



<FR1 n48_Ant 1_Index 10>

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	
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	21.59	21.68	21.65	
40	PI/2 BPSK	1	53	21.40	21.56	21.45	23.1
40	PI/2 BPSK	1	104	21.43	21.52	21.39	
40	PI/2 BPSK	50	0	21.42	21.60	21.49	
40	PI/2 BPSK	50	28	21.52	21.61	21.51	23.1
40	PI/2 BPSK	50	56	21.47	21.57	21.48	23.0
40	PI/2 BPSK	100	0	21.50	21.60	21.57	
40	QPSK	1	1	21.48	21.66	21.61	23.1
40	QPSK	1	53	21.32	21.47	21.43	
40	QPSK	1	104	21.28	21.43	21.33	
40	QPSK	50	0	21.50	21.60	21.52	22.5
40	QPSK	50	28	21.45	21.60	21.48	23.1
40	QPSK	50	56	21.31	21.48	21.43	22.5
40	QPSK	100	0	21.43	21.52	21.42	
40	16QAM	1	1	21.34	21.44	21.35	22.5
40	64QAM	1	1	20.40	20.57	20.45	21.0
40	256QAM	1	1	18.45	18.58	18.52	19.0
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	21.54	21.66	21.46	23.1
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	21.54	21.50	21.57	23.1
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	21.59	21.59	21.52	23.1
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	21.40	21.53	21.61	23.1



<FR1 n48_Ant 2_Index 10>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm) Tune-up limit (dBm)
Channel				638000	641666	645332	21.2
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	20.24	20.43	20.50	
40	PI/2 BPSK	1	53	20.01	20.28	20.33	21.2
40	PI/2 BPSK	1	104	20.04	20.30	20.43	
40	PI/2 BPSK	50	0	20.10	20.29	20.33	
40	PI/2 BPSK	50	28	20.14	20.36	20.43	21.2
40	PI/2 BPSK	50	56	20.02	20.27	20.40	21.2
40	PI/2 BPSK	100	0	20.06	20.29	20.34	
40	QPSK	1	1	20.13	20.34	20.41	
40	QPSK	1	53	19.90	20.15	20.27	21.2
40	QPSK	1	104	19.95	20.19	20.32	
40	QPSK	50	0	19.97	20.25	20.28	
40	QPSK	50	28	20.07	20.33	20.36	21.2
40	QPSK	50	56	20.06	20.26	20.38	21.2
40	QPSK	100	0	20.02	20.28	20.40	
40	16QAM	1	1	20.21	20.48	20.41	
40	64QAM	1	1	20.09	20.34	20.46	21.2
40	256QAM	1	1	19.12	19.33	19.37	20.0
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	20.15	20.25	20.39	21.2
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	20.08	20.33	20.30	21.2
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	20.05	20.25	20.46	21.2
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	20.23	20.31	20.40	21.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				638000	641666	645332	
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	21.21	21.39	21.28	
40	PI/2 BPSK	1	53	21.10	21.31	21.14	22.1
40	PI/2 BPSK	1	104	21.00	21.25	21.12	
40	PI/2 BPSK	50	0	21.06	21.34	21.19	22.1
40	PI/2 BPSK	50	28	21.15	21.38	21.24	22.1
40	PI/2 BPSK	50	56	21.08	21.30	21.14	22.1
40	PI/2 BPSK	100	0	21.05	21.33	21.17	
40	QPSK	1	1	21.18	21.38	21.18	22.1
40	QPSK	1	53	21.04	21.23	21.04	
40	QPSK	1	104	20.94	21.17	20.97	
40	QPSK	50	0	21.06	21.28	21.08	22.1
40	QPSK	50	28	21.07	21.30	21.09	22.1
40	QPSK	50	56	20.98	21.23	21.10	22.1
40	QPSK	100	0	21.01	21.24	21.07	
40	16QAM	1	1	21.16	21.38	21.24	22.1
40	64QAM	1	1	21.04	21.28	21.12	22.0
40	256QAM	1	1	18.99	19.25	19.07	20.0
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	21.12	21.33	21.22	22.1
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	21.09	21.30	21.22	22.1
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	21.12	21.22	21.25	22.1
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	21.20	21.19	21.27	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)		
Sub carrier spacing		Channel		637000	641666	646332	637000	641666	646332
30k	Hz	Frequency (MHz)		3555	3624.99	3694.98	3555	3624.99	3694.98
10	PI/2 BPSK	1	1	19.55	19.59	19.54	20.50	20.50	20.50
10	PI/2 BPSK	1	22	19.41	19.43	19.51	20.50	20.50	20.50
10	PI/2 BPSK	12	6	19.49	19.49	19.51	20.50	20.50	20.50
10	PI/2 BPSK	1	0	19.37	19.35	19.42	20.50	20.50	20.50
10	PI/2 BPSK	1	23	19.50	19.53	19.48	20.50	20.50	20.50
10	PI/2 BPSK	24	0	19.41	19.40	19.46	20.50	20.50	20.50
10	QPSK	1	1	19.47	19.37	19.45	20.50	20.50	20.50
10	QPSK	1	22	19.44	19.35	19.44	20.50	20.50	20.50
10	QPSK	12	6	19.45	19.49	19.54	20.50	20.50	20.50
10	QPSK	1	0	19.42	19.59	19.43	20.50	20.50	20.50
10	QPSK	1	23	19.48	19.42	19.50	20.50	20.50	20.50
10	QPSK	24	0	19.26	19.22	19.13	20.50	20.50	20.50
10	16QAM	1	1	18.93	19.41	19.32	20.50	20.50	20.50
10	64QAM	1	1	18.93	19.52	19.44	20.50	20.50	20.50
10	256QAM	1	1	19.25	19.29	19.05	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	19.60	19.60	19.54	20.00	20.50	20.50
15	PI/2 BPSK	1	36	19.47	19.47	19.53	20.50	20.50	20.00
15	PI/2 BPSK	18	9	19.52	19.53	19.54	20.50	20.50	20.50
15	PI/2 BPSK	1	0	19.44	19.33	19.39	20.00	20.50	20.50
15	PI/2 BPSK	1	37	19.57	19.55	19.49	20.50	20.50	20.00
15	PI/2 BPSK	36	0	19.46	19.35	19.38	20.00	20.50	20.00
15	QPSK	1	1	19.45	19.36	19.45	20.00	20.50	20.50
15	QPSK	1	36	19.45	19.34	19.43	20.50	20.50	20.00
15	QPSK	18	9	19.49	19.47	19.53	20.50	20.50	20.50
15	QPSK	1	0	19.48	19.54	19.51	20.00	20.50	20.50
15	QPSK	1	37	19.45	19.51	19.51	20.50	20.50	20.00
15	QPSK	36	0	19.29	19.28	19.15	20.00	20.50	20.00
15	16QAM	1	1	18.95	19.41	19.39	20.00	20.50	20.50
15	64QAM	1	1	18.97	19.52	19.50	20.00	20.50	20.50
15	256QAM	1	1	19.27	19.34	19.08	20.00	20.00	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	19.61	19.62	19.54	20.00	20.50	20.50
20	PI/2 BPSK	1	49	19.51	19.48	19.57	20.50	20.50	20.00
20	PI/2 BPSK	25	12	19.53	19.58	19.56	20.50	20.50	20.50
20	PI/2 BPSK	1	0	19.44	19.43	19.42	20.00	20.50	20.50
20	PI/2 BPSK	1	50	19.57	19.60	19.54	20.50	20.50	20.00
20	PI/2 BPSK	50	0	19.47	19.43	19.46	20.00	20.50	20.00
20	QPSK	1	1	19.47	19.44	19.46	20.00	20.50	20.50
20	QPSK	1	49	19.46	19.39	19.46	20.50	20.50	20.00
20	QPSK	25	12	19.50	19.49	19.54	20.50	20.50	20.50
20	QPSK	1	0	19.51	19.60	19.52	20.00	20.50	20.50
20	QPSK	1	50	19.54	19.51	19.52	20.50	20.50	20.00
20	QPSK	50	0	19.33	19.32	19.23	20.00	20.50	20.00
20	16QAM	1	1	19.00	19.44	19.41	20.00	20.50	20.50
20	64QAM	1	1	19.03	19.56	19.53	20.00	20.50	20.50
20	256QAM	1	1	19.32	19.34	19.14	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



FCC SAR TEST REPORT

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30	PI/2 BPSK	1	1	12.23	19.63	12.26	13.00	20.50	13.00
30	PI/2 BPSK	1	76	12.19	19.57	12.17	13.00	20.50	13.00
30	PI/2 BPSK	36	18	12.28	19.66	19.58	13.00	20.50	20.50
30	PI/2 BPSK	1	0	12.27	19.51	12.23	13.00	20.50	13.00
30	PI/2 BPSK	1	77	12.39	19.61	12.06	13.00	20.50	13.00
30	PI/2 BPSK	75	0	12.18	19.47	12.22	13.00	20.50	13.00
30	QPSK	1	1	12.21	19.53	12.32	13.00	20.50	13.00
30	QPSK	1	76	12.31	19.49	12.13	13.00	20.50	13.00
30	QPSK	36	18	12.17	19.57	19.53	13.00	20.50	20.50
30	QPSK	1	0	12.31	19.61	12.33	13.00	20.50	13.00
30	QPSK	1	77	12.29	19.59	12.22	13.00	20.50	13.00
30	QPSK	75	0	12.35	19.33	12.24	13.00	20.50	13.00
30	16QAM	1	1	11.75	19.50	11.62	12.50	20.50	12.50
30	64QAM	1	1	11.68	19.59	11.86	12.50	20.50	12.50
30	256QAM	1	1	11.85	19.41	11.90	12.50	20.00	12.50
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	12.45	19.67	12.10	13.00	20.50	13.00
40	PI/2 BPSK	1	104	12.24	19.66	12.05	13.00	20.50	13.00
40	PI/2 BPSK	50	25	12.35	19.68	12.12	13.00	20.50	13.00
40	PI/2 BPSK	1	0	12.43	19.56	12.27	13.00	20.50	13.00
40	PI/2 BPSK	1	105	12.31	19.61	12.13	13.00	20.50	13.00
40	PI/2 BPSK	100	0	12.36	19.47	12.08	13.00	20.50	13.00
40	QPSK	1	1	12.38	19.62	12.12	13.00	20.50	13.00
40	QPSK	1	104	12.26	19.53	12.02	13.00	20.50	13.00
40	QPSK	50	25	12.26	19.66	12.11	13.00	20.50	13.00
40	QPSK	1	0	12.31	19.63	12.12	13.00	20.50	13.00
40	QPSK	1	105	12.21	19.59	12.01	13.00	20.50	13.00
40	QPSK	100	0	12.21	19.34	12.06	13.00	20.50	13.00
40	16QAM	1	1	11.97	19.56	11.76	12.50	20.50	12.50
40	64QAM	1	1	11.80	19.59	11.65	12.50	20.50	12.50
40	256QAM	1	1	11.77	19.51	11.62	12.50	20.00	12.50



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				638000	641666	645332	22.4
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	21.59	21.68	21.65	
40	PI/2 BPSK	1	53	21.40	21.56	21.45	22.4
40	PI/2 BPSK	1	104	21.43	21.52	21.39	
40	PI/2 BPSK	50	0	21.42	21.60	21.49	
40	PI/2 BPSK	50	28	21.52	21.61	21.51	22.4
40	PI/2 BPSK	50	56	21.47	21.57	21.48	22.4
40	PI/2 BPSK	100	0	21.50	21.60	21.57	
40	QPSK	1	1	21.48	21.66	21.61	
40	QPSK	1	53	21.32	21.47	21.43	22.4
40	QPSK	1	104	21.28	21.43	21.33	
40	QPSK	50	0	21.50	21.60	21.52	
40	QPSK	50	28	21.45	21.60	21.48	22.4
40	QPSK	50	56	21.31	21.48	21.43	22.4
40	QPSK	100	0	21.43	21.52	21.42	
40	16QAM	1	1	21.34	21.44	21.35	
40	64QAM	1	1	20.40	20.57	20.45	21.0
40	256QAM	1	1	18.45	18.58	18.52	19.0
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	21.54	21.66	21.46	
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	21.54	21.50	21.57	
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	21.59	21.59	21.52	
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	21.40	21.53	21.61	



<FR1 n48_Ant 2_Index 11>

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	20.5
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	20.24	20.43	20.50	
40	PI/2 BPSK	1	53	20.01	20.28	20.33	20.5
40	PI/2 BPSK	1	104	20.04	20.30	20.43	
40	PI/2 BPSK	50	0	20.10	20.29	20.33	
40	PI/2 BPSK	50	28	20.14	20.36	20.43	20.5
40	PI/2 BPSK	50	56	20.02	20.27	20.40	20.5
40	PI/2 BPSK	100	0	20.06	20.29	20.34	
40	QPSK	1	1	20.13	20.34	20.41	
40	QPSK	1	53	19.90	20.15	20.27	20.5
40	QPSK	1	104	19.95	20.19	20.32	
40	QPSK	50	0	19.97	20.25	20.28	
40	QPSK	50	28	20.07	20.33	20.36	20.5
40	QPSK	50	56	20.06	20.26	20.38	20.5
40	QPSK	100	0	20.02	20.28	20.40	
40	16QAM	1	1	20.21	20.48	20.41	
40	64QAM	1	1	20.09	20.34	20.46	20.5
40	256QAM	1	1	19.12	19.33	19.37	20.0
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	20.15	20.25	20.39	20.5
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	20.08	20.33	20.30	20.5
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	20.05	20.25	20.46	20.5
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	20.23	20.31	20.40	20.5



<FR1 n48_Ant 5_Index 11>

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	21.4
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	21.21	21.39	21.28	
40	PI/2 BPSK	1	53	21.10	21.31	21.14	21.4
40	PI/2 BPSK	1	104	21.00	21.25	21.12	
40	PI/2 BPSK	50	0	21.06	21.34	21.19	
40	PI/2 BPSK	50	28	21.15	21.38	21.24	21.4
40	PI/2 BPSK	50	56	21.08	21.30	21.14	21.4
40	PI/2 BPSK	100	0	21.05	21.33	21.17	
40	QPSK	1	1	21.18	21.38	21.18	
40	QPSK	1	53	21.04	21.23	21.04	21.4
40	QPSK	1	104	20.94	21.17	20.97	
40	QPSK	50	0	21.06	21.28	21.08	
40	QPSK	50	28	21.07	21.30	21.09	21.4
40	QPSK	50	56	20.98	21.23	21.10	21.4
40	QPSK	100	0	21.01	21.24	21.07	
40	16QAM	1	1	21.16	21.38	21.24	
40	64QAM	1	1	21.04	21.28	21.12	21.4
40	256QAM	1	1	18.99	19.25	19.07	20.0
Channel				637668	641666	645666	Tune-up limit (dBm)
Frequency (MHz)				3565.02	3624.99	3684.99	
30	PI/2 BPSK	1	1	21.12	21.33	21.22	
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	21.09	21.30	21.22	
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	21.12	21.22	21.25	
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	21.20	21.19	21.27	



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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	24.39	24.77	24.25	
100	PI/2 BPSK	1	137	24.43	24.48	23.93	25.0
100	PI/2 BPSK	1	271	24.75	24.76	24.24	
100	PI/2 BPSK	135	0	24.41	24.48	23.89	
100	PI/2 BPSK	135	69	24.49	24.56	23.96	25.0
100	PI/2 BPSK	135	138	24.45	24.54	23.92	25.0
100	PI/2 BPSK	270	0	24.44	24.49	23.90	
100	QPSK	1	1	24.62	24.75	24.17	
100	QPSK	1	137	24.34	24.41	23.87	25.0
100	QPSK	1	271	24.69	24.73	24.21	
100	QPSK	135	0	24.41	24.54	24.00	
100	QPSK	135	69	24.48	24.55	24.02	25.0
100	QPSK	135	138	24.42	24.52	23.94	25.0
100	QPSK	270	0	24.40	24.50	24.00	
100	16QAM	1	1	23.73	23.77	23.22	
100	64QAM	1	1	22.10	22.10	21.53	22.5
100	256QAM	1	1	20.07	20.07	19.53	20.5
Channel				649668	656000	662332	25.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.35	24.65	24.21	
Channel				649334	656000	662666	25.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.37	24.63	24.21	
Channel				649000	656000	663000	25.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.37	24.64	24.10	
Channel				648668	656000	663332	25.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.27	24.63	24.23	
Channel				648334	656000	663666	25.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.32	24.74	24.18	
Channel				648000	656000	664000	25.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.35	24.74	24.23	
Channel				647668	656000	664332	25.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.34	24.66	24.09	
Channel				647500	656000	664500	25.0
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.30	24.71	24.07	
Channel				647334	656000	664666	25.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.36	24.69	24.20	
Channel				647168	656000	664832	25.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.38	24.58	24.18	
Channel				647000	656000	665000	25.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.29	24.73	24.06	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	16.7
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	15.49	15.50	15.39	
100	PI/2 BPSK	1	137	15.18	15.16	15.07	16.7
100	PI/2 BPSK	1	271	15.44	15.45	15.37	
100	PI/2 BPSK	135	0	15.30	15.39	15.16	
100	PI/2 BPSK	135	69	15.15	15.16	15.03	16.7
100	PI/2 BPSK	135	138	15.30	15.28	15.20	16.7
100	PI/2 BPSK	270	0	15.21	15.23	15.11	
100	QPSK	1	1	15.24	15.25	15.16	
100	QPSK	1	137	15.08	15.07	14.94	16.7
100	QPSK	1	271	15.40	15.42	15.29	
100	QPSK	135	0	15.29	15.29	15.17	
100	QPSK	135	69	15.19	15.20	15.09	16.7
100	QPSK	135	138	15.31	15.31	15.17	16.7
100	QPSK	270	0	15.29	15.28	15.14	
100	16QAM	1	1	15.34	15.33	15.22	
100	64QAM	1	1	15.20	15.18	15.09	16.7
100	256QAM	1	1	15.15	15.19	15.07	16.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	15.30	15.41	15.25	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	15.32	15.38	15.25	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	15.29	15.33	15.18	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	15.38	15.32	15.27	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	15.36	15.37	15.31	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	15.37	15.32	15.14	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	15.27	15.34	15.19	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	15.32	15.30	15.33	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	15.28	15.29	15.26	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	15.43	15.38	15.24	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	15.33	15.41	15.32	



<FR1 n77_Ant 2_Index 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	25.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.31	24.32	23.97	
100	PI/2 BPSK	1	137	23.97	23.90	23.54	25.0
100	PI/2 BPSK	1	271	24.26	24.17	23.91	
100	PI/2 BPSK	135	0	24.00	23.86	23.55	
100	PI/2 BPSK	135	69	24.01	23.93	23.64	25.0
100	PI/2 BPSK	135	138	24.00	23.86	23.60	
100	PI/2 BPSK	270	0	23.97	23.92	23.54	
100	QPSK	1	1	24.28	24.22	23.93	25.0
100	QPSK	1	137	24.23	24.15	23.85	
100	QPSK	1	271	24.26	24.26	23.86	
100	QPSK	135	0	24.17	24.07	23.80	25.0
100	QPSK	135	69	24.20	24.13	23.86	
100	QPSK	135	138	24.17	24.08	23.84	
100	QPSK	270	0	24.13	24.11	23.78	25.0
100	16QAM	1	1	23.48	23.41	23.14	
100	64QAM	1	1	22.05	22.02	21.66	
100	256QAM	1	1	20.06	20.07	19.66	20.5
Channel				649668	656000	662332	25.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.13	24.19	23.81	
Channel				649334	656000	662666	25.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.24	24.17	23.96	
Channel				649000	656000	663000	25.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.31	24.12	23.97	
Channel				648668	656000	663332	25.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.27	24.14	23.88	
Channel				648334	656000	663666	25.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.18	24.17	23.85	
Channel				648000	656000	664000	25.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.13	24.15	23.97	
Channel				647668	656000	664332	25.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.25	24.23	23.93	
Channel				647500	656000	664500	25.0
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.28	24.20	23.77	
Channel				647334	656000	664666	25.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.26	24.28	23.83	
Channel				647168	656000	664832	25.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.20	24.20	23.94	
Channel				647000	656000	665000	25.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.22	24.15	23.92	



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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	23.38	23.32	23.65	
100	PI/2 BPSK	1	137	23.08	23.05	23.25	24.7
100	PI/2 BPSK	1	271	23.24	23.21	23.40	
100	PI/2 BPSK	135	0	23.02	23.03	23.17	
100	PI/2 BPSK	135	69	23.14	23.06	23.26	24.7
100	PI/2 BPSK	135	138	23.01	23.08	23.21	24.7
100	PI/2 BPSK	270	0	23.01	23.05	23.17	
100	QPSK	1	1	23.43	23.48	23.62	
100	QPSK	1	137	23.06	23.04	23.20	24.7
100	QPSK	1	271	22.73	22.70	22.71	
100	QPSK	135	0	23.08	23.13	23.28	
100	QPSK	135	69	23.18	23.16	23.33	24.7
100	QPSK	135	138	23.08	23.14	23.28	24.7
100	QPSK	270	0	23.01	23.02	23.15	
100	16QAM	1	1	23.47	23.46	23.58	
100	64QAM	1	1	21.92	21.89	22.08	22.5
100	256QAM	1	1	19.97	19.94	20.07	20.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	23.26	23.21	23.50	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	23.21	23.14	23.52	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.26	23.13	23.45	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.21	23.21	23.51	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.27	23.13	23.53	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	23.22	23.16	23.45	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.26	23.21	23.46	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.25	23.12	23.47	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	23.18	23.18	23.50	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	23.28	23.15	23.50	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.28	23.20	23.47	



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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	24.39	24.77	24.25	
100	PI/2 BPSK	1	137	24.43	24.48	23.93	25.0
100	PI/2 BPSK	1	271	24.75	24.76	24.24	
100	PI/2 BPSK	135	0	24.41	24.48	23.89	
100	PI/2 BPSK	135	69	24.49	24.56	23.96	25.0
100	PI/2 BPSK	135	138	24.45	24.54	23.92	25.0
100	PI/2 BPSK	270	0	24.44	24.49	23.90	
100	QPSK	1	1	24.62	24.75	24.17	
100	QPSK	1	137	24.34	24.41	23.87	25.0
100	QPSK	1	271	24.69	24.73	24.21	
100	QPSK	135	0	24.41	24.54	24.00	
100	QPSK	135	69	24.48	24.55	24.02	25.0
100	QPSK	135	138	24.42	24.52	23.94	25.0
100	QPSK	270	0	24.40	24.50	24.00	
100	16QAM	1	1	23.73	23.77	23.22	
100	64QAM	1	1	22.10	22.10	21.53	22.5
100	256QAM	1	1	20.07	20.07	19.53	20.5
Channel				649668	656000	662332	25.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.35	24.65	24.21	
Channel				649334	656000	662666	25.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.37	24.63	24.21	
Channel				649000	656000	663000	25.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.37	24.64	24.10	
Channel				648668	656000	663332	25.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.27	24.63	24.23	
Channel				648334	656000	663666	25.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.32	24.74	24.18	
Channel				648000	656000	664000	25.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.35	24.74	24.23	
Channel				647668	656000	664332	25.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.34	24.66	24.09	
Channel				647500	656000	664500	25.0
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.30	24.71	24.07	
Channel				647334	656000	664666	25.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.36	24.69	24.20	
Channel				647168	656000	664832	25.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.38	24.58	24.18	
Channel				647000	656000	665000	25.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.29	24.73	24.06	



<FR1 n77_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				650000	656000	662000	16.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	15.49	15.50	15.39	
100	PI/2 BPSK	1	137	15.18	15.16	15.07	16.0
100	PI/2 BPSK	1	271	15.44	15.45	15.37	
100	PI/2 BPSK	135	0	15.30	15.39	15.16	
100	PI/2 BPSK	135	69	15.15	15.16	15.03	16.0
100	PI/2 BPSK	135	138	15.30	15.28	15.20	16.0
100	PI/2 BPSK	270	0	15.21	15.23	15.11	
100	QPSK	1	1	15.24	15.25	15.16	
100	QPSK	1	137	15.08	15.07	14.94	16.0
100	QPSK	1	271	15.40	15.42	15.29	
100	QPSK	135	0	15.29	15.29	15.17	
100	QPSK	135	69	15.19	15.20	15.09	16.0
100	QPSK	135	138	15.31	15.31	15.17	16.0
100	QPSK	270	0	15.29	15.28	15.14	
100	16QAM	1	1	15.34	15.33	15.22	
100	64QAM	1	1	15.20	15.18	15.09	16.0
100	256QAM	1	1	15.15	15.19	15.07	16.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	15.30	15.41	15.25	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	15.32	15.38	15.25	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	15.29	15.33	15.18	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	15.38	15.32	15.27	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	15.36	15.37	15.31	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	15.37	15.32	15.14	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	15.27	15.34	15.19	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	15.32	15.30	15.33	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	15.28	15.29	15.26	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	15.43	15.38	15.24	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	15.33	15.41	15.32	



<FR1 n77_Ant 2_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	25.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.31	24.32	23.97	
100	PI/2 BPSK	1	137	23.97	23.90	23.54	25.0
100	PI/2 BPSK	1	271	24.26	24.17	23.91	
100	PI/2 BPSK	135	0	24.00	23.86	23.55	
100	PI/2 BPSK	135	69	24.01	23.93	23.64	25.0
100	PI/2 BPSK	135	138	24.00	23.86	23.60	
100	PI/2 BPSK	270	0	23.97	23.92	23.54	
100	QPSK	1	1	24.28	24.22	23.93	25.0
100	QPSK	1	137	24.23	24.15	23.85	
100	QPSK	1	271	24.26	24.26	23.86	
100	QPSK	135	0	24.17	24.07	23.80	25.0
100	QPSK	135	69	24.20	24.13	23.86	
100	QPSK	135	138	24.17	24.08	23.84	
100	QPSK	270	0	24.13	24.11	23.78	25.0
100	16QAM	1	1	23.48	23.41	23.14	
100	64QAM	1	1	22.05	22.02	21.66	
100	256QAM	1	1	20.06	20.07	19.66	20.5
Channel				649668	656000	662332	25.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.13	24.19	23.81	
Channel				649334	656000	662666	25.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.24	24.17	23.96	
Channel				649000	656000	663000	25.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.31	24.12	23.97	
Channel				648668	656000	663332	25.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.27	24.14	23.88	
Channel				648334	656000	663666	25.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.18	24.17	23.85	
Channel				648000	656000	664000	25.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.13	24.15	23.97	
Channel				647668	656000	664332	25.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.25	24.23	23.93	
Channel				647500	656000	664500	25.0
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.28	24.20	23.77	
Channel				647334	656000	664666	25.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.26	24.28	23.83	
Channel				647168	656000	664832	25.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.20	24.20	23.94	
Channel				647000	656000	665000	25.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.22	24.15	23.92	



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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	23.38	23.32	23.65	
100	PI/2 BPSK	1	137	23.08	23.05	23.25	24.0
100	PI/2 BPSK	1	271	23.24	23.21	23.40	
100	PI/2 BPSK	135	0	23.02	23.03	23.17	
100	PI/2 BPSK	135	69	23.14	23.06	23.26	24.0
100	PI/2 BPSK	135	138	23.01	23.08	23.21	24.0
100	PI/2 BPSK	270	0	23.01	23.05	23.17	
100	QPSK	1	1	23.43	23.48	23.62	
100	QPSK	1	137	23.06	23.04	23.20	24.0
100	QPSK	1	271	22.73	22.70	22.71	
100	QPSK	135	0	23.08	23.13	23.28	
100	QPSK	135	69	23.18	23.16	23.33	24.0
100	QPSK	135	138	23.08	23.14	23.28	24.0
100	QPSK	270	0	23.01	23.02	23.15	
100	16QAM	1	1	23.47	23.46	23.58	
100	64QAM	1	1	21.92	21.89	22.08	22.5
100	256QAM	1	1	19.97	19.94	20.07	20.5
Channel				649668	656000	662332	24.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	23.26	23.21	23.50	
Channel				649334	656000	662666	24.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	23.21	23.14	23.52	
Channel				649000	656000	663000	24.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.26	23.13	23.45	
Channel				648668	656000	663332	24.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.21	23.21	23.51	
Channel				648334	656000	663666	24.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.27	23.13	23.53	
Channel				648000	656000	664000	24.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	23.22	23.16	23.45	
Channel				647668	656000	664332	24.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.26	23.21	23.46	
Channel				647500	656000	664500	24.0
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.25	23.12	23.47	
Channel				647334	656000	664666	24.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	23.18	23.18	23.50	
Channel				647168	656000	664832	24.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	23.28	23.15	23.50	
Channel				647000	656000	665000	24.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.28	23.20	23.47	



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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	21.6
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	21.50	21.60	21.57	
100	PI/2 BPSK	1	137	21.28	21.28	21.28	21.6
100	PI/2 BPSK	1	271	21.37	21.55	21.55	
100	PI/2 BPSK	135	0	21.37	21.42	21.42	
100	PI/2 BPSK	135	69	21.24	21.30	21.30	21.6
100	PI/2 BPSK	135	138	21.44	21.44	21.44	21.6
100	PI/2 BPSK	270	0	21.22	21.38	21.38	
100	QPSK	1	1	21.44	21.43	21.43	
100	QPSK	1	137	21.04	21.19	21.07	21.6
100	QPSK	1	271	21.41	21.54	21.53	
100	QPSK	135	0	21.28	21.40	21.28	
100	QPSK	135	69	21.09	21.28	21.12	21.6
100	QPSK	135	138	21.37	21.41	21.26	21.6
100	QPSK	270	0	21.16	21.36	21.34	
100	16QAM	1	1	21.56	21.51	21.36	
100	64QAM	1	1	21.39	21.40	21.47	21.6
100	256QAM	1	1	19.90	19.89	19.98	20.5
Channel				649668	656000	662332	21.6
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.45	21.55	21.54	
Channel				649334	656000	662666	21.6
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.40	21.50	21.48	
Channel				649000	656000	663000	21.6
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	21.47	21.60	21.46	
Channel				648668	656000	663332	21.6
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.31	21.53	21.47	
Channel				648334	656000	663666	21.6
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.35	21.60	21.50	
Channel				648000	656000	664000	21.6
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.37	21.50	21.58	
Channel				647668	656000	664332	21.6
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	21.34	21.49	21.55	
Channel				647500	656000	664500	21.6
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	21.39	21.55	21.58	
Channel				647334	656000	664666	21.6
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	21.36	21.54	21.45	
Channel				647168	656000	664832	21.6
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.43	21.52	21.48	
Channel				647000	656000	665000	21.6
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.35	21.51	21.44	



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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	21.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	20.66	20.68	20.65	
100	PI/2 BPSK	1	137	20.29	20.36	20.29	21.5
100	PI/2 BPSK	1	271	20.55	20.62	20.53	
100	PI/2 BPSK	135	0	20.37	20.43	20.40	
100	PI/2 BPSK	135	69	20.29	20.33	20.28	21.5
100	PI/2 BPSK	135	138	20.44	20.46	20.43	
100	PI/2 BPSK	270	0	20.33	20.40	20.32	
100	QPSK	1	1	20.34	20.41	20.36	21.5
100	QPSK	1	137	20.13	20.21	20.18	
100	QPSK	1	271	20.53	20.59	20.55	
100	QPSK	135	0	20.39	20.43	20.39	21.5
100	QPSK	135	69	20.25	20.32	20.24	
100	QPSK	135	138	20.38	20.46	20.39	
100	QPSK	270	0	20.34	20.39	20.30	21.5
100	16QAM	1	1	20.46	20.54	20.45	
100	64QAM	1	1	20.30	20.36	20.29	
100	256QAM	1	1	18.79	18.87	18.79	19.5
Channel				649668	656000	662332	21.5
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	20.59	20.62	20.61	
Channel				649334	656000	662666	21.5
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	20.60	20.67	20.62	
Channel				649000	656000	663000	21.5
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	20.65	20.65	20.63	
Channel				648668	656000	663332	21.5
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	20.65	20.61	20.59	
Channel				648334	656000	663666	21.5
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	20.59	20.67	20.64	
Channel				648000	656000	664000	21.5
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	20.64	20.61	20.59	
Channel				647668	656000	664332	21.5
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	20.65	20.63	20.64	
Channel				647500	656000	664500	21.5
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	20.60	20.66	20.61	
Channel				647334	656000	664666	21.5
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	20.62	20.67	20.61	
Channel				647168	656000	664832	21.5
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	20.63	20.61	20.64	
Channel				647000	656000	665000	21.5
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	20.63	20.62	20.63	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	20.2
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.59	19.60	19.59	
100	PI/2 BPSK	1	137	19.32	19.48	19.30	20.2
100	PI/2 BPSK	1	271	19.42	19.58	19.47	
100	PI/2 BPSK	135	0	19.34	19.54	19.37	
100	PI/2 BPSK	135	69	19.40	19.52	19.36	20.2
100	PI/2 BPSK	135	138	19.44	19.58	19.45	20.2
100	PI/2 BPSK	270	0	19.39	19.56	19.44	
100	QPSK	1	1	19.34	19.51	19.37	
100	QPSK	1	137	19.22	19.41	19.29	20.2
100	QPSK	1	271	19.49	19.59	19.42	
100	QPSK	135	0	19.42	19.54	19.44	
100	QPSK	135	69	19.41	19.52	19.39	20.2
100	QPSK	135	138	19.45	19.57	19.39	20.2
100	QPSK	270	0	19.42	19.55	19.37	
100	16QAM	1	1	19.42	19.59	19.48	
100	64QAM	1	1	19.31	19.47	19.29	20.2
100	256QAM	1	1	19.30	19.47	19.33	20.2
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.47	19.46	19.39	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	19.45	19.45	19.41	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	19.45	19.47	19.43	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	19.42	19.42	19.45	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	19.44	19.43	19.42	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	19.49	19.41	19.45	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.42	19.45	19.40	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	19.45	19.41	19.42	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.47	19.42	19.49	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.42	19.47	19.44	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	19.44	19.44	19.45	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	24.8
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.30	24.19	23.84	
100	PI/2 BPSK	1	137	24.04	23.98	23.63	24.8
100	PI/2 BPSK	1	271	24.27	24.17	23.73	
100	PI/2 BPSK	135	0	24.04	24.00	23.53	
100	PI/2 BPSK	135	69	24.08	24.00	23.64	24.8
100	PI/2 BPSK	135	138	23.99	23.96	23.61	24.8
100	PI/2 BPSK	270	0	24.05	23.97	23.59	
100	QPSK	1	1	24.25	24.17	23.82	
100	QPSK	1	137	24.07	24.03	23.62	24.8
100	QPSK	1	271	24.21	24.16	23.76	
100	QPSK	135	0	24.19	24.08	23.73	
100	QPSK	135	69	24.20	24.15	23.74	24.8
100	QPSK	135	138	24.14	24.11	23.70	24.8
100	QPSK	270	0	24.15	24.11	23.71	
100	16QAM	1	1	23.30	23.26	22.85	
100	64QAM	1	1	21.70	21.63	21.25	22.5
100	256QAM	1	1	19.63	19.62	19.21	20.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.14	24.09	23.66	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.10	24.01	23.64	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.11	24.10	23.73	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.24	24.16	23.83	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.21	24.05	23.78	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.19	24.02	23.75	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.24	24.03	23.70	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.28	24.06	23.71	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.12	24.15	23.79	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.13	24.03	23.65	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.10	24.12	23.77	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	22.3
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	21.50	21.60	21.57	
100	PI/2 BPSK	1	137	21.28	21.28	21.28	22.3
100	PI/2 BPSK	1	271	21.37	21.55	21.55	
100	PI/2 BPSK	135	0	21.37	21.42	21.42	
100	PI/2 BPSK	135	69	21.24	21.30	21.30	22.3
100	PI/2 BPSK	135	138	21.44	21.44	21.44	22.3
100	PI/2 BPSK	270	0	21.22	21.38	21.38	
100	QPSK	1	1	21.44	21.43	21.43	
100	QPSK	1	137	21.04	21.19	21.07	22.3
100	QPSK	1	271	21.41	21.54	21.53	
100	QPSK	135	0	21.28	21.40	21.28	
100	QPSK	135	69	21.09	21.28	21.12	22.3
100	QPSK	135	138	21.37	21.41	21.26	22.3
100	QPSK	270	0	21.16	21.36	21.34	
100	16QAM	1	1	21.56	21.51	21.36	
100	64QAM	1	1	21.39	21.40	21.47	22.3
100	256QAM	1	1	19.90	19.89	19.98	20.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.45	21.55	21.54	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.40	21.50	21.48	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	21.47	21.60	21.46	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.31	21.53	21.47	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.35	21.60	21.50	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.37	21.50	21.58	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	21.34	21.49	21.55	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	21.39	21.55	21.58	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	21.36	21.54	21.45	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.43	21.52	21.48	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.35	21.51	21.44	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	22.2
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	20.66	20.68	20.65	
100	PI/2 BPSK	1	137	20.29	20.36	20.29	22.2
100	PI/2 BPSK	1	271	20.55	20.62	20.53	
100	PI/2 BPSK	135	0	20.37	20.43	20.40	
100	PI/2 BPSK	135	69	20.29	20.33	20.28	22.2
100	PI/2 BPSK	135	138	20.44	20.46	20.43	22.2
100	PI/2 BPSK	270	0	20.33	20.40	20.32	
100	QPSK	1	1	20.34	20.41	20.36	
100	QPSK	1	137	20.26	20.21	20.26	22.2
100	QPSK	1	271	20.53	20.59	20.55	
100	QPSK	135	0	20.39	20.43	20.39	
100	QPSK	135	69	20.25	20.32	20.24	22.2
100	QPSK	135	138	20.38	20.46	20.39	22.2
100	QPSK	270	0	20.34	20.39	20.30	
100	16QAM	1	1	20.46	20.54	20.45	
100	64QAM	1	1	20.30	20.36	20.29	21.5
100	256QAM	1	1	18.79	18.87	18.79	19.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	20.59	20.62	20.61	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	20.60	20.67	20.62	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	20.65	20.65	20.63	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	20.65	20.61	20.59	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	20.59	20.67	20.64	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	20.64	20.61	20.59	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	20.65	20.63	20.64	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	20.60	20.66	20.61	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	20.62	20.67	20.61	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	20.63	20.61	20.64	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	20.63	20.62	20.63	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	20.9
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.59	19.60	19.59	
100	PI/2 BPSK	1	137	19.32	19.48	19.30	20.9
100	PI/2 BPSK	1	271	19.42	19.58	19.47	
100	PI/2 BPSK	135	0	19.34	19.54	19.37	
100	PI/2 BPSK	135	69	19.40	19.52	19.36	20.9
100	PI/2 BPSK	135	138	19.44	19.58	19.45	20.9
100	PI/2 BPSK	270	0	19.39	19.56	19.44	
100	QPSK	1	1	19.34	19.51	19.37	
100	QPSK	1	137	19.22	19.41	19.29	20.9
100	QPSK	1	271	19.49	19.59	19.42	
100	QPSK	135	0	19.42	19.54	19.44	
100	QPSK	135	69	19.41	19.52	19.39	20.9
100	QPSK	135	138	19.45	19.57	19.39	20.9
100	QPSK	270	0	19.42	19.55	19.37	
100	16QAM	1	1	19.42	19.59	19.48	
100	64QAM	1	1	19.31	19.47	19.29	20.9
100	256QAM	1	1	19.30	19.47	19.33	20.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.47	19.46	19.39	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	19.45	19.45	19.41	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	19.45	19.47	19.43	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	19.42	19.42	19.45	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	19.44	19.43	19.42	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	19.49	19.41	19.45	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.42	19.45	19.40	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	19.45	19.41	19.42	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.47	19.42	19.49	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.42	19.47	19.44	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	19.44	19.44	19.45	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	25.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.30	24.19	23.84	
100	PI/2 BPSK	1	137	24.04	23.98	23.63	25.0
100	PI/2 BPSK	1	271	24.27	24.17	23.73	
100	PI/2 BPSK	135	0	24.04	24.00	23.53	
100	PI/2 BPSK	135	69	24.08	24.00	23.64	25.0
100	PI/2 BPSK	135	138	23.99	23.96	23.61	25.0
100	PI/2 BPSK	270	0	24.05	23.97	23.59	
100	QPSK	1	1	24.25	24.17	23.82	
100	QPSK	1	137	24.07	24.03	23.62	25.0
100	QPSK	1	271	24.21	24.16	23.76	
100	QPSK	135	0	24.19	24.08	23.73	
100	QPSK	135	69	24.20	24.15	23.74	25.0
100	QPSK	135	138	24.14	24.11	23.70	25.0
100	QPSK	270	0	24.15	24.11	23.71	
100	16QAM	1	1	23.30	23.26	22.85	
100	64QAM	1	1	21.70	21.63	21.25	22.5
100	256QAM	1	1	19.63	19.62	19.21	20.5
Channel				649668	656000	662332	25.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.14	24.09	23.66	
Channel				649334	656000	662666	25.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.10	24.01	23.64	
Channel				649000	656000	663000	25.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.11	24.10	23.73	
Channel				648668	656000	663332	25.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.24	24.16	23.83	
Channel				648334	656000	663666	25.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.21	24.05	23.78	
Channel				648000	656000	664000	25.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.19	24.02	23.75	
Channel				647668	656000	664332	25.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.24	24.03	23.70	
Channel				647500	656000	664500	25.0
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.28	24.06	23.71	
Channel				647334	656000	664666	25.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.12	24.15	23.79	
Channel				647168	656000	664832	25.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.13	24.03	23.65	
Channel				647000	656000	665000	25.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.10	24.12	23.77	



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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	21.6
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	21.50	21.60	21.57	
100	PI/2 BPSK	1	137	21.28	21.28	21.28	21.6
100	PI/2 BPSK	1	271	21.37	21.55	21.55	
100	PI/2 BPSK	135	0	21.37	21.42	21.42	
100	PI/2 BPSK	135	69	21.24	21.30	21.30	21.6
100	PI/2 BPSK	135	138	21.44	21.44	21.44	21.6
100	PI/2 BPSK	270	0	21.22	21.38	21.38	
100	QPSK	1	1	21.44	21.43	21.43	
100	QPSK	1	137	21.04	21.19	21.07	21.6
100	QPSK	1	271	21.41	21.54	21.53	
100	QPSK	135	0	21.28	21.40	21.28	
100	QPSK	135	69	21.09	21.28	21.12	21.6
100	QPSK	135	138	21.37	21.41	21.26	21.6
100	QPSK	270	0	21.16	21.36	21.34	
100	16QAM	1	1	21.56	21.51	21.36	
100	64QAM	1	1	21.39	21.40	21.47	21.6
100	256QAM	1	1	19.90	19.89	19.98	20.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.45	21.55	21.54	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.40	21.50	21.48	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	21.47	21.60	21.46	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.31	21.53	21.47	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.35	21.60	21.50	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.37	21.50	21.58	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	21.34	21.49	21.55	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	21.39	21.55	21.58	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	21.36	21.54	21.45	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.43	21.52	21.48	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.35	21.51	21.44	



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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	21.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	20.66	20.68	20.65	
100	PI/2 BPSK	1	137	20.29	20.36	20.29	21.5
100	PI/2 BPSK	1	271	20.55	20.62	20.53	
100	PI/2 BPSK	135	0	20.37	20.43	20.40	
100	PI/2 BPSK	135	69	20.29	20.33	20.28	21.5
100	PI/2 BPSK	135	138	20.44	20.46	20.43	21.5
100	PI/2 BPSK	270	0	20.33	20.40	20.32	
100	QPSK	1	1	20.34	20.41	20.36	
100	QPSK	1	137	20.26	20.21	20.26	21.5
100	QPSK	1	271	20.53	20.59	20.55	
100	QPSK	135	0	20.39	20.43	20.39	
100	QPSK	135	69	20.25	20.32	20.24	21.5
100	QPSK	135	138	20.38	20.46	20.39	21.5
100	QPSK	270	0	20.34	20.39	20.30	
100	16QAM	1	1	20.46	20.54	20.45	
100	64QAM	1	1	20.30	20.36	20.29	21.5
100	256QAM	1	1	18.79	18.87	18.79	19.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	20.59	20.62	20.61	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	20.60	20.67	20.62	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	20.65	20.65	20.63	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	20.65	20.61	20.59	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	20.59	20.67	20.64	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	20.64	20.61	20.59	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	20.65	20.63	20.64	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	20.60	20.66	20.61	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	20.62	20.67	20.61	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	20.63	20.61	20.64	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	20.63	20.62	20.63	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	20.2
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.59	19.60	19.59	
100	PI/2 BPSK	1	137	19.32	19.48	19.30	20.2
100	PI/2 BPSK	1	271	19.42	19.58	19.47	
100	PI/2 BPSK	135	0	19.34	19.54	19.37	
100	PI/2 BPSK	135	69	19.40	19.52	19.36	20.2
100	PI/2 BPSK	135	138	19.44	19.58	19.45	20.2
100	PI/2 BPSK	270	0	19.39	19.56	19.44	
100	QPSK	1	1	19.34	19.51	19.37	
100	QPSK	1	137	19.22	19.41	19.29	20.2
100	QPSK	1	271	19.49	19.59	19.42	
100	QPSK	135	0	19.42	19.54	19.44	
100	QPSK	135	69	19.41	19.52	19.39	20.2
100	QPSK	135	138	19.45	19.57	19.39	20.2
100	QPSK	270	0	19.42	19.55	19.37	
100	16QAM	1	1	19.42	19.59	19.48	
100	64QAM	1	1	19.31	19.47	19.29	20.2
100	256QAM	1	1	19.30	19.47	19.33	20.2
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.47	19.46	19.39	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	19.45	19.45	19.41	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	19.45	19.47	19.43	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	19.42	19.42	19.45	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	19.44	19.43	19.42	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	19.49	19.41	19.45	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.42	19.45	19.40	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	19.45	19.41	19.42	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.47	19.42	19.49	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.42	19.47	19.44	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	19.44	19.44	19.45	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	24.8
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.30	24.19	23.84	
100	PI/2 BPSK	1	137	24.04	23.98	23.63	24.8
100	PI/2 BPSK	1	271	24.27	24.17	23.73	
100	PI/2 BPSK	135	0	24.04	24.00	23.53	
100	PI/2 BPSK	135	69	24.08	24.00	23.64	24.8
100	PI/2 BPSK	135	138	23.99	23.96	23.61	24.8
100	PI/2 BPSK	270	0	24.05	23.97	23.59	
100	QPSK	1	1	24.25	24.17	23.82	
100	QPSK	1	137	24.07	24.03	23.62	24.8
100	QPSK	1	271	24.21	24.16	23.76	
100	QPSK	135	0	24.19	24.08	23.73	
100	QPSK	135	69	24.20	24.15	23.74	24.8
100	QPSK	135	138	24.14	24.11	23.70	24.8
100	QPSK	270	0	24.15	24.11	23.71	
100	16QAM	1	1	23.30	23.26	22.85	
100	64QAM	1	1	21.70	21.63	21.25	22.5
100	256QAM	1	1	19.63	19.62	19.21	20.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.14	24.09	23.66	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.10	24.01	23.64	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.11	24.10	23.73	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.24	24.16	23.83	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.21	24.05	23.78	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.19	24.02	23.75	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.24	24.03	23.70	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.28	24.06	23.71	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.12	24.15	23.79	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.13	24.03	23.65	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.10	24.12	23.77	



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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	24.39	24.77	24.25	
100	PI/2 BPSK	1	137	24.43	24.48	23.93	25.0
100	PI/2 BPSK	1	271	24.75	24.76	24.24	
100	PI/2 BPSK	135	0	24.41	24.48	23.89	
100	PI/2 BPSK	135	69	24.49	24.56	23.96	25.0
100	PI/2 BPSK	135	138	24.45	24.54	23.92	25.0
100	PI/2 BPSK	270	0	24.44	24.49	23.90	
100	QPSK	1	1	24.62	24.75	24.17	
100	QPSK	1	137	24.34	24.41	23.87	25.0
100	QPSK	1	271	24.69	24.73	24.21	
100	QPSK	135	0	24.41	24.54	24.00	
100	QPSK	135	69	24.48	24.55	24.02	25.0
100	QPSK	135	138	24.42	24.52	23.94	25.0
100	QPSK	270	0	24.40	24.50	24.00	
100	16QAM	1	1	23.73	23.77	23.22	
100	64QAM	1	1	22.10	22.10	21.53	22.5
100	256QAM	1	1	20.07	20.07	19.53	20.5
Channel				649668	656000	662332	25.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.35	24.65	24.21	
Channel				649334	656000	662666	25.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.37	24.63	24.21	
Channel				649000	656000	663000	25.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.37	24.64	24.10	
Channel				648668	656000	663332	25.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.27	24.63	24.23	
Channel				648334	656000	663666	25.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.32	24.74	24.18	
Channel				648000	656000	664000	25.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.35	24.74	24.23	
Channel				647668	656000	664332	25.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.34	24.66	24.09	
Channel				647500	656000	664500	25.0
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.30	24.71	24.07	
Channel				647334	656000	664666	25.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.36	24.69	24.20	
Channel				647168	656000	664832	25.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.38	24.58	24.18	
Channel				647000	656000	665000	25.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.29	24.73	24.06	



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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	14.7
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	14.51	14.44	14.46	
100	PI/2 BPSK	1	137	14.32	14.26	14.32	14.7
100	PI/2 BPSK	1	271	14.45	14.41	14.33	
100	PI/2 BPSK	135	0	14.32	14.40	14.46	
100	PI/2 BPSK	135	69	14.46	14.43	14.45	14.7
100	PI/2 BPSK	135	138	14.44	14.30	14.35	14.7
100	PI/2 BPSK	270	0	14.44	14.40	14.38	
100	QPSK	1	1	14.36	14.28	14.29	
100	QPSK	1	137	14.32	14.29	14.29	14.7
100	QPSK	1	271	14.42	14.24	14.45	
100	QPSK	135	0	14.39	14.27	14.43	
100	QPSK	135	69	14.46	14.41	14.43	14.7
100	QPSK	135	138	14.44	14.40	14.34	14.7
100	QPSK	270	0	14.46	14.30	14.35	
100	16QAM	1	1	14.33	14.42	14.46	
100	64QAM	1	1	14.41	14.29	14.40	14.7
100	256QAM	1	1	14.37	14.33	14.41	14.7
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	14.44	14.42	14.29	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	14.40	14.35	14.28	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	14.42	14.29	14.44	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	14.35	14.26	14.41	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	14.38	14.26	14.32	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	14.37	14.24	14.33	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	14.35	14.39	14.36	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	14.43	14.32	14.34	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	14.31	14.41	14.44	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	14.35	14.43	14.34	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	14.33	14.34	14.37	



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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	24.31	24.32	23.97	
100	PI/2 BPSK	1	137	23.97	23.90	23.54	25.0
100	PI/2 BPSK	1	271	24.26	24.17	23.91	
100	PI/2 BPSK	135	0	24.00	23.86	23.55	
100	PI/2 BPSK	135	69	24.01	23.93	23.64	25.0
100	PI/2 BPSK	135	138	24.00	23.86	23.60	
100	PI/2 BPSK	270	0	23.97	23.92	23.54	
100	QPSK	1	1	24.28	24.22	23.93	25.0
100	QPSK	1	137	24.23	24.15	23.85	
100	QPSK	1	271	24.26	24.26	23.86	
100	QPSK	135	0	24.17	24.07	23.80	25.0
100	QPSK	135	69	24.20	24.13	23.86	
100	QPSK	135	138	24.17	24.08	23.84	
100	QPSK	270	0	24.13	24.11	23.78	25.0
100	16QAM	1	1	23.48	23.41	23.14	
100	64QAM	1	1	22.05	22.02	21.66	
100	256QAM	1	1	20.06	20.07	19.66	20.5
Channel				649668	656000	662332	25.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.13	24.19	23.81	
Channel				649334	656000	662666	25.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.24	24.17	23.96	
Channel				649000	656000	663000	25.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.31	24.12	23.97	
Channel				648668	656000	663332	25.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.27	24.14	23.88	
Channel				648334	656000	663666	25.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.18	24.17	23.85	
Channel				648000	656000	664000	25.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.13	24.15	23.97	
Channel				647668	656000	664332	25.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.25	24.23	23.93	
Channel				647500	656000	664500	25.0
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.28	24.20	23.77	
Channel				647334	656000	664666	25.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.26	24.28	23.83	
Channel				647168	656000	664832	25.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.20	24.20	23.94	
Channel				647000	656000	665000	25.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.22	24.15	23.92	



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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	20.28	20.22	20.64	
100	PI/2 BPSK	1	137	20.18	20.19	20.41	21.0
100	PI/2 BPSK	1	271	20.21	20.18	20.45	
100	PI/2 BPSK	135	0	20.06	20.12	20.54	
100	PI/2 BPSK	135	69	20.19	20.23	20.62	21.0
100	PI/2 BPSK	135	138	20.14	20.20	20.47	21.0
100	PI/2 BPSK	270	0	20.13	20.19	20.56	
100	QPSK	1	1	19.98	20.03	20.48	
100	QPSK	1	137	20.29	20.14	20.57	21.0
100	QPSK	1	271	20.25	20.14	20.46	
100	QPSK	135	0	20.15	20.11	20.60	
100	QPSK	135	69	20.17	20.10	20.50	21.0
100	QPSK	135	138	20.03	20.07	20.48	21.0
100	QPSK	270	0	20.12	20.08	20.37	
100	16QAM	1	1	20.14	20.01	20.44	
100	64QAM	1	1	20.24	20.18	20.40	21.0
100	256QAM	1	1	19.64	19.57	19.93	20.5
Channel				649668	656000	662332	21.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	20.24	20.16	20.50	
Channel				649334	656000	662666	21.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	20.24	20.06	20.53	
Channel				649000	656000	663000	21.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	20.26	20.10	20.59	
Channel				648668	656000	663332	21.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	20.22	20.17	20.52	
Channel				648334	656000	663666	21.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	20.27	20.18	20.49	
Channel				648000	656000	664000	21.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	20.20	20.09	20.51	
Channel				647668	656000	664332	21.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	20.11	20.06	20.62	
Channel				647500	656000	664500	21.0
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	20.26	20.03	20.47	
Channel				647334	656000	664666	21.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	20.22	20.21	20.48	
Channel				647168	656000	664832	21.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	20.25	20.11	20.47	
Channel				647000	656000	665000	21.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	20.22	20.17	20.57	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	20.2
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.70	19.66	19.71	
100	PI/2 BPSK	1	137	19.48	19.44	19.48	20.2
100	PI/2 BPSK	1	271	19.64	19.61	19.56	
100	PI/2 BPSK	135	0	19.55	19.58	19.56	
100	PI/2 BPSK	135	69	19.67	19.63	19.62	20.2
100	PI/2 BPSK	135	138	19.50	19.54	19.56	20.2
100	PI/2 BPSK	270	0	19.52	19.54	19.52	
100	QPSK	1	1	19.59	19.64	19.62	
100	QPSK	1	137	19.48	19.46	19.46	20.2
100	QPSK	1	271	19.57	19.54	19.58	
100	QPSK	135	0	19.37	19.42	19.38	
100	QPSK	135	69	19.47	19.48	19.45	20.2
100	QPSK	135	138	19.41	19.41	19.42	20.2
100	QPSK	270	0	19.45	19.50	19.52	
100	16QAM	1	1	19.50	19.53	19.58	
100	64QAM	1	1	19.49	19.51	19.52	20.2
100	256QAM	1	1	19.56	19.56	19.57	20.2
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.55	19.54	19.62	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	19.54	19.63	19.63	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	19.63	19.65	19.62	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	19.51	19.63	19.65	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	19.51	19.56	19.70	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	19.64	19.49	19.56	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.70	19.53	19.59	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	19.66	19.50	19.63	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.55	19.64	19.52	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.54	19.57	19.52	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	19.66	19.51	19.55	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	20.8
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	20.75	20.49	20.69	
100	PI/2 BPSK	1	137	20.49	20.32	20.45	20.8
100	PI/2 BPSK	1	271	20.65	20.48	20.67	
100	PI/2 BPSK	135	0	20.59	20.35	20.46	
100	PI/2 BPSK	135	69	20.62	20.45	20.57	20.8
100	PI/2 BPSK	135	138	20.46	20.30	20.44	20.8
100	PI/2 BPSK	270	0	20.57	20.32	20.46	
100	QPSK	1	1	20.66	20.45	20.61	
100	QPSK	1	137	20.46	20.22	20.41	20.8
100	QPSK	1	271	20.58	20.42	20.60	
100	QPSK	135	0	20.51	20.31	20.43	
100	QPSK	135	69	20.57	20.41	20.60	20.8
100	QPSK	135	138	20.40	20.22	20.37	20.8
100	QPSK	270	0	20.49	20.28	20.45	
100	16QAM	1	1	20.54	20.30	20.40	
100	64QAM	1	1	20.29	20.35	20.16	20.8
100	256QAM	1	1	18.33	18.87	18.25	19.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	20.58	20.45	20.67	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	20.65	20.38	20.55	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	20.67	20.29	20.58	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	20.61	20.37	20.70	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	20.73	20.46	20.69	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	20.59	20.44	20.58	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	20.67	20.40	20.73	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	20.73	20.47	20.63	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	20.68	20.32	20.70	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	20.57	20.29	20.73	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	20.57	20.31	20.65	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	20.1
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.72	19.69	19.84	
100	PI/2 BPSK	1	137	19.49	19.56	19.61	20.1
100	PI/2 BPSK	1	271	19.48	19.54	19.66	
100	PI/2 BPSK	135	0	19.55	19.62	19.76	
100	PI/2 BPSK	135	69	19.65	19.63	19.68	20.1
100	PI/2 BPSK	135	138	19.54	19.56	19.71	20.1
100	PI/2 BPSK	270	0	19.62	19.67	19.72	
100	QPSK	1	1	19.62	19.61	19.68	
100	QPSK	1	137	19.52	19.55	19.66	20.1
100	QPSK	1	271	19.46	19.51	19.57	
100	QPSK	135	0	19.54	19.52	19.62	
100	QPSK	135	69	19.64	19.61	19.70	20.1
100	QPSK	135	138	19.55	19.52	19.65	20.1
100	QPSK	270	0	19.58	19.64	19.74	
100	16QAM	1	1	19.58	19.60	19.67	
100	64QAM	1	1	19.54	19.56	19.63	20.1
100	256QAM	1	1	19.11	19.10	19.24	20.1
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.57	19.53	19.79	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	19.72	19.59	19.71	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	19.68	19.63	19.68	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	19.59	19.51	19.83	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	19.64	19.69	19.65	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	19.61	19.66	19.65	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.57	19.55	19.68	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	19.58	19.66	19.78	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.56	19.69	19.72	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.66	19.55	19.70	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	19.65	19.69	19.73	



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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	21.8
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	21.30	21.22	21.64	
100	PI/2 BPSK	1	137	21.21	21.14	21.49	21.8
100	PI/2 BPSK	1	271	21.16	21.13	21.47	
100	PI/2 BPSK	135	0	21.12	21.14	21.54	
100	PI/2 BPSK	135	69	21.24	21.18	21.55	21.8
100	PI/2 BPSK	135	138	21.17	21.13	21.52	21.8
100	PI/2 BPSK	270	0	21.19	21.12	21.47	
100	QPSK	1	1	21.07	21.08	21.48	
100	QPSK	1	137	21.21	21.13	21.55	21.8
100	QPSK	1	271	21.19	21.12	21.45	
100	QPSK	135	0	21.15	21.09	21.50	
100	QPSK	135	69	21.09	21.10	21.52	21.8
100	QPSK	135	138	21.08	21.06	21.40	21.8
100	QPSK	270	0	21.07	21.05	21.42	
100	16QAM	1	1	21.16	21.11	21.48	
100	64QAM	1	1	21.17	21.10	21.49	21.8
100	256QAM	1	1	19.64	19.60	19.94	20.5
Channel				649668	656000	662332	21.8
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.20	21.09	21.52	
Channel				649334	656000	662666	21.8
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.25	21.17	21.47	
Channel				649000	656000	663000	21.8
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	21.14	21.20	21.53	
Channel				648668	656000	663332	21.8
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.19	21.14	21.55	
Channel				648334	656000	663666	21.8
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.11	21.22	21.59	
Channel				648000	656000	664000	21.8
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.13	21.02	21.50	
Channel				647668	656000	664332	21.8
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	21.15	21.20	21.62	
Channel				647500	656000	664500	21.8
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	21.20	21.22	21.57	
Channel				647334	656000	664666	21.8
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	21.20	21.18	21.50	
Channel				647168	656000	664832	21.8
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.29	21.13	21.56	
Channel				647000	656000	665000	21.8
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.30	21.08	21.61	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	20.9
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.70	19.66	19.71	
100	PI/2 BPSK	1	137	19.48	19.44	19.48	20.9
100	PI/2 BPSK	1	271	19.64	19.61	19.56	
100	PI/2 BPSK	135	0	19.55	19.58	19.56	
100	PI/2 BPSK	135	69	19.67	19.63	19.62	20.9
100	PI/2 BPSK	135	138	19.50	19.54	19.56	
100	PI/2 BPSK	270	0	19.52	19.54	19.52	
100	QPSK	1	1	19.59	19.64	19.62	20.9
100	QPSK	1	137	19.48	19.46	19.46	
100	QPSK	1	271	19.57	19.54	19.58	
100	QPSK	135	0	19.37	19.42	19.38	20.9
100	QPSK	135	69	19.47	19.48	19.45	
100	QPSK	135	138	19.41	19.41	19.42	
100	QPSK	270	0	19.45	19.50	19.52	20.9
100	16QAM	1	1	19.50	19.53	19.58	
100	64QAM	1	1	19.49	19.51	19.52	
100	256QAM	1	1	19.56	19.56	19.57	20.5
Channel				649668	656000	662332	20.9
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.55	19.54	19.62	
Channel				649334	656000	662666	20.9
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	19.54	19.63	19.63	
Channel				649000	656000	663000	20.9
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	19.63	19.65	19.62	
Channel				648668	656000	663332	20.9
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	19.51	19.63	19.65	
Channel				648334	656000	663666	20.9
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	19.51	19.56	19.70	
Channel				648000	656000	664000	20.9
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	19.64	19.49	19.56	
Channel				647668	656000	664332	20.9
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.70	19.53	19.59	
Channel				647500	656000	664500	20.9
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	19.66	19.50	19.63	
Channel				647334	656000	664666	20.9
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.55	19.64	19.52	
Channel				647168	656000	664832	20.9
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.54	19.57	19.52	
Channel				647000	656000	665000	20.9
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	19.66	19.51	19.55	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	22.1
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	20.75	20.49	20.69	
100	PI/2 BPSK	1	137	20.49	20.32	20.45	22.1
100	PI/2 BPSK	1	271	20.65	20.48	20.67	
100	PI/2 BPSK	135	0	20.59	20.35	20.46	
100	PI/2 BPSK	135	69	20.62	20.45	20.57	22.1
100	PI/2 BPSK	135	138	20.46	20.30	20.44	22.1
100	PI/2 BPSK	270	0	20.57	20.32	20.46	
100	QPSK	1	1	20.66	20.45	20.61	
100	QPSK	1	137	20.46	20.22	20.41	22.1
100	QPSK	1	271	20.58	20.42	20.60	
100	QPSK	135	0	20.51	20.31	20.43	
100	QPSK	135	69	20.57	20.41	20.60	22.1
100	QPSK	135	138	20.40	20.22	20.37	22.1
100	QPSK	270	0	20.49	20.28	20.45	
100	16QAM	1	1	20.54	20.30	20.40	
100	64QAM	1	1	20.29	20.35	20.16	21.5
100	256QAM	1	1	18.33	18.87	18.25	19.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	20.58	20.45	20.67	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	20.65	20.38	20.55	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	20.67	20.29	20.58	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	20.61	20.37	20.70	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	20.73	20.46	20.69	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	20.59	20.44	20.58	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	20.67	20.40	20.73	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	20.73	20.47	20.63	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	20.68	20.32	20.70	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	20.57	20.29	20.73	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	20.57	20.31	20.65	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	20.8
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.72	19.69	19.84	
100	PI/2 BPSK	1	137	19.49	19.56	19.61	20.8
100	PI/2 BPSK	1	271	19.48	19.54	19.66	
100	PI/2 BPSK	135	0	19.55	19.62	19.76	
100	PI/2 BPSK	135	69	19.65	19.63	19.68	20.8
100	PI/2 BPSK	135	138	19.54	19.56	19.71	20.8
100	PI/2 BPSK	270	0	19.62	19.67	19.72	
100	QPSK	1	1	19.62	19.61	19.68	
100	QPSK	1	137	19.52	19.55	19.66	20.8
100	QPSK	1	271	19.46	19.51	19.57	
100	QPSK	135	0	19.54	19.52	19.62	
100	QPSK	135	69	19.64	19.61	19.70	20.8
100	QPSK	135	138	19.55	19.52	19.65	20.8
100	QPSK	270	0	19.58	19.64	19.74	
100	16QAM	1	1	19.58	19.60	19.67	
100	64QAM	1	1	19.54	19.56	19.63	20.8
100	256QAM	1	1	19.11	19.10	19.24	20.5
Channel				649668	656000	662332	20.8
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.57	19.53	19.79	
Channel				649334	656000	662666	20.8
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	19.72	19.59	19.71	
Channel				649000	656000	663000	20.8
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	19.68	19.63	19.68	
Channel				648668	656000	663332	20.8
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	19.59	19.51	19.83	
Channel				648334	656000	663666	20.8
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	19.64	19.69	19.65	
Channel				648000	656000	664000	20.8
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	19.61	19.66	19.65	
Channel				647668	656000	664332	20.8
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.57	19.55	19.68	
Channel				647500	656000	664500	20.8
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	19.58	19.66	19.78	
Channel				647334	656000	664666	20.8
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.56	19.69	19.72	
Channel				647168	656000	664832	20.8
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.66	19.55	19.70	
Channel				647000	656000	665000	20.8
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	19.65	19.69	19.73	



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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	21.30	21.22	21.64	
100	PI/2 BPSK	1	137	21.21	21.14	21.49	22.5
100	PI/2 BPSK	1	271	21.16	21.13	21.47	
100	PI/2 BPSK	135	0	21.12	21.14	21.54	22.5
100	PI/2 BPSK	135	69	21.24	21.18	21.55	22.5
100	PI/2 BPSK	135	138	21.17	21.13	21.52	22.5
100	PI/2 BPSK	270	0	21.19	21.12	21.47	
100	QPSK	1	1	21.07	21.08	21.48	22.5
100	QPSK	1	137	21.21	21.13	21.55	
100	QPSK	1	271	21.19	21.12	21.45	
100	QPSK	135	0	21.15	21.09	21.50	22.5
100	QPSK	135	69	21.09	21.10	21.52	22.5
100	QPSK	135	138	21.08	21.06	21.40	22.5
100	QPSK	270	0	21.07	21.05	21.42	
100	16QAM	1	1	21.16	21.11	21.48	22.5
100	64QAM	1	1	21.17	21.10	21.49	22.5
100	256QAM	1	1	19.64	19.60	19.94	20.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.20	21.09	21.52	22.5
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.25	21.17	21.47	22.5
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	21.14	21.20	21.53	22.5
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.19	21.14	21.55	22.5
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.11	21.22	21.59	22.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.13	21.02	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	21.15	21.20	21.62	22.5
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	21.20	21.22	21.57	22.5
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	21.20	21.18	21.50	22.5
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.29	21.13	21.56	22.5
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.30	21.08	21.61	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	20.2
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.70	19.66	19.71	
100	PI/2 BPSK	1	137	19.48	19.44	19.48	20.2
100	PI/2 BPSK	1	271	19.64	19.61	19.56	
100	PI/2 BPSK	135	0	19.55	19.58	19.56	
100	PI/2 BPSK	135	69	19.67	19.63	19.62	20.2
100	PI/2 BPSK	135	138	19.50	19.54	19.56	20.2
100	PI/2 BPSK	270	0	19.52	19.54	19.52	
100	QPSK	1	1	19.59	19.64	19.62	
100	QPSK	1	137	19.48	19.46	19.46	20.2
100	QPSK	1	271	19.57	19.54	19.58	
100	QPSK	135	0	19.37	19.42	19.38	
100	QPSK	135	69	19.47	19.48	19.45	20.2
100	QPSK	135	138	19.41	19.41	19.42	20.2
100	QPSK	270	0	19.45	19.50	19.52	
100	16QAM	1	1	19.50	19.53	19.58	
100	64QAM	1	1	19.49	19.51	19.52	20.2
100	256QAM	1	1	19.56	19.56	19.57	20.2
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.55	19.54	19.62	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	19.54	19.63	19.63	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	19.63	19.65	19.62	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	19.51	19.63	19.65	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	19.51	19.56	19.70	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	19.64	19.49	19.56	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.70	19.53	19.59	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	19.66	19.50	19.63	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.55	19.64	19.52	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.54	19.57	19.52	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	19.66	19.51	19.55	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	20.75	20.49	20.69	
100	PI/2 BPSK	1	137	20.49	20.32	20.45	21.4
100	PI/2 BPSK	1	271	20.65	20.48	20.67	
100	PI/2 BPSK	135	0	20.59	20.35	20.46	
100	PI/2 BPSK	135	69	20.62	20.45	20.57	21.4
100	PI/2 BPSK	135	138	20.46	20.30	20.44	21.4
100	PI/2 BPSK	270	0	20.57	20.32	20.46	
100	QPSK	1	1	20.66	20.45	20.61	
100	QPSK	1	137	20.46	20.22	20.41	21.4
100	QPSK	1	271	20.58	20.42	20.60	
100	QPSK	135	0	20.51	20.31	20.43	
100	QPSK	135	69	20.57	20.41	20.60	21.4
100	QPSK	135	138	20.40	20.22	20.37	21.4
100	QPSK	270	0	20.49	20.28	20.45	
100	16QAM	1	1	20.54	20.30	20.40	
100	64QAM	1	1	20.29	20.35	20.16	21.4
100	256QAM	1	1	18.33	18.87	18.25	19.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	20.58	20.45	20.67	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	20.65	20.38	20.55	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	20.67	20.29	20.58	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	20.61	20.37	20.70	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	20.73	20.46	20.69	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	20.59	20.44	20.58	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	20.67	20.40	20.73	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	20.73	20.47	20.63	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	20.68	20.32	20.70	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	20.57	20.29	20.73	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	20.57	20.31	20.65	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	20.1
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.72	19.69	19.84	
100	PI/2 BPSK	1	137	19.49	19.56	19.61	20.1
100	PI/2 BPSK	1	271	19.48	19.54	19.66	
100	PI/2 BPSK	135	0	19.55	19.62	19.76	
100	PI/2 BPSK	135	69	19.65	19.63	19.68	20.1
100	PI/2 BPSK	135	138	19.54	19.56	19.71	20.1
100	PI/2 BPSK	270	0	19.62	19.67	19.72	
100	QPSK	1	1	19.62	19.61	19.68	
100	QPSK	1	137	19.52	19.55	19.66	20.1
100	QPSK	1	271	19.46	19.51	19.57	
100	QPSK	135	0	19.54	19.52	19.62	
100	QPSK	135	69	19.64	19.61	19.70	20.1
100	QPSK	135	138	19.55	19.52	19.65	20.1
100	QPSK	270	0	19.58	19.64	19.74	
100	16QAM	1	1	19.58	19.60	19.67	
100	64QAM	1	1	19.54	19.56	19.63	20.1
100	256QAM	1	1	19.11	19.10	19.24	20.1
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.57	19.53	19.79	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	19.72	19.59	19.71	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	19.68	19.63	19.68	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	19.59	19.51	19.83	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	19.64	19.69	19.65	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	19.61	19.66	19.65	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.57	19.55	19.68	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	19.58	19.66	19.78	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.56	19.69	19.72	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.66	19.55	19.70	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	19.65	19.69	19.73	



<FR1 n77_Ant 5_Index 11>

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	21.8
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	21.30	21.22	21.64	
100	PI/2 BPSK	1	137	21.21	21.14	21.49	21.8
100	PI/2 BPSK	1	271	21.16	21.13	21.47	
100	PI/2 BPSK	135	0	21.12	21.14	21.54	
100	PI/2 BPSK	135	69	21.24	21.18	21.55	21.8
100	PI/2 BPSK	135	138	21.17	21.13	21.52	21.8
100	PI/2 BPSK	270	0	21.19	21.12	21.47	
100	QPSK	1	1	21.07	21.08	21.48	
100	QPSK	1	137	21.21	21.13	21.55	21.8
100	QPSK	1	271	21.19	21.12	21.45	
100	QPSK	135	0	21.15	21.09	21.50	
100	QPSK	135	69	21.09	21.10	21.52	21.8
100	QPSK	135	138	21.08	21.06	21.40	21.8
100	QPSK	270	0	21.07	21.05	21.42	
100	16QAM	1	1	21.16	21.11	21.48	
100	64QAM	1	1	21.17	21.10	21.49	21.8
100	256QAM	1	1	19.64	19.60	19.94	20.5
Channel				649668	656000	662332	21.8
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	21.20	21.09	21.52	
Channel				649334	656000	662666	21.8
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	21.25	21.17	21.47	
Channel				649000	656000	663000	21.8
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	21.14	21.20	21.53	
Channel				648668	656000	663332	21.8
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	21.19	21.14	21.55	
Channel				648334	656000	663666	21.8
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	21.11	21.22	21.59	
Channel				648000	656000	664000	21.8
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	21.13	21.02	21.50	
Channel				647668	656000	664332	21.8
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	21.15	21.20	21.62	
Channel				647500	656000	664500	21.8
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	21.20	21.22	21.57	
Channel				647334	656000	664666	21.8
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	21.20	21.18	21.50	
Channel				647168	656000	664832	21.8
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	21.29	21.13	21.56	
Channel				647000	656000	665000	21.8
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	21.30	21.08	21.61	



<FR1 n77_HPUE_Ant 6_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	656000	662000	27.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	26.75	26.81	26.76	
100	PI/2 BPSK	1	137	26.51	26.50	26.38	27.0
100	PI/2 BPSK	1	271	26.76	26.77	26.71	
100	PI/2 BPSK	135	0	26.47	26.48	26.37	
100	PI/2 BPSK	135	69	26.55	26.54	26.43	27.0
100	PI/2 BPSK	135	138	26.50	26.46	26.41	27.0
100	PI/2 BPSK	270	0	26.49	26.51	26.37	
100	QPSK	1	1	26.68	26.75	26.68	
100	QPSK	1	137	26.42	26.41	26.31	27.0
100	QPSK	1	271	26.76	26.79	26.71	
100	QPSK	135	0	26.47	26.47	26.37	
100	QPSK	135	69	26.53	26.53	26.42	27.0
100	QPSK	135	138	26.48	26.50	26.40	27.0
100	QPSK	270	0	26.47	26.49	26.40	
100	16QAM	1	1	25.66	25.65	25.51	
100	64QAM	1	1	24.05	24.03	23.95	24.5
100	256QAM	1	1	22.13	22.08	21.94	22.5
Channel				649668	656000	662332	27.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	26.62	26.73	26.63	
Channel				649334	656000	662666	27.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	26.71	26.75	26.76	
Channel				649000	656000	663000	27.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	26.58	26.80	26.73	
Channel				648668	656000	663332	27.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	26.75	26.75	26.61	
Channel				648334	656000	663666	27.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	26.58	26.72	26.75	
Channel				648000	656000	664000	27.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	26.71	26.80	26.68	
Channel				647668	656000	664332	27.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	26.69	26.78	26.59	
Channel				647500	656000	664500	27.0
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	26.65	26.66	26.76	
Channel				647334	656000	664666	27.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	26.67	26.64	26.70	
Channel				647168	656000	664832	27.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	26.72	26.65	26.64	
Channel				647000	656000	665000	27.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	26.68	26.68	26.67	



<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				650000	656000	662000	19.7
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	18.70	18.75	18.66	
100	PI/2 BPSK	1	137	18.27	18.37	18.25	19.7
100	PI/2 BPSK	1	271	18.61	18.72	18.62	
100	PI/2 BPSK	135	0	18.47	18.54	18.44	
100	PI/2 BPSK	135	69	18.37	18.44	18.35	19.7
100	PI/2 BPSK	135	138	18.46	18.56	18.46	
100	PI/2 BPSK	270	0	18.45	18.51	18.40	
100	QPSK	1	1	18.40	18.50	18.41	19.7
100	QPSK	1	137	18.24	18.31	18.17	
100	QPSK	1	271	18.54	18.65	18.50	
100	QPSK	135	0	18.43	18.53	18.40	19.7
100	QPSK	135	69	18.34	18.43	18.33	
100	QPSK	135	138	18.45	18.54	18.42	
100	QPSK	270	0	18.42	18.49	18.35	19.7
100	16QAM	1	1	18.43	18.50	18.38	
100	64QAM	1	1	18.31	18.39	18.25	
100	256QAM	1	1	18.39	18.45	18.30	19.7
Channel				649668	656000	662332	19.7
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	18.60	18.65	18.43	
Channel				649334	656000	662666	19.7
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	18.51	18.58	18.54	
Channel				649000	656000	663000	19.7
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	18.61	18.56	18.59	
Channel				648668	656000	663332	19.7
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	18.54	18.67	18.59	
Channel				648334	656000	663666	19.7
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	18.46	18.59	18.57	
Channel				648000	656000	664000	19.7
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	18.51	18.60	18.47	
Channel				647668	656000	664332	19.7
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	18.62	18.64	18.48	
Channel				647500	656000	664500	19.7
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	18.64	18.57	18.61	
Channel				647334	656000	664666	19.7
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	18.53	18.59	18.48	
Channel				647168	656000	664832	19.7
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	18.56	18.60	18.59	
Channel				647000	656000	665000	19.7
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	18.49	18.64	18.52	



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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	27.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	26.79	26.81	26.87	
100	PI/2 BPSK	1	137	26.50	26.58	26.57	27.0
100	PI/2 BPSK	1	271	26.75	26.79	26.63	
100	PI/2 BPSK	135	0	26.56	26.53	26.49	
100	PI/2 BPSK	135	69	26.57	26.60	26.56	27.0
100	PI/2 BPSK	135	138	26.50	26.55	26.42	27.0
100	PI/2 BPSK	270	0	26.55	26.57	26.46	
100	QPSK	1	1	26.65	26.73	26.74	
100	QPSK	1	137	26.49	26.52	26.51	27.0
100	QPSK	1	271	26.73	26.77	26.82	
100	QPSK	135	0	26.55	26.63	26.56	
100	QPSK	135	69	26.56	26.64	26.60	27.0
100	QPSK	135	138	26.53	26.55	26.54	27.0
100	QPSK	270	0	26.53	26.59	26.58	
100	16QAM	1	1	25.60	25.67	25.72	
100	64QAM	1	1	24.02	24.10	24.12	24.5
100	256QAM	1	1	22.03	22.13	22.15	22.5
Channel				649668	656000	662332	27.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	26.72	26.64	26.78	
Channel				649334	656000	662666	27.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	26.62	26.63	26.68	
Channel				649000	656000	663000	27.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	26.60	26.63	26.79	
Channel				648668	656000	663332	27.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	26.70	26.77	26.81	
Channel				648334	656000	663666	27.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	26.71	26.78	26.73	
Channel				648000	656000	664000	27.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	26.61	26.75	26.80	
Channel				647668	656000	664332	27.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	26.79	26.76	26.81	
Channel				647500	656000	664500	27.0
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	26.71	26.75	26.81	
Channel				647334	656000	664666	27.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	26.71	26.78	26.83	
Channel				647168	656000	664832	27.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	26.66	26.70	26.70	
Channel				647000	656000	665000	27.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	26.64	26.71	26.69	



<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				650000	656000	662000	27.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	26.38	26.53	26.71	
100	PI/2 BPSK	1	137	26.02	26.23	26.33	27.0
100	PI/2 BPSK	1	271	26.26	26.47	26.63	
100	PI/2 BPSK	135	0	26.00	26.26	26.37	
100	PI/2 BPSK	135	69	26.09	26.27	26.44	27.0
100	PI/2 BPSK	135	138	26.05	26.24	26.40	27.0
100	PI/2 BPSK	270	0	26.00	26.23	26.41	
100	QPSK	1	1	26.25	26.50	26.60	
100	QPSK	1	137	26.01	26.17	26.25	27.0
100	QPSK	1	271	26.24	26.40	26.48	
100	QPSK	135	0	26.01	26.20	26.32	
100	QPSK	135	69	26.03	26.25	26.40	27.0
100	QPSK	135	138	26.02	26.20	26.32	27.0
100	QPSK	270	0	26.00	26.21	26.31	
100	16QAM	1	1	25.06	25.25	25.43	
100	64QAM	1	1	23.48	23.66	23.77	24.5
100	256QAM	1	1	21.49	21.69	21.87	22.5
Channel				649668	656000	662332	27.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	26.28	26.44	26.62	
Channel				649334	656000	662666	27.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	26.18	26.36	26.52	
Channel				649000	656000	663000	27.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	26.32	26.51	26.65	
Channel				648668	656000	663332	27.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	26.31	26.36	26.52	
Channel				648334	656000	663666	27.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	26.24	26.50	26.62	
Channel				648000	656000	664000	27.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	26.36	26.53	26.54	
Channel				647668	656000	664332	27.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	26.24	26.34	26.58	
Channel				647500	656000	664500	27.0
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	26.38	26.40	26.59	
Channel				647334	656000	664666	27.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	26.22	26.42	26.60	
Channel				647168	656000	664832	27.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	26.23	26.45	26.63	
Channel				647000	656000	665000	27.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	26.19	26.48	26.68	



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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	27.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	26.75	26.81	26.76	
100	PI/2 BPSK	1	137	26.51	26.50	26.38	27.0
100	PI/2 BPSK	1	271	26.76	26.77	26.71	
100	PI/2 BPSK	135	0	26.47	26.48	26.37	
100	PI/2 BPSK	135	69	26.55	26.54	26.43	27.0
100	PI/2 BPSK	135	138	26.50	26.46	26.41	27.0
100	PI/2 BPSK	270	0	26.49	26.51	26.37	
100	QPSK	1	1	26.68	26.75	26.68	
100	QPSK	1	137	26.42	26.41	26.31	27.0
100	QPSK	1	271	26.76	26.79	26.71	
100	QPSK	135	0	26.47	26.47	26.37	
100	QPSK	135	69	26.53	26.53	26.42	27.0
100	QPSK	135	138	26.48	26.50	26.40	27.0
100	QPSK	270	0	26.47	26.49	26.40	
100	16QAM	1	1	25.66	25.65	25.51	
100	64QAM	1	1	24.05	24.03	23.95	24.5
100	256QAM	1	1	22.13	22.08	21.94	22.5
Channel				649668	656000	662332	27.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	26.62	26.73	26.63	
Channel				649334	656000	662666	27.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	26.71	26.75	26.76	
Channel				649000	656000	663000	27.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	26.58	26.80	26.73	
Channel				648668	656000	663332	27.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	26.75	26.75	26.61	
Channel				648334	656000	663666	27.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	26.58	26.72	26.75	
Channel				648000	656000	664000	27.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	26.71	26.80	26.68	
Channel				647668	656000	664332	27.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	26.69	26.78	26.59	
Channel				647500	656000	664500	27.0
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	26.65	26.66	26.76	
Channel				647334	656000	664666	27.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	26.67	26.64	26.70	
Channel				647168	656000	664832	27.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	26.72	26.65	26.64	
Channel				647000	656000	665000	27.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	26.68	26.68	26.67	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	19.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	18.70	18.75	18.66	
100	PI/2 BPSK	1	137	18.27	18.37	18.25	19.0
100	PI/2 BPSK	1	271	18.61	18.72	18.62	
100	PI/2 BPSK	135	0	18.47	18.54	18.44	
100	PI/2 BPSK	135	69	18.37	18.44	18.35	19.0
100	PI/2 BPSK	135	138	18.46	18.56	18.46	19.0
100	PI/2 BPSK	270	0	18.45	18.51	18.40	
100	QPSK	1	1	18.40	18.50	18.41	
100	QPSK	1	137	18.24	18.31	18.17	19.0
100	QPSK	1	271	18.54	18.65	18.50	
100	QPSK	135	0	18.43	18.53	18.40	
100	QPSK	135	69	18.34	18.43	18.33	19.0
100	QPSK	135	138	18.45	18.54	18.42	19.0
100	QPSK	270	0	18.42	18.49	18.35	
100	16QAM	1	1	18.43	18.50	18.38	
100	64QAM	1	1	18.31	18.39	18.25	19.0
100	256QAM	1	1	18.39	18.45	18.30	19.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	18.60	18.65	18.43	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	18.51	18.58	18.54	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	18.61	18.56	18.59	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	18.54	18.67	18.59	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	18.46	18.59	18.57	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	18.51	18.60	18.47	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	18.62	18.64	18.48	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	18.64	18.57	18.61	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	18.53	18.59	18.48	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	18.56	18.60	18.59	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	18.49	18.64	18.52	



<FR1 n77_HPUE_Ant 2_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	27.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	26.79	26.81	26.87	
100	PI/2 BPSK	1	137	26.50	26.58	26.57	27.0
100	PI/2 BPSK	1	271	26.75	26.79	26.63	
100	PI/2 BPSK	135	0	26.56	26.53	26.49	
100	PI/2 BPSK	135	69	26.57	26.60	26.56	27.0
100	PI/2 BPSK	135	138	26.50	26.55	26.42	27.0
100	PI/2 BPSK	270	0	26.55	26.57	26.46	
100	QPSK	1	1	26.65	26.73	26.74	
100	QPSK	1	137	26.49	26.52	26.51	27.0
100	QPSK	1	271	26.73	26.77	26.82	
100	QPSK	135	0	26.55	26.63	26.56	
100	QPSK	135	69	26.56	26.64	26.60	27.0
100	QPSK	135	138	26.53	26.55	26.54	27.0
100	QPSK	270	0	26.53	26.59	26.58	
100	16QAM	1	1	25.60	25.67	25.72	
100	64QAM	1	1	24.02	24.10	24.12	24.5
100	256QAM	1	1	22.03	22.13	22.15	22.5
Channel				649668	656000	662332	27.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	26.72	26.64	26.78	
Channel				649334	656000	662666	27.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	26.62	26.63	26.68	
Channel				649000	656000	663000	27.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	26.60	26.63	26.79	
Channel				648668	656000	663332	27.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	26.70	26.77	26.81	
Channel				648334	656000	663666	27.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	26.71	26.78	26.73	
Channel				648000	656000	664000	27.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	26.61	26.75	26.80	
Channel				647668	656000	664332	27.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	26.79	26.76	26.81	
Channel				647500	656000	664500	27.0
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	26.71	26.75	26.81	
Channel				647334	656000	664666	27.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	26.71	26.78	26.83	
Channel				647168	656000	664832	27.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	26.66	26.70	26.70	
Channel				647000	656000	665000	27.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	26.64	26.71	26.69	



<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	26.38	26.53	26.71	
100	PI/2 BPSK	1	137	26.02	26.23	26.33	27.0
100	PI/2 BPSK	1	271	26.26	26.47	26.63	
100	PI/2 BPSK	135	0	26.00	26.26	26.37	
100	PI/2 BPSK	135	69	26.09	26.27	26.44	27.0
100	PI/2 BPSK	135	138	26.05	26.24	26.40	27.0
100	PI/2 BPSK	270	0	26.00	26.23	26.41	
100	QPSK	1	1	26.25	26.50	26.60	
100	QPSK	1	137	26.01	26.17	26.25	27.0
100	QPSK	1	271	26.24	26.40	26.48	
100	QPSK	135	0	26.01	26.20	26.32	
100	QPSK	135	69	26.03	26.25	26.40	27.0
100	QPSK	135	138	26.02	26.20	26.32	27.0
100	QPSK	270	0	26.00	26.21	26.31	
100	16QAM	1	1	25.06	25.25	25.43	
100	64QAM	1	1	23.48	23.66	23.77	24.5
100	256QAM	1	1	21.49	21.69	21.87	22.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	26.28	26.44	26.62	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	26.18	26.36	26.52	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	26.32	26.51	26.65	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	26.31	26.36	26.52	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	26.24	26.50	26.62	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	26.36	26.53	26.54	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	26.24	26.34	26.58	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	26.38	26.40	26.59	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	26.22	26.42	26.60	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	26.23	26.45	26.63	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	26.19	26.48	26.68	



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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	24.57	24.60	24.57	
100	PI/2 BPSK	1	137	24.20	24.29	24.17	24.6
100	PI/2 BPSK	1	271	24.57	24.58	24.52	
100	PI/2 BPSK	135	0	24.37	24.45	24.35	
100	PI/2 BPSK	135	69	24.25	24.33	24.22	24.6
100	PI/2 BPSK	135	138	24.40	24.46	24.36	24.6
100	PI/2 BPSK	270	0	24.30	24.39	24.25	
100	QPSK	1	1	24.31	24.40	24.30	
100	QPSK	1	137	24.15	24.20	24.06	24.6
100	QPSK	1	271	24.50	24.55	24.44	
100	QPSK	135	0	24.38	24.46	24.34	
100	QPSK	135	69	24.26	24.33	24.20	24.6
100	QPSK	135	138	24.38	24.44	24.31	24.6
100	QPSK	270	0	24.34	24.39	24.29	
100	16QAM	1	1	24.37	24.43	24.30	
100	64QAM	1	1	23.73	23.82	23.69	24.5
100	256QAM	1	1	22.01	22.08	21.94	22.5
Channel				649668	656000	662332	24.6
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.52	24.57	24.52	
Channel				649334	656000	662666	24.6
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.48	24.56	24.50	
Channel				649000	656000	663000	24.6
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.53	24.53	24.56	
Channel				648668	656000	663332	24.6
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.54	24.57	24.56	
Channel				648334	656000	663666	24.6
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.55	24.59	24.58	
Channel				648000	656000	664000	24.6
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.52	24.58	24.57	
Channel				647668	656000	664332	24.6
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.54	24.57	24.51	
Channel				647500	656000	664500	24.6
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.53	24.53	24.53	
Channel				647334	656000	664666	24.6
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.57	24.54	24.56	
Channel				647168	656000	664832	24.6
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.53	24.52	24.48	
Channel				647000	656000	665000	24.6
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.50	24.51	24.52	



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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	24.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.72	23.74	23.68	
100	PI/2 BPSK	1	137	23.33	23.37	23.27	24.5
100	PI/2 BPSK	1	271	23.70	23.72	23.64	
100	PI/2 BPSK	135	0	23.46	23.49	23.37	
100	PI/2 BPSK	135	69	23.34	23.39	23.27	24.5
100	PI/2 BPSK	135	138	23.46	23.52	23.41	24.5
100	PI/2 BPSK	270	0	23.41	23.45	23.33	
100	QPSK	1	1	23.35	23.43	23.35	
100	QPSK	1	137	23.19	23.25	23.16	24.5
100	QPSK	1	271	23.58	23.64	23.57	
100	QPSK	135	0	23.46	23.48	23.36	
100	QPSK	135	69	23.31	23.38	23.27	24.5
100	QPSK	135	138	23.44	23.51	23.40	24.5
100	QPSK	270	0	23.40	23.44	23.35	
100	16QAM	1	1	23.41	23.45	23.35	
100	64QAM	1	1	22.82	22.86	22.80	23.5
100	256QAM	1	1	20.85	20.92	20.83	21.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	23.65	23.69	23.63	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	23.66	23.72	23.67	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.67	23.72	23.67	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.69	23.72	23.66	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.66	23.68	23.64	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	23.71	23.73	23.61	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.68	23.72	23.63	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.70	23.72	23.67	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	23.65	23.73	23.64	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	23.65	23.71	23.65	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.70	23.71	23.65	



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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	22.64	22.72	22.97	
100	PI/2 BPSK	1	137	22.39	22.38	22.55	23.2
100	PI/2 BPSK	1	271	22.50	22.53	22.67	
100	PI/2 BPSK	135	0	22.59	22.65	22.81	
100	PI/2 BPSK	135	69	22.47	22.49	22.59	23.2
100	PI/2 BPSK	135	138	22.35	22.35	22.54	23.2
100	PI/2 BPSK	270	0	22.57	22.54	22.68	
100	QPSK	1	1	22.76	22.70	22.90	
100	QPSK	1	137	22.30	22.28	22.46	23.2
100	QPSK	1	271	22.45	22.47	22.58	
100	QPSK	135	0	22.65	22.65	22.80	
100	QPSK	135	69	22.50	22.41	22.60	23.2
100	QPSK	135	138	22.35	22.44	22.54	23.2
100	QPSK	270	0	22.50	22.48	22.67	
100	16QAM	1	1	22.75	22.73	22.89	
100	64QAM	1	1	22.67	22.61	22.81	23.2
100	256QAM	1	1	22.20	22.20	22.34	22.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.50	22.55	22.85	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.54	22.61	22.80	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.50	22.56	22.82	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.54	22.60	22.79	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.52	22.62	22.80	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.54	22.56	22.86	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.54	22.53	22.87	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.47	22.57	22.87	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.54	22.52	22.78	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.51	22.55	22.83	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.62	22.54	22.78	



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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	27.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	26.38	26.53	26.71	
100	PI/2 BPSK	1	137	26.02	26.23	26.33	27.0
100	PI/2 BPSK	1	271	26.26	26.47	26.63	
100	PI/2 BPSK	135	0	26.00	26.26	26.37	
100	PI/2 BPSK	135	69	26.09	26.27	26.44	27.0
100	PI/2 BPSK	135	138	26.05	26.24	26.40	27.0
100	PI/2 BPSK	270	0	26.00	26.23	26.41	
100	QPSK	1	1	26.25	26.50	26.60	
100	QPSK	1	137	26.01	26.17	26.25	27.0
100	QPSK	1	271	26.24	26.40	26.48	
100	QPSK	135	0	26.01	26.20	26.32	
100	QPSK	135	69	26.03	26.25	26.40	27.0
100	QPSK	135	138	26.02	26.20	26.32	27.0
100	QPSK	270	0	26.00	26.21	26.31	
100	16QAM	1	1	25.06	25.25	25.43	
100	64QAM	1	1	23.48	23.66	23.77	24.5
100	256QAM	1	1	21.49	21.69	21.87	22.5
Channel				649668	656000	662332	27.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	26.28	26.44	26.62	
Channel				649334	656000	662666	27.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	26.18	26.36	26.52	
Channel				649000	656000	663000	27.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	26.32	26.51	26.65	
Channel				648668	656000	663332	27.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	26.31	26.36	26.52	
Channel				648334	656000	663666	27.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	26.24	26.50	26.62	
Channel				648000	656000	664000	27.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	26.36	26.53	26.54	
Channel				647668	656000	664332	27.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	26.24	26.34	26.58	
Channel				647500	656000	664500	27.0
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	26.38	26.40	26.59	
Channel				647334	656000	664666	27.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	26.22	26.42	26.60	
Channel				647168	656000	664832	27.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	26.23	26.45	26.63	
Channel				647000	656000	665000	27.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	26.19	26.48	26.68	



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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	25.3
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.57	24.60	24.57	
100	PI/2 BPSK	1	137	24.20	24.29	24.17	25.3
100	PI/2 BPSK	1	271	24.57	24.58	24.52	
100	PI/2 BPSK	135	0	24.37	24.45	24.35	
100	PI/2 BPSK	135	69	24.25	24.33	24.22	25.3
100	PI/2 BPSK	135	138	24.40	24.46	24.36	25.3
100	PI/2 BPSK	270	0	24.30	24.39	24.25	
100	QPSK	1	1	24.31	24.40	24.30	
100	QPSK	1	137	24.15	24.20	24.06	25.3
100	QPSK	1	271	24.50	24.55	24.44	
100	QPSK	135	0	24.38	24.46	24.34	
100	QPSK	135	69	24.26	24.33	24.20	25.3
100	QPSK	135	138	24.38	24.44	24.31	25.3
100	QPSK	270	0	24.34	24.39	24.29	
100	16QAM	1	1	24.37	24.43	24.30	
100	64QAM	1	1	23.73	23.82	23.69	24.5
100	256QAM	1	1	22.01	22.08	21.94	22.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.52	24.57	24.52	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.48	24.56	24.50	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.53	24.53	24.56	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.54	24.57	24.56	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.55	24.59	24.58	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.52	24.58	24.57	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.54	24.57	24.51	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.53	24.53	24.53	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.57	24.54	24.56	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.53	24.52	24.48	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.50	24.51	24.52	



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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	25.2
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.72	23.74	23.68	
100	PI/2 BPSK	1	137	23.33	23.37	23.27	25.2
100	PI/2 BPSK	1	271	23.70	23.72	23.64	
100	PI/2 BPSK	135	0	23.46	23.49	23.37	
100	PI/2 BPSK	135	69	23.34	23.39	23.27	25.2
100	PI/2 BPSK	135	138	23.46	23.52	23.41	25.2
100	PI/2 BPSK	270	0	23.41	23.45	23.33	
100	QPSK	1	1	23.35	23.43	23.35	
100	QPSK	1	137	23.19	23.25	23.16	25.2
100	QPSK	1	271	23.58	23.64	23.57	
100	QPSK	135	0	23.46	23.48	23.36	
100	QPSK	135	69	23.31	23.38	23.27	25.0
100	QPSK	135	138	23.44	23.51	23.40	25.0
100	QPSK	270	0	23.40	23.44	23.35	
100	16QAM	1	1	23.41	23.45	23.35	
100	64QAM	1	1	22.82	22.86	22.80	23.5
100	256QAM	1	1	20.85	20.92	20.83	21.5
Channel				649668	656000	662332	25.2
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	23.65	23.69	23.63	
Channel				649334	656000	662666	25.2
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	23.66	23.72	23.67	
Channel				649000	656000	663000	25.2
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.67	23.72	23.67	
Channel				648668	656000	663332	25.2
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.69	23.72	23.66	
Channel				648334	656000	663666	25.2
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.66	23.68	23.64	
Channel				648000	656000	664000	25.2
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	23.71	23.73	23.61	
Channel				647668	656000	664332	25.2
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.68	23.72	23.63	
Channel				647500	656000	664500	25.2
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.70	23.72	23.67	
Channel				647334	656000	664666	25.2
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	23.65	23.73	23.64	
Channel				647168	656000	664832	25.2
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	23.65	23.71	23.65	
Channel				647000	656000	665000	25.2
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.70	23.71	23.65	



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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	22.64	22.72	22.97	
100	PI/2 BPSK	1	137	22.39	22.38	22.55	23.9
100	PI/2 BPSK	1	271	22.50	22.53	22.67	
100	PI/2 BPSK	135	0	22.59	22.65	22.81	
100	PI/2 BPSK	135	69	22.47	22.49	22.59	23.9
100	PI/2 BPSK	135	138	22.35	22.35	22.54	23.9
100	PI/2 BPSK	270	0	22.57	22.54	22.68	
100	QPSK	1	1	22.76	22.70	22.90	
100	QPSK	1	137	22.30	22.28	22.46	23.9
100	QPSK	1	271	22.45	22.47	22.58	
100	QPSK	135	0	22.65	22.65	22.80	
100	QPSK	135	69	22.50	22.41	22.60	23.9
100	QPSK	135	138	22.35	22.44	22.54	23.9
100	QPSK	270	0	22.50	22.48	22.67	
100	16QAM	1	1	22.75	22.73	22.89	
100	64QAM	1	1	22.67	22.61	22.81	23.9
100	256QAM	1	1	22.20	22.20	22.34	22.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.50	22.55	22.85	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.54	22.61	22.80	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.50	22.56	22.82	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.54	22.60	22.79	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.52	22.62	22.80	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.54	22.56	22.86	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.54	22.53	22.87	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.47	22.57	22.87	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.54	22.52	22.78	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.51	22.55	22.83	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.62	22.54	22.78	



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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	27.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	26.38	26.53	26.71	
100	PI/2 BPSK	1	137	26.02	26.23	26.33	27.0
100	PI/2 BPSK	1	271	26.26	26.47	26.63	
100	PI/2 BPSK	135	0	26.00	26.26	26.37	
100	PI/2 BPSK	135	69	26.09	26.27	26.44	27.0
100	PI/2 BPSK	135	138	26.05	26.24	26.40	27.0
100	PI/2 BPSK	270	0	26.00	26.23	26.41	
100	QPSK	1	1	26.25	26.50	26.60	
100	QPSK	1	137	26.01	26.17	26.25	27.0
100	QPSK	1	271	26.24	26.40	26.48	
100	QPSK	135	0	26.01	26.20	26.32	
100	QPSK	135	69	26.03	26.25	26.40	27.0
100	QPSK	135	138	26.02	26.20	26.32	27.0
100	QPSK	270	0	26.00	26.21	26.31	
100	16QAM	1	1	25.06	25.25	25.43	
100	64QAM	1	1	23.48	23.66	23.77	24.5
100	256QAM	1	1	21.49	21.69	21.87	22.5
Channel				649668	656000	662332	27.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	26.28	26.44	26.62	
Channel				649334	656000	662666	27.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	26.18	26.36	26.52	
Channel				649000	656000	663000	27.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	26.32	26.51	26.65	
Channel				648668	656000	663332	27.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	26.31	26.36	26.52	
Channel				648334	656000	663666	27.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	26.24	26.50	26.62	
Channel				648000	656000	664000	27.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	26.36	26.53	26.54	
Channel				647668	656000	664332	27.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	26.24	26.34	26.58	
Channel				647500	656000	664500	27.0
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	26.38	26.40	26.59	
Channel				647334	656000	664666	27.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	26.22	26.42	26.60	
Channel				647168	656000	664832	27.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	26.23	26.45	26.63	
Channel				647000	656000	665000	27.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	26.19	26.48	26.68	



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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	24.57	24.60	24.57	
100	PI/2 BPSK	1	137	24.20	24.29	24.17	24.6
100	PI/2 BPSK	1	271	24.57	24.58	24.52	
100	PI/2 BPSK	135	0	24.37	24.45	24.35	
100	PI/2 BPSK	135	69	24.25	24.33	24.22	24.6
100	PI/2 BPSK	135	138	24.40	24.46	24.36	24.6
100	PI/2 BPSK	270	0	24.30	24.39	24.25	
100	QPSK	1	1	24.31	24.40	24.30	
100	QPSK	1	137	24.15	24.20	24.06	24.6
100	QPSK	1	271	24.50	24.55	24.44	
100	QPSK	135	0	24.38	24.46	24.34	
100	QPSK	135	69	24.26	24.33	24.20	24.6
100	QPSK	135	138	24.38	24.44	24.31	24.6
100	QPSK	270	0	24.34	24.39	24.29	
100	16QAM	1	1	24.37	24.43	24.30	
100	64QAM	1	1	23.73	23.82	23.69	24.5
100	256QAM	1	1	22.01	22.08	21.94	22.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.52	24.57	24.52	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.48	24.56	24.50	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.53	24.53	24.56	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.54	24.57	24.56	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.55	24.59	24.58	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.52	24.58	24.57	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.54	24.57	24.51	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.53	24.53	24.53	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.57	24.54	24.56	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.53	24.52	24.48	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.50	24.51	24.52	



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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	23.72	23.74	23.68	
100	PI/2 BPSK	1	137	23.33	23.37	23.27	24.5
100	PI/2 BPSK	1	271	23.70	23.72	23.64	
100	PI/2 BPSK	135	0	23.46	23.49	23.37	
100	PI/2 BPSK	135	69	23.34	23.39	23.27	24.5
100	PI/2 BPSK	135	138	23.46	23.52	23.41	24.5
100	PI/2 BPSK	270	0	23.41	23.45	23.33	
100	QPSK	1	1	23.35	23.43	23.35	
100	QPSK	1	137	23.19	23.25	23.16	24.5
100	QPSK	1	271	23.58	23.64	23.57	
100	QPSK	135	0	23.46	23.48	23.36	
100	QPSK	135	69	23.31	23.38	23.27	24.5
100	QPSK	135	138	23.44	23.51	23.40	24.5
100	QPSK	270	0	23.40	23.44	23.35	
100	16QAM	1	1	23.41	23.45	23.35	
100	64QAM	1	1	22.82	22.86	22.80	23.5
100	256QAM	1	1	20.85	20.92	20.83	21.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	23.65	23.69	23.63	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	23.66	23.72	23.67	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.67	23.72	23.67	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.69	23.72	23.66	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.66	23.68	23.64	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	23.71	23.73	23.61	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.68	23.72	23.63	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.70	23.72	23.67	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	23.65	23.73	23.64	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	23.65	23.71	23.65	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.70	23.71	23.65	



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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	22.64	22.72	22.97	
100	PI/2 BPSK	1	137	22.39	22.38	22.55	23.2
100	PI/2 BPSK	1	271	22.50	22.53	22.67	
100	PI/2 BPSK	135	0	22.59	22.65	22.81	
100	PI/2 BPSK	135	69	22.47	22.49	22.59	23.2
100	PI/2 BPSK	135	138	22.35	22.35	22.54	23.2
100	PI/2 BPSK	270	0	22.57	22.54	22.68	
100	QPSK	1	1	22.76	22.70	22.90	
100	QPSK	1	137	22.30	22.28	22.46	23.2
100	QPSK	1	271	22.45	22.47	22.58	
100	QPSK	135	0	22.65	22.65	22.80	
100	QPSK	135	69	22.50	22.41	22.60	23.2
100	QPSK	135	138	22.35	22.44	22.54	23.2
100	QPSK	270	0	22.50	22.48	22.67	
100	16QAM	1	1	22.75	22.73	22.89	
100	64QAM	1	1	22.67	22.61	22.81	23.2
100	256QAM	1	1	22.20	22.20	22.34	22.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.50	22.55	22.85	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.54	22.61	22.80	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.50	22.56	22.82	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.54	22.60	22.79	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.52	22.62	22.80	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.54	22.56	22.86	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.54	22.53	22.87	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.47	22.57	22.87	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.54	22.52	22.78	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.51	22.55	22.83	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.62	22.54	22.78	



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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	27.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	26.38	26.53	26.71	
100	PI/2 BPSK	1	137	26.02	26.23	26.33	27.0
100	PI/2 BPSK	1	271	26.26	26.47	26.63	
100	PI/2 BPSK	135	0	26.00	26.26	26.37	
100	PI/2 BPSK	135	69	26.09	26.27	26.44	27.0
100	PI/2 BPSK	135	138	26.05	26.24	26.40	27.0
100	PI/2 BPSK	270	0	26.00	26.23	26.41	
100	QPSK	1	1	26.25	26.50	26.60	
100	QPSK	1	137	26.01	26.17	26.25	27.0
100	QPSK	1	271	26.24	26.40	26.48	
100	QPSK	135	0	26.01	26.20	26.32	
100	QPSK	135	69	26.03	26.25	26.40	27.0
100	QPSK	135	138	26.02	26.20	26.32	27.0
100	QPSK	270	0	26.00	26.21	26.31	
100	16QAM	1	1	25.06	25.25	25.43	
100	64QAM	1	1	23.48	23.66	23.77	24.5
100	256QAM	1	1	21.49	21.69	21.87	22.5
Channel				649668	656000	662332	27.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	26.28	26.44	26.62	
Channel				649334	656000	662666	27.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	26.18	26.36	26.52	
Channel				649000	656000	663000	27.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	26.32	26.51	26.65	
Channel				648668	656000	663332	27.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	26.31	26.36	26.52	
Channel				648334	656000	663666	27.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	26.24	26.50	26.62	
Channel				648000	656000	664000	27.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	26.36	26.53	26.54	
Channel				647668	656000	664332	27.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	26.24	26.34	26.58	
Channel				647500	656000	664500	27.0
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	26.38	26.40	26.59	
Channel				647334	656000	664666	27.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	26.22	26.42	26.60	
Channel				647168	656000	664832	27.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	26.23	26.45	26.63	
Channel				647000	656000	665000	27.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	26.19	26.48	26.68	



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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	27.0
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	26.75	26.81	26.76	
100	PI/2 BPSK	1	137	26.51	26.50	26.38	27.0
100	PI/2 BPSK	1	271	26.76	26.77	26.71	
100	PI/2 BPSK	135	0	26.47	26.48	26.37	
100	PI/2 BPSK	135	69	26.55	26.54	26.43	27.0
100	PI/2 BPSK	135	138	26.50	26.46	26.41	27.0
100	PI/2 BPSK	270	0	26.49	26.51	26.37	
100	QPSK	1	1	26.68	26.75	26.68	
100	QPSK	1	137	26.42	26.41	26.31	27.0
100	QPSK	1	271	26.76	26.79	26.71	
100	QPSK	135	0	26.47	26.47	26.37	
100	QPSK	135	69	26.53	26.53	26.42	27.0
100	QPSK	135	138	26.48	26.50	26.40	27.0
100	QPSK	270	0	26.47	26.49	26.40	
100	16QAM	1	1	25.66	25.65	25.51	
100	64QAM	1	1	24.05	24.03	23.95	24.5
100	256QAM	1	1	22.13	22.08	21.94	22.5
Channel				649668	656000	662332	27.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	26.62	26.73	26.63	
Channel				649334	656000	662666	27.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	26.71	26.75	26.76	
Channel				649000	656000	663000	27.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	26.58	26.80	26.73	
Channel				648668	656000	663332	27.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	26.75	26.75	26.61	
Channel				648334	656000	663666	27.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	26.58	26.72	26.75	
Channel				648000	656000	664000	27.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	26.71	26.80	26.68	
Channel				647668	656000	664332	27.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	26.69	26.78	26.59	
Channel				647500	656000	664500	27.0
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	26.65	26.66	26.76	
Channel				647334	656000	664666	27.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	26.67	26.64	26.70	
Channel				647168	656000	664832	27.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	26.72	26.65	26.64	
Channel				647000	656000	665000	27.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	26.68	26.68	26.67	



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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	17.7
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	17.50	17.46	17.46	
100	PI/2 BPSK	1	137	17.31	17.36	17.35	17.7
100	PI/2 BPSK	1	271	17.46	17.42	17.35	
100	PI/2 BPSK	135	0	17.32	17.27	17.46	
100	PI/2 BPSK	135	69	17.39	17.40	17.33	17.7
100	PI/2 BPSK	135	138	17.36	17.36	17.26	17.7
100	PI/2 BPSK	270	0	17.40	17.40	17.37	
100	QPSK	1	1	17.42	17.30	17.34	
100	QPSK	1	137	17.35	17.31	17.32	17.7
100	QPSK	1	271	17.38	17.41	17.29	
100	QPSK	135	0	17.33	17.38	17.38	
100	QPSK	135	69	17.41	17.46	17.30	17.7
100	QPSK	135	138	17.35	17.45	17.33	17.7
100	QPSK	270	0	17.33	17.27	17.26	
100	16QAM	1	1	17.47	17.28	17.42	
100	64QAM	1	1	17.36	17.35	17.44	17.7
100	256QAM	1	1	17.42	17.38	17.41	17.7
Channel				649668	656000	662332	17.7
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	17.37	17.33	17.30	
Channel				649334	656000	662666	17.7
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	17.48	17.40	17.38	
Channel				649000	656000	663000	17.7
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	17.30	17.41	17.33	
Channel				648668	656000	663332	17.7
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	17.40	17.30	17.38	
Channel				648334	656000	663666	17.7
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	17.45	17.44	17.44	
Channel				648000	656000	664000	17.7
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	17.45	17.29	17.29	
Channel				647668	656000	664332	17.7
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	17.34	17.32	17.43	
Channel				647500	656000	664500	17.7
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	17.30	17.33	17.26	
Channel				647334	656000	664666	17.7
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	17.41	17.28	17.38	
Channel				647168	656000	664832	17.7
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	17.40	17.27	17.41	
Channel				647000	656000	665000	17.7
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	17.30	17.36	17.35	



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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	26.79	26.81	26.87	
100	PI/2 BPSK	1	137	26.50	26.58	26.57	27.0
100	PI/2 BPSK	1	271	26.75	26.79	26.63	
100	PI/2 BPSK	135	0	26.56	26.53	26.49	
100	PI/2 BPSK	135	69	26.57	26.60	26.56	27.0
100	PI/2 BPSK	135	138	26.50	26.55	26.42	27.0
100	PI/2 BPSK	270	0	26.55	26.57	26.46	
100	QPSK	1	1	26.65	26.73	26.74	
100	QPSK	1	137	26.49	26.52	26.51	27.0
100	QPSK	1	271	26.73	26.77	26.82	
100	QPSK	135	0	26.55	26.63	26.56	
100	QPSK	135	69	26.56	26.64	26.60	27.0
100	QPSK	135	138	26.53	26.55	26.54	27.0
100	QPSK	270	0	26.53	26.59	26.58	
100	16QAM	1	1	25.60	25.67	25.72	
100	64QAM	1	1	24.02	24.10	24.12	24.5
100	256QAM	1	1	22.03	22.13	22.15	22.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	26.72	26.64	26.78	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	26.62	26.63	26.68	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	26.60	26.63	26.79	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	26.70	26.77	26.81	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	26.71	26.78	26.73	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	26.61	26.75	26.80	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	26.79	26.76	26.81	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	26.71	26.75	26.81	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	26.71	26.78	26.83	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	26.66	26.70	26.70	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	26.64	26.71	26.69	



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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	23.42	23.28	23.70	
100	PI/2 BPSK	1	137	23.11	23.20	23.50	24.0
100	PI/2 BPSK	1	271	23.30	23.27	23.67	
100	PI/2 BPSK	135	0	23.20	23.21	23.56	
100	PI/2 BPSK	135	69	23.38	23.34	23.58	24.0
100	PI/2 BPSK	135	138	23.10	23.30	23.54	24.0
100	PI/2 BPSK	270	0	23.36	23.18	23.55	
100	QPSK	1	1	23.11	23.18	23.47	
100	QPSK	1	137	23.04	23.19	23.56	24.0
100	QPSK	1	271	23.29	23.15	23.48	
100	QPSK	135	0	23.25	23.19	23.58	
100	QPSK	135	69	23.29	23.33	23.48	24.0
100	QPSK	135	138	23.22	23.30	23.47	24.0
100	QPSK	270	0	23.12	23.20	23.54	
100	16QAM	1	1	23.12	23.28	23.53	
100	64QAM	1	1	23.10	23.12	23.49	24.0
100	256QAM	1	1	21.61	21.65	22.00	22.5
Channel				649668	656000	662332	24.0
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	23.42	23.16	23.61	
Channel				649334	656000	662666	24.0
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	23.22	23.20	23.60	
Channel				649000	656000	663000	24.0
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.37	23.12	23.53	
Channel				648668	656000	663332	24.0
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.22	23.14	23.63	
Channel				648334	656000	663666	24.0
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.33	23.13	23.58	
Channel				648000	656000	664000	24.0
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	23.40	23.13	23.57	
Channel				647668	656000	664332	24.0
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.38	23.20	23.50	
Channel				647500	656000	664500	24.0
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.36	23.27	23.62	
Channel				647334	656000	664666	24.0
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	23.26	23.09	23.59	
Channel				647168	656000	664832	24.0
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	23.41	23.25	23.60	
Channel				647000	656000	665000	24.0
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.23	23.22	23.50	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	23.2
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.65	22.68	22.70	
100	PI/2 BPSK	1	137	22.44	22.47	22.43	23.2
100	PI/2 BPSK	1	271	22.53	22.64	22.57	
100	PI/2 BPSK	135	0	22.56	22.62	22.55	
100	PI/2 BPSK	135	69	22.53	22.63	22.64	23.2
100	PI/2 BPSK	135	138	22.57	22.60	22.56	
100	PI/2 BPSK	270	0	22.51	22.56	22.53	
100	QPSK	1	1	22.51	22.63	22.58	23.2
100	QPSK	1	137	22.28	22.41	22.36	
100	QPSK	1	271	22.53	22.60	22.56	
100	QPSK	135	0	22.50	22.53	22.53	23.2
100	QPSK	135	69	22.51	22.55	22.47	
100	QPSK	135	138	22.46	22.59	22.60	
100	QPSK	270	0	22.46	22.54	22.46	23.2
100	16QAM	1	1	22.42	22.45	22.43	
100	64QAM	1	1	22.47	22.53	22.48	
100	256QAM	1	1	21.94	22.07	22.05	22.5
Channel				649668	656000	662332	23.2
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.51	22.59	22.51	
Channel				649334	656000	662666	23.2
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.59	22.57	22.62	
Channel				649000	656000	663000	23.2
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.49	22.57	22.58	
Channel				648668	656000	663332	23.2
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.62	22.51	22.68	
Channel				648334	656000	663666	23.2
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.54	22.58	22.61	
Channel				648000	656000	664000	23.2
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.55	22.51	22.65	
Channel				647668	656000	664332	23.2
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.63	22.48	22.64	
Channel				647500	656000	664500	23.2
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.48	22.52	22.62	
Channel				647334	656000	664666	23.2
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.58	22.67	22.53	
Channel				647168	656000	664832	23.2
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.48	22.57	22.65	
Channel				647000	656000	665000	23.2
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.55	22.49	22.59	



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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	23.8
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.56	23.59	23.50	
100	PI/2 BPSK	1	137	23.34	23.46	23.33	23.8
100	PI/2 BPSK	1	271	23.42	23.55	23.39	
100	PI/2 BPSK	135	0	23.46	23.50	23.37	
100	PI/2 BPSK	135	69	23.50	23.53	23.39	23.8
100	PI/2 BPSK	135	138	23.40	23.48	23.34	23.8
100	PI/2 BPSK	270	0	23.34	23.46	23.32	
100	QPSK	1	1	23.47	23.54	23.35	
100	QPSK	1	137	23.33	23.43	23.34	23.8
100	QPSK	1	271	23.33	23.45	23.35	
100	QPSK	135	0	23.44	23.48	23.30	
100	QPSK	135	69	23.42	23.47	23.33	23.8
100	QPSK	135	138	23.36	23.41	23.25	23.8
100	QPSK	270	0	23.32	23.36	23.21	
100	16QAM	1	1	23.11	23.20	23.11	
100	64QAM	1	1	22.77	22.82	22.67	23.5
100	256QAM	1	1	20.77	20.84	20.72	21.5
Channel				649668	656000	662332	23.8
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	23.55	23.51	23.44	
Channel				649334	656000	662666	23.8
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	23.38	23.46	23.31	
Channel				649000	656000	663000	23.8
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.37	23.56	23.38	
Channel				648668	656000	663332	23.8
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.54	23.50	23.46	
Channel				648334	656000	663666	23.8
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.56	23.48	23.32	
Channel				648000	656000	664000	23.8
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	23.36	23.52	23.46	
Channel				647668	656000	664332	23.8
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.38	23.48	23.41	
Channel				647500	656000	664500	23.8
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.44	23.58	23.44	
Channel				647334	656000	664666	23.8
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	23.55	23.42	23.39	
Channel				647168	656000	664832	23.8
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	23.44	23.42	23.36	
Channel				647000	656000	665000	23.8
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.36	23.41	23.50	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	23.1
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.78	22.75	22.90	
100	PI/2 BPSK	1	137	22.54	22.60	22.71	23.1
100	PI/2 BPSK	1	271	22.67	22.69	22.75	
100	PI/2 BPSK	135	0	22.64	22.64	22.76	
100	PI/2 BPSK	135	69	22.63	22.68	22.81	23.1
100	PI/2 BPSK	135	138	22.57	22.60	22.72	23.1
100	PI/2 BPSK	270	0	22.74	22.72	22.82	
100	QPSK	1	1	22.61	22.68	22.79	
100	QPSK	1	137	22.49	22.51	22.59	23.1
100	QPSK	1	271	22.58	22.60	22.72	
100	QPSK	135	0	22.62	22.59	22.64	
100	QPSK	135	69	22.63	22.67	22.76	23.1
100	QPSK	135	138	22.58	22.59	22.71	23.1
100	QPSK	270	0	22.60	22.64	22.76	
100	16QAM	1	1	22.58	22.65	22.77	
100	64QAM	1	1	22.54	22.58	22.70	23.1
100	256QAM	1	1	22.13	22.13	22.25	22.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.58	22.62	22.77	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.60	22.63	22.75	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.69	22.74	22.75	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.59	22.73	22.75	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.70	22.63	22.77	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.67	22.58	22.86	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.70	22.62	22.81	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.62	22.55	22.71	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.65	22.62	22.71	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.69	22.73	22.77	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.60	22.72	22.79	



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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	24.8
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.33	24.30	24.68	
100	PI/2 BPSK	1	137	24.16	24.17	24.48	24.8
100	PI/2 BPSK	1	271	24.27	24.26	24.64	
100	PI/2 BPSK	135	0	24.21	24.24	24.55	
100	PI/2 BPSK	135	69	24.28	24.25	24.61	24.8
100	PI/2 BPSK	135	138	24.17	24.23	24.57	24.8
100	PI/2 BPSK	270	0	24.27	24.26	24.60	
100	QPSK	1	1	24.19	24.21	24.49	
100	QPSK	1	137	24.11	24.17	24.53	24.8
100	QPSK	1	271	24.20	24.21	24.50	
100	QPSK	135	0	24.22	24.22	24.52	
100	QPSK	135	69	24.25	24.24	24.55	24.8
100	QPSK	135	138	24.24	24.22	24.52	24.8
100	QPSK	270	0	24.15	24.19	24.55	
100	16QAM	1	1	24.17	24.22	24.56	
100	64QAM	1	1	23.60	23.62	23.99	24.5
100	256QAM	1	1	21.58	21.64	21.98	22.5
Channel				649668	656000	662332	24.8
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.16	24.16	24.52	
Channel				649334	656000	662666	24.8
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.28	24.17	24.55	
Channel				649000	656000	663000	24.8
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.26	24.30	24.63	
Channel				648668	656000	663332	24.8
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.31	24.18	24.48	
Channel				648334	656000	663666	24.8
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.30	24.28	24.67	
Channel				648000	656000	664000	24.8
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.15	24.15	24.51	
Channel				647668	656000	664332	24.8
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.31	24.10	24.66	
Channel				647500	656000	664500	24.8
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.21	24.22	24.62	
Channel				647334	656000	664666	24.8
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.18	24.10	24.57	
Channel				647168	656000	664832	24.8
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.20	24.14	24.62	
Channel				647000	656000	665000	24.8
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.33	24.17	24.64	



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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	23.9
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.65	22.68	22.70	
100	PI/2 BPSK	1	137	22.44	22.47	22.43	23.9
100	PI/2 BPSK	1	271	22.53	22.64	22.57	
100	PI/2 BPSK	135	0	22.56	22.62	22.55	
100	PI/2 BPSK	135	69	22.53	22.63	22.64	23.9
100	PI/2 BPSK	135	138	22.57	22.60	22.56	23.9
100	PI/2 BPSK	270	0	22.51	22.56	22.53	
100	QPSK	1	1	22.51	22.63	22.58	
100	QPSK	1	137	22.28	22.41	22.36	23.9
100	QPSK	1	271	22.53	22.60	22.56	
100	QPSK	135	0	22.50	22.53	22.53	
100	QPSK	135	69	22.51	22.55	22.47	23.9
100	QPSK	135	138	22.46	22.59	22.60	23.9
100	QPSK	270	0	22.46	22.54	22.46	
100	16QAM	1	1	22.42	22.45	22.43	
100	64QAM	1	1	22.47	22.53	22.48	23.9
100	256QAM	1	1	21.94	22.07	22.05	22.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.51	22.59	22.51	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.59	22.57	22.62	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.49	22.57	22.58	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.62	22.51	22.68	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.54	22.58	22.61	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.55	22.51	22.65	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.63	22.48	22.64	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.48	22.52	22.62	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.58	22.67	22.53	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.48	22.57	22.65	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.55	22.49	22.59	



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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	25.1
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.56	23.59	23.50	
100	PI/2 BPSK	1	137	23.34	23.46	23.33	25.1
100	PI/2 BPSK	1	271	23.42	23.55	23.39	
100	PI/2 BPSK	135	0	23.46	23.50	23.37	
100	PI/2 BPSK	135	69	23.50	23.53	23.39	25.1
100	PI/2 BPSK	135	138	23.40	23.48	23.34	25.1
100	PI/2 BPSK	270	0	23.34	23.46	23.32	
100	QPSK	1	1	23.47	23.54	23.35	
100	QPSK	1	137	23.33	23.43	23.34	25.1
100	QPSK	1	271	23.33	23.45	23.35	
100	QPSK	135	0	23.44	23.48	23.30	
100	QPSK	135	69	23.42	23.47	23.33	25.0
100	QPSK	135	138	23.36	23.41	23.25	25.0
100	QPSK	270	0	23.32	23.36	23.21	
100	16QAM	1	1	23.11	23.20	23.11	
100	64QAM	1	1	22.77	22.82	22.67	23.5
100	256QAM	1	1	20.77	20.84	20.72	21.5
Channel				649668	656000	662332	25.1
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	23.55	23.51	23.44	
Channel				649334	656000	662666	25.1
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	23.38	23.46	23.31	
Channel				649000	656000	663000	25.1
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.37	23.56	23.38	
Channel				648668	656000	663332	25.1
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.54	23.50	23.46	
Channel				648334	656000	663666	25.1
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.56	23.48	23.32	
Channel				648000	656000	664000	25.1
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	23.36	23.52	23.46	
Channel				647668	656000	664332	25.1
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.38	23.48	23.41	
Channel				647500	656000	664500	25.1
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.44	23.58	23.44	
Channel				647334	656000	664666	25.1
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	23.55	23.42	23.39	
Channel				647168	656000	664832	25.1
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	23.44	23.42	23.36	
Channel				647000	656000	665000	25.1
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.36	23.41	23.50	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	23.8
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.78	22.75	22.90	
100	PI/2 BPSK	1	137	22.54	22.60	22.71	23.8
100	PI/2 BPSK	1	271	22.67	22.69	22.75	
100	PI/2 BPSK	135	0	22.64	22.64	22.76	
100	PI/2 BPSK	135	69	22.63	22.68	22.81	23.8
100	PI/2 BPSK	135	138	22.57	22.60	22.72	23.8
100	PI/2 BPSK	270	0	22.74	22.72	22.82	
100	QPSK	1	1	22.61	22.68	22.79	
100	QPSK	1	137	22.49	22.51	22.59	23.8
100	QPSK	1	271	22.58	22.60	22.72	
100	QPSK	135	0	22.62	22.59	22.64	
100	QPSK	135	69	22.63	22.67	22.76	23.8
100	QPSK	135	138	22.58	22.59	22.71	23.8
100	QPSK	270	0	22.60	22.64	22.76	
100	16QAM	1	1	22.58	22.65	22.77	
100	64QAM	1	1	22.54	22.58	22.70	23.8
100	256QAM	1	1	22.13	22.13	22.25	22.5
Channel				649668	656000	662332	23.8
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.58	22.62	22.77	
Channel				649334	656000	662666	23.8
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.60	22.63	22.75	
Channel				649000	656000	663000	23.8
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.69	22.74	22.75	
Channel				648668	656000	663332	23.8
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.59	22.73	22.75	
Channel				648334	656000	663666	23.8
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.70	22.63	22.77	
Channel				648000	656000	664000	23.8
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.67	22.58	22.86	
Channel				647668	656000	664332	23.8
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.70	22.62	22.81	
Channel				647500	656000	664500	23.8
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.62	22.55	22.71	
Channel				647334	656000	664666	23.8
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.65	22.62	22.71	
Channel				647168	656000	664832	23.8
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.69	22.73	22.77	
Channel				647000	656000	665000	23.8
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.60	22.72	22.79	



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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	25.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.33	24.30	24.68	
100	PI/2 BPSK	1	137	24.16	24.17	24.48	25.5
100	PI/2 BPSK	1	271	24.27	24.26	24.64	
100	PI/2 BPSK	135	0	24.21	24.24	24.55	
100	PI/2 BPSK	135	69	24.28	24.25	24.61	25.5
100	PI/2 BPSK	135	138	24.17	24.23	24.57	25.5
100	PI/2 BPSK	270	0	24.27	24.26	24.60	
100	QPSK	1	1	24.19	24.21	24.49	
100	QPSK	1	137	24.11	24.17	24.53	25.5
100	QPSK	1	271	24.20	24.21	24.50	
100	QPSK	135	0	24.22	24.22	24.52	
100	QPSK	135	69	24.25	24.24	24.55	25.5
100	QPSK	135	138	24.24	24.22	24.52	25.5
100	QPSK	270	0	24.15	24.19	24.55	
100	16QAM	1	1	24.17	24.22	24.56	
100	64QAM	1	1	23.60	23.62	23.99	24.5
100	256QAM	1	1	21.58	21.64	21.98	22.5
Channel				649668	656000	662332	25.5
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.16	24.16	24.52	
Channel				649334	656000	662666	25.5
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.28	24.17	24.55	
Channel				649000	656000	663000	25.5
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.26	24.30	24.63	
Channel				648668	656000	663332	25.5
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.31	24.18	24.48	
Channel				648334	656000	663666	25.5
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.30	24.28	24.67	
Channel				648000	656000	664000	25.5
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.15	24.15	24.51	
Channel				647668	656000	664332	25.5
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.31	24.10	24.66	
Channel				647500	656000	664500	25.5
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.21	24.22	24.62	
Channel				647334	656000	664666	25.5
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.18	24.10	24.57	
Channel				647168	656000	664832	25.5
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.20	24.14	24.62	
Channel				647000	656000	665000	25.5
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.33	24.17	24.64	



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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	23.2
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.65	22.68	22.70	
100	PI/2 BPSK	1	137	22.44	22.47	22.43	23.2
100	PI/2 BPSK	1	271	22.53	22.64	22.57	
100	PI/2 BPSK	135	0	22.56	22.62	22.55	
100	PI/2 BPSK	135	69	22.53	22.63	22.64	23.2
100	PI/2 BPSK	135	138	22.57	22.60	22.56	23.2
100	PI/2 BPSK	270	0	22.51	22.56	22.53	
100	QPSK	1	1	22.51	22.63	22.58	
100	QPSK	1	137	22.28	22.41	22.36	23.2
100	QPSK	1	271	22.53	22.60	22.56	
100	QPSK	135	0	22.50	22.53	22.53	
100	QPSK	135	69	22.51	22.55	22.47	23.2
100	QPSK	135	138	22.46	22.59	22.60	23.2
100	QPSK	270	0	22.46	22.54	22.46	
100	16QAM	1	1	22.42	22.45	22.43	
100	64QAM	1	1	22.47	22.53	22.48	23.2
100	256QAM	1	1	21.94	22.07	22.05	22.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.51	22.59	22.51	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.59	22.57	22.62	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.49	22.57	22.58	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.62	22.51	22.68	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.54	22.58	22.61	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.55	22.51	22.65	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.63	22.48	22.64	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.48	22.52	22.62	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.58	22.67	22.53	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.48	22.57	22.65	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.55	22.49	22.59	



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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	24.4
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.56	23.59	23.50	
100	PI/2 BPSK	1	137	23.34	23.46	23.33	24.4
100	PI/2 BPSK	1	271	23.42	23.55	23.39	
100	PI/2 BPSK	135	0	23.46	23.50	23.37	
100	PI/2 BPSK	135	69	23.50	23.53	23.39	24.4
100	PI/2 BPSK	135	138	23.40	23.48	23.34	24.4
100	PI/2 BPSK	270	0	23.34	23.46	23.32	
100	QPSK	1	1	23.47	23.54	23.35	
100	QPSK	1	137	23.33	23.43	23.34	24.4
100	QPSK	1	271	23.33	23.45	23.35	
100	QPSK	135	0	23.44	23.48	23.30	
100	QPSK	135	69	23.42	23.47	23.33	24.4
100	QPSK	135	138	23.36	23.41	23.25	24.4
100	QPSK	270	0	23.32	23.36	23.21	
100	16QAM	1	1	23.11	23.20	23.11	
100	64QAM	1	1	22.77	22.82	22.67	23.5
100	256QAM	1	1	20.77	20.84	20.72	21.5
Channel				649668	656000	662332	24.4
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	23.55	23.51	23.44	
Channel				649334	656000	662666	24.4
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	23.38	23.46	23.31	
Channel				649000	656000	663000	24.4
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.37	23.56	23.38	
Channel				648668	656000	663332	24.4
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.54	23.50	23.46	
Channel				648334	656000	663666	24.4
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.56	23.48	23.32	
Channel				648000	656000	664000	24.4
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	23.36	23.52	23.46	
Channel				647668	656000	664332	24.4
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.38	23.48	23.41	
Channel				647500	656000	664500	24.4
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.44	23.58	23.44	
Channel				647334	656000	664666	24.4
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	23.55	23.42	23.39	
Channel				647168	656000	664832	24.4
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	23.44	23.42	23.36	
Channel				647000	656000	665000	24.4
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.36	23.41	23.50	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	23.1
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.78	22.75	22.90	
100	PI/2 BPSK	1	137	22.54	22.60	22.71	23.1
100	PI/2 BPSK	1	271	22.67	22.69	22.75	
100	PI/2 BPSK	135	0	22.64	22.64	22.76	
100	PI/2 BPSK	135	69	22.63	22.68	22.81	23.1
100	PI/2 BPSK	135	138	22.57	22.60	22.72	23.1
100	PI/2 BPSK	270	0	22.74	22.72	22.82	
100	QPSK	1	1	22.61	22.68	22.79	
100	QPSK	1	137	22.49	22.51	22.59	23.1
100	QPSK	1	271	22.58	22.60	22.72	
100	QPSK	135	0	22.62	22.59	22.64	
100	QPSK	135	69	22.63	22.67	22.76	23.1
100	QPSK	135	138	22.58	22.59	22.71	23.1
100	QPSK	270	0	22.60	22.64	22.76	
100	16QAM	1	1	22.58	22.65	22.77	
100	64QAM	1	1	22.54	22.58	22.70	23.1
100	256QAM	1	1	22.13	22.13	22.25	22.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.58	22.62	22.77	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.60	22.63	22.75	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.69	22.74	22.75	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.59	22.73	22.75	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.70	22.63	22.77	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.67	22.58	22.86	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.70	22.62	22.81	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.62	22.55	22.71	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.65	22.62	22.71	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.69	22.73	22.77	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.60	22.72	22.79	



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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	24.8
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.33	24.30	24.68	
100	PI/2 BPSK	1	137	24.16	24.17	24.48	24.8
100	PI/2 BPSK	1	271	24.27	24.26	24.64	
100	PI/2 BPSK	135	0	24.21	24.24	24.55	
100	PI/2 BPSK	135	69	24.28	24.25	24.61	24.8
100	PI/2 BPSK	135	138	24.17	24.23	24.57	24.8
100	PI/2 BPSK	270	0	24.27	24.26	24.60	
100	QPSK	1	1	24.19	24.21	24.49	
100	QPSK	1	137	24.11	24.17	24.53	24.8
100	QPSK	1	271	24.20	24.21	24.50	
100	QPSK	135	0	24.22	24.22	24.52	
100	QPSK	135	69	24.25	24.24	24.55	24.8
100	QPSK	135	138	24.24	24.22	24.52	24.8
100	QPSK	270	0	24.15	24.19	24.55	
100	16QAM	1	1	24.17	24.22	24.56	
100	64QAM	1	1	23.60	23.62	23.99	24.5
100	256QAM	1	1	21.58	21.64	21.98	22.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	24.16	24.16	24.52	
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	24.28	24.17	24.55	
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	24.26	24.30	24.63	
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	24.31	24.18	24.48	
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	24.30	24.28	24.67	
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.15	24.15	24.51	
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	24.31	24.10	24.66	
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	24.21	24.22	24.62	
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	24.18	24.10	24.57	
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	24.20	24.14	24.62	
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	24.33	24.17	24.64	



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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		24.72		
100	PI/2 BPSK	1	137		24.38		25.0
100	PI/2 BPSK	1	271		24.28		
100	PI/2 BPSK	135	0		24.37		
100	PI/2 BPSK	135	69		24.42		25.0
100	PI/2 BPSK	135	138		24.36		25.0
100	PI/2 BPSK	270	0		24.37		
100	QPSK	1	1		24.63		
100	QPSK	1	137		24.28		25.0
100	QPSK	1	271		24.52		
100	QPSK	135	0		24.35		
100	QPSK	135	69		24.40		25.0
100	QPSK	135	138		24.34		25.0
100	QPSK	270	0		24.37		
100	16QAM	1	1		23.73		
100	64QAM	1	1		22.08		22.5
100	256QAM	1	1		20.09		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.52	24.65	24.62	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.57	24.54	24.56	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.66	24.67	24.62	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.69	24.57	24.53	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.54	24.67	24.57	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.62	24.70	24.66	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.71	24.66	24.63	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.65	24.61	24.62	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.56	24.52	24.64	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.63	24.70	24.68	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.52	24.52	24.56	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		16.7
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		15.81		
100	PI/2 BPSK	1	137		15.27		16.7
100	PI/2 BPSK	1	271		15.73		
100	PI/2 BPSK	135	0		15.33		
100	PI/2 BPSK	135	69		15.36		16.7
100	PI/2 BPSK	135	138		15.37		16.7
100	PI/2 BPSK	270	0		15.45		
100	QPSK	1	1		15.57		
100	QPSK	1	137		15.25		16.7
100	QPSK	1	271		15.58		
100	QPSK	135	0		15.29		
100	QPSK	135	69		15.31		16.7
100	QPSK	135	138		15.40		16.7
100	QPSK	270	0		15.42		
100	16QAM	1	1		15.64		
100	64QAM	1	1		15.52		16.7
100	256QAM	1	1		15.56		16.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	15.71	15.62	15.62	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	15.75	15.60	15.66	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	15.58	15.73	15.66	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	15.74	15.74	15.74	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	15.57	15.58	15.59	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	15.69	15.61	15.75	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	15.72	15.76	15.63	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	15.73	15.68	15.58	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	15.69	15.63	15.56	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	15.70	15.70	15.57	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	15.66	15.73	15.67	



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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		24.46		
100	PI/2 BPSK	1	137		24.01		25.0
100	PI/2 BPSK	1	271		24.36		
100	PI/2 BPSK	135	0		24.00		
100	PI/2 BPSK	135	69		24.03		25.0
100	PI/2 BPSK	135	138		24.01		25.0
100	PI/2 BPSK	270	0		24.03		
100	QPSK	1	1		24.39		
100	QPSK	1	137		23.93		25.0
100	QPSK	1	271		24.30		
100	QPSK	135	0		24.05		
100	QPSK	135	69		24.05		25.0
100	QPSK	135	138		24.02		25.0
100	QPSK	270	0		24.02		
100	16QAM	1	1		23.49		
100	64QAM	1	1		21.84		22.5
100	256QAM	1	1		19.86		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.30	24.44	24.44	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.40	24.37	24.43	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.45	24.34	24.32	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.26	24.32	24.34	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.34	24.43	24.44	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.34	24.42	24.38	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.31	24.36	24.32	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.33	24.32	24.29	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.27	24.45	24.43	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.44	24.34	24.45	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.34	24.41	24.29	



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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		24.7
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.45		
100	PI/2 BPSK	1	137		22.97		24.7
100	PI/2 BPSK	1	271		23.32		
100	PI/2 BPSK	135	0		23.15		
100	PI/2 BPSK	135	69		23.02		24.7
100	PI/2 BPSK	135	138		23.09		24.7
100	PI/2 BPSK	270	0		23.10		
100	QPSK	1	1		23.34		
100	QPSK	1	137		22.86		24.7
100	QPSK	1	271		23.21		
100	QPSK	135	0		23.11		
100	QPSK	135	69		23.01		24.7
100	QPSK	135	138		23.09		24.7
100	QPSK	270	0		23.09		
100	16QAM	1	1		23.39		
100	64QAM	1	1		21.83		22.5
100	256QAM	1	1		19.84		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.35	23.26	23.32	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.17	23.14	23.19	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.21	23.14	23.22	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.17	23.10	23.20	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.17	23.12	23.13	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.17	23.06	23.16	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.16	23.08	23.22	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.16	23.09	23.18	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.15	23.14	23.21	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.20	23.13	23.13	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.18	23.13	23.12	



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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		24.72		
100	PI/2 BPSK	1	137		24.38		25.0
100	PI/2 BPSK	1	271		24.28		
100	PI/2 BPSK	135	0		24.37		
100	PI/2 BPSK	135	69		24.42		25.0
100	PI/2 BPSK	135	138		24.36		25.0
100	PI/2 BPSK	270	0		24.37		
100	QPSK	1	1		24.63		
100	QPSK	1	137		24.28		25.0
100	QPSK	1	271		24.52		
100	QPSK	135	0		24.35		
100	QPSK	135	69		24.40		25.0
100	QPSK	135	138		24.34		25.0
100	QPSK	270	0		24.37		
100	16QAM	1	1		23.73		
100	64QAM	1	1		22.08		22.5
100	256QAM	1	1		20.09		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.52	24.65	24.62	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.57	24.54	24.56	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.66	24.67	24.62	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.69	24.57	24.53	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.54	24.67	24.57	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.62	24.70	24.66	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.71	24.66	24.63	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.65	24.61	24.62	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.56	24.52	24.64	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.63	24.70	24.68	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.52	24.52	24.56	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		15.81		
100	PI/2 BPSK	1	137		15.27		16.0
100	PI/2 BPSK	1	271		15.73		
100	PI/2 BPSK	135	0		15.33		
100	PI/2 BPSK	135	69		15.36		16.0
100	PI/2 BPSK	135	138		15.37		16.0
100	PI/2 BPSK	270	0		15.45		
100	QPSK	1	1		15.57		
100	QPSK	1	137		15.25		16.0
100	QPSK	1	271		15.58		
100	QPSK	135	0		15.29		
100	QPSK	135	69		15.31		16.0
100	QPSK	135	138		15.40		16.0
100	QPSK	270	0		15.42		
100	16QAM	1	1		15.64		
100	64QAM	1	1		15.52		16.0
100	256QAM	1	1		15.56		16.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	15.71	15.62	15.62	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	15.75	15.60	15.66	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	15.58	15.73	15.66	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	15.74	15.74	15.74	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	15.57	15.58	15.59	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	15.69	15.61	15.75	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	15.72	15.76	15.63	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	15.73	15.68	15.58	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	15.69	15.63	15.56	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	15.70	15.70	15.57	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	15.66	15.73	15.67	



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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		24.46		
100	PI/2 BPSK	1	137		24.01		25.0
100	PI/2 BPSK	1	271		24.36		
100	PI/2 BPSK	135	0		24.00		
100	PI/2 BPSK	135	69		24.03		25.0
100	PI/2 BPSK	135	138		24.01		25.0
100	PI/2 BPSK	270	0		24.03		
100	QPSK	1	1		24.39		
100	QPSK	1	137		23.93		25.0
100	QPSK	1	271		24.30		
100	QPSK	135	0		24.05		
100	QPSK	135	69		24.05		25.0
100	QPSK	135	138		24.02		25.0
100	QPSK	270	0		24.02		
100	16QAM	1	1		23.49		
100	64QAM	1	1		21.84		22.5
100	256QAM	1	1		19.86		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.30	24.44	24.44	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.40	24.37	24.43	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.45	24.34	24.32	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.26	24.32	24.34	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.34	24.43	24.44	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.34	24.42	24.38	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.31	24.36	24.32	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.33	24.32	24.29	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.27	24.45	24.43	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.44	24.34	24.45	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.34	24.41	24.29	



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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		23.45		24.0
100	PI/2 BPSK	1	137		22.97		
100	PI/2 BPSK	1	271		23.32		
100	PI/2 BPSK	135	0		23.15		24.0
100	PI/2 BPSK	135	69		23.02		24.0
100	PI/2 BPSK	135	138		23.09		24.0
100	PI/2 BPSK	270	0		23.10		
100	QPSK	1	1		23.34		24.0
100	QPSK	1	137		22.86		
100	QPSK	1	271		23.21		
100	QPSK	135	0		23.11		24.0
100	QPSK	135	69		23.01		24.0
100	QPSK	135	138		23.09		24.0
100	QPSK	270	0		23.09		
100	16QAM	1	1		23.39		24.0
100	64QAM	1	1		21.83		22.5
100	256QAM	1	1		19.84		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.35	23.26	23.32	24.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.17	23.14	23.19	24.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.21	23.14	23.22	24.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.17	23.10	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	23.17	23.12	23.13	24.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.17	23.06	23.16	24.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.16	23.08	23.22	24.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.16	23.09	23.18	24.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.15	23.14	23.21	24.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.20	23.13	23.13	24.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.18	23.13	23.12	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		21.60		21.6
100	PI/2 BPSK	1	137		21.15		
100	PI/2 BPSK	1	271		21.32		
100	PI/2 BPSK	135	0		21.15		21.6
100	PI/2 BPSK	135	69		21.19		21.6
100	PI/2 BPSK	135	138		21.23		21.6
100	PI/2 BPSK	270	0		21.25		
100	QPSK	1	1		21.46		21.6
100	QPSK	1	137		21.07		
100	QPSK	1	271		21.42		
100	QPSK	135	0		21.15		21.6
100	QPSK	135	69		21.20		21.6
100	QPSK	135	138		21.24		21.6
100	QPSK	270	0		21.26		
100	16QAM	1	1		21.55		21.6
100	64QAM	1	1		21.40		21.6
100	256QAM	1	1		19.89		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.45	21.45	21.55	21.6
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.52	21.55	21.56	21.6
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.52	21.49	21.46	21.6
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.57	21.60	21.52	21.6
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.56	21.50	21.56	21.6
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.60	21.50	21.45	21.6
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.49	21.43	21.54	21.6
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.59	21.48	21.57	21.6
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.57	21.51	21.43	21.6
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.56	21.51	21.46	21.6
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.58	21.52	21.43	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		20.79		21.5
100	PI/2 BPSK	1	137		20.36		
100	PI/2 BPSK	1	271		20.71		
100	PI/2 BPSK	135	0		20.36		21.5
100	PI/2 BPSK	135	69		20.41		21.5
100	PI/2 BPSK	135	138		20.45		21.5
100	PI/2 BPSK	270	0		20.46		
100	QPSK	1	1		20.66		21.5
100	QPSK	1	137		20.29		
100	QPSK	1	271		20.64		
100	QPSK	135	0		20.37		21.5
100	QPSK	135	69		20.40		21.5
100	QPSK	135	138		20.44		21.5
100	QPSK	270	0		20.43		
100	16QAM	1	1		20.76		21.5
100	64QAM	1	1		20.63		21.5
100	256QAM	1	1		19.10		19.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.70	20.77	20.68	21.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.71	20.78	20.69	21.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.73	20.77	20.63	21.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.72	20.74	20.66	21.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.73	20.73	20.64	21.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.68	20.72	20.68	21.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.72	20.76	20.67	21.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.72	20.75	20.68	21.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.68	20.77	20.67	21.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.69	20.73	20.67	21.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.69	20.77	20.65	21.5



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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		19.44		20.2
100	PI/2 BPSK	1	137		18.82		
100	PI/2 BPSK	1	271		19.24		
100	PI/2 BPSK	135	0		19.03		20.2
100	PI/2 BPSK	135	69		18.83		20.2
100	PI/2 BPSK	135	138		18.90		20.2
100	PI/2 BPSK	270	0		18.91		
100	QPSK	1	1		19.14		20.2
100	QPSK	1	137		18.75		
100	QPSK	1	271		19.11		
100	QPSK	135	0		18.97		20.2
100	QPSK	135	69		18.82		20.2
100	QPSK	135	138		18.92		20.2
100	QPSK	270	0		18.92		
100	16QAM	1	1		19.40		20.2
100	64QAM	1	1		19.32		20.2
100	256QAM	1	1		19.29		20.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.30	19.31	19.28	20.2
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.08	19.07	19.04	20.2
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.07	19.09	19.05	20.2
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.06	19.08	18.99	20.2
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.00	19.02	19.06	20.2
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.03	19.07	19.05	20.2
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.10	19.01	19.08	20.2
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.07	19.11	19.01	20.2
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.02	19.06	18.99	20.2
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.10	19.06	19.08	20.2
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.02	18.99	19.07	20.2



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.38		24.8
100	PI/2 BPSK	1	137		23.90		
100	PI/2 BPSK	1	271		24.25		
100	PI/2 BPSK	135	0		23.85		24.8
100	PI/2 BPSK	135	69		23.94		24.8
100	PI/2 BPSK	135	138		23.92		24.8
100	PI/2 BPSK	270	0		23.90		
100	QPSK	1	1		24.27		24.8
100	QPSK	1	137		23.80		
100	QPSK	1	271		24.16		
100	QPSK	135	0		23.87		24.8
100	QPSK	135	69		23.93		24.8
100	QPSK	135	138		23.91		24.8
100	QPSK	270	0		23.90		
100	16QAM	1	1		23.36		24.0
100	64QAM	1	1		21.76		22.5
100	256QAM	1	1		19.73		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.35	24.30	24.20	24.8
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.33	24.25	24.35	24.8
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.28	24.36	24.29	24.8
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.19	24.29	24.21	24.8
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.24	24.27	24.36	24.8
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.34	24.28	24.28	24.8
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.33	24.19	24.20	24.8
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.26	24.33	24.20	24.8
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.20	24.29	24.30	24.8
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.37	24.28	24.21	24.8
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.27	24.21	24.18	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		21.60		22.3
100	PI/2 BPSK	1	137		21.15		
100	PI/2 BPSK	1	271		21.32		
100	PI/2 BPSK	135	0		21.15		22.3
100	PI/2 BPSK	135	69		21.19		22.3
100	PI/2 BPSK	135	138		21.23		22.3
100	PI/2 BPSK	270	0		21.25		
100	QPSK	1	1		21.46		22.3
100	QPSK	1	137		21.07		
100	QPSK	1	271		21.42		
100	QPSK	135	0		21.15		22.3
100	QPSK	135	69		21.20		22.3
100	QPSK	135	138		21.24		22.3
100	QPSK	270	0		21.26		
100	16QAM	1	1		21.55		22.3
100	64QAM	1	1		21.40		22.3
100	256QAM	1	1		19.89		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.45	21.45	21.55	22.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.52	21.55	21.56	22.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.52	21.49	21.46	22.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.57	21.60	21.52	22.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.56	21.50	21.56	22.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.60	21.50	21.45	22.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.49	21.43	21.54	22.3
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.59	21.48	21.57	22.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.57	21.51	21.43	22.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.56	21.51	21.46	22.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.58	21.52	21.43	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		20.79		22.2
100	PI/2 BPSK	1	137		20.36		
100	PI/2 BPSK	1	271		20.71		
100	PI/2 BPSK	135	0		20.36		22.2
100	PI/2 BPSK	135	69		20.41		22.2
100	PI/2 BPSK	135	138		20.45		22.2
100	PI/2 BPSK	270	0		20.46		
100	QPSK	1	1		20.66		22.2
100	QPSK	1	137		20.29		
100	QPSK	1	271		20.64		
100	QPSK	135	0		20.37		22.2
100	QPSK	135	69		20.40		22.2
100	QPSK	135	138		20.44		22.2
100	QPSK	270	0		20.43		
100	16QAM	1	1		20.76		22.2
100	64QAM	1	1		20.63		21.5
100	256QAM	1	1		19.10		19.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.70	20.77	20.68	22.2
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.71	20.78	20.69	22.2
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.73	20.77	20.63	22.2
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.72	20.74	20.66	22.2
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.73	20.73	20.64	22.2
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.68	20.72	20.68	22.2
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.72	20.76	20.67	22.2
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.72	20.75	20.68	22.2
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.68	20.77	20.67	22.2
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.69	20.73	20.67	22.2
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.69	20.77	20.65	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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.44		20.9
100	PI/2 BPSK	1	137		18.82		
100	PI/2 BPSK	1	271		19.24		
100	PI/2 BPSK	135	0		19.03		20.9
100	PI/2 BPSK	135	69		18.90		20.9
100	PI/2 BPSK	135	138		18.90		20.9
100	PI/2 BPSK	270	0		18.91		
100	QPSK	1	1		19.14		20.9
100	QPSK	1	137		18.90		
100	QPSK	1	271		19.11		
100	QPSK	135	0		18.97		20.9
100	QPSK	135	69		18.82		20.9
100	QPSK	135	138		18.92		20.9
100	QPSK	270	0		18.92		
100	16QAM	1	1		19.40		20.9
100	64QAM	1	1		19.32		20.9
100	256QAM	1	1		19.29		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.30	19.31	19.28	20.9
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.08	19.07	19.04	20.9
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.07	19.09	19.05	20.9
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.06	19.08	18.99	20.9
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.00	19.02	19.06	20.9
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.03	19.07	19.05	20.9
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.10	19.01	19.08	20.9
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.07	19.11	19.01	20.9
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.02	19.06	18.99	20.9
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.10	19.06	19.08	20.9
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.02	18.99	19.07	20.9



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.38		
100	PI/2 BPSK	1	137		23.90		25.0
100	PI/2 BPSK	1	271		24.25		
100	PI/2 BPSK	135	0		23.85		
100	PI/2 BPSK	135	69		23.94		25.0
100	PI/2 BPSK	135	138		23.92		25.0
100	PI/2 BPSK	270	0		23.90		
100	QPSK	1	1		24.27		
100	QPSK	1	137		23.80		25.0
100	QPSK	1	271		24.16		
100	QPSK	135	0		23.87		
100	QPSK	135	69		23.93		25.0
100	QPSK	135	138		23.91		25.0
100	QPSK	270	0		23.90		
100	16QAM	1	1		23.36		
100	64QAM	1	1		21.76		22.5
100	256QAM	1	1		19.73		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.35	24.30	24.20	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.33	24.25	24.35	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.28	24.36	24.29	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.19	24.29	24.21	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.24	24.27	24.36	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.34	24.28	24.28	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.33	24.19	24.20	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.26	24.33	24.20	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.20	24.29	24.30	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.37	24.28	24.21	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.27	24.21	24.18	



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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		21.60		21.6
100	PI/2 BPSK	1	137		21.15		
100	PI/2 BPSK	1	271		21.32		
100	PI/2 BPSK	135	0		21.15		21.6
100	PI/2 BPSK	135	69		21.19		21.6
100	PI/2 BPSK	135	138		21.23		21.6
100	PI/2 BPSK	270	0		21.25		
100	QPSK	1	1		21.46		21.6
100	QPSK	1	137		21.07		
100	QPSK	1	271		21.42		
100	QPSK	135	0		21.15		21.6
100	QPSK	135	69		21.20		21.6
100	QPSK	135	138		21.24		21.6
100	QPSK	270	0		21.26		
100	16QAM	1	1		21.55		21.6
100	64QAM	1	1		21.40		21.6
100	256QAM	1	1		19.89		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.45	21.45	21.55	21.6
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.52	21.55	21.56	21.6
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.52	21.49	21.46	21.6
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.57	21.60	21.52	21.6
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.56	21.50	21.56	21.6
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.60	21.50	21.45	21.6
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.49	21.43	21.54	21.6
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.59	21.48	21.57	21.6
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.57	21.51	21.43	21.6
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.56	21.51	21.46	21.6
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.58	21.52	21.43	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		20.79		21.5
100	PI/2 BPSK	1	137		20.36		
100	PI/2 BPSK	1	271		20.71		
100	PI/2 BPSK	135	0		20.36		21.5
100	PI/2 BPSK	135	69		20.41		21.5
100	PI/2 BPSK	135	138		20.45		21.5
100	PI/2 BPSK	270	0		20.46		
100	QPSK	1	1		20.66		21.5
100	QPSK	1	137		20.29		
100	QPSK	1	271		20.64		
100	QPSK	135	0		20.37		21.5
100	QPSK	135	69		20.40		21.5
100	QPSK	135	138		20.44		21.5
100	QPSK	270	0		20.43		
100	16QAM	1	1		20.76		21.5
100	64QAM	1	1		20.63		21.5
100	256QAM	1	1		19.10		19.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.70	20.77	20.68	21.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.71	20.78	20.69	21.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.73	20.77	20.63	21.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.72	20.74	20.66	21.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.73	20.73	20.64	21.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.68	20.72	20.68	21.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.72	20.76	20.67	21.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.72	20.75	20.68	21.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.68	20.77	20.67	21.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.69	20.73	20.67	21.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.69	20.77	20.65	21.5



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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		19.44		20.2
100	PI/2 BPSK	1	137		18.82		
100	PI/2 BPSK	1	271		19.24		
100	PI/2 BPSK	135	0		19.03		20.2
100	PI/2 BPSK	135	69		18.83		20.2
100	PI/2 BPSK	135	138		18.90		20.2
100	PI/2 BPSK	270	0		18.91		
100	QPSK	1	1		19.14		20.2
100	QPSK	1	137		18.75		
100	QPSK	1	271		19.11		
100	QPSK	135	0		18.97		20.2
100	QPSK	135	69		18.82		20.2
100	QPSK	135	138		18.92		20.2
100	QPSK	270	0		18.92		
100	16QAM	1	1		19.40		20.2
100	64QAM	1	1		19.32		20.2
100	256QAM	1	1		19.29		20.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.30	19.31	19.28	20.2
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.08	19.07	19.04	20.2
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.07	19.09	19.05	20.2
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.06	19.08	18.99	20.2
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.00	19.02	19.06	20.2
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.03	19.07	19.05	20.2
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.10	19.01	19.08	20.2
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.07	19.11	19.01	20.2
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.02	19.06	18.99	20.2
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.10	19.06	19.08	20.2
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.02	18.99	19.07	20.2



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.38		24.8
100	PI/2 BPSK	1	137		23.90		
100	PI/2 BPSK	1	271		24.25		
100	PI/2 BPSK	135	0		23.85		24.8
100	PI/2 BPSK	135	69		23.94		24.8
100	PI/2 BPSK	135	138		23.92		24.8
100	PI/2 BPSK	270	0		23.90		
100	QPSK	1	1		24.27		24.8
100	QPSK	1	137		23.80		
100	QPSK	1	271		24.16		
100	QPSK	135	0		23.87		24.8
100	QPSK	135	69		23.93		24.8
100	QPSK	135	138		23.91		24.8
100	QPSK	270	0		23.90		
100	16QAM	1	1		23.36		23.8
100	64QAM	1	1		21.76		22.3
100	256QAM	1	1		19.73		20.3
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.35	24.30	24.20	24.8
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.33	24.25	24.35	24.8
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.28	24.36	24.29	24.8
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.19	24.29	24.21	24.8
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.24	24.27	24.36	24.8
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.34	24.28	24.28	24.8
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.33	24.19	24.20	24.8
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.26	24.33	24.20	24.8
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.20	24.29	24.30	24.8
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.37	24.28	24.21	24.8
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.27	24.21	24.18	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		25.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.72		
100	PI/2 BPSK	1	137		24.38		25.0
100	PI/2 BPSK	1	271		24.28		
100	PI/2 BPSK	135	0		24.37		
100	PI/2 BPSK	135	69		24.42		25.0
100	PI/2 BPSK	135	138		24.36		25.0
100	PI/2 BPSK	270	0		24.37		
100	QPSK	1	1		24.63		
100	QPSK	1	137		24.28		25.0
100	QPSK	1	271		24.52		
100	QPSK	135	0		24.35		
100	QPSK	135	69		24.40		25.0
100	QPSK	135	138		24.34		25.0
100	QPSK	270	0		24.37		
100	16QAM	1	1		23.73		
100	64QAM	1	1		22.08		22.5
100	256QAM	1	1		20.09		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.52	24.65	24.62	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.57	24.54	24.56	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.66	24.67	24.62	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.69	24.57	24.53	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.54	24.67	24.57	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.62	24.70	24.66	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.71	24.66	24.63	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.65	24.61	24.62	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.56	24.52	24.64	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.63	24.70	24.68	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.52	24.52	24.56	



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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		14.7
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		14.69		
100	PI/2 BPSK	1	137		14.60		14.7
100	PI/2 BPSK	1	271		14.65		
100	PI/2 BPSK	135	0		14.56		
100	PI/2 BPSK	135	69		14.58		14.7
100	PI/2 BPSK	135	138		14.56		14.7
100	PI/2 BPSK	270	0		14.64		
100	QPSK	1	1		14.59		
100	QPSK	1	137		14.50		14.7
100	QPSK	1	271		14.57		
100	QPSK	135	0		14.57		
100	QPSK	135	69		14.67		14.7
100	QPSK	135	138		14.67		14.7
100	QPSK	270	0		14.59		
100	16QAM	1	1		14.59		
100	64QAM	1	1		14.67		14.7
100	256QAM	1	1		14.66		14.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	14.58	14.61	14.56	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	14.60	14.65	14.60	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	14.53	14.66	14.63	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	14.58	14.65	14.55	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	14.58	14.65	14.62	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	14.57	14.56	14.63	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	14.64	14.67	14.50	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	14.65	14.53	14.57	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	14.65	14.56	14.64	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	14.53	14.67	14.50	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	14.51	14.58	14.63	



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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		24.46		
100	PI/2 BPSK	1	137		24.01		25.0
100	PI/2 BPSK	1	271		24.36		
100	PI/2 BPSK	135	0		24.00		
100	PI/2 BPSK	135	69		24.03		25.0
100	PI/2 BPSK	135	138		24.01		25.0
100	PI/2 BPSK	270	0		24.03		
100	QPSK	1	1		24.39		
100	QPSK	1	137		23.93		25.0
100	QPSK	1	271		24.30		
100	QPSK	135	0		24.05		
100	QPSK	135	69		24.05		25.0
100	QPSK	135	138		24.02		25.0
100	QPSK	270	0		24.02		
100	16QAM	1	1		23.49		
100	64QAM	1	1		21.84		22.5
100	256QAM	1	1		19.86		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.30	24.44	24.44	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.40	24.37	24.43	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.45	24.34	24.32	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.26	24.32	24.34	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.34	24.43	24.44	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.34	24.42	24.38	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.31	24.36	24.32	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.33	24.32	24.29	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.27	24.45	24.43	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.44	24.34	24.45	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.34	24.41	24.29	



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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		20.44		
100	PI/2 BPSK	1	137		19.88		21.0
100	PI/2 BPSK	1	271		20.40		
100	PI/2 BPSK	135	0		19.97		
100	PI/2 BPSK	135	69		20.18		21.0
100	PI/2 BPSK	135	138		20.12		21.0
100	PI/2 BPSK	270	0		20.12		
100	QPSK	1	1		20.32		
100	QPSK	1	137		19.98		21.0
100	QPSK	1	271		20.28		
100	QPSK	135	0		19.81		
100	QPSK	135	69		20.07		21.0
100	QPSK	135	138		19.99		21.0
100	QPSK	270	0		19.87		
100	16QAM	1	1		20.37		
100	64QAM	1	1		20.21		21.0
100	256QAM	1	1		19.76		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.30	20.31	20.38	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.37	20.29	20.41	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.35	20.31	20.39	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.24	20.41	20.38	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.34	20.34	20.41	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.36	20.28	20.39	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.26	20.34	20.38	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.25	20.31	20.41	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.28	20.43	20.31	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.24	20.32	20.27	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.37	20.28	20.32	



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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		20.68		20.8
100	PI/2 BPSK	1	137		20.33		
100	PI/2 BPSK	1	271		20.67		
100	PI/2 BPSK	135	0		20.52		20.8
100	PI/2 BPSK	135	69		20.58		20.8
100	PI/2 BPSK	135	138		20.50		20.8
100	PI/2 BPSK	270	0		20.45		
100	QPSK	1	1		20.60		20.8
100	QPSK	1	137		20.27		
100	QPSK	1	271		20.58		
100	QPSK	135	0		20.47		20.8
100	QPSK	135	69		20.55		20.8
100	QPSK	135	138		20.43		20.8
100	QPSK	270	0		20.41		
100	16QAM	1	1		20.40		20.8
100	64QAM	1	1		20.27		20.8
100	256QAM	1	1		19.07		19.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.65	20.54	20.51	20.8
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.51	20.61	20.65	20.8
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.64	20.56	20.54	20.8
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.60	20.62	20.55	20.8
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.61	20.60	20.60	20.8
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.59	20.65	20.53	20.8
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.57	20.50	20.67	20.8
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.56	20.66	20.62	20.8
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.59	20.52	20.62	20.8
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.48	20.57	20.64	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	20.50	20.61	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		19.74		20.2
100	PI/2 BPSK	1	137		19.40		
100	PI/2 BPSK	1	271		19.70		
100	PI/2 BPSK	135	0		19.40		20.2
100	PI/2 BPSK	135	69		19.43		20.2
100	PI/2 BPSK	135	138		19.42		20.2
100	PI/2 BPSK	270	0		19.50		
100	QPSK	1	1		19.65		20.2
100	QPSK	1	137		19.30		
100	QPSK	1	271		19.65		
100	QPSK	135	0		19.38		20.2
100	QPSK	135	69		19.43		20.2
100	QPSK	135	138		19.40		20.2
100	QPSK	270	0		19.49		
100	16QAM	1	1		19.60		20.2
100	64QAM	1	1		19.54		20.2
100	256QAM	1	1		19.63		20.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.63	19.61	19.64	20.2
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.70	19.59	19.69	20.2
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.54	19.56	19.56	20.2
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.55	19.66	19.56	20.2
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.58	19.58	19.68	20.2
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.61	19.72	19.55	20.2
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.60	19.62	19.60	20.2
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.59	19.54	19.70	20.2
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.67	19.69	19.69	20.2
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.64	19.58	19.62	20.2
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.72	19.55	19.67	20.2



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.52		20.1
100	PI/2 BPSK	1	137		19.09		
100	PI/2 BPSK	1	271		19.45		
100	PI/2 BPSK	135	0		19.10		20.1
100	PI/2 BPSK	135	69		19.22		20.1
100	PI/2 BPSK	135	138		19.19		20.1
100	PI/2 BPSK	270	0		19.17		
100	QPSK	1	1		19.44		20.1
100	QPSK	1	137		19.07		
100	QPSK	1	271		19.45		
100	QPSK	135	0		19.01		20.1
100	QPSK	135	69		19.15		20.1
100	QPSK	135	138		19.17		20.1
100	QPSK	270	0		19.10		
100	16QAM	1	1		19.48		20.1
100	64QAM	1	1		19.39		20.1
100	256QAM	1	1		19.41		20.1
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.46	19.39	19.37	20.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.48	19.42	19.33	20.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.48	19.34	19.50	20.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.44	19.35	19.41	20.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.38	19.35	19.47	20.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.41	19.49	19.41	20.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.41	19.50	19.48	20.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.42	19.37	19.47	20.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.40	19.37	19.48	20.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.43	19.34	19.42	20.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.50	19.32	19.40	20.1



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.40		21.8
100	PI/2 BPSK	1	137		20.96		
100	PI/2 BPSK	1	271		21.31		
100	PI/2 BPSK	135	0		21.00		21.8
100	PI/2 BPSK	135	69		21.10		21.8
100	PI/2 BPSK	135	138		21.05		21.8
100	PI/2 BPSK	270	0		21.05		
100	QPSK	1	1		21.33		21.8
100	QPSK	1	137		20.95		
100	QPSK	1	271		21.27		
100	QPSK	135	0		20.90		21.8
100	QPSK	135	69		21.03		21.8
100	QPSK	135	138		20.96		21.8
100	QPSK	270	0		20.96		
100	16QAM	1	1		21.38		21.8
100	64QAM	1	1		21.24		21.8
100	256QAM	1	1		19.77		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.38	21.36	21.30	21.8
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.34	21.20	21.21	21.8
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.27	21.21	21.29	21.8
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.36	21.33	21.20	21.8
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.30	21.30	21.38	21.8
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.22	21.37	21.27	21.8
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.21	21.27	21.20	21.8
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.37	21.30	21.38	21.8
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.28	21.29	21.34	21.8
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.30	21.31	21.29	21.8
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.38	21.33	21.33	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		19.74		20.9
100	PI/2 BPSK	1	137		19.40		
100	PI/2 BPSK	1	271		19.70		
100	PI/2 BPSK	135	0		19.40		20.9
100	PI/2 BPSK	135	69		19.43		20.9
100	PI/2 BPSK	135	138		19.42		20.9
100	PI/2 BPSK	270	0		19.50		
100	QPSK	1	1		19.65		20.9
100	QPSK	1	137		19.30		
100	QPSK	1	271		19.65		
100	QPSK	135	0		19.38		20.9
100	QPSK	135	69		19.43		20.9
100	QPSK	135	138		19.40		20.9
100	QPSK	270	0		19.49		
100	16QAM	1	1		19.60		20.9
100	64QAM	1	1		19.54		20.9
100	256QAM	1	1		19.63		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.63	19.61	19.64	20.9
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.70	19.59	19.69	20.9
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.54	19.56	19.56	20.9
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.55	19.66	19.56	20.9
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.58	19.58	19.68	20.9
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.61	19.72	19.55	20.9
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.60	19.62	19.60	20.9
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.59	19.54	19.70	20.9
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.67	19.69	19.69	20.9
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.64	19.58	19.62	20.9
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.72	19.55	19.67	20.9



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.68		22.1
100	PI/2 BPSK	1	137		20.33		
100	PI/2 BPSK	1	271		20.67		
100	PI/2 BPSK	135	0		20.52		22.1
100	PI/2 BPSK	135	69		20.58		22.1
100	PI/2 BPSK	135	138		20.50		22.1
100	PI/2 BPSK	270	0		20.45		
100	QPSK	1	1		20.60		22.1
100	QPSK	1	137		20.27		
100	QPSK	1	271		20.58		
100	QPSK	135	0		20.47		22.1
100	QPSK	135	69		20.55		22.1
100	QPSK	135	138		20.43		22.1
100	QPSK	270	0		20.41		
100	16QAM	1	1		20.40		22.1
100	64QAM	1	1		20.27		21.5
100	256QAM	1	1		19.07		19.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.65	20.54	20.51	22.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.51	20.61	20.65	22.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.64	20.56	20.54	22.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.60	20.62	20.55	22.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.61	20.60	20.60	22.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.59	20.65	20.53	22.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.57	20.50	20.67	22.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.56	20.66	20.62	22.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.59	20.52	20.62	22.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.48	20.57	20.64	22.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.50	20.50	20.61	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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.52		
100	PI/2 BPSK	1	137		19.09		20.8
100	PI/2 BPSK	1	271		19.45		
100	PI/2 BPSK	135	0		19.10		
100	PI/2 BPSK	135	69		19.22		20.8
100	PI/2 BPSK	135	138		19.19		20.8
100	PI/2 BPSK	270	0		19.17		
100	QPSK	1	1		19.44		
100	QPSK	1	137		19.07		20.8
100	QPSK	1	271		19.45		
100	QPSK	135	0		19.01		
100	QPSK	135	69		19.15		20.8
100	QPSK	135	138		19.17		20.8
100	QPSK	270	0		19.10		
100	16QAM	1	1		19.48		
100	64QAM	1	1		19.39		20.8
100	256QAM	1	1		19.41		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.46	19.39	19.37	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.48	19.42	19.33	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.48	19.34	19.50	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.44	19.35	19.41	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.38	19.35	19.47	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.41	19.49	19.41	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.41	19.50	19.48	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.42	19.37	19.47	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.40	19.37	19.48	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.43	19.34	19.42	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.50	19.32	19.40	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.40		22.5
100	PI/2 BPSK	1	137		20.96		
100	PI/2 BPSK	1	271		21.31		
100	PI/2 BPSK	135	0		21.00		22.5
100	PI/2 BPSK	135	69		21.10		22.5
100	PI/2 BPSK	135	138		21.05		22.5
100	PI/2 BPSK	270	0		21.05		
100	QPSK	1	1		21.33		22.5
100	QPSK	1	137		20.95		
100	QPSK	1	271		21.27		
100	QPSK	135	0		20.90		22.5
100	QPSK	135	69		21.03		22.5
100	QPSK	135	138		20.96		22.5
100	QPSK	270	0		20.96		
100	16QAM	1	1		21.38		22.5
100	64QAM	1	1		21.24		22.5
100	256QAM	1	1		19.77		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.38	21.36	21.30	22.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.34	21.20	21.21	22.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.27	21.21	21.29	22.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.36	21.33	21.20	22.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.30	21.30	21.38	22.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.22	21.37	21.27	22.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.21	21.27	21.20	22.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.37	21.30	21.38	22.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.28	21.29	21.34	22.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.30	21.31	21.29	22.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.38	21.33	21.33	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		19.74		20.2
100	PI/2 BPSK	1	137		19.40		
100	PI/2 BPSK	1	271		19.70		
100	PI/2 BPSK	135	0		19.40		20.2
100	PI/2 BPSK	135	69		19.43		20.2
100	PI/2 BPSK	135	138		19.42		20.2
100	PI/2 BPSK	270	0		19.50		
100	QPSK	1	1		19.65		20.2
100	QPSK	1	137		19.30		
100	QPSK	1	271		19.65		
100	QPSK	135	0		19.38		20.2
100	QPSK	135	69		19.43		20.2
100	QPSK	135	138		19.40		20.2
100	QPSK	270	0		19.49		
100	16QAM	1	1		19.60		20.2
100	64QAM	1	1		19.54		20.2
100	256QAM	1	1		19.63		20.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.63	19.61	19.64	20.2
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.70	19.59	19.69	20.2
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.54	19.56	19.56	20.2
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.55	19.66	19.56	20.2
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.58	19.58	19.68	20.2
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.61	19.72	19.55	20.2
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.60	19.62	19.60	20.2
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.59	19.54	19.70	20.2
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.67	19.69	19.69	20.2
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.64	19.58	19.62	20.2
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.72	19.55	19.67	20.2



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.68		21.4
100	PI/2 BPSK	1	137		20.33		
100	PI/2 BPSK	1	271		20.67		
100	PI/2 BPSK	135	0		20.52		21.4
100	PI/2 BPSK	135	69		20.58		21.4
100	PI/2 BPSK	135	138		20.50		21.4
100	PI/2 BPSK	270	0		20.45		
100	QPSK	1	1		20.60		21.4
100	QPSK	1	137		20.27		
100	QPSK	1	271		20.58		
100	QPSK	135	0		20.47		21.4
100	QPSK	135	69		20.55		21.4
100	QPSK	135	138		20.43		21.4
100	QPSK	270	0		20.41		
100	16QAM	1	1		20.40		21.4
100	64QAM	1	1		20.27		21.4
100	256QAM	1	1		19.07		19.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.65	20.54	20.51	21.4
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.51	20.61	20.65	21.4
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.64	20.56	20.54	21.4
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.60	20.62	20.55	21.4
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.61	20.60	20.60	21.4
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.59	20.65	20.53	21.4
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.57	20.50	20.67	21.4
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.56	20.66	20.62	21.4
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.59	20.52	20.62	21.4
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.48	20.57	20.64	21.4
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.50	20.50	20.61	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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.52		20.1
100	PI/2 BPSK	1	137		19.09		
100	PI/2 BPSK	1	271		19.45		
100	PI/2 BPSK	135	0		19.10		20.1
100	PI/2 BPSK	135	69		19.22		20.1
100	PI/2 BPSK	135	138		19.19		20.1
100	PI/2 BPSK	270	0		19.17		
100	QPSK	1	1		19.44		20.1
100	QPSK	1	137		19.07		
100	QPSK	1	271		19.45		
100	QPSK	135	0		19.01		20.1
100	QPSK	135	69		19.15		20.1
100	QPSK	135	138		19.17		20.1
100	QPSK	270	0		19.10		
100	16QAM	1	1		19.48		20.1
100	64QAM	1	1		19.39		20.1
100	256QAM	1	1		19.41		20.1
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.46	19.39	19.37	20.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.48	19.42	19.33	20.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.48	19.34	19.50	20.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.44	19.35	19.41	20.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.38	19.35	19.47	20.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.41	19.49	19.41	20.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.41	19.50	19.48	20.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.42	19.37	19.47	20.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.40	19.37	19.48	20.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.43	19.34	19.42	20.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.50	19.32	19.40	20.1



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.40		21.8
100	PI/2 BPSK	1	137		20.96		
100	PI/2 BPSK	1	271		21.31		
100	PI/2 BPSK	135	0		21.00		21.8
100	PI/2 BPSK	135	69		21.10		21.8
100	PI/2 BPSK	135	138		21.05		21.8
100	PI/2 BPSK	270	0		21.05		
100	QPSK	1	1		21.33		21.8
100	QPSK	1	137		20.95		
100	QPSK	1	271		21.27		
100	QPSK	135	0		20.90		21.8
100	QPSK	135	69		21.03		21.8
100	QPSK	135	138		20.96		21.8
100	QPSK	270	0		20.96		
100	16QAM	1	1		21.38		21.8
100	64QAM	1	1		21.24		21.8
100	256QAM	1	1		19.77		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.38	21.36	21.30	21.8
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.34	21.20	21.21	21.8
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.27	21.21	21.29	21.8
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.36	21.33	21.20	21.8
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.30	21.30	21.38	21.8
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.22	21.37	21.27	21.8
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.21	21.27	21.20	21.8
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.37	21.30	21.38	21.8
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.28	21.29	21.34	21.8
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.30	21.31	21.29	21.8
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.38	21.33	21.33	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		26.75		
100	PI/2 BPSK	1	137		26.39		27.0
100	PI/2 BPSK	1	271		26.74		
100	PI/2 BPSK	135	0		26.38		
100	PI/2 BPSK	135	69		26.43		27.0
100	PI/2 BPSK	135	138		26.36		27.0
100	PI/2 BPSK	270	0		26.39		
100	QPSK	1	1		26.66		
100	QPSK	1	137		26.30		27.0
100	QPSK	1	271		26.67		
100	QPSK	135	0		26.38		
100	QPSK	135	69		26.42		27.0
100	QPSK	135	138		26.40		27.0
100	QPSK	270	0		26.37		
100	16QAM	1	1		25.64		
100	64QAM	1	1		24.05		24.5
100	256QAM	1	1		22.09		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	26.68	26.71	26.71	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	26.56	26.68	26.74	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	26.66	26.69	26.67	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	26.56	26.56	26.55	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	26.61	26.70	26.66	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	26.65	26.61	26.71	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	26.67	26.71	26.55	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	26.56	26.65	26.59	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	26.63	26.60	26.55	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	26.74	26.57	26.57	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	26.63	26.66	26.55	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		19.7
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		18.89		
100	PI/2 BPSK	1	137		18.54		19.7
100	PI/2 BPSK	1	271		18.85		
100	PI/2 BPSK	135	0		18.55		
100	PI/2 BPSK	135	69		18.60		19.7
100	PI/2 BPSK	135	138		18.63		19.7
100	PI/2 BPSK	270	0		18.70		
100	QPSK	1	1		18.81		
100	QPSK	1	137		18.46		19.7
100	QPSK	1	271		18.81		
100	QPSK	135	0		18.52		
100	QPSK	135	69		18.58		19.7
100	QPSK	135	138		18.61		19.7
100	QPSK	270	0		18.65		
100	16QAM	1	1		18.82		
100	64QAM	1	1		18.73		19.7
100	256QAM	1	1		18.76		19.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	18.78	18.80	18.80	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.84	18.75	18.76	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	18.81	18.82	18.76	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.72	18.72	18.66	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	18.67	18.78	18.68	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	18.81	18.74	18.76	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	18.68	18.72	18.72	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	18.82	18.72	18.84	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	18.69	18.64	18.70	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	18.70	18.79	18.64	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	18.65	18.72	18.68	



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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		26.54		27.0
100	PI/2 BPSK	1	137		26.07		
100	PI/2 BPSK	1	271		26.45		
100	PI/2 BPSK	135	0		26.05		27.0
100	PI/2 BPSK	135	69		26.12		27.0
100	PI/2 BPSK	135	138		26.10		27.0
100	PI/2 BPSK	270	0		26.09		
100	QPSK	1	1		26.49		27.0
100	QPSK	1	137		26.02		
100	QPSK	1	271		26.40		
100	QPSK	135	0		26.10		27.0
100	QPSK	135	69		26.12		27.0
100	QPSK	135	138		26.09		27.0
100	QPSK	270	0		26.08		
100	16QAM	1	1		25.44		26.0
100	64QAM	1	1		23.86		24.5
100	256QAM	1	1		21.89		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	26.46	26.49	26.40	27.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	26.34	26.36	26.48	27.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	26.42	26.43	26.50	27.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	26.34	26.52	26.34	27.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	26.42	26.50	26.46	27.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	26.49	26.36	26.47	27.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	26.36	26.37	26.52	27.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	26.41	26.34	26.35	27.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	26.46	26.37	26.51	27.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	26.36	26.41	26.47	27.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	26.50	26.37	26.53	27.0



<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		26.45		
100	PI/2 BPSK	1	137		26.02		27.0
100	PI/2 BPSK	1	271		26.37		
100	PI/2 BPSK	135	0		25.97		
100	PI/2 BPSK	135	69		26.04		27.0
100	PI/2 BPSK	135	138		26.01		27.0
100	PI/2 BPSK	270	0		26.03		
100	QPSK	1	1		26.37		
100	QPSK	1	137		25.91		27.0
100	QPSK	1	271		26.29		
100	QPSK	135	0		26.07		
100	QPSK	135	69		26.07		27.0
100	QPSK	135	138		26.03		27.0
100	QPