BPSK	270	0	24.28	24.28	24.37	
100	QPSK	1	1	24.46	24.48	24.61	
100	QPSK	1	137	24.28	24.25	24.35	25.5
100	QPSK	1	271	24.38	24.32	24.44	
100	QPSK	135	0	24.29	24.22	24.37	
100	QPSK	135	69	24.22	24.17	24.34	25.5
100	QPSK	135	138	24.18	24.16	24.34	25.5
100	QPSK	270	0	24.25	24.30	24.43	
100	16QAM	1	1	23.94	23.93	24.08	
100	64QAM	1	1	23.61	23.59	23.69	25.0
100	256QAM	1	1	21.93	21.88	21.95	23.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.53	24.47	24.56	25.5
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.46	24.47	24.62	25.5
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.54	24.47	24.61	25.5
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.53	24.45	24.55	25.5
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.51	24.44	24.61	25.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.53	24.48	24.56	25.5
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.54	24.47	24.59	25.5
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.50	24.42	24.57	25.5
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.48	24.48	24.63	25.5
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.47	24.45	24.62	25.5
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.53	24.45	24.60	25.5



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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	24.6
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.58	23.58	23.66	
100	PI/2 BPSK	1	137	23.44	23.52	23.61	24.6
100	PI/2 BPSK	1	271	23.56	23.51	23.62	
100	PI/2 BPSK	135	0	23.48	23.41	23.53	24.6
100	PI/2 BPSK	135	69	23.51	23.51	23.62	24.6
100	PI/2 BPSK	135	138	23.50	23.42	23.41	24.6
100	PI/2 BPSK	270	0	23.47	23.56	23.46	
100	QPSK	1	1	23.56	23.50	23.64	24.6
100	QPSK	1	137	23.43	23.50	23.63	
100	QPSK	1	271	23.63	23.62	23.60	
100	QPSK	135	0	23.44	23.49	23.50	24.6
100	QPSK	135	69	23.47	23.49	23.56	24.6
100	QPSK	135	138	23.62	23.63	23.50	24.6
100	QPSK	270	0	23.53	23.53	23.63	
100	16QAM	1	1	23.45	23.51	23.57	24.6
100	64QAM	1	1	22.56	22.68	22.74	24.0
100	256QAM	1	1	20.74	20.97	21.08	22.0
Channel				649668	656000	662332	24.6
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	23.45	23.40	23.55	24.6
Channel				649334	656000	662666	24.6
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	23.48	23.60	23.60	24.6
Channel				649000	656000	663000	24.6
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.44	23.49	23.65	24.6
Channel				648668	656000	663332	24.6
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.42	23.49	23.63	24.6
Channel				648334	656000	663666	24.6
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.46	23.59	23.65	24.6
Channel				648000	656000	664000	24.6
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	23.44	23.54	23.56	24.6
Channel				647668	656000	664332	24.6
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.47	23.57	23.45	24.6
Channel				647500	656000	664500	24.6
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.45	23.55	23.61	24.6
Channel				647334	656000	664666	24.6
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	23.44	23.50	23.56	24.6
Channel				647168	656000	664832	24.6
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	23.43	23.48	23.63	24.6
Channel				647000	656000	665000	24.6
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.46	23.60	23.63	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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.33	23.42	23.35	24.8
100	PI/2 BPSK	1	137	23.23	23.27	23.25	
100	PI/2 BPSK	1	271	23.22	23.41	23.33	
100	PI/2 BPSK	135	0	23.22	23.20	23.25	24.8
100	PI/2 BPSK	135	69	23.34	23.39	23.26	24.8
100	PI/2 BPSK	135	138	23.33	23.26	23.22	24.8
100	PI/2 BPSK	270	0	23.27	23.21	23.21	
100	QPSK	1	1	23.24	23.40	23.25	24.8
100	QPSK	1	137	23.24	23.30	23.23	
100	QPSK	1	271	23.29	23.37	23.26	
100	QPSK	135	0	23.25	23.27	23.25	24.8
100	QPSK	135	69	23.22	23.23	23.20	24.8
100	QPSK	135	138	23.25	23.23	23.23	24.8
100	QPSK	270	0	23.25	23.30	23.29	
100	16QAM	1	1	23.23	23.40	23.25	24.8
100	64QAM	1	1	22.72	22.89	22.77	23.7
100	256QAM	1	1	21.06	21.20	21.07	21.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	23.33	23.38	23.32	24.8
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	23.28	23.40	23.26	24.8
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.25	23.32	23.27	24.8
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.32	23.39	23.31	24.8
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.27	23.39	23.35	24.8
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	23.23	23.32	23.31	24.8
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.33	23.35	23.25	24.8
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.27	23.39	23.32	24.8
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	23.31	23.36	23.33	24.8
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	23.32	23.40	23.26	24.8
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.25	23.39	23.30	24.8



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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				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.73	24.89	24.74	26.1
100	PI/2 BPSK	1	137	24.30	24.35	24.33	
100	PI/2 BPSK	1	271	24.71	24.80	24.61	
100	PI/2 BPSK	135	0	24.24	24.52	24.38	26.0
100	PI/2 BPSK	135	69	24.38	24.62	24.53	26.1
100	PI/2 BPSK	135	138	24.32	24.61	24.44	26.0
100	PI/2 BPSK	270	0	24.41	24.42	24.41	
100	QPSK	1	1	24.64	24.74	24.48	26.1
100	QPSK	1	137	24.27	24.33	24.14	
100	QPSK	1	271	24.69	24.73	24.61	
100	QPSK	135	0	23.84	23.92	23.77	25.2
100	QPSK	135	69	24.34	24.34	24.17	26.1
100	QPSK	135	138	23.86	23.97	23.99	25.2
100	QPSK	270	0	23.92	24.00	23.83	
100	16QAM	1	1	24.06	24.16	23.92	25.2
100	64QAM	1	1	22.55	22.66	22.55	23.7
100	256QAM	1	1	20.72	20.86	20.86	21.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.67	24.65	24.53	26.1
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.48	24.80	24.70	26.1
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.71	24.72	24.55	26.1
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.55	24.80	24.80	26.1
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.73	24.77	24.55	26.1
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.48	24.79	24.74	26.1
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.72	24.76	24.69	26.1
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.71	24.72	24.56	26.1
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.52	24.69	24.62	26.1
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.57	24.73	24.65	26.1
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.66	24.78	24.73	26.1



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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	24.55	24.52	24.65	24.7
100	PI/2 BPSK	1	137	24.20	24.25	24.36	
100	PI/2 BPSK	1	271	24.43	24.35	24.51	
100	PI/2 BPSK	135	0	24.33	24.24	24.34	24.7
100	PI/2 BPSK	135	69	24.45	24.40	24.48	24.7
100	PI/2 BPSK	135	138	24.20	24.18	24.30	24.7
100	PI/2 BPSK	270	0	24.28	24.28	24.37	
100	QPSK	1	1	24.46	24.48	24.61	24.7
100	QPSK	1	137	24.28	24.25	24.35	
100	QPSK	1	271	24.38	24.32	24.44	
100	QPSK	135	0	24.29	24.22	24.37	24.7
100	QPSK	135	69	24.22	24.17	24.34	24.7
100	QPSK	135	138	24.18	24.16	24.34	24.7
100	QPSK	270	0	24.25	24.30	24.43	
100	16QAM	1	1	23.94	23.93	24.08	24.7
100	64QAM	1	1	23.61	23.59	23.69	24.7
100	256QAM	1	1	21.93	21.88	21.95	23.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.53	24.47	24.56	24.7
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.46	24.47	24.62	24.7
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.54	24.47	24.61	24.7
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.53	24.45	24.55	24.7
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.51	24.44	24.61	24.7
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.53	24.48	24.56	24.7
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.54	24.47	24.59	24.7
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.50	24.42	24.57	24.7
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.48	24.48	24.63	24.7
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.47	24.45	24.62	24.7
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.53	24.45	24.60	24.7



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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	23.33	23.42	23.35	24.0
100	PI/2 BPSK	1	137	23.23	23.27	23.25	
100	PI/2 BPSK	1	271	23.22	23.41	23.33	
100	PI/2 BPSK	135	0	23.22	23.20	23.25	24.0
100	PI/2 BPSK	135	69	23.34	23.39	23.26	24.0
100	PI/2 BPSK	135	138	23.33	23.26	23.22	24.0
100	PI/2 BPSK	270	0	23.27	23.21	23.21	
100	QPSK	1	1	23.24	23.40	23.25	24.0
100	QPSK	1	137	23.24	23.30	23.23	
100	QPSK	1	271	23.29	23.37	23.26	
100	QPSK	135	0	23.25	23.27	23.25	24.0
100	QPSK	135	69	23.22	23.23	23.20	24.0
100	QPSK	135	138	23.25	23.23	23.23	24.0
100	QPSK	270	0	23.25	23.30	23.29	
100	16QAM	1	1	23.23	23.40	23.25	24.0
100	64QAM	1	1	22.72	22.89	22.77	23.7
100	256QAM	1	1	21.06	21.20	21.07	21.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	23.33	23.38	23.32	24.0
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	23.28	23.40	23.26	24.0
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.25	23.32	23.27	24.0
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.32	23.39	23.31	24.0
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.27	23.39	23.35	24.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	23.23	23.32	23.31	24.0
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.33	23.35	23.25	24.0
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.27	23.39	23.32	24.0
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	23.31	23.36	23.33	24.0
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	23.32	23.40	23.26	24.0
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.25	23.39	23.30	24.0



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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	24.73	24.89	24.74	25.3
100	PI/2 BPSK	1	137	24.30	24.35	24.33	
100	PI/2 BPSK	1	271	24.71	24.80	24.61	
100	PI/2 BPSK	135	0	24.24	24.52	24.38	25.3
100	PI/2 BPSK	135	69	24.38	24.62	24.53	25.3
100	PI/2 BPSK	135	138	24.32	24.61	24.44	25.3
100	PI/2 BPSK	270	0	24.41	24.42	24.41	
100	QPSK	1	1	24.64	24.74	24.48	25.3
100	QPSK	1	137	24.27	24.33	24.14	
100	QPSK	1	271	24.69	24.73	24.61	
100	QPSK	135	0	23.84	23.92	23.77	25.2
100	QPSK	135	69	24.34	24.34	24.17	25.3
100	QPSK	135	138	23.86	23.97	23.99	25.2
100	QPSK	270	0	23.92	24.00	23.83	
100	16QAM	1	1	24.06	24.16	23.92	25.2
100	64QAM	1	1	22.55	22.66	22.55	23.7
100	256QAM	1	1	20.72	20.86	20.86	21.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.67	24.65	24.53	25.3
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.48	24.80	24.70	25.3
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.71	24.72	24.55	25.3
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.55	24.80	24.80	25.3
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.73	24.77	24.55	25.3
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.48	24.79	24.74	25.3
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.72	24.76	24.69	25.3
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.71	24.72	24.56	25.3
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.52	24.69	24.62	25.3
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.57	24.73	24.65	25.3
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.66	24.78	24.73	25.3



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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					633332		25.1
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.24		25.1
100	PI/2 BPSK	1	137		23.98		
100	PI/2 BPSK	1	271		24.19		
100	PI/2 BPSK	135	0		23.56		24.6
100	PI/2 BPSK	135	69		23.95		25.1
100	PI/2 BPSK	135	138		23.55		24.6
100	PI/2 BPSK	270	0		23.46		
100	QPSK	1	1		24.16		25.1
100	QPSK	1	137		23.92		
100	QPSK	1	271		24.15		
100	QPSK	135	0		22.98		24.1
100	QPSK	135	69		23.95		25.1
100	QPSK	135	138		23.15		24.1
100	QPSK	270	0		22.97		
100	16QAM	1	1		23.05		24.1
100	64QAM	1	1		21.56		22.6
100	256QAM	1	1		19.78		20.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.08	24.10	24.08	25.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.04	24.11	24.05	25.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.15	24.22	24.23	25.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.05	24.06	24.13	25.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.11	24.09	24.24	25.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.06	24.05	24.07	25.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.10	24.21	24.08	25.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.07	24.21	24.23	25.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.04	24.07	24.06	25.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.19	24.23	24.08	25.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.06	24.05	24.23	25.1



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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		13.78		14.6
100	PI/2 BPSK	1	137		13.64		
100	PI/2 BPSK	1	271		13.77		
100	PI/2 BPSK	135	0		13.63		14.6
100	PI/2 BPSK	135	69		13.69		14.6
100	PI/2 BPSK	135	138		13.60		14.6
100	PI/2 BPSK	270	0		13.61		
100	QPSK	1	1		13.77		
100	QPSK	1	137		13.60		14.6
100	QPSK	1	271		13.70		
100	QPSK	135	0		13.55		
100	QPSK	135	69		13.57		14.6
100	QPSK	135	138		13.66		14.6
100	QPSK	270	0		13.56		
100	16QAM	1	1		13.72		
100	64QAM	1	1		13.68		14.6
100	256QAM	1	1		13.69		14.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	13.68	13.77	13.61	14.6
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	13.66	13.76	13.64	14.6
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	13.70	13.68	13.62	14.6
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	13.67	13.70	13.64	14.6
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	13.63	13.77	13.64	14.6
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	13.69	13.73	13.62	14.6
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	13.67	13.69	13.61	14.6
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	13.62	13.69	13.62	14.6
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	13.72	13.69	13.60	14.6
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	13.67	13.70	13.66	14.6
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	13.72	13.75	13.59	14.6



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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					633332		25.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.50		
100	PI/2 BPSK	1	137		24.33		
100	PI/2 BPSK	1	271		24.46		
100	PI/2 BPSK	135	0		23.77		24.5
100	PI/2 BPSK	135	69		24.30		25.0
100	PI/2 BPSK	135	138		23.85		24.5
100	PI/2 BPSK	270	0		23.82		
100	QPSK	1	1		24.47		25.0
100	QPSK	1	137		24.24		
100	QPSK	1	271		24.44		
100	QPSK	135	0		23.25		24.0
100	QPSK	135	69		24.27		25.0
100	QPSK	135	138		23.29		24.0
100	QPSK	270	0		23.31		
100	16QAM	1	1		23.38		24.0
100	64QAM	1	1		21.91		22.5
100	256QAM	1	1		20.13		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.41	24.48	24.45	25.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.46	24.36	24.39	25.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.46	24.47	24.35	25.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.33	24.41	24.44	25.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.36	24.46	24.40	25.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.48	24.40	24.48	25.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.49	24.45	24.41	25.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.32	24.44	24.30	25.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.46	24.30	24.30	25.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.43	24.31	24.39	25.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.40	24.41	24.48	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		22.50		23.5
100	PI/2 BPSK	1	137		22.28		
100	PI/2 BPSK	1	271		22.47		
100	PI/2 BPSK	135	0		22.32		23.5
100	PI/2 BPSK	135	69		22.33		23.5
100	PI/2 BPSK	135	138		22.30		23.5
100	PI/2 BPSK	270	0		22.34		
100	QPSK	1	1		22.49		23.5
100	QPSK	1	137		22.23		
100	QPSK	1	271		22.44		
100	QPSK	135	0		22.32		23.5
100	QPSK	135	69		22.26		23.5
100	QPSK	135	138		22.32		23.5
100	QPSK	270	0		22.29		
100	16QAM	1	1		22.43		23.5
100	64QAM	1	1		21.55		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	22.30	22.40	22.35	23.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.46	22.47	22.47	23.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.33	22.38	22.47	23.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.49	22.33	22.45	23.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.34	22.32	22.35	23.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.30	22.44	22.33	23.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.45	22.37	22.49	23.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.41	22.37	22.48	23.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.33	22.47	22.37	23.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.37	22.47	22.48	23.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.35	22.33	22.48	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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		13.78		13.8
100	PI/2 BPSK	1	137		13.64		
100	PI/2 BPSK	1	271		13.77		
100	PI/2 BPSK	135	0		13.63		13.8
100	PI/2 BPSK	135	69		13.69		13.8
100	PI/2 BPSK	135	138		13.60		13.8
100	PI/2 BPSK	270	0		13.61		
100	QPSK	1	1		13.77		
100	QPSK	1	137		13.60		13.8
100	QPSK	1	271		13.70		
100	QPSK	135	0		13.55		
100	QPSK	135	69		13.57		13.8
100	QPSK	135	138		13.66		13.8
100	QPSK	270	0		13.56		
100	16QAM	1	1		13.72		
100	64QAM	1	1		13.68		13.8
100	256QAM	1	1		13.69		13.8
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	13.68	13.77	13.61	13.8
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	13.66	13.76	13.64	13.8
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	13.70	13.68	13.62	13.8
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	13.67	13.70	13.64	13.8
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	13.63	13.77	13.64	13.8
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	13.69	13.73	13.62	13.8
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	13.67	13.69	13.61	13.8
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	13.62	13.69	13.62	13.8
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	13.72	13.69	13.60	13.8
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	13.67	13.70	13.66	13.8
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	13.72	13.75	13.59	13.8



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.50		22.7
100	PI/2 BPSK	1	137		22.28		
100	PI/2 BPSK	1	271		22.47		
100	PI/2 BPSK	135	0		22.32		22.7
100	PI/2 BPSK	135	69		22.33		22.7
100	PI/2 BPSK	135	138		22.30		22.7
100	PI/2 BPSK	270	0		22.34		
100	QPSK	1	1		22.49		22.7
100	QPSK	1	137		22.23		
100	QPSK	1	271		22.44		
100	QPSK	135	0		22.32		22.7
100	QPSK	135	69		22.26		22.7
100	QPSK	135	138		22.32		22.7
100	QPSK	270	0		22.29		
100	16QAM	1	1		22.43		22.7
100	64QAM	1	1		21.55		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	22.30	22.40	22.35	22.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.46	22.47	22.47	22.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.33	22.38	22.47	22.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.49	22.33	22.45	22.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.34	22.32	22.35	22.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.30	22.44	22.33	22.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.45	22.37	22.49	22.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.41	22.37	22.48	22.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.33	22.47	22.37	22.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.37	22.47	22.48	22.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.35	22.33	22.48	22.7



<FR1 n77_Ant 6_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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.61		21.7
100	PI/2 BPSK	1	137		21.40		
100	PI/2 BPSK	1	271		21.51		
100	PI/2 BPSK	135	0		21.26		21.7
100	PI/2 BPSK	135	69		21.43		21.7
100	PI/2 BPSK	135	138		21.34		21.7
100	PI/2 BPSK	270	0		21.34		
100	QPSK	1	1		21.42		21.7
100	QPSK	1	137		21.28		
100	QPSK	1	271		21.50		
100	QPSK	135	0		21.23		21.7
100	QPSK	135	69		21.39		21.7
100	QPSK	135	138		21.35		21.7
100	QPSK	270	0		21.37		
100	16QAM	1	1		21.40		21.7
100	64QAM	1	1		21.05		21.7
100	256QAM	1	1		19.21		20.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.54	21.54	21.53	21.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.49	21.55	21.50	21.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.54	21.55	21.54	21.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.54	21.53	21.49	21.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.52	21.58	21.49	21.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.55	21.51	21.47	21.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.52	21.55	21.55	21.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.52	21.54	21.47	21.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.57	21.52	21.52	21.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.51	21.52	21.47	21.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.49	21.60	21.49	21.7



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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		20.8
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.48		20.8
100	PI/2 BPSK	1	137		20.45		
100	PI/2 BPSK	1	271		20.46		20.8
100	PI/2 BPSK	135	0		20.35		
100	PI/2 BPSK	135	69		20.43		20.8
100	PI/2 BPSK	135	138		20.40		
100	PI/2 BPSK	270	0		20.43		20.8
100	QPSK	1	1		20.37		
100	QPSK	1	137		20.41		20.8
100	QPSK	1	271		20.38		
100	QPSK	135	0		20.43		20.8
100	QPSK	135	69		20.44		
100	QPSK	135	138		20.46		20.8
100	QPSK	270	0		20.42		
100	16QAM	1	1		20.41		20.8
100	64QAM	1	1		20.20		
100	256QAM	1	1		18.44		19.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.41	20.45	20.32	20.8
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.40	20.44	20.42	20.8
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.42	20.43	20.39	20.8
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.44	20.39	20.43	20.8
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.42	20.41	20.44	20.8
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.40	20.38	20.45	20.8
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.41	20.47	20.42	20.8
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.43	20.47	20.47	20.8
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.43	20.39	20.47	20.8
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.44	20.46	20.34	20.8
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.40	20.43	20.44	20.8



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.45		21.0
100	PI/2 BPSK	1	137		20.23		
100	PI/2 BPSK	1	271		20.43		
100	PI/2 BPSK	135	0		20.21		21.0
100	PI/2 BPSK	135	69		20.33		21.0
100	PI/2 BPSK	135	138		20.22		21.0
100	PI/2 BPSK	270	0		20.28		
100	QPSK	1	1		20.41		21.0
100	QPSK	1	137		20.23		
100	QPSK	1	271		20.43		
100	QPSK	135	0		20.24		21.0
100	QPSK	135	69		20.20		21.0
100	QPSK	135	138		20.23		21.0
100	QPSK	270	0		20.23		
100	16QAM	1	1		20.35		21.0
100	64QAM	1	1		20.34		21.0
100	256QAM	1	1		20.03		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.35	20.38	20.43	21.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.39	20.40	20.39	21.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.39	20.37	20.37	21.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.36	20.38	20.44	21.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.37	20.35	20.38	21.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.41	20.42	20.38	21.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.36	20.40	20.43	21.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.41	20.37	20.42	21.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.43	20.36	20.40	21.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.35	20.35	20.43	21.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.44	20.40	20.42	21.0



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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		21.84		22.3
100	PI/2 BPSK	1	137		21.80		
100	PI/2 BPSK	1	271		21.83		
100	PI/2 BPSK	135	0		21.66		22.3
100	PI/2 BPSK	135	69		21.80		22.3
100	PI/2 BPSK	135	138		21.75		22.3
100	PI/2 BPSK	270	0		21.65		
100	QPSK	1	1		21.76		22.3
100	QPSK	1	137		21.68		
100	QPSK	1	271		21.82		
100	QPSK	135	0		21.71		22.3
100	QPSK	135	69		21.83		22.3
100	QPSK	135	138		21.66		22.3
100	QPSK	270	0		21.67		
100	16QAM	1	1		21.78		22.3
100	64QAM	1	1		21.39		22.3
100	256QAM	1	1		19.59		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.68	21.83	21.81	22.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.66	21.69	21.71	22.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.80	21.72	21.73	22.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.82	21.67	21.71	22.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.76	21.73	21.70	22.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.66	21.75	21.66	22.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.79	21.80	21.83	22.3
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.82	21.80	21.67	22.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.72	21.78	21.75	22.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.69	21.66	21.73	22.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.68	21.65	21.67	22.3



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.61		22.5
100	PI/2 BPSK	1	137		21.40		
100	PI/2 BPSK	1	271		21.51		
100	PI/2 BPSK	135	0		21.26		22.5
100	PI/2 BPSK	135	69		21.43		22.5
100	PI/2 BPSK	135	138		21.34		22.5
100	PI/2 BPSK	270	0		21.34		
100	QPSK	1	1		21.42		
100	QPSK	1	137		21.28		22.5
100	QPSK	1	271		21.50		
100	QPSK	135	0		21.23		
100	QPSK	135	69		21.39		22.5
100	QPSK	135	138		21.35		22.5
100	QPSK	270	0		21.37		
100	16QAM	1	1		21.40		
100	64QAM	1	1		21.05		22.5
100	256QAM	1	1		19.21		20.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.54	21.54	21.53	22.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.49	21.55	21.50	22.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.54	21.55	21.54	22.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.54	21.53	21.49	22.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.52	21.58	21.49	22.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.55	21.51	21.47	22.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.52	21.55	21.55	22.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.52	21.54	21.47	22.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.57	21.52	21.52	22.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.51	21.52	21.47	22.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.49	21.60	21.49	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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.48		21.6
100	PI/2 BPSK	1	137		20.45		
100	PI/2 BPSK	1	271		20.46		
100	PI/2 BPSK	135	0		20.35		21.6
100	PI/2 BPSK	135	69		20.43		21.6
100	PI/2 BPSK	135	138		20.40		21.6
100	PI/2 BPSK	270	0		20.43		
100	QPSK	1	1		20.37		21.6
100	QPSK	1	137		20.41		
100	QPSK	1	271		20.38		
100	QPSK	135	0		20.43		21.6
100	QPSK	135	69		20.44		21.6
100	QPSK	135	138		20.46		21.6
100	QPSK	270	0		20.42		
100	16QAM	1	1		20.41		21.6
100	64QAM	1	1		20.20		21.6
100	256QAM	1	1		18.44		19.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.41	20.45	20.32	21.6
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.40	20.44	20.42	21.6
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.42	20.43	20.39	21.6
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.44	20.39	20.43	21.6
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.42	20.41	20.44	21.6
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.40	20.38	20.45	21.6
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.41	20.47	20.42	21.6
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.43	20.47	20.47	21.6
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.43	20.39	20.47	21.6
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.44	20.46	20.34	21.6
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.40	20.43	20.44	21.6



<FR1 n77_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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.45		21.8
100	PI/2 BPSK	1	137		20.23		
100	PI/2 BPSK	1	271		20.43		
100	PI/2 BPSK	135	0		20.21		21.8
100	PI/2 BPSK	135	69		20.33		21.8
100	PI/2 BPSK	135	138		20.22		21.8
100	PI/2 BPSK	270	0		20.28		
100	QPSK	1	1		20.41		21.8
100	QPSK	1	137		20.23		
100	QPSK	1	271		20.43		
100	QPSK	135	0		20.24		21.8
100	QPSK	135	69		20.20		21.8
100	QPSK	135	138		20.23		21.8
100	QPSK	270	0		20.23		
100	16QAM	1	1		20.35		21.8
100	64QAM	1	1		20.34		21.8
100	256QAM	1	1		20.03		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.35	20.38	20.43	21.8
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.39	20.40	20.39	21.8
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.39	20.37	20.37	21.8
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.36	20.38	20.44	21.8
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.37	20.35	20.38	21.8
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.41	20.42	20.38	21.8
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.36	20.40	20.43	21.8
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.41	20.37	20.42	21.8
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.43	20.36	20.40	21.8
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.35	20.35	20.43	21.8
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.44	20.40	20.42	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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.84		23.1
100	PI/2 BPSK	1	137		21.80		
100	PI/2 BPSK	1	271		21.83		
100	PI/2 BPSK	135	0		21.66		23.1
100	PI/2 BPSK	135	69		21.80		23.1
100	PI/2 BPSK	135	138		21.75		23.1
100	PI/2 BPSK	270	0		21.65		
100	QPSK	1	1		21.76		
100	QPSK	1	137		21.68		23.1
100	QPSK	1	271		21.82		
100	QPSK	135	0		21.71		
100	QPSK	135	69		21.83		23.1
100	QPSK	135	138		21.66		23.1
100	QPSK	270	0		21.67		
100	16QAM	1	1		21.78		
100	64QAM	1	1		21.39		22.5
100	256QAM	1	1		19.59		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.68	21.83	21.81	23.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.66	21.69	21.71	23.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.80	21.72	21.73	23.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.82	21.67	21.71	23.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.76	21.73	21.70	23.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.66	21.75	21.66	23.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.79	21.80	21.83	23.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.82	21.80	21.67	23.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.72	21.78	21.75	23.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.69	21.66	21.73	23.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.68	21.65	21.67	23.1



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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		21.61		21.7
100	PI/2 BPSK	1	137		21.40		
100	PI/2 BPSK	1	271		21.51		
100	PI/2 BPSK	135	0		21.26		21.7
100	PI/2 BPSK	135	69		21.43		21.7
100	PI/2 BPSK	135	138		21.34		21.7
100	PI/2 BPSK	270	0		21.34		
100	QPSK	1	1		21.42		21.7
100	QPSK	1	137		21.28		
100	QPSK	1	271		21.50		
100	QPSK	135	0		21.23		21.7
100	QPSK	135	69		21.39		21.7
100	QPSK	135	138		21.35		21.7
100	QPSK	270	0		21.37		
100	16QAM	1	1		21.40		21.7
100	64QAM	1	1		21.05		21.7
100	256QAM	1	1		19.21		20.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.54	21.54	21.53	21.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.49	21.55	21.50	21.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.54	21.55	21.54	21.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.54	21.53	21.49	21.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.52	21.58	21.49	21.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.55	21.51	21.47	21.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.52	21.55	21.55	21.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.52	21.54	21.47	21.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.57	21.52	21.52	21.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.51	21.52	21.47	21.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.49	21.60	21.49	21.7



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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		20.45		21.0
100	PI/2 BPSK	1	137		20.23		
100	PI/2 BPSK	1	271		20.43		
100	PI/2 BPSK	135	0		20.21		21.0
100	PI/2 BPSK	135	69		20.33		21.0
100	PI/2 BPSK	135	138		20.22		21.0
100	PI/2 BPSK	270	0		20.28		
100	QPSK	1	1		20.41		21.0
100	QPSK	1	137		20.23		
100	QPSK	1	271		20.43		
100	QPSK	135	0		20.24		21.0
100	QPSK	135	69		20.20		21.0
100	QPSK	135	138		20.23		21.0
100	QPSK	270	0		20.23		
100	16QAM	1	1		20.35		21.0
100	64QAM	1	1		20.34		21.0
100	256QAM	1	1		20.03		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.35	20.38	20.43	21.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.39	20.40	20.39	21.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.39	20.37	20.37	21.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.36	20.38	20.44	21.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.37	20.35	20.38	21.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.41	20.42	20.38	21.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.36	20.40	20.43	21.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.41	20.37	20.42	21.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.43	20.36	20.40	21.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.35	20.35	20.43	21.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.44	20.40	20.42	21.0



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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		21.84		22.3
100	PI/2 BPSK	1	137		21.80		
100	PI/2 BPSK	1	271		21.83		
100	PI/2 BPSK	135	0		21.66		22.3
100	PI/2 BPSK	135	69		21.80		22.3
100	PI/2 BPSK	135	138		21.75		22.3
100	PI/2 BPSK	270	0		21.65		
100	QPSK	1	1		21.76		22.3
100	QPSK	1	137		21.68		
100	QPSK	1	271		21.82		
100	QPSK	135	0		21.71		22.3
100	QPSK	135	69		21.83		22.3
100	QPSK	135	138		21.66		22.3
100	QPSK	270	0		21.67		
100	16QAM	1	1		21.78		22.3
100	64QAM	1	1		21.39		22.3
100	256QAM	1	1		19.59		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.68	21.83	21.81	22.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.66	21.69	21.71	22.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.80	21.72	21.73	22.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.82	21.67	21.71	22.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.76	21.73	21.70	22.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.66	21.75	21.66	22.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.79	21.80	21.83	22.3
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.82	21.80	21.67	22.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.72	21.78	21.75	22.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.69	21.66	21.73	22.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.68	21.65	21.67	22.3



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		26.48		27.5
100	PI/2 BPSK	1	137		26.32		
100	PI/2 BPSK	1	271		26.41		
100	PI/2 BPSK	135	0		25.95		27.0
100	PI/2 BPSK	135	69		26.33		27.5
100	PI/2 BPSK	135	138		25.93		27.0
100	PI/2 BPSK	270	0		25.86		
100	QPSK	1	1		26.42		27.5
100	QPSK	1	137		26.30		
100	QPSK	1	271		26.42		
100	QPSK	135	0		25.31		26.5
100	QPSK	135	69		26.31		27.5
100	QPSK	135	138		25.54		26.5
100	QPSK	270	0		25.37		
100	16QAM	1	1		25.42		26.5
100	64QAM	1	1		23.89		25.0
100	256QAM	1	1		22.25		23.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	26.47	26.47	26.28	27.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	26.33	26.32	26.37	27.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	26.29	26.42	26.46	27.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	26.37	26.33	26.35	27.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	26.32	26.29	26.47	27.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	26.29	26.28	26.45	27.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	26.37	26.40	26.38	27.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	26.34	26.34	26.34	27.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	26.44	26.30	26.42	27.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	26.37	26.42	26.35	27.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	26.31	26.43	26.37	27.5



<FR1 n77_HPUE_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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		16.79		17.6
100	PI/2 BPSK	1	137		16.64		
100	PI/2 BPSK	1	271		16.69		
100	PI/2 BPSK	135	0		16.67		17.6
100	PI/2 BPSK	135	69		16.64		17.6
100	PI/2 BPSK	135	138		16.71		17.6
100	PI/2 BPSK	270	0		16.68		
100	QPSK	1	1		16.69		17.6
100	QPSK	1	137		16.58		
100	QPSK	1	271		16.75		
100	QPSK	135	0		16.68		17.6
100	QPSK	135	69		16.63		17.6
100	QPSK	135	138		16.72		17.6
100	QPSK	270	0		16.68		
100	16QAM	1	1		16.78		17.6
100	64QAM	1	1		16.70		17.6
100	256QAM	1	1		16.73		17.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	16.67	16.70	16.61	17.6
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	16.66	16.75	16.61	17.6
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	16.68	16.70	16.55	17.6
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	16.67	16.77	16.62	17.6
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	16.64	16.70	16.53	17.6
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	16.70	16.75	16.58	17.6
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	16.64	16.72	16.53	17.6
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	16.69	16.78	16.59	17.6
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	16.62	16.78	16.63	17.6
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	16.62	16.70	16.54	17.6
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	16.68	16.76	16.62	17.6



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		25.61		26.2
100	PI/2 BPSK	1	137		25.36		
100	PI/2 BPSK	1	271		25.60		
100	PI/2 BPSK	135	0		24.67		25.7
100	PI/2 BPSK	135	69		25.36		26.2
100	PI/2 BPSK	135	138		24.71		25.7
100	PI/2 BPSK	270	0		24.69		
100	QPSK	1	1		25.55		26.2
100	QPSK	1	137		25.34		
100	QPSK	1	271		25.60		
100	QPSK	135	0		24.16		25.2
100	QPSK	135	69		25.34		26.2
100	QPSK	135	138		24.22		25.2
100	QPSK	270	0		24.23		
100	16QAM	1	1		24.34		25.2
100	64QAM	1	1		22.81		23.7
100	256QAM	1	1		21.13		21.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	25.44	25.41	25.51	26.2
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	25.46	25.60	25.49	26.2
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	25.56	25.47	25.53	26.2
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	25.41	25.41	25.54	26.2
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	25.49	25.57	25.55	26.2
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	25.43	25.54	25.54	26.2
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	25.47	25.42	25.41	26.2
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	25.44	25.56	25.45	26.2
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	25.60	25.54	25.58	26.2
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	25.58	25.60	25.53	26.2
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	25.55	25.50	25.43	26.2



<FR1 n77_HPUE_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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		25.25		26.2
100	PI/2 BPSK	1	137		25.01		
100	PI/2 BPSK	1	271		25.18		
100	PI/2 BPSK	135	0		24.33		25.7
100	PI/2 BPSK	135	69		25.00		26.2
100	PI/2 BPSK	135	138		24.31		25.7
100	PI/2 BPSK	270	0		24.35		
100	QPSK	1	1		25.24		26.2
100	QPSK	1	137		24.98		
100	QPSK	1	271		25.18		
100	QPSK	135	0		23.82		25.2
100	QPSK	135	69		25.01		26.2
100	QPSK	135	138		23.82		25.2
100	QPSK	270	0		23.84		
100	16QAM	1	1		24.04		25.2
100	64QAM	1	1		22.52		23.7
100	256QAM	1	1		20.85		21.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	25.19	25.08	25.16	26.2
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	25.24	25.20	25.24	26.2
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	25.22	25.20	25.05	26.2
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	25.08	25.20	25.24	26.2
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	25.13	25.11	25.07	26.2
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	25.24	25.09	25.08	26.2
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	25.07	25.21	25.22	26.2
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	25.20	25.09	25.08	26.2
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	25.21	25.18	25.13	26.2
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	25.12	25.08	25.22	26.2
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	25.20	25.05	25.07	26.2



<FR1 n77_HPUE_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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		16.79		16.8
100	PI/2 BPSK	1	137		16.64		
100	PI/2 BPSK	1	271		16.69		
100	PI/2 BPSK	135	0		16.67		16.8
100	PI/2 BPSK	135	69		16.64		16.8
100	PI/2 BPSK	135	138		16.71		16.8
100	PI/2 BPSK	270	0		16.68		
100	QPSK	1	1		16.69		16.8
100	QPSK	1	137		16.58		
100	QPSK	1	271		16.75		
100	QPSK	135	0		16.68		16.8
100	QPSK	135	69		16.63		16.8
100	QPSK	135	138		16.72		16.8
100	QPSK	270	0		16.68		
100	16QAM	1	1		16.78		16.8
100	64QAM	1	1		16.70		16.8
100	256QAM	1	1		16.73		16.8
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	16.67	16.70	16.61	16.8
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	16.66	16.75	16.61	16.8
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	16.68	16.70	16.55	16.8
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	16.67	16.77	16.62	16.8
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	16.64	16.70	16.53	16.8
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	16.70	16.75	16.58	16.8
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	16.64	16.72	16.53	16.8
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	16.69	16.78	16.59	16.8
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	16.62	16.78	16.63	16.8
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	16.62	16.70	16.54	16.8
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	16.68	16.76	16.62	16.8



<FR1 n77_HPUE_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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		25.25		25.7
100	PI/2 BPSK	1	137		25.01		
100	PI/2 BPSK	1	271		25.18		
100	PI/2 BPSK	135	0		24.33		25.7
100	PI/2 BPSK	135	69		25.00		25.7
100	PI/2 BPSK	135	138		24.31		25.7
100	PI/2 BPSK	270	0		24.35		
100	QPSK	1	1		25.24		
100	QPSK	1	137		24.98		25.7
100	QPSK	1	271		25.18		
100	QPSK	135	0		23.82		
100	QPSK	135	69		25.01		25.2
100	QPSK	135	138		23.82		25.2
100	QPSK	270	0		23.84		
100	16QAM	1	1		24.04		
100	64QAM	1	1		22.52		23.7
100	256QAM	1	1		20.85		21.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	25.19	25.08	25.16	25.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	25.24	25.20	25.24	25.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	25.22	25.20	25.05	25.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	25.08	25.20	25.24	25.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	25.13	25.11	25.07	25.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	25.24	25.09	25.08	25.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	25.07	25.21	25.22	25.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	25.20	25.09	25.08	25.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	25.21	25.18	25.13	25.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	25.12	25.08	25.22	25.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	25.20	25.05	25.07	25.7



<FR1 n77_HPUE_Ant 6_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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.66		24.7
100	PI/2 BPSK	1	137		24.38		
100	PI/2 BPSK	1	271		24.46		
100	PI/2 BPSK	135	0		24.35		24.7
100	PI/2 BPSK	135	69		24.45		24.7
100	PI/2 BPSK	135	138		24.33		24.7
100	PI/2 BPSK	270	0		24.38		
100	QPSK	1	1		24.57		24.7
100	QPSK	1	137		24.37		
100	QPSK	1	271		24.54		
100	QPSK	135	0		24.40		24.7
100	QPSK	135	69		24.34		24.7
100	QPSK	135	138		24.31		24.7
100	QPSK	270	0		24.41		
100	16QAM	1	1		24.08		24.7
100	64QAM	1	1		23.56		24.7
100	256QAM	1	1		21.91		23.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.60	24.65	24.61	24.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.64	24.59	24.56	24.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.62	24.57	24.57	24.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.63	24.59	24.57	24.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.60	24.62	24.60	24.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.60	24.64	24.57	24.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.64	24.64	24.56	24.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.56	24.60	24.57	24.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.55	24.56	24.58	24.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.59	24.63	24.52	24.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.62	24.60	24.56	24.7



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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		23.48		23.8
100	PI/2 BPSK	1	137		23.19		
100	PI/2 BPSK	1	271		23.31		
100	PI/2 BPSK	135	0		23.23		23.8
100	PI/2 BPSK	135	69		23.39		23.8
100	PI/2 BPSK	135	138		23.22		23.8
100	PI/2 BPSK	270	0		23.29		
100	QPSK	1	1		23.21		23.8
100	QPSK	1	137		23.17		
100	QPSK	1	271		23.31		
100	QPSK	135	0		23.23		23.8
100	QPSK	135	69		23.24		23.8
100	QPSK	135	138		23.28		23.8
100	QPSK	270	0		23.28		
100	16QAM	1	1		23.37		23.8
100	64QAM	1	1		22.92		23.8
100	256QAM	1	1		21.28		22.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.27	23.29	23.32	23.8
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.13	23.29	23.16	23.8
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.25	23.18	23.25	23.8
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.29	23.19	23.25	23.8
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.21	23.21	23.33	23.8
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.37	23.16	23.32	23.8
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.34	23.24	23.28	23.8
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.27	23.29	23.30	23.8
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.18	23.29	23.19	23.8
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.23	23.37	23.33	23.8
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.26	23.27	23.37	23.8



<FR1 n77_HPUE_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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.40		24.0
100	PI/2 BPSK	1	137		23.21		
100	PI/2 BPSK	1	271		23.35		
100	PI/2 BPSK	135	0		23.22		24.0
100	PI/2 BPSK	135	69		23.32		24.0
100	PI/2 BPSK	135	138		23.21		24.0
100	PI/2 BPSK	270	0		23.24		
100	QPSK	1	1		23.24		24.0
100	QPSK	1	137		23.24		
100	QPSK	1	271		23.30		
100	QPSK	135	0		23.27		24.0
100	QPSK	135	69		23.27		24.0
100	QPSK	135	138		23.20		24.0
100	QPSK	270	0		23.28		
100	16QAM	1	1		23.23		24.0
100	64QAM	1	1		22.73		23.7
100	256QAM	1	1		21.03		21.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.30	23.33	23.20	24.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.30	23.27	23.24	24.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.36	23.34	23.24	24.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.36	23.35	23.20	24.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.32	23.28	23.23	24.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.30	23.26	23.26	24.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.33	23.36	23.24	24.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.36	23.34	23.24	24.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.36	23.36	23.23	24.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.37	23.31	23.20	24.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.33	23.26	23.21	24.0



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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		24.96		25.3
100	PI/2 BPSK	1	137		24.79		
100	PI/2 BPSK	1	271		24.91		
100	PI/2 BPSK	135	0		24.36		25.3
100	PI/2 BPSK	135	69		24.68		25.3
100	PI/2 BPSK	135	138		24.31		25.3
100	PI/2 BPSK	270	0		24.52		
100	QPSK	1	1		24.91		25.3
100	QPSK	1	137		24.60		
100	QPSK	1	271		24.81		
100	QPSK	135	0		23.72		25.2
100	QPSK	135	69		24.65		25.3
100	QPSK	135	138		23.83		25.2
100	QPSK	270	0		23.83		
100	16QAM	1	1		23.99		25.2
100	64QAM	1	1		22.44		23.7
100	256QAM	1	1		20.92		21.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.87	24.88	24.81	25.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.89	24.89	24.95	25.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.89	24.86	24.66	25.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.88	24.94	24.95	25.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.85	24.86	24.77	25.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.85	24.76	24.88	25.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.79	24.89	24.86	25.3
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.88	24.74	24.87	25.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.90	24.86	24.76	25.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.75	24.72	24.90	25.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.86	24.80	24.84	25.3



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.66		25.5
100	PI/2 BPSK	1	137		24.38		
100	PI/2 BPSK	1	271		24.46		
100	PI/2 BPSK	135	0		24.35		25.5
100	PI/2 BPSK	135	69		24.45		25.5
100	PI/2 BPSK	135	138		24.33		25.5
100	PI/2 BPSK	270	0		24.38		
100	QPSK	1	1		24.57		
100	QPSK	1	137		24.37		25.5
100	QPSK	1	271		24.54		
100	QPSK	135	0		24.40		
100	QPSK	135	69		24.34		25.5
100	QPSK	135	138		24.31		25.5
100	QPSK	270	0		24.41		
100	16QAM	1	1		24.08		
100	64QAM	1	1		23.56		25.0
100	256QAM	1	1		21.91		23.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.60	24.65	24.61	25.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.64	24.59	24.56	25.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.62	24.57	24.57	25.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.63	24.59	24.57	25.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.60	24.62	24.60	25.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.60	24.64	24.57	25.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.64	24.64	24.56	25.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.56	24.60	24.57	25.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.55	24.56	24.58	25.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.59	24.63	24.52	25.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.62	24.60	24.56	25.5



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.48		24.6
100	PI/2 BPSK	1	137		23.19		
100	PI/2 BPSK	1	271		23.31		
100	PI/2 BPSK	135	0		23.23		24.6
100	PI/2 BPSK	135	69		23.39		24.6
100	PI/2 BPSK	135	138		23.22		24.6
100	PI/2 BPSK	270	0		23.29		
100	QPSK	1	1		23.21		
100	QPSK	1	137		23.17		24.6
100	QPSK	1	271		23.31		
100	QPSK	135	0		23.23		
100	QPSK	135	69		23.24		24.6
100	QPSK	135	138		23.28		24.6
100	QPSK	270	0		23.28		
100	16QAM	1	1		23.37		
100	64QAM	1	1		22.92		24.0
100	256QAM	1	1		21.28		22.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.27	23.29	23.32	24.6
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.13	23.29	23.16	24.6
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.25	23.18	23.25	24.6
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.29	23.19	23.25	24.6
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.21	23.21	23.33	24.6
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.37	23.16	23.32	24.6
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.34	23.24	23.28	24.6
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.27	23.29	23.30	24.6
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.18	23.29	23.19	24.6
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.23	23.37	23.33	24.6
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.26	23.27	23.37	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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.40		24.8
100	PI/2 BPSK	1	137		23.21		
100	PI/2 BPSK	1	271		23.35		
100	PI/2 BPSK	135	0		23.22		24.8
100	PI/2 BPSK	135	69		23.32		24.8
100	PI/2 BPSK	135	138		23.21		24.8
100	PI/2 BPSK	270	0		23.24		
100	QPSK	1	1		23.24		24.8
100	QPSK	1	137		23.24		
100	QPSK	1	271		23.30		
100	QPSK	135	0		23.27		24.8
100	QPSK	135	69		23.27		24.8
100	QPSK	135	138		23.20		24.8
100	QPSK	270	0		23.28		
100	16QAM	1	1		23.23		24.8
100	64QAM	1	1		22.73		23.7
100	256QAM	1	1		21.03		21.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.30	23.33	23.20	24.8
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.30	23.27	23.24	24.8
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.36	23.34	23.24	24.8
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.36	23.35	23.20	24.8
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.32	23.28	23.23	24.8
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.30	23.26	23.26	24.8
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.33	23.36	23.24	24.8
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.36	23.34	23.24	24.8
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.36	23.36	23.23	24.8
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.37	23.31	23.20	24.8
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.33	23.26	23.21	24.8



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.96		26.1
100	PI/2 BPSK	1	137		24.79		
100	PI/2 BPSK	1	271		24.91		
100	PI/2 BPSK	135	0		24.36		26.0
100	PI/2 BPSK	135	69		24.68		26.1
100	PI/2 BPSK	135	138		24.31		26.0
100	PI/2 BPSK	270	0		24.52		
100	QPSK	1	1		24.91		26.1
100	QPSK	1	137		24.60		
100	QPSK	1	271		24.81		
100	QPSK	135	0		23.72		25.2
100	QPSK	135	69		24.65		26.1
100	QPSK	135	138		23.83		25.2
100	QPSK	270	0		23.83		
100	16QAM	1	1		23.99		25.2
100	64QAM	1	1		22.44		23.7
100	256QAM	1	1		20.92		21.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.87	24.88	24.81	26.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.89	24.89	24.95	26.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.89	24.86	24.66	26.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.88	24.94	24.95	26.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.85	24.86	24.77	26.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.85	24.76	24.88	26.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.79	24.89	24.86	26.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.88	24.74	24.87	26.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.90	24.86	24.76	26.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.75	24.72	24.90	26.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.86	24.80	24.84	26.1



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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		24.66		24.7
100	PI/2 BPSK	1	137		24.38		
100	PI/2 BPSK	1	271		24.46		
100	PI/2 BPSK	135	0		24.35		24.7
100	PI/2 BPSK	135	69		24.45		24.7
100	PI/2 BPSK	135	138		24.33		24.7
100	PI/2 BPSK	270	0		24.38		
100	QPSK	1	1		24.57		
100	QPSK	1	137		24.37		24.7
100	QPSK	1	271		24.54		
100	QPSK	135	0		24.40		
100	QPSK	135	69		24.34		24.7
100	QPSK	135	138		24.31		24.7
100	QPSK	270	0		24.41		
100	16QAM	1	1		24.08		
100	64QAM	1	1		23.56		24.7
100	256QAM	1	1		21.91		23.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.60	24.65	24.61	24.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.64	24.59	24.56	24.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.62	24.57	24.57	24.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.63	24.59	24.57	24.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.60	24.62	24.60	24.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.60	24.64	24.57	24.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.64	24.64	24.56	24.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.56	24.60	24.57	24.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.55	24.56	24.58	24.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.59	24.63	24.52	24.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.62	24.60	24.56	24.7



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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		23.40		24.0
100	PI/2 BPSK	1	137		23.21		
100	PI/2 BPSK	1	271		23.35		
100	PI/2 BPSK	135	0		23.22		24.0
100	PI/2 BPSK	135	69		23.32		24.0
100	PI/2 BPSK	135	138		23.21		24.0
100	PI/2 BPSK	270	0		23.24		
100	QPSK	1	1		23.24		24.0
100	QPSK	1	137		23.24		
100	QPSK	1	271		23.30		
100	QPSK	135	0		23.27		24.0
100	QPSK	135	69		23.27		24.0
100	QPSK	135	138		23.20		24.0
100	QPSK	270	0		23.28		
100	16QAM	1	1		23.23		24.0
100	64QAM	1	1		22.73		23.7
100	256QAM	1	1		21.03		21.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.30	23.33	23.20	24.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.30	23.27	23.24	24.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.36	23.34	23.24	24.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.36	23.35	23.20	24.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.32	23.28	23.23	24.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.30	23.26	23.26	24.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.33	23.36	23.24	24.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.36	23.34	23.24	24.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.36	23.36	23.23	24.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.37	23.31	23.20	24.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.33	23.26	23.21	24.0



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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		24.96		25.3
100	PI/2 BPSK	1	137		24.79		
100	PI/2 BPSK	1	271		24.91		
100	PI/2 BPSK	135	0		24.36		25.3
100	PI/2 BPSK	135	69		24.68		25.3
100	PI/2 BPSK	135	138		24.31		25.3
100	PI/2 BPSK	270	0		24.52		
100	QPSK	1	1		24.91		
100	QPSK	1	137		24.60		25.3
100	QPSK	1	271		24.81		
100	QPSK	135	0		23.72		
100	QPSK	135	69		24.65		25.3
100	QPSK	135	138		23.83		25.2
100	QPSK	270	0		23.83		
100	16QAM	1	1		23.99		
100	64QAM	1	1		22.44		23.7
100	256QAM	1	1		20.92		21.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.87	24.88	24.81	25.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.89	24.89	24.95	25.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.89	24.86	24.66	25.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.88	24.94	24.95	25.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.85	24.86	24.77	25.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.85	24.76	24.88	25.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.79	24.89	24.86	25.3
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.88	24.74	24.87	25.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.90	24.86	24.76	25.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.75	24.72	24.90	25.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.86	24.80	24.84	25.3



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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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		24.30		25.5
100	PI/2 BPSK	1	137		23.98		
100	PI/2 BPSK	1	271		23.96		
100	PI/2 BPSK	135	0		23.62		25.0
100	PI/2 BPSK	135	69		23.99		25.5
100	PI/2 BPSK	135	138		23.55		25.0
100	PI/2 BPSK	270	0		23.52		
100	QPSK	1	1		24.29		
100	QPSK	1	137		23.92		25.5
100	QPSK	1	271		24.22		
100	QPSK	135	0		23.06		
100	QPSK	135	69		23.90		24.5
100	QPSK	135	138		23.02		24.5
100	QPSK	270	0		22.96		
100	16QAM	1	1		23.19		
100	64QAM	1	1		21.75		23.0
100	256QAM	1	1		19.94		21.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.20	24.19	24.22	25.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.15	24.24	24.14	25.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.25	24.25	24.27	25.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.19	24.25	24.29	25.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.20	24.24	24.25	25.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.20	24.18	24.20	25.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.25	24.26	24.26	25.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.15	24.25	24.20	25.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.23	24.14	24.18	25.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.20	24.28	24.13	25.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.16	24.21	24.29	25.5



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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		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		13.53		14.6
100	PI/2 BPSK	1	137		13.46		
100	PI/2 BPSK	1	271		13.52		
100	PI/2 BPSK	135	0		13.43		14.6
100	PI/2 BPSK	135	69		13.49		14.6
100	PI/2 BPSK	135	138		13.47		14.6
100	PI/2 BPSK	270	0		13.52		
100	QPSK	1	1		13.35		
100	QPSK	1	137		13.44		14.6
100	QPSK	1	271		13.50		
100	QPSK	135	0		13.43		
100	QPSK	135	69		13.38		14.6
100	QPSK	135	138		13.49		14.6
100	QPSK	270	0		13.46		
100	16QAM	1	1		13.47		
100	64QAM	1	1		13.39		14.6
100	256QAM	1	1		13.40		14.6
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	13.48	13.46	13.46	14.6
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	13.39	13.35	13.51	14.6
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	13.36	13.50	13.50	14.6
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	13.44	13.49	13.52	14.6
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	13.49	13.37	13.43	14.6
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	13.41	13.44	13.36	14.6
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	13.34	13.42	13.42	14.6
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	13.43	13.39	13.40	14.6
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	13.48	13.42	13.43	14.6
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	13.35	13.52	13.36	14.6
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	13.49	13.48	13.36	14.6



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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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		24.22		25.0
100	PI/2 BPSK	1	137		24.00		
100	PI/2 BPSK	1	271		24.16		
100	PI/2 BPSK	135	0		23.50		24.5
100	PI/2 BPSK	135	69		23.95		25.0
100	PI/2 BPSK	135	138		23.54		24.5
100	PI/2 BPSK	270	0		23.52		
100	QPSK	1	1		24.19		25.0
100	QPSK	1	137		23.99		
100	QPSK	1	271		24.12		
100	QPSK	135	0		22.95		24.0
100	QPSK	135	69		23.95		25.0
100	QPSK	135	138		23.07		24.0
100	QPSK	270	0		23.01		
100	16QAM	1	1		23.11		24.0
100	64QAM	1	1		21.65		22.5
100	256QAM	1	1		19.85		20.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.15	24.06	24.18	25.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.03	24.10	24.02	25.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.09	24.10	24.21	25.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.15	24.10	24.06	25.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.12	24.05	24.07	25.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.15	24.20	24.21	25.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.13	24.09	24.04	25.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.21	24.08	24.02	25.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.08	24.16	24.15	25.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.15	24.09	24.03	25.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.21	24.17	24.16	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		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		22.34		23.5
100	PI/2 BPSK	1	137		22.16		
100	PI/2 BPSK	1	271		22.32		
100	PI/2 BPSK	135	0		21.55		23.5
100	PI/2 BPSK	135	69		22.12		23.5
100	PI/2 BPSK	135	138		21.64		23.5
100	PI/2 BPSK	270	0		21.54		
100	QPSK	1	1		22.17		
100	QPSK	1	137		22.02		23.5
100	QPSK	1	271		22.28		
100	QPSK	135	0		21.99		
100	QPSK	135	69		22.06		23.5
100	QPSK	135	138		22.15		23.5
100	QPSK	270	0		22.06		
100	16QAM	1	1		22.17		
100	64QAM	1	1		21.23		22.5
100	256QAM	1	1		19.38		20.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	22.17	22.29	22.27	23.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	22.30	22.30	22.25	23.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	22.30	22.21	22.15	23.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	22.31	22.21	22.20	23.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	22.28	22.30	22.19	23.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	22.16	22.31	22.17	23.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	22.18	22.18	22.30	23.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	22.17	22.32	22.26	23.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	22.17	22.30	22.21	23.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	22.23	22.24	22.31	23.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	22.28	22.30	22.29	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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		13.53		13.8
100	PI/2 BPSK	1	137		13.46		
100	PI/2 BPSK	1	271		13.52		
100	PI/2 BPSK	135	0		13.43		13.8
100	PI/2 BPSK	135	69		13.49		13.8
100	PI/2 BPSK	135	138		13.47		13.8
100	PI/2 BPSK	270	0		13.52		
100	QPSK	1	1		13.35		
100	QPSK	1	137		13.44		13.8
100	QPSK	1	271		13.50		
100	QPSK	135	0		13.43		
100	QPSK	135	69		13.38		13.8
100	QPSK	135	138		13.49		13.8
100	QPSK	270	0		13.46		
100	16QAM	1	1		13.47		
100	64QAM	1	1		13.39		13.8
100	256QAM	1	1		13.40		13.8
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	13.48	13.46	13.46	13.8
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	13.39	13.35	13.51	13.8
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	13.36	13.50	13.50	13.8
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	13.44	13.49	13.52	13.8
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	13.49	13.37	13.43	13.8
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	13.41	13.44	13.36	13.8
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	13.34	13.42	13.42	13.8
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	13.43	13.39	13.40	13.8
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	13.48	13.42	13.43	13.8
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	13.35	13.52	13.36	13.8
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	13.49	13.48	13.36	13.8



<FR1 n78_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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		22.34		22.7
100	PI/2 BPSK	1	137		22.16		
100	PI/2 BPSK	1	271		22.32		
100	PI/2 BPSK	135	0		21.55		22.7
100	PI/2 BPSK	135	69		22.12		22.7
100	PI/2 BPSK	135	138		21.64		22.7
100	PI/2 BPSK	270	0		21.54		
100	QPSK	1	1		22.17		22.7
100	QPSK	1	137		22.02		
100	QPSK	1	271		22.28		
100	QPSK	135	0		21.99		22.7
100	QPSK	135	69		22.06		22.7
100	QPSK	135	138		22.15		22.7
100	QPSK	270	0		22.06		
100	16QAM	1	1		22.17		22.7
100	64QAM	1	1		21.23		22.5
100	256QAM	1	1		19.38		20.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	22.17	22.29	22.27	22.7
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	22.30	22.30	22.25	22.7
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	22.30	22.21	22.15	22.7
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	22.31	22.21	22.20	22.7
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	22.28	22.30	22.19	22.7
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	22.16	22.31	22.17	22.7
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	22.18	22.18	22.30	22.7
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	22.17	22.32	22.26	22.7
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	22.17	22.30	22.21	22.7
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	22.23	22.24	22.31	22.7
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	22.28	22.30	22.29	22.7



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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		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		21.60		21.7
100	PI/2 BPSK	1	137		21.31		
100	PI/2 BPSK	1	271		21.49		
100	PI/2 BPSK	135	0		21.25		21.7
100	PI/2 BPSK	135	69		21.41		21.7
100	PI/2 BPSK	135	138		21.32		21.7
100	PI/2 BPSK	270	0		21.37		
100	QPSK	1	1		21.34		21.7
100	QPSK	1	137		21.34		
100	QPSK	1	271		21.53		
100	QPSK	135	0		21.27		21.7
100	QPSK	135	69		21.32		21.7
100	QPSK	135	138		21.38		21.7
100	QPSK	270	0		21.28		
100	16QAM	1	1		21.38		21.7
100	64QAM	1	1		21.04		21.7
100	256QAM	1	1		19.15		21.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	21.49	21.50	21.52	21.7
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	21.44	21.55	21.53	21.7
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.53	21.59	21.50	21.7
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	21.46	21.58	21.56	21.7
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	21.50	21.59	21.54	21.7
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	21.45	21.51	21.55	21.7
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	21.51	21.53	21.54	21.7
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	21.43	21.55	21.48	21.7
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	21.48	21.59	21.51	21.7
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	21.43	21.58	21.51	21.7
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	21.49	21.59	21.49	21.7



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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		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		20.36		20.8
100	PI/2 BPSK	1	137		20.31		
100	PI/2 BPSK	1	271		20.15		
100	PI/2 BPSK	135	0		20.25		20.8
100	PI/2 BPSK	135	69		20.31		20.8
100	PI/2 BPSK	135	138		20.28		20.8
100	PI/2 BPSK	270	0		20.32		
100	QPSK	1	1		20.24		
100	QPSK	1	137		20.20		20.8
100	QPSK	1	271		20.34		
100	QPSK	135	0		20.20		
100	QPSK	135	69		20.11		20.8
100	QPSK	135	138		20.25		20.8
100	QPSK	270	0		20.18		
100	16QAM	1	1		20.25		
100	64QAM	1	1		20.25		20.8
100	256QAM	1	1		18.64		19.6
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	20.15	20.30	20.26	20.8
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	20.18	20.22	20.24	20.8
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	20.20	20.21	20.25	20.8
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	20.19	20.21	20.25	20.8
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	20.26	20.27	20.21	20.8
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	20.20	20.31	20.28	20.8
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	20.27	20.35	20.31	20.8
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	20.28	20.25	20.26	20.8
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	20.24	20.21	20.25	20.8
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	20.19	20.30	20.28	20.8
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	20.21	20.33	20.27	20.8



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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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		20.37		21.0
100	PI/2 BPSK	1	137		20.27		
100	PI/2 BPSK	1	271		20.33		
100	PI/2 BPSK	135	0		20.29		21.0
100	PI/2 BPSK	135	69		20.30		21.0
100	PI/2 BPSK	135	138		20.20		21.0
100	PI/2 BPSK	270	0		20.22		
100	QPSK	1	1		20.33		21.0
100	QPSK	1	137		20.21		
100	QPSK	1	271		20.35		
100	QPSK	135	0		20.28		21.0
100	QPSK	135	69		20.21		21.0
100	QPSK	135	138		20.24		21.0
100	QPSK	270	0		20.28		
100	16QAM	1	1		20.31		21.0
100	64QAM	1	1		20.33		21.0
100	256QAM	1	1		20.05		20.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	20.29	20.36	20.21	21.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	20.28	20.33	20.27	21.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	20.26	20.31	20.20	21.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	20.20	20.32	20.22	21.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	20.29	20.35	20.25	21.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	20.25	20.36	20.23	21.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	20.21	20.32	20.22	21.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	20.29	20.27	20.28	21.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	20.20	20.34	20.28	21.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	20.24	20.30	20.20	21.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	20.20	20.35	20.28	21.0



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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		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		21.75		22.3
100	PI/2 BPSK	1	137		21.67		
100	PI/2 BPSK	1	271		21.62		
100	PI/2 BPSK	135	0		21.56		22.3
100	PI/2 BPSK	135	69		21.73		22.3
100	PI/2 BPSK	135	138		21.59		22.3
100	PI/2 BPSK	270	0		21.73		
100	QPSK	1	1		21.57		22.3
100	QPSK	1	137		21.57		
100	QPSK	1	271		21.55		
100	QPSK	135	0		21.70		22.3
100	QPSK	135	69		21.72		22.3
100	QPSK	135	138		21.70		22.3
100	QPSK	270	0		21.74		
100	16QAM	1	1		21.61		22.3
100	64QAM	1	1		21.29		22.3
100	256QAM	1	1		19.51		20.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	21.55	21.57	21.61	22.3
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	21.59	21.67	21.70	22.3
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.71	21.57	21.70	22.3
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	21.60	21.60	21.63	22.3
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	21.64	21.68	21.70	22.3
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	21.64	21.74	21.70	22.3
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	21.57	21.55	21.67	22.3
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	21.68	21.69	21.68	22.3
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	21.57	21.61	21.59	22.3
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	21.69	21.59	21.70	22.3
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	21.57	21.73	21.66	22.3



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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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		21.60		22.5
100	PI/2 BPSK	1	137		21.31		
100	PI/2 BPSK	1	271		21.49		
100	PI/2 BPSK	135	0		21.25		22.5
100	PI/2 BPSK	135	69		21.41		22.5
100	PI/2 BPSK	135	138		21.32		22.5
100	PI/2 BPSK	270	0		21.37		
100	QPSK	1	1		21.34		22.5
100	QPSK	1	137		21.34		
100	QPSK	1	271		21.53		
100	QPSK	135	0		21.27		22.5
100	QPSK	135	69		21.32		22.5
100	QPSK	135	138		21.38		22.5
100	QPSK	270	0		21.28		
100	16QAM	1	1		21.38		22.5
100	64QAM	1	1		21.04		22.5
100	256QAM	1	1		19.15		21.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	21.49	21.50	21.52	22.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	21.44	21.55	21.53	22.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.53	21.59	21.50	22.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	21.46	21.58	21.56	22.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	21.50	21.59	21.54	22.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	21.45	21.51	21.55	22.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	21.51	21.53	21.54	22.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	21.43	21.55	21.48	22.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	21.48	21.59	21.51	22.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	21.43	21.58	21.51	22.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	21.49	21.59	21.49	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		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		20.36		21.6
100	PI/2 BPSK	1	137		20.31		
100	PI/2 BPSK	1	271		20.15		
100	PI/2 BPSK	135	0		20.25		21.6
100	PI/2 BPSK	135	69		20.31		21.6
100	PI/2 BPSK	135	138		20.28		21.6
100	PI/2 BPSK	270	0		20.32		
100	QPSK	1	1		20.24		21.6
100	QPSK	1	137		20.20		
100	QPSK	1	271		20.34		
100	QPSK	135	0		20.20		21.6
100	QPSK	135	69		20.11		21.6
100	QPSK	135	138		20.25		21.6
100	QPSK	270	0		20.18		
100	16QAM	1	1		20.25		21.6
100	64QAM	1	1		20.25		21.6
100	256QAM	1	1		18.64		19.6
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	20.15	20.30	20.26	21.6
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	20.18	20.22	20.24	21.6
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	20.20	20.21	20.25	21.6
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	20.19	20.21	20.25	21.6
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	20.26	20.27	20.21	21.6
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	20.20	20.31	20.28	21.6
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	20.27	20.35	20.31	21.6
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	20.28	20.25	20.26	21.6
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	20.24	20.21	20.25	21.6
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	20.19	20.30	20.28	21.6
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	20.21	20.33	20.27	21.6



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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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		20.37		21.8
100	PI/2 BPSK	1	137		20.27		
100	PI/2 BPSK	1	271		20.33		
100	PI/2 BPSK	135	0		20.29		21.8
100	PI/2 BPSK	135	69		20.30		21.8
100	PI/2 BPSK	135	138		20.20		21.8
100	PI/2 BPSK	270	0		20.22		
100	QPSK	1	1		20.33		21.8
100	QPSK	1	137		20.21		
100	QPSK	1	271		20.35		
100	QPSK	135	0		20.28		21.8
100	QPSK	135	69		20.21		21.8
100	QPSK	135	138		20.24		21.8
100	QPSK	270	0		20.28		
100	16QAM	1	1		20.31		21.8
100	64QAM	1	1		20.33		21.8
100	256QAM	1	1		20.05		20.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	20.29	20.36	20.21	21.8
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	20.28	20.33	20.27	21.8
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	20.26	20.31	20.20	21.8
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	20.20	20.32	20.22	21.8
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	20.29	20.35	20.25	21.8
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	20.25	20.36	20.23	21.8
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	20.21	20.32	20.22	21.8
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	20.29	20.27	20.28	21.8
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	20.20	20.34	20.28	21.8
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	20.24	20.30	20.20	21.8
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	20.20	20.35	20.28	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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		21.75		23.1
100	PI/2 BPSK	1	137		21.67		
100	PI/2 BPSK	1	271		21.62		
100	PI/2 BPSK	135	0		21.56		23.1
100	PI/2 BPSK	135	69		21.73		23.1
100	PI/2 BPSK	135	138		21.59		23.1
100	PI/2 BPSK	270	0		21.73		
100	QPSK	1	1		21.57		23.1
100	QPSK	1	137		21.57		
100	QPSK	1	271		21.55		
100	QPSK	135	0		21.70		23.1
100	QPSK	135	69		21.72		23.1
100	QPSK	135	138		21.70		23.1
100	QPSK	270	0		21.74		
100	16QAM	1	1		21.61		23.1
100	64QAM	1	1		21.29		22.5
100	256QAM	1	1		19.51		20.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	21.55	21.57	21.61	23.1
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	21.59	21.67	21.70	23.1
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.71	21.57	21.70	23.1
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	21.60	21.60	21.63	23.1
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	21.64	21.68	21.70	23.1
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	21.64	21.74	21.70	23.1
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	21.57	21.55	21.67	23.1
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	21.68	21.69	21.68	23.1
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	21.57	21.61	21.59	23.1
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	21.69	21.59	21.70	23.1
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	21.57	21.73	21.66	23.1



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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		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		21.60		21.7
100	PI/2 BPSK	1	137		21.31		
100	PI/2 BPSK	1	271		21.49		
100	PI/2 BPSK	135	0		21.25		21.7
100	PI/2 BPSK	135	69		21.41		21.7
100	PI/2 BPSK	135	138		21.32		21.7
100	PI/2 BPSK	270	0		21.37		
100	QPSK	1	1		21.34		21.7
100	QPSK	1	137		21.34		
100	QPSK	1	271		21.53		
100	QPSK	135	0		21.27		21.7
100	QPSK	135	69		21.32		21.7
100	QPSK	135	138		21.38		21.7
100	QPSK	270	0		21.28		
100	16QAM	1	1		21.38		21.7
100	64QAM	1	1		21.04		21.7
100	256QAM	1	1		19.15		21.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	21.49	21.50	21.52	21.7
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	21.44	21.55	21.53	21.7
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.53	21.59	21.50	21.7
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	21.46	21.58	21.56	21.7
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	21.50	21.59	21.54	21.7
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	21.45	21.51	21.55	21.7
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	21.51	21.53	21.54	21.7
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	21.43	21.55	21.48	21.7
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	21.48	21.59	21.51	21.7
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	21.43	21.58	21.51	21.7
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	21.49	21.59	21.49	21.7



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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		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		20.37		21.0
100	PI/2 BPSK	1	137		20.27		
100	PI/2 BPSK	1	271		20.33		
100	PI/2 BPSK	135	0		20.29		21.0
100	PI/2 BPSK	135	69		20.30		21.0
100	PI/2 BPSK	135	138		20.20		21.0
100	PI/2 BPSK	270	0		20.22		
100	QPSK	1	1		20.33		21.0
100	QPSK	1	137		20.21		
100	QPSK	1	271		20.35		
100	QPSK	135	0		20.28		21.0
100	QPSK	135	69		20.21		21.0
100	QPSK	135	138		20.24		21.0
100	QPSK	270	0		20.28		
100	16QAM	1	1		20.31		21.0
100	64QAM	1	1		20.33		21.0
100	256QAM	1	1		20.05		20.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	20.29	20.36	20.21	21.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	20.28	20.33	20.27	21.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	20.26	20.31	20.20	21.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	20.20	20.32	20.22	21.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	20.29	20.35	20.25	21.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	20.25	20.36	20.23	21.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	20.21	20.32	20.22	21.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	20.29	20.27	20.28	21.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	20.20	20.34	20.28	21.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	20.24	20.30	20.20	21.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	20.20	20.35	20.28	21.0



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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		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		21.75		22.3
100	PI/2 BPSK	1	137		21.67		
100	PI/2 BPSK	1	271		21.62		
100	PI/2 BPSK	135	0		21.56		22.3
100	PI/2 BPSK	135	69		21.73		22.3
100	PI/2 BPSK	135	138		21.59		22.3
100	PI/2 BPSK	270	0		21.73		
100	QPSK	1	1		21.57		
100	QPSK	1	137		21.57		22.3
100	QPSK	1	271		21.55		
100	QPSK	135	0		21.70		
100	QPSK	135	69		21.72		22.3
100	QPSK	135	138		21.70		22.3
100	QPSK	270	0		21.74		
100	16QAM	1	1		21.61		
100	64QAM	1	1		21.29		22.3
100	256QAM	1	1		19.51		20.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	21.55	21.57	21.61	22.3
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	21.59	21.67	21.70	22.3
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.71	21.57	21.70	22.3
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	21.60	21.60	21.63	22.3
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	21.64	21.68	21.70	22.3
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	21.64	21.74	21.70	22.3
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	21.57	21.55	21.67	22.3
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	21.68	21.69	21.68	22.3
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	21.57	21.61	21.59	22.3
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	21.69	21.59	21.70	22.3
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	21.57	21.73	21.66	22.3



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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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		26.42		27.5
100	PI/2 BPSK	1	137		26.12		
100	PI/2 BPSK	1	271		26.38		
100	PI/2 BPSK	135	0		25.74		27.0
100	PI/2 BPSK	135	69		26.14		27.5
100	PI/2 BPSK	135	138		25.72		27.0
100	PI/2 BPSK	270	0		25.65		
100	QPSK	1	1		26.41		27.5
100	QPSK	1	137		26.08		
100	QPSK	1	271		26.40		
100	QPSK	135	0		25.25		26.5
100	QPSK	135	69		26.11		27.5
100	QPSK	135	138		25.24		26.5
100	QPSK	270	0		25.16		
100	16QAM	1	1		25.42		26.5
100	64QAM	1	1		23.89		25.0
100	256QAM	1	1		22.21		23.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	26.22	26.40	26.30	27.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	26.30	26.37	26.40	27.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	26.41	26.40	26.38	27.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	26.36	26.33	26.33	27.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	26.26	26.35	26.25	27.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	26.33	26.22	26.36	27.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	26.36	26.27	26.38	27.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	26.35	26.23	26.38	27.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	26.38	26.22	26.37	27.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	26.23	26.23	26.33	27.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	26.22	26.41	26.27	27.5



<FR1 n78_HPUE_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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		16.49		17.6
100	PI/2 BPSK	1	137		16.41		
100	PI/2 BPSK	1	271		16.29		
100	PI/2 BPSK	135	0		16.29		17.6
100	PI/2 BPSK	135	69		16.35		17.6
100	PI/2 BPSK	135	138		16.34		17.6
100	PI/2 BPSK	270	0		16.33		
100	QPSK	1	1		16.30		17.6
100	QPSK	1	137		16.32		
100	QPSK	1	271		16.41		
100	QPSK	135	0		16.35		17.6
100	QPSK	135	69		16.38		17.6
100	QPSK	135	138		16.41		17.6
100	QPSK	270	0		16.35		
100	16QAM	1	1		16.32		17.6
100	64QAM	1	1		16.44		17.6
100	256QAM	1	1		16.36		17.6
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	16.46	16.34	16.38	17.6
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	16.41	16.40	16.43	17.6
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	16.45	16.32	16.43	17.6
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	16.39	16.38	16.37	17.6
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	16.44	16.30	16.43	17.6
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	16.35	16.36	16.32	17.6
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	16.39	16.39	16.48	17.6
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	16.46	16.45	16.37	17.6
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	16.32	16.42	16.33	17.6
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	16.31	16.29	16.37	17.6
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	16.35	16.31	16.38	17.6



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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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		25.57		26.2
100	PI/2 BPSK	1	137		25.34		
100	PI/2 BPSK	1	271		25.52		
100	PI/2 BPSK	135	0		24.64		25.7
100	PI/2 BPSK	135	69		25.37		26.2
100	PI/2 BPSK	135	138		24.72		25.7
100	PI/2 BPSK	270	0		24.67		
100	QPSK	1	1		25.48		26.2
100	QPSK	1	137		25.32		
100	QPSK	1	271		25.50		
100	QPSK	135	0		24.16		25.2
100	QPSK	135	69		25.39		26.2
100	QPSK	135	138		24.21		25.2
100	QPSK	270	0		24.19		
100	16QAM	1	1		24.25		25.2
100	64QAM	1	1		22.81		23.7
100	256QAM	1	1		21.00		21.7
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	25.56	25.50	25.47	26.2
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	25.43	25.38	25.55	26.2
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	25.43	25.54	25.43	26.2
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	25.56	25.46	25.37	26.2
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	25.55	25.49	25.48	26.2
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	25.52	25.48	25.49	26.2
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	25.47	25.43	25.46	26.2
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	25.48	25.44	25.48	26.2
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	25.48	25.46	25.39	26.2
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	25.50	25.39	25.54	26.2
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	25.50	25.39	25.52	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		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		25.20		26.2
100	PI/2 BPSK	1	137		25.00		
100	PI/2 BPSK	1	271		25.05		
100	PI/2 BPSK	135	0		24.15		25.7
100	PI/2 BPSK	135	69		24.90		26.2
100	PI/2 BPSK	135	138		24.27		25.7
100	PI/2 BPSK	270	0		24.25		
100	QPSK	1	1		24.99		26.2
100	QPSK	1	137		24.85		
100	QPSK	1	271		25.05		
100	QPSK	135	0		23.61		25.2
100	QPSK	135	69		24.85		26.2
100	QPSK	135	138		23.76		25.2
100	QPSK	270	0		23.75		
100	16QAM	1	1		23.79		25.2
100	64QAM	1	1		22.34		23.7
100	256QAM	1	1		20.54		21.7
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	25.14	25.00	25.12	26.2
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	25.12	25.18	25.09	26.2
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	25.13	25.14	25.07	26.2
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	25.16	25.07	25.09	26.2
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	25.04	25.10	25.05	26.2
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	25.02	25.12	25.09	26.2
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	25.07	25.11	25.06	26.2
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	25.05	25.16	25.05	26.2
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	25.19	25.13	25.04	26.2
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	25.06	25.16	25.15	26.2
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	25.14	25.05	25.15	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		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		16.49		16.8
100	PI/2 BPSK	1	137		16.41		
100	PI/2 BPSK	1	271		16.29		
100	PI/2 BPSK	135	0		16.29		16.8
100	PI/2 BPSK	135	69		16.35		16.8
100	PI/2 BPSK	135	138		16.34		16.8
100	PI/2 BPSK	270	0		16.33		
100	QPSK	1	1		16.30		16.8
100	QPSK	1	137		16.32		
100	QPSK	1	271		16.41		
100	QPSK	135	0		16.35		16.8
100	QPSK	135	69		16.38		16.8
100	QPSK	135	138		16.41		16.8
100	QPSK	270	0		16.35		
100	16QAM	1	1		16.32		16.8
100	64QAM	1	1		16.44		16.8
100	256QAM	1	1		16.36		16.8
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	16.46	16.34	16.38	16.8
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	16.41	16.40	16.43	16.8
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	16.45	16.32	16.43	16.8
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	16.39	16.38	16.37	16.8
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	16.44	16.30	16.43	16.8
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	16.35	16.36	16.32	16.8
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	16.39	16.39	16.48	16.8
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	16.46	16.45	16.37	16.8
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	16.32	16.42	16.33	16.8
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	16.31	16.29	16.37	16.8
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	16.35	16.31	16.38	16.8



<FR1 n78_HPUE_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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		25.20		25.7
100	PI/2 BPSK	1	137		25.00		
100	PI/2 BPSK	1	271		25.05		
100	PI/2 BPSK	135	0		24.15		25.7
100	PI/2 BPSK	135	69		24.90		25.7
100	PI/2 BPSK	135	138		24.27		25.7
100	PI/2 BPSK	270	0		24.25		
100	QPSK	1	1		24.99		
100	QPSK	1	137		24.85		25.7
100	QPSK	1	271		25.05		
100	QPSK	135	0		23.61		
100	QPSK	135	69		24.85		25.7
100	QPSK	135	138		23.76		25.2
100	QPSK	270	0		23.75		
100	16QAM	1	1		23.79		
100	64QAM	1	1		22.34		23.7
100	256QAM	1	1		20.54		21.7
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	25.14	25.00	25.12	25.7
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	25.12	25.18	25.09	25.7
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	25.13	25.14	25.07	25.7
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	25.16	25.07	25.09	25.7
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	25.04	25.10	25.05	25.7
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	25.02	25.12	25.09	25.7
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	25.07	25.11	25.06	25.7
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	25.05	25.16	25.05	25.7
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	25.19	25.13	25.04	25.7
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	25.06	25.16	25.15	25.7
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	25.14	25.05	25.15	25.7



<FR1 n78_HPUE_Ant 6_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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		24.69		24.7
100	PI/2 BPSK	1	137		24.34		
100	PI/2 BPSK	1	271		24.58		
100	PI/2 BPSK	135	0		24.46		24.7
100	PI/2 BPSK	135	69		24.50		24.7
100	PI/2 BPSK	135	138		24.35		24.7
100	PI/2 BPSK	270	0		24.46		
100	QPSK	1	1		24.61		24.7
100	QPSK	1	137		24.32		
100	QPSK	1	271		24.56		
100	QPSK	135	0		24.39		24.7
100	QPSK	135	69		24.38		24.7
100	QPSK	135	138		24.38		24.7
100	QPSK	270	0		24.39		
100	16QAM	1	1		24.10		24.7
100	64QAM	1	1		23.64		24.7
100	256QAM	1	1		21.89		23.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.62	24.59	24.50	24.7
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.62	24.62	24.55	24.7
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.56	24.68	24.57	24.7
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.66	24.59	24.53	24.7
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.65	24.62	24.58	24.7
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.61	24.65	24.53	24.7
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.57	24.66	24.58	24.7
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.65	24.68	24.53	24.7
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.66	24.62	24.56	24.7
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.59	24.63	24.55	24.7
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.58	24.64	24.53	24.7



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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		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		23.46		23.8
100	PI/2 BPSK	1	137		23.29		
100	PI/2 BPSK	1	271		23.37		
100	PI/2 BPSK	135	0		23.12		23.8
100	PI/2 BPSK	135	69		23.19		23.8
100	PI/2 BPSK	135	138		23.12		23.8
100	PI/2 BPSK	270	0		23.18		
100	QPSK	1	1		23.32		23.8
100	QPSK	1	137		23.28		
100	QPSK	1	271		23.36		
100	QPSK	135	0		23.21		23.8
100	QPSK	135	69		23.26		23.8
100	QPSK	135	138		23.26		23.8
100	QPSK	270	0		23.18		
100	16QAM	1	1		23.33		23.8
100	64QAM	1	1		22.62		23.8
100	256QAM	1	1		21.16		22.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	23.27	23.19	23.18	23.8
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	23.16	23.16	23.24	23.8
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.12	23.14	23.11	23.8
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	23.17	23.26	23.20	23.8
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	23.13	23.18	23.11	23.8
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.23	23.19	23.16	23.8
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	23.22	23.24	23.19	23.8
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	23.17	23.23	23.15	23.8
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	23.21	23.12	23.16	23.8
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	23.15	23.21	23.12	23.8
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	23.13	23.23	23.16	23.8



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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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		23.41		24.0
100	PI/2 BPSK	1	137		23.28		
100	PI/2 BPSK	1	271		23.37		
100	PI/2 BPSK	135	0		23.22		24.0
100	PI/2 BPSK	135	69		23.29		24.0
100	PI/2 BPSK	135	138		23.24		24.0
100	PI/2 BPSK	270	0		23.23		
100	QPSK	1	1		23.23		24.0
100	QPSK	1	137		23.25		
100	QPSK	1	271		23.34		
100	QPSK	135	0		23.25		24.0
100	QPSK	135	69		23.28		24.0
100	QPSK	135	138		23.23		24.0
100	QPSK	270	0		23.26		
100	16QAM	1	1		23.29		24.0
100	64QAM	1	1		22.78		23.7
100	256QAM	1	1		21.09		21.7
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	23.28	23.32	23.32	24.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	23.29	23.35	23.27	24.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.23	23.35	23.31	24.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	23.27	23.36	23.29	24.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	23.27	23.38	23.29	24.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.27	23.33	23.22	24.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	23.32	23.33	23.30	24.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	23.28	23.32	23.24	24.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	23.27	23.34	23.23	24.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	23.29	23.32	23.23	24.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	23.29	23.32	23.31	24.0



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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		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		24.98		25.3
100	PI/2 BPSK	1	137		24.60		
100	PI/2 BPSK	1	271		24.81		
100	PI/2 BPSK	135	0		24.18		25.3
100	PI/2 BPSK	135	69		24.60		25.3
100	PI/2 BPSK	135	138		24.37		25.3
100	PI/2 BPSK	270	0		24.32		
100	QPSK	1	1		24.70		
100	QPSK	1	137		24.65		25.3
100	QPSK	1	271		24.78		
100	QPSK	135	0		23.51		
100	QPSK	135	69		24.55		25.3
100	QPSK	135	138		23.77		25.2
100	QPSK	270	0		23.84		
100	16QAM	1	1		23.69		
100	64QAM	1	1		22.39		23.7
100	256QAM	1	1		20.56		21.7
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.83	24.74	24.82	25.3
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.82	24.88	24.88	25.3
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.79	24.80	24.67	25.3
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.90	24.87	24.83	25.3
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.78	24.72	24.84	25.3
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.72	24.73	24.77	25.3
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.72	24.82	24.78	25.3
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.78	24.84	24.78	25.3
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.88	24.81	24.81	25.3
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.69	24.92	24.79	25.3
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.84	24.73	24.80	25.3



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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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		24.69		25.5
100	PI/2 BPSK	1	137		24.34		
100	PI/2 BPSK	1	271		24.58		
100	PI/2 BPSK	135	0		24.46		25.5
100	PI/2 BPSK	135	69		24.50		25.5
100	PI/2 BPSK	135	138		24.35		25.5
100	PI/2 BPSK	270	0		24.46		
100	QPSK	1	1		24.61		
100	QPSK	1	137		24.32		25.5
100	QPSK	1	271		24.56		
100	QPSK	135	0		24.39		
100	QPSK	135	69		24.38		25.5
100	QPSK	135	138		24.38		25.5
100	QPSK	270	0		24.39		
100	16QAM	1	1		24.10		
100	64QAM	1	1		23.64		25.0
100	256QAM	1	1		21.89		23.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.62	24.59	24.50	25.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.62	24.62	24.55	25.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.56	24.68	24.57	25.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.66	24.59	24.53	25.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.65	24.62	24.58	25.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.61	24.65	24.53	25.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.57	24.66	24.58	25.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.65	24.68	24.53	25.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.66	24.62	24.56	25.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.59	24.63	24.55	25.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.58	24.64	24.53	25.5



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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		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		23.46		24.6
100	PI/2 BPSK	1	137		23.29		
100	PI/2 BPSK	1	271		23.37		
100	PI/2 BPSK	135	0		23.12		24.6
100	PI/2 BPSK	135	69		23.19		24.6
100	PI/2 BPSK	135	138		23.12		24.6
100	PI/2 BPSK	270	0		23.18		
100	QPSK	1	1		23.32		24.6
100	QPSK	1	137		23.28		
100	QPSK	1	271		23.36		
100	QPSK	135	0		23.21		24.6
100	QPSK	135	69		23.26		24.6
100	QPSK	135	138		23.26		24.6
100	QPSK	270	0		23.18		
100	16QAM	1	1		23.33		24.6
100	64QAM	1	1		22.62		24.0
100	256QAM	1	1		21.16		22.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	23.27	23.19	23.18	24.6
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	23.16	23.16	23.24	24.6
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.12	23.14	23.11	24.6
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	23.17	23.26	23.20	24.6
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	23.13	23.18	23.11	24.6
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.23	23.19	23.16	24.6
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	23.22	23.24	23.19	24.6
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	23.17	23.23	23.15	24.6
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	23.21	23.12	23.16	24.6
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	23.15	23.21	23.12	24.6
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	23.13	23.23	23.16	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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		23.41		24.8
100	PI/2 BPSK	1	137		23.28		
100	PI/2 BPSK	1	271		23.37		
100	PI/2 BPSK	135	0		23.22		24.8
100	PI/2 BPSK	135	69		23.29		24.8
100	PI/2 BPSK	135	138		23.24		24.8
100	PI/2 BPSK	270	0		23.23		
100	QPSK	1	1		23.23		
100	QPSK	1	137		23.25		24.8
100	QPSK	1	271		23.34		
100	QPSK	135	0		23.25		
100	QPSK	135	69		23.28		24.8
100	QPSK	135	138		23.23		24.8
100	QPSK	270	0		23.26		
100	16QAM	1	1		23.29		
100	64QAM	1	1		22.78		23.7
100	256QAM	1	1		21.09		21.7
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	23.28	23.32	23.32	24.8
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	23.29	23.35	23.27	24.8
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.23	23.35	23.31	24.8
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	23.27	23.36	23.29	24.8
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	23.27	23.38	23.29	24.8
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.27	23.33	23.22	24.8
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	23.32	23.33	23.30	24.8
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	23.28	23.32	23.24	24.8
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	23.27	23.34	23.23	24.8
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	23.29	23.32	23.23	24.8
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	23.29	23.32	23.31	24.8



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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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		24.98		26.1
100	PI/2 BPSK	1	137		24.60		
100	PI/2 BPSK	1	271		24.81		
100	PI/2 BPSK	135	0		24.18		25.7
100	PI/2 BPSK	135	69		24.60		26.1
100	PI/2 BPSK	135	138		24.37		25.7
100	PI/2 BPSK	270	0		24.32		
100	QPSK	1	1		24.70		26.1
100	QPSK	1	137		24.65		
100	QPSK	1	271		24.78		
100	QPSK	135	0		23.51		25.2
100	QPSK	135	69		24.55		26.1
100	QPSK	135	138		23.77		25.2
100	QPSK	270	0		23.84		
100	16QAM	1	1		23.69		25.2
100	64QAM	1	1		22.39		23.7
100	256QAM	1	1		20.56		21.7
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.83	24.74	24.82	26.1
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.82	24.88	24.88	26.1
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.79	24.80	24.67	26.1
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.90	24.87	24.83	26.1
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.78	24.72	24.84	26.1
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.72	24.73	24.77	26.1
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.72	24.82	24.78	26.1
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.78	24.84	24.78	26.1
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.88	24.81	24.81	26.1
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.69	24.92	24.79	26.1
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.84	24.73	24.80	26.1



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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		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		24.69		24.7
100	PI/2 BPSK	1	137		24.34		
100	PI/2 BPSK	1	271		24.58		
100	PI/2 BPSK	135	0		24.46		24.7
100	PI/2 BPSK	135	69		24.50		24.7
100	PI/2 BPSK	135	138		24.35		24.7
100	PI/2 BPSK	270	0		24.46		
100	QPSK	1	1		24.61		24.7
100	QPSK	1	137		24.32		
100	QPSK	1	271		24.56		
100	QPSK	135	0		24.39		24.7
100	QPSK	135	69		24.38		24.7
100	QPSK	135	138		24.38		24.7
100	QPSK	270	0		24.39		
100	16QAM	1	1		24.10		24.7
100	64QAM	1	1		23.64		24.7
100	256QAM	1	1		21.89		23.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.62	24.59	24.50	24.7
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.62	24.62	24.55	24.7
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.56	24.68	24.57	24.7
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.66	24.59	24.53	24.7
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.65	24.62	24.58	24.7
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.61	24.65	24.53	24.7
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.57	24.66	24.58	24.7
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.65	24.68	24.53	24.7
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.66	24.62	24.56	24.7
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.59	24.63	24.55	24.7
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.58	24.64	24.53	24.7



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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		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		23.41		24.0
100	PI/2 BPSK	1	137		23.28		
100	PI/2 BPSK	1	271		23.37		
100	PI/2 BPSK	135	0		23.22		24.0
100	PI/2 BPSK	135	69		23.29		24.0
100	PI/2 BPSK	135	138		23.24		24.0
100	PI/2 BPSK	270	0		23.23		
100	QPSK	1	1		23.23		24.0
100	QPSK	1	137		23.25		
100	QPSK	1	271		23.34		
100	QPSK	135	0		23.25		24.0
100	QPSK	135	69		23.28		24.0
100	QPSK	135	138		23.23		24.0
100	QPSK	270	0		23.26		
100	16QAM	1	1		23.29		24.0
100	64QAM	1	1		22.78		23.7
100	256QAM	1	1		21.09		21.7
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	23.28	23.32	23.32	24.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	23.29	23.35	23.27	24.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.23	23.35	23.31	24.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	23.27	23.36	23.29	24.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	23.27	23.38	23.29	24.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.27	23.33	23.22	24.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	23.32	23.33	23.30	24.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	23.28	23.32	23.24	24.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	23.27	23.34	23.23	24.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	23.29	23.32	23.23	24.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	23.29	23.32	23.31	24.0



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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		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		24.98		25.3
100	PI/2 BPSK	1	137		24.60		
100	PI/2 BPSK	1	271		24.81		
100	PI/2 BPSK	135	0		24.18		25.3
100	PI/2 BPSK	135	69		24.60		25.3
100	PI/2 BPSK	135	138		24.37		25.3
100	PI/2 BPSK	270	0		24.32		
100	QPSK	1	1		24.70		
100	QPSK	1	137		24.65		25.3
100	QPSK	1	271		24.78		
100	QPSK	135	0		23.51		
100	QPSK	135	69		24.55		25.3
100	QPSK	135	138		23.77		25.2
100	QPSK	270	0		23.84		
100	16QAM	1	1		23.69		
100	64QAM	1	1		22.39		23.7
100	256QAM	1	1		20.56		21.7
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.83	24.74	24.82	25.3
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.82	24.88	24.88	25.3
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.79	24.80	24.67	25.3
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.90	24.87	24.83	25.3
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.78	24.72	24.84	25.3
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.72	24.73	24.77	25.3
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.72	24.82	24.78	25.3
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.78	24.84	24.78	25.3
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.88	24.81	24.81	25.3
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.69	24.92	24.79	25.3
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.84	24.73	24.80	25.3



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.41		25.5
100	PI/2 BPSK	1	137		24.27		
100	PI/2 BPSK	1	271		24.38		
100	PI/2 BPSK	135	0		23.65		25.0
100	PI/2 BPSK	135	69		24.15		25.5
100	PI/2 BPSK	135	138		24.00		25.0
100	PI/2 BPSK	270	0		23.81		
100	QPSK	1	1		24.32		
100	QPSK	1	137		24.20		25.5
100	QPSK	1	271		24.37		
100	QPSK	135	0		23.18		
100	QPSK	135	69		24.15		24.5
100	QPSK	135	138		23.37		25.5
100	QPSK	270	0		23.22		24.5
100	16QAM	1	1		23.25		
100	64QAM	1	1		21.77		
100	256QAM	1	1		19.95		21.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.26	24.25	24.26	25.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.27	24.26	24.37	25.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.28	24.27	24.34	25.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.33	24.36	24.41	25.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.25	24.23	24.39	25.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.37	24.41	24.34	25.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.38	24.26	24.40	25.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.23	24.26	24.23	25.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.37	24.22	24.41	25.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.25	24.36	24.21	25.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.35	24.21	24.36	25.5



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		13.77		14.6
100	PI/2 BPSK	1	137		13.76		
100	PI/2 BPSK	1	271		13.60		
100	PI/2 BPSK	135	0		13.59		14.6
100	PI/2 BPSK	135	69		13.75		14.6
100	PI/2 BPSK	135	138		13.73		14.6
100	PI/2 BPSK	270	0		13.68		
100	QPSK	1	1		13.68		
100	QPSK	1	137		13.61		14.6
100	QPSK	1	271		13.71		
100	QPSK	135	0		13.70		
100	QPSK	135	69		13.57		14.6
100	QPSK	135	138		13.75		14.6
100	QPSK	270	0		13.76		
100	16QAM	1	1		13.73		
100	64QAM	1	1		13.67		14.6
100	256QAM	1	1		13.61		14.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	13.63	13.62	13.70	14.6
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	13.60	13.75	13.76	14.6
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	13.63	13.75	13.73	14.6
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	13.73	13.64	13.68	14.6
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	13.60	13.70	13.67	14.6
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	13.66	13.71	13.64	14.6
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	13.71	13.75	13.75	14.6
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	13.71	13.62	13.63	14.6
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	13.64	13.62	13.74	14.6
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	13.58	13.63	13.75	14.6
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	13.63	13.62	13.73	14.6



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.39		25.0
100	PI/2 BPSK	1	137		24.11		
100	PI/2 BPSK	1	271		24.38		
100	PI/2 BPSK	135	0		23.62		24.5
100	PI/2 BPSK	135	69		24.13		25.0
100	PI/2 BPSK	135	138		23.67		24.5
100	PI/2 BPSK	270	0		23.67		
100	QPSK	1	1		24.29		25.0
100	QPSK	1	137		24.10		
100	QPSK	1	271		24.34		
100	QPSK	135	0		23.10		24.0
100	QPSK	135	69		24.12		25.0
100	QPSK	135	138		23.15		24.0
100	QPSK	270	0		23.16		
100	16QAM	1	1		23.28		24.0
100	64QAM	1	1		21.75		22.5
100	256QAM	1	1		20.08		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.29	24.26	24.30	25.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.37	24.25	24.37	25.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.34	24.32	24.33	25.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.25	24.25	24.21	25.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.30	24.29	24.20	25.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.32	24.31	24.32	25.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.27	24.19	24.24	25.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.28	24.38	24.38	25.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.30	24.29	24.23	25.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.32	24.34	24.38	25.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.34	24.31	24.32	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		22.24		23.5
100	PI/2 BPSK	1	137		22.18		
100	PI/2 BPSK	1	271		22.21		
100	PI/2 BPSK	135	0		22.00		23.5
100	PI/2 BPSK	135	69		22.19		23.5
100	PI/2 BPSK	135	138		21.98		23.5
100	PI/2 BPSK	270	0		21.94		
100	QPSK	1	1		22.21		
100	QPSK	1	137		22.12		23.5
100	QPSK	1	271		22.07		
100	QPSK	135	0		22.17		
100	QPSK	135	69		22.13		23.5
100	QPSK	135	138		22.16		23.5
100	QPSK	270	0		22.02		
100	16QAM	1	1		22.00		
100	64QAM	1	1		21.05		22.5
100	256QAM	1	1		19.28		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.10	22.12	22.07	23.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.01	22.01	22.04	23.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.15	22.04	22.07	23.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.99	22.10	21.99	23.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.09	22.01	22.13	23.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.07	22.17	22.05	23.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.06	22.15	22.04	23.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.11	22.06	22.15	23.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.13	22.10	22.10	23.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.01	21.99	21.99	23.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.15	22.17	22.07	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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		13.77		13.8
100	PI/2 BPSK	1	137		13.76		
100	PI/2 BPSK	1	271		13.60		
100	PI/2 BPSK	135	0		13.59		13.8
100	PI/2 BPSK	135	69		13.75		13.8
100	PI/2 BPSK	135	138		13.73		13.8
100	PI/2 BPSK	270	0		13.68		
100	QPSK	1	1		13.68		13.8
100	QPSK	1	137		13.61		
100	QPSK	1	271		13.71		
100	QPSK	135	0		13.70		13.8
100	QPSK	135	69		13.57		13.8
100	QPSK	135	138		13.75		13.8
100	QPSK	270	0		13.76		
100	16QAM	1	1		13.73		13.8
100	64QAM	1	1		13.67		13.8
100	256QAM	1	1		13.61		13.8
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	13.63	13.62	13.70	13.8
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	13.60	13.75	13.76	13.8
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	13.63	13.75	13.73	13.8
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	13.73	13.64	13.68	13.8
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	13.60	13.70	13.67	13.8
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	13.66	13.71	13.64	13.8
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	13.71	13.75	13.75	13.8
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	13.71	13.62	13.63	13.8
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	13.64	13.62	13.74	13.8
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	13.58	13.63	13.75	13.8
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	13.63	13.62	13.73	13.8



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.24		22.7
100	PI/2 BPSK	1	137		22.18		
100	PI/2 BPSK	1	271		22.21		
100	PI/2 BPSK	135	0		22.00		22.7
100	PI/2 BPSK	135	69		22.19		22.7
100	PI/2 BPSK	135	138		21.98		22.7
100	PI/2 BPSK	270	0		21.94		
100	QPSK	1	1		22.21		22.7
100	QPSK	1	137		22.12		
100	QPSK	1	271		22.07		
100	QPSK	135	0		22.17		22.7
100	QPSK	135	69		22.13		22.7
100	QPSK	135	138		22.16		22.7
100	QPSK	270	0		22.02		
100	16QAM	1	1		22.00		22.7
100	64QAM	1	1		21.05		22.5
100	256QAM	1	1		19.28		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.10	22.12	22.07	22.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.01	22.01	22.04	22.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.15	22.04	22.07	22.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.99	22.10	21.99	22.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.09	22.01	22.13	22.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.07	22.17	22.05	22.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.06	22.15	22.04	22.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.11	22.06	22.15	22.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.13	22.10	22.10	22.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.01	21.99	21.99	22.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.15	22.17	22.07	22.7



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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		21.55		21.7
100	PI/2 BPSK	1	137		21.30		
100	PI/2 BPSK	1	271		21.39		
100	PI/2 BPSK	135	0		21.23		21.7
100	PI/2 BPSK	135	69		21.34		21.7
100	PI/2 BPSK	135	138		21.24		21.7
100	PI/2 BPSK	270	0		21.30		
100	QPSK	1	1		21.28		21.7
100	QPSK	1	137		21.21		
100	QPSK	1	271		21.25		
100	QPSK	135	0		21.18		21.7
100	QPSK	135	69		21.33		21.7
100	QPSK	135	138		21.32		21.7
100	QPSK	270	0		21.29		
100	16QAM	1	1		21.33		21.7
100	64QAM	1	1		21.05		21.7
100	256QAM	1	1		19.15		21.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.42	21.47	21.49	21.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.47	21.48	21.44	21.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.39	21.51	21.49	21.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.48	21.46	21.44	21.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.49	21.53	21.44	21.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.49	21.49	21.48	21.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.46	21.49	21.51	21.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.40	21.55	21.44	21.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.47	21.54	21.43	21.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.42	21.54	21.43	21.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.40	21.50	21.47	21.7



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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		20.60		20.8
100	PI/2 BPSK	1	137		20.59		
100	PI/2 BPSK	1	271		20.47		
100	PI/2 BPSK	135	0		20.48		20.8
100	PI/2 BPSK	135	69		20.55		20.8
100	PI/2 BPSK	135	138		20.53		20.8
100	PI/2 BPSK	270	0		20.53		
100	QPSK	1	1		20.43		20.8
100	QPSK	1	137		20.47		
100	QPSK	1	271		20.52		
100	QPSK	135	0		20.37		20.8
100	QPSK	135	69		20.43		20.8
100	QPSK	135	138		20.57		20.8
100	QPSK	270	0		20.46		
100	16QAM	1	1		20.56		20.8
100	64QAM	1	1		20.39		20.8
100	256QAM	1	1		18.83		19.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.46	20.57	20.53	20.8
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.48	20.58	20.45	20.8
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.55	20.55	20.49	20.8
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.39	20.42	20.58	20.8
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.47	20.58	20.43	20.8
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.57	20.52	20.43	20.8
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.45	20.48	20.53	20.8
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.55	20.46	20.35	20.8
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.49	20.38	20.55	20.8
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.52	20.45	20.48	20.8
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.50	20.45	20.40	20.8



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.31		21.0
100	PI/2 BPSK	1	137		20.26		
100	PI/2 BPSK	1	271		20.27		
100	PI/2 BPSK	135	0		20.23		21.0
100	PI/2 BPSK	135	69		20.30		21.0
100	PI/2 BPSK	135	138		20.28		21.0
100	PI/2 BPSK	270	0		20.22		
100	QPSK	1	1		20.28		21.0
100	QPSK	1	137		20.24		
100	QPSK	1	271		20.28		
100	QPSK	135	0		20.26		21.0
100	QPSK	135	69		20.29		21.0
100	QPSK	135	138		20.28		21.0
100	QPSK	270	0		20.23		
100	16QAM	1	1		20.21		21.0
100	64QAM	1	1		20.22		21.0
100	256QAM	1	1		19.88		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.20	20.29	20.20	21.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.26	20.30	20.26	21.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.24	20.25	20.22	21.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.28	20.27	20.23	21.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.26	20.23	20.23	21.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.29	20.24	20.20	21.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.25	20.30	20.27	21.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.25	20.23	20.20	21.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.29	20.28	20.28	21.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.23	20.23	20.28	21.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.23	20.25	20.24	21.0



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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		21.84		22.3
100	PI/2 BPSK	1	137		21.72		
100	PI/2 BPSK	1	271		21.71		
100	PI/2 BPSK	135	0		21.73		22.3
100	PI/2 BPSK	135	69		21.75		22.3
100	PI/2 BPSK	135	138		21.74		22.3
100	PI/2 BPSK	270	0		21.80		
100	QPSK	1	1		21.73		22.3
100	QPSK	1	137		21.75		
100	QPSK	1	271		21.69		
100	QPSK	135	0		21.70		22.3
100	QPSK	135	69		21.82		22.3
100	QPSK	135	138		21.69		22.3
100	QPSK	270	0		21.65		
100	16QAM	1	1		21.77		22.3
100	64QAM	1	1		21.37		22.3
100	256QAM	1	1		19.52		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.69	21.76	21.73	22.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.65	21.71	21.69	22.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.80	21.83	21.68	22.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.83	21.66	21.80	22.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.78	21.83	21.80	22.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.68	21.82	21.70	22.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.73	21.76	21.82	22.3
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.76	21.82	21.82	22.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.71	21.79	21.78	22.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.71	21.79	21.78	22.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.67	21.64	21.73	22.3



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.55		22.5
100	PI/2 BPSK	1	137		21.30		
100	PI/2 BPSK	1	271		21.39		
100	PI/2 BPSK	135	0		21.23		22.5
100	PI/2 BPSK	135	69		21.34		22.5
100	PI/2 BPSK	135	138		21.24		22.5
100	PI/2 BPSK	270	0		21.30		
100	QPSK	1	1		21.28		22.5
100	QPSK	1	137		21.21		
100	QPSK	1	271		21.25		
100	QPSK	135	0		21.18		22.5
100	QPSK	135	69		21.33		22.5
100	QPSK	135	138		21.32		22.5
100	QPSK	270	0		21.29		
100	16QAM	1	1		21.33		22.5
100	64QAM	1	1		21.05		22.5
100	256QAM	1	1		19.15		21.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.42	21.47	21.49	22.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.47	21.48	21.44	22.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.39	21.51	21.49	22.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.48	21.46	21.44	22.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.49	21.53	21.44	22.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.49	21.49	21.48	22.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.46	21.49	21.51	22.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.40	21.55	21.44	22.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.47	21.54	21.43	22.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.42	21.54	21.43	22.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.40	21.50	21.47	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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.60		21.6
100	PI/2 BPSK	1	137		20.59		
100	PI/2 BPSK	1	271		20.47		
100	PI/2 BPSK	135	0		20.48		21.6
100	PI/2 BPSK	135	69		20.55		21.6
100	PI/2 BPSK	135	138		20.53		21.6
100	PI/2 BPSK	270	0		20.53		
100	QPSK	1	1		20.43		21.6
100	QPSK	1	137		20.47		
100	QPSK	1	271		20.52		
100	QPSK	135	0		20.37		21.6
100	QPSK	135	69		20.43		21.6
100	QPSK	135	138		20.57		21.6
100	QPSK	270	0		20.46		
100	16QAM	1	1		20.56		21.6
100	64QAM	1	1		20.39		21.6
100	256QAM	1	1		18.83		19.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.46	20.57	20.53	21.6
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.48	20.58	20.45	21.6
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.55	20.55	20.49	21.6
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.39	20.42	20.58	21.6
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.47	20.58	20.43	21.6
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.57	20.52	20.43	21.6
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.45	20.48	20.53	21.6
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.55	20.46	20.35	21.6
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.49	20.38	20.55	21.6
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.52	20.45	20.48	21.6
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.50	20.45	20.40	21.6



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.31		21.8
100	PI/2 BPSK	1	137		20.26		
100	PI/2 BPSK	1	271		20.27		
100	PI/2 BPSK	135	0		20.23		21.8
100	PI/2 BPSK	135	69		20.30		21.8
100	PI/2 BPSK	135	138		20.28		21.8
100	PI/2 BPSK	270	0		20.22		
100	QPSK	1	1		20.28		21.8
100	QPSK	1	137		20.24		
100	QPSK	1	271		20.28		
100	QPSK	135	0		20.26		21.8
100	QPSK	135	69		20.29		21.8
100	QPSK	135	138		20.28		21.8
100	QPSK	270	0		20.23		
100	16QAM	1	1		20.21		21.8
100	64QAM	1	1		20.22		21.8
100	256QAM	1	1		19.88		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.20	20.29	20.20	21.8
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.26	20.30	20.26	21.8
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.24	20.25	20.22	21.8
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.28	20.27	20.23	21.8
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.26	20.23	20.23	21.8
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.29	20.24	20.20	21.8
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.25	20.30	20.27	21.8
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.25	20.23	20.20	21.8
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.29	20.28	20.28	21.8
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.23	20.23	20.28	21.8
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.23	20.25	20.24	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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.84		23.1
100	PI/2 BPSK	1	137		21.72		
100	PI/2 BPSK	1	271		21.71		
100	PI/2 BPSK	135	0		21.73		23.1
100	PI/2 BPSK	135	69		21.75		23.1
100	PI/2 BPSK	135	138		21.74		23.1
100	PI/2 BPSK	270	0		21.80		
100	QPSK	1	1		21.73		23.1
100	QPSK	1	137		21.75		
100	QPSK	1	271		21.69		
100	QPSK	135	0		21.70		23.1
100	QPSK	135	69		21.82		23.1
100	QPSK	135	138		21.69		23.1
100	QPSK	270	0		21.65		
100	16QAM	1	1		21.77		23.1
100	64QAM	1	1		21.37		22.5
100	256QAM	1	1		19.52		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.69	21.76	21.73	23.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.65	21.71	21.69	23.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.80	21.83	21.68	23.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.83	21.66	21.80	23.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.78	21.83	21.80	23.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.68	21.82	21.70	23.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.73	21.76	21.82	23.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.76	21.82	21.82	23.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.71	21.79	21.78	23.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.71	21.79	21.78	23.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.67	21.64	21.73	23.1



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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		21.55		21.7
100	PI/2 BPSK	1	137		21.30		
100	PI/2 BPSK	1	271		21.39		
100	PI/2 BPSK	135	0		21.23		21.7
100	PI/2 BPSK	135	69		21.34		21.7
100	PI/2 BPSK	135	138		21.24		21.7
100	PI/2 BPSK	270	0		21.30		
100	QPSK	1	1		21.28		21.7
100	QPSK	1	137		21.21		
100	QPSK	1	271		21.25		
100	QPSK	135	0		21.18		21.7
100	QPSK	135	69		21.33		21.7
100	QPSK	135	138		21.32		21.7
100	QPSK	270	0		21.29		
100	16QAM	1	1		21.33		21.7
100	64QAM	1	1		21.05		21.7
100	256QAM	1	1		19.15		21.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.42	21.47	21.49	21.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.47	21.48	21.44	21.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.39	21.51	21.49	21.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.48	21.46	21.44	21.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.49	21.53	21.44	21.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.49	21.49	21.48	21.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.46	21.49	21.51	21.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.40	21.55	21.44	21.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.47	21.54	21.43	21.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.42	21.54	21.43	21.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.40	21.50	21.47	21.7



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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		20.31		21.0
100	PI/2 BPSK	1	137		20.26		
100	PI/2 BPSK	1	271		20.27		
100	PI/2 BPSK	135	0		20.23		21.0
100	PI/2 BPSK	135	69		20.30		21.0
100	PI/2 BPSK	135	138		20.28		21.0
100	PI/2 BPSK	270	0		20.22		
100	QPSK	1	1		20.28		21.0
100	QPSK	1	137		20.24		
100	QPSK	1	271		20.28		
100	QPSK	135	0		20.26		21.0
100	QPSK	135	69		20.29		21.0
100	QPSK	135	138		20.28		21.0
100	QPSK	270	0		20.23		
100	16QAM	1	1		20.21		21.0
100	64QAM	1	1		20.22		21.0
100	256QAM	1	1		19.88		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.20	20.29	20.20	21.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.26	20.30	20.26	21.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.24	20.25	20.22	21.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.28	20.27	20.23	21.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.26	20.23	20.23	21.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.29	20.24	20.20	21.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.25	20.30	20.27	21.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.25	20.23	20.20	21.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.29	20.28	20.28	21.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.23	20.23	20.28	21.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.23	20.25	20.24	21.0



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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		21.84		22.3
100	PI/2 BPSK	1	137		21.72		
100	PI/2 BPSK	1	271		21.71		
100	PI/2 BPSK	135	0		21.73		22.3
100	PI/2 BPSK	135	69		21.75		22.3
100	PI/2 BPSK	135	138		21.74		22.3
100	PI/2 BPSK	270	0		21.80		
100	QPSK	1	1		21.73		22.3
100	QPSK	1	137		21.75		
100	QPSK	1	271		21.69		
100	QPSK	135	0		21.70		22.3
100	QPSK	135	69		21.82		22.3
100	QPSK	135	138		21.69		22.3
100	QPSK	270	0		21.65		
100	16QAM	1	1		21.77		22.3
100	64QAM	1	1		21.37		22.3
100	256QAM	1	1		19.52		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.69	21.76	21.73	22.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.65	21.71	21.69	22.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.80	21.83	21.68	22.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.83	21.66	21.80	22.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.78	21.83	21.80	22.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.68	21.82	21.70	22.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.73	21.76	21.82	22.3
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.76	21.82	21.82	22.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.71	21.79	21.78	22.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.71	21.79	21.78	22.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.67	21.64	21.73	22.3



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		26.55		27.5
100	PI/2 BPSK	1	137		26.35		
100	PI/2 BPSK	1	271		26.40		
100	PI/2 BPSK	135	0		25.82		27.0
100	PI/2 BPSK	135	69		26.34		27.5
100	PI/2 BPSK	135	138		26.04		27.0
100	PI/2 BPSK	270	0		25.87		
100	QPSK	1	1		26.47		27.5
100	QPSK	1	137		26.32		
100	QPSK	1	271		26.52		
100	QPSK	135	0		25.34		26.5
100	QPSK	135	69		26.35		27.5
100	QPSK	135	138		25.52		26.5
100	QPSK	270	0		25.37		
100	16QAM	1	1		25.42		26.5
100	64QAM	1	1		23.91		25.0
100	256QAM	1	1		22.24		23.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	26.54	26.44	26.50	27.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	26.50	26.50	26.54	27.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	26.39	26.51	26.47	27.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	26.40	26.40	26.37	27.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	26.49	26.46	26.35	27.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	26.39	26.37	26.54	27.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	26.53	26.53	26.49	27.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	26.43	26.54	26.48	27.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	26.48	26.39	26.44	27.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	26.47	26.47	26.51	27.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	26.54	26.41	26.51	27.5



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		16.76		17.6
100	PI/2 BPSK	1	137		16.66		
100	PI/2 BPSK	1	271		16.67		
100	PI/2 BPSK	135	0		16.56		17.6
100	PI/2 BPSK	135	69		16.69		17.6
100	PI/2 BPSK	135	138		16.57		17.6
100	PI/2 BPSK	270	0		16.68		
100	QPSK	1	1		16.72		17.6
100	QPSK	1	137		16.67		
100	QPSK	1	271		16.71		
100	QPSK	135	0		16.74		17.6
100	QPSK	135	69		16.72		17.6
100	QPSK	135	138		16.56		17.6
100	QPSK	270	0		16.65		
100	16QAM	1	1		16.71		17.6
100	64QAM	1	1		16.74		17.6
100	256QAM	1	1		16.64		17.6
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	16.58	16.75	16.60	17.6
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	16.63	16.71	16.74	17.6
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	16.57	16.72	16.70	17.6
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	16.70	16.62	16.64	17.6
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	16.75	16.72	16.66	17.6
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	16.65	16.70	16.58	17.6
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	16.66	16.60	16.70	17.6
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	16.70	16.70	16.58	17.6
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	16.74	16.73	16.57	17.6
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	16.68	16.71	16.67	17.6
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	16.70	16.70	16.75	17.6



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		25.56		26.2
100	PI/2 BPSK	1	137		25.26		
100	PI/2 BPSK	1	271		25.50		
100	PI/2 BPSK	135	0		24.51		25.7
100	PI/2 BPSK	135	69		25.25		26.2
100	PI/2 BPSK	135	138		24.55		25.7
100	PI/2 BPSK	270	0		24.57		
100	QPSK	1	1		25.34		26.2
100	QPSK	1	137		25.20		
100	QPSK	1	271		25.46		
100	QPSK	135	0		24.12		25.2
100	QPSK	135	69		25.32		26.2
100	QPSK	135	138		24.14		25.2
100	QPSK	270	0		24.18		
100	16QAM	1	1		24.31		25.2
100	64QAM	1	1		22.79		23.7
100	256QAM	1	1		21.06		21.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	25.41	25.48	25.46	26.2
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	25.50	25.49	25.52	26.2
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	25.43	25.41	25.50	26.2
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	25.47	25.45	25.41	26.2
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	25.43	25.51	25.39	26.2
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	25.52	25.42	25.44	26.2
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	25.50	25.46	25.42	26.2
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	25.53	25.55	25.51	26.2
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	25.51	25.55	25.47	26.2
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	25.46	25.44	25.53	26.2
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	25.43	25.55	25.51	26.2



<FR1 n78_HPUE_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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.95		26.2
100	PI/2 BPSK	1	137		24.69		
100	PI/2 BPSK	1	271		24.88		
100	PI/2 BPSK	135	0		23.98		25.7
100	PI/2 BPSK	135	69		24.63		26.2
100	PI/2 BPSK	135	138		23.95		25.7
100	PI/2 BPSK	270	0		24.00		
100	QPSK	1	1		24.87		
100	QPSK	1	137		24.58		26.2
100	QPSK	1	271		24.83		
100	QPSK	135	0		23.43		
100	QPSK	135	69		24.63		26.2
100	QPSK	135	138		23.38		25.2
100	QPSK	270	0		23.50		
100	16QAM	1	1		23.68		
100	64QAM	1	1		22.17		23.7
100	256QAM	1	1		20.34		21.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.92	24.85	24.75	26.2
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.88	24.93	24.94	26.2
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.81	24.87	24.93	26.2
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.80	24.84	24.78	26.2
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.92	24.80	24.85	26.2
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.77	24.89	24.93	26.2
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.85	24.76	24.79	26.2
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.77	24.87	24.82	26.2
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.86	24.92	24.93	26.2
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.79	24.78	24.91	26.2
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.79	24.87	24.84	26.2



<FR1 n78_HPUE_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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		16.76		16.8
100	PI/2 BPSK	1	137		16.66		
100	PI/2 BPSK	1	271		16.67		
100	PI/2 BPSK	135	0		16.56		16.8
100	PI/2 BPSK	135	69		16.69		16.8
100	PI/2 BPSK	135	138		16.57		16.8
100	PI/2 BPSK	270	0		16.68		
100	QPSK	1	1		16.72		16.8
100	QPSK	1	137		16.67		
100	QPSK	1	271		16.71		
100	QPSK	135	0		16.74		16.8
100	QPSK	135	69		16.72		16.8
100	QPSK	135	138		16.56		16.8
100	QPSK	270	0		16.65		
100	16QAM	1	1		16.71		16.8
100	64QAM	1	1		16.74		16.8
100	256QAM	1	1		16.64		16.8
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	16.58	16.75	16.60	16.8
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	16.63	16.71	16.74	16.8
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	16.57	16.72	16.70	16.8
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	16.70	16.62	16.64	16.8
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	16.75	16.72	16.66	16.8
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	16.65	16.70	16.58	16.8
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	16.66	16.60	16.70	16.8
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	16.70	16.70	16.58	16.8
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	16.74	16.73	16.57	16.8
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	16.68	16.71	16.67	16.8
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	16.70	16.70	16.75	16.8



<FR1 n78_HPUE_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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.95		25.7
100	PI/2 BPSK	1	137		24.69		
100	PI/2 BPSK	1	271		24.88		
100	PI/2 BPSK	135	0		23.98		25.7
100	PI/2 BPSK	135	69		24.63		25.7
100	PI/2 BPSK	135	138		23.95		25.7
100	PI/2 BPSK	270	0		24.00		
100	QPSK	1	1		24.87		
100	QPSK	1	137		24.58		25.7
100	QPSK	1	271		24.83		
100	QPSK	135	0		23.43		
100	QPSK	135	69		24.63		25.2
100	QPSK	135	138		23.38		25.7
100	QPSK	270	0		23.50		25.2
100	16QAM	1	1		23.68		
100	64QAM	1	1		22.17		
100	256QAM	1	1		20.34		21.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.92	24.85	24.75	25.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.88	24.93	24.94	25.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.81	24.87	24.93	25.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.80	24.84	24.78	25.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.92	24.80	24.85	25.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.77	24.89	24.93	25.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.85	24.76	24.79	25.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.77	24.87	24.82	25.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.86	24.92	24.93	25.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.79	24.78	24.91	25.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.79	24.87	24.84	25.7



<FR1 n78_HPUE_Ant 6_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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.68		24.7
100	PI/2 BPSK	1	137		24.42		
100	PI/2 BPSK	1	271		24.55		
100	PI/2 BPSK	135	0		24.44		24.7
100	PI/2 BPSK	135	69		24.51		24.7
100	PI/2 BPSK	135	138		24.31		24.7
100	PI/2 BPSK	270	0		24.47		
100	QPSK	1	1		24.67		24.7
100	QPSK	1	137		24.38		
100	QPSK	1	271		24.47		
100	QPSK	135	0		24.40		24.7
100	QPSK	135	69		24.34		24.7
100	QPSK	135	138		24.28		24.7
100	QPSK	270	0		24.37		
100	16QAM	1	1		24.17		24.7
100	64QAM	1	1		23.60		24.7
100	256QAM	1	1		21.91		23.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.62	24.67	24.63	24.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.56	24.63	24.59	24.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.58	24.66	24.56	24.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.62	24.64	24.56	24.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.58	24.59	24.61	24.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.61	24.58	24.63	24.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.56	24.64	24.66	24.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.57	24.62	24.58	24.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.60	24.66	24.57	24.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.61	24.58	24.56	24.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.66	24.61	24.65	24.7



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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		23.44		23.8
100	PI/2 BPSK	1	137		23.19		
100	PI/2 BPSK	1	271		23.31		
100	PI/2 BPSK	135	0		23.29		23.8
100	PI/2 BPSK	135	69		23.36		23.8
100	PI/2 BPSK	135	138		23.31		23.8
100	PI/2 BPSK	270	0		23.27		
100	QPSK	1	1		23.33		23.8
100	QPSK	1	137		23.15		
100	QPSK	1	271		23.32		
100	QPSK	135	0		23.27		23.8
100	QPSK	135	69		23.28		23.8
100	QPSK	135	138		23.37		23.8
100	QPSK	270	0		23.30		
100	16QAM	1	1		23.37		23.8
100	64QAM	1	1		22.67		23.8
100	256QAM	1	1		21.25		22.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.28	23.37	23.29	23.8
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.24	23.40	23.37	23.8
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.21	23.19	23.40	23.8
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.25	23.37	23.24	23.8
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.29	23.23	23.40	23.8
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.41	23.41	23.35	23.8
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.25	23.24	23.32	23.8
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.24	23.34	23.38	23.8
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.30	23.20	23.25	23.8
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.25	23.23	23.30	23.8
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.34	23.20	23.28	23.8



<FR1 n78_HPUE_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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.56		24.0
100	PI/2 BPSK	1	137		23.38		
100	PI/2 BPSK	1	271		23.35		
100	PI/2 BPSK	135	0		23.26		24.0
100	PI/2 BPSK	135	69		23.42		24.0
100	PI/2 BPSK	135	138		23.33		24.0
100	PI/2 BPSK	270	0		23.31		
100	QPSK	1	1		23.44		24.0
100	QPSK	1	137		23.34		
100	QPSK	1	271		23.23		
100	QPSK	135	0		23.25		24.0
100	QPSK	135	69		23.38		24.0
100	QPSK	135	138		23.22		24.0
100	QPSK	270	0		23.26		
100	16QAM	1	1		23.25		24.0
100	64QAM	1	1		22.73		23.7
100	256QAM	1	1		21.06		21.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.51	23.49	23.43	24.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.53	23.51	23.50	24.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.53	23.47	23.40	24.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.53	23.54	23.43	24.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.46	23.55	23.50	24.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.55	23.52	23.44	24.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.49	23.47	23.49	24.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.46	23.52	23.42	24.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.54	23.46	23.45	24.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.46	23.46	23.49	24.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.52	23.51	23.49	24.0



<FR1 n78_HPUE_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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.95		25.3
100	PI/2 BPSK	1	137		24.69		
100	PI/2 BPSK	1	271		24.88		
100	PI/2 BPSK	135	0		23.98		25.3
100	PI/2 BPSK	135	69		24.63		25.3
100	PI/2 BPSK	135	138		23.95		25.3
100	PI/2 BPSK	270	0		24.00		
100	QPSK	1	1		24.87		25.3
100	QPSK	1	137		24.58		
100	QPSK	1	271		24.83		
100	QPSK	135	0		23.43		25.2
100	QPSK	135	69		24.63		25.3
100	QPSK	135	138		23.38		25.2
100	QPSK	270	0		23.50		
100	16QAM	1	1		23.68		25.2
100	64QAM	1	1		22.17		23.7
100	256QAM	1	1		20.34		21.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.92	24.85	24.75	25.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.88	24.93	24.94	25.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.81	24.87	24.93	25.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.80	24.84	24.78	25.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.92	24.80	24.85	25.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.77	24.89	24.93	25.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.85	24.76	24.79	25.3
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.77	24.87	24.82	25.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.86	24.92	24.93	25.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.79	24.78	24.91	25.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.79	24.87	24.84	25.3



<FR1 n78_HPUE_Ant 6_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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.68		25.5
100	PI/2 BPSK	1	137		24.42		
100	PI/2 BPSK	1	271		24.55		
100	PI/2 BPSK	135	0		24.44		25.5
100	PI/2 BPSK	135	69		24.51		25.5
100	PI/2 BPSK	135	138		24.31		25.5
100	PI/2 BPSK	270	0		24.47		
100	QPSK	1	1		24.67		
100	QPSK	1	137		24.38		25.5
100	QPSK	1	271		24.47		
100	QPSK	135	0		24.40		
100	QPSK	135	69		24.34		25.5
100	QPSK	135	138		24.28		25.5
100	QPSK	270	0		24.37		
100	16QAM	1	1		24.17		
100	64QAM	1	1		23.60		25.0
100	256QAM	1	1		21.91		23.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.62	24.67	24.63	25.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.56	24.63	24.59	25.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.58	24.66	24.56	25.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.62	24.64	24.56	25.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.58	24.59	24.61	25.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.61	24.58	24.63	25.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.56	24.64	24.66	25.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.57	24.62	24.58	25.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.60	24.66	24.57	25.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.61	24.58	24.56	25.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.66	24.61	24.65	25.5



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.44		24.6
100	PI/2 BPSK	1	137		23.19		
100	PI/2 BPSK	1	271		23.31		
100	PI/2 BPSK	135	0		23.29		24.6
100	PI/2 BPSK	135	69		23.36		24.6
100	PI/2 BPSK	135	138		23.31		24.6
100	PI/2 BPSK	270	0		23.27		
100	QPSK	1	1		23.33		24.6
100	QPSK	1	137		23.15		
100	QPSK	1	271		23.32		
100	QPSK	135	0		23.27		24.6
100	QPSK	135	69		23.28		24.6
100	QPSK	135	138		23.37		24.6
100	QPSK	270	0		23.30		
100	16QAM	1	1		23.37		24.6
100	64QAM	1	1		22.67		24.0
100	256QAM	1	1		21.25		22.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.28	23.37	23.29	24.6
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.24	23.40	23.37	24.6
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.21	23.19	23.40	24.6
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.25	23.37	23.24	24.6
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.29	23.23	23.40	24.6
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.41	23.41	23.35	24.6
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.25	23.24	23.32	24.6
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.24	23.34	23.38	24.6
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.30	23.20	23.25	24.6
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.25	23.23	23.30	24.6
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.34	23.20	23.28	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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.56		24.8
100	PI/2 BPSK	1	137		23.38		
100	PI/2 BPSK	1	271		23.35		
100	PI/2 BPSK	135	0		23.26		24.8
100	PI/2 BPSK	135	69		23.42		24.8
100	PI/2 BPSK	135	138		23.33		24.8
100	PI/2 BPSK	270	0		23.31		
100	QPSK	1	1		23.44		24.8
100	QPSK	1	137		23.34		
100	QPSK	1	271		23.23		
100	QPSK	135	0		23.25		24.8
100	QPSK	135	69		23.38		24.8
100	QPSK	135	138		23.22		24.8
100	QPSK	270	0		23.26		
100	16QAM	1	1		23.25		24.8
100	64QAM	1	1		22.73		23.7
100	256QAM	1	1		21.06		21.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.51	23.49	23.43	24.8
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.53	23.51	23.50	24.8
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.53	23.47	23.40	24.8
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.53	23.54	23.43	24.8
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.46	23.55	23.50	24.8
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.55	23.52	23.44	24.8
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.49	23.47	23.49	24.8
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.46	23.52	23.42	24.8
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.54	23.46	23.45	24.8
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.46	23.46	23.49	24.8
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.52	23.51	23.49	24.8



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.95		26.1
100	PI/2 BPSK	1	137		24.69		
100	PI/2 BPSK	1	271		24.88		
100	PI/2 BPSK	135	0		23.98		25.7
100	PI/2 BPSK	135	69		24.63		26.1
100	PI/2 BPSK	135	138		23.95		25.7
100	PI/2 BPSK	270	0		24.00		
100	QPSK	1	1		24.87		26.1
100	QPSK	1	137		24.58		
100	QPSK	1	271		24.83		
100	QPSK	135	0		23.43		25.2
100	QPSK	135	69		24.63		26.1
100	QPSK	135	138		23.38		25.2
100	QPSK	270	0		23.50		
100	16QAM	1	1		23.68		25.2
100	64QAM	1	1		22.17		23.7
100	256QAM	1	1		20.34		21.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.92	24.85	24.75	26.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.88	24.93	24.94	26.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.81	24.87	24.93	26.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.80	24.84	24.78	26.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.92	24.80	24.85	26.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.77	24.89	24.93	26.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.85	24.76	24.79	26.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.77	24.87	24.82	26.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.86	24.92	24.93	26.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.79	24.78	24.91	26.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.79	24.87	24.84	26.1



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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		24.68		24.7
100	PI/2 BPSK	1	137		24.42		
100	PI/2 BPSK	1	271		24.55		
100	PI/2 BPSK	135	0		24.44		24.7
100	PI/2 BPSK	135	69		24.51		24.7
100	PI/2 BPSK	135	138		24.31		24.7
100	PI/2 BPSK	270	0		24.47		
100	QPSK	1	1		24.67		
100	QPSK	1	137		24.38		24.7
100	QPSK	1	271		24.47		
100	QPSK	135	0		24.40		
100	QPSK	135	69		24.34		24.7
100	QPSK	135	138		24.28		24.7
100	QPSK	270	0		24.37		
100	16QAM	1	1		24.17		
100	64QAM	1	1		23.60		24.7
100	256QAM	1	1		21.91		23.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.62	24.67	24.63	24.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.56	24.63	24.59	24.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.58	24.66	24.56	24.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.62	24.64	24.56	24.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.58	24.59	24.61	24.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.61	24.58	24.63	24.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.56	24.64	24.66	24.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.57	24.62	24.58	24.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.60	24.66	24.57	24.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.61	24.58	24.56	24.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.66	24.61	24.65	24.7



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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		24.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.56		
100	PI/2 BPSK	1	137		23.38		
100	PI/2 BPSK	1	271		23.35		
100	PI/2 BPSK	135	0		23.26		24.0
100	PI/2 BPSK	135	69		23.42		24.0
100	PI/2 BPSK	135	138		23.33		24.0
100	PI/2 BPSK	270	0		23.31		
100	QPSK	1	1		23.44		24.0
100	QPSK	1	137		23.34		
100	QPSK	1	271		23.23		
100	QPSK	135	0		23.25		24.0
100	QPSK	135	69		23.38		24.0
100	QPSK	135	138		23.22		24.0
100	QPSK	270	0		23.26		
100	16QAM	1	1		23.25		24.0
100	64QAM	1	1		22.73		23.7
100	256QAM	1	1		21.06		21.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.51	23.49	23.43	24.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.53	23.51	23.50	24.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.53	23.47	23.40	24.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.53	23.54	23.43	24.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.46	23.55	23.50	24.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.55	23.52	23.44	24.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.49	23.47	23.49	24.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.46	23.52	23.42	24.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.54	23.46	23.45	24.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.46	23.46	23.49	24.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.52	23.51	23.49	24.0



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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		24.95		25.3
100	PI/2 BPSK	1	137		24.69		
100	PI/2 BPSK	1	271		24.88		
100	PI/2 BPSK	135	0		23.98		25.3
100	PI/2 BPSK	135	69		24.63		25.3
100	PI/2 BPSK	135	138		23.95		25.3
100	PI/2 BPSK	270	0		24.00		
100	QPSK	1	1		24.87		25.3
100	QPSK	1	137		24.58		
100	QPSK	1	271		24.83		
100	QPSK	135	0		23.43		25.2
100	QPSK	135	69		24.63		25.3
100	QPSK	135	138		23.38		25.2
100	QPSK	270	0		23.50		
100	16QAM	1	1		23.68		25.2
100	64QAM	1	1		22.17		23.7
100	256QAM	1	1		20.34		21.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.92	24.85	24.75	25.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.88	24.93	24.94	25.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.81	24.87	24.93	25.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.80	24.84	24.78	25.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.92	24.80	24.85	25.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.77	24.89	24.93	25.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.85	24.76	24.79	25.3
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.77	24.87	24.82	25.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.86	24.92	24.93	25.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.79	24.78	24.91	25.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.79	24.87	24.84	25.3



<Non-terrestrial Network Note>

General Note:

1. Due to test setup limitations, SAR testing for Non-terrestrial Network was performed using Factory Test Mode software to establish the connection.

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Sub-carrier Spacing (KHz)	Modulation	SC Size	SC Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				25501	25600	25699	
Frequency (MHz)				2000.1	2010	2019.9	
3.75	BPSK	1	0	22.33	22.30	22.27	23.8
3.75	BPSK	1	46	22.68	22.64	22.51	
3.75	QPSK	1	0	22.25	22.22	22.25	
3.75	QPSK	1	46	22.71	22.57	22.64	
15	BPSK	1	0	22.19	22.59	22.24	
15	BPSK	1	10	22.07	22.49	22.12	
15	QPSK	1	0	22.16	22.55	22.21	
15	QPSK	1	10	22.05	22.49	22.11	21.8
15	QPSK	12	0	20.94	20.90	20.87	

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Sub-carrier Spacing (KHz)	Modulation	SC Size	SC Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				261505	261674	261843	
Frequency (MHz)				1626.6	1643.5	1660.4	
3.75	BPSK	1	0	22.42	22.28	22.40	24
3.75	BPSK	1	46	22.34	22.24	22.33	
3.75	QPSK	1	0	22.39	22.26	22.33	
3.75	QPSK	1	46	22.49	22.24	22.32	
15	BPSK	1	0	22.38	22.30	22.36	
15	BPSK	1	10	22.33	22.23	22.27	
15	QPSK	1	0	22.35	22.28	22.31	
15	QPSK	1	10	22.29	22.21	22.24	22
15	QPSK	12	0	20.61	20.59	20.55	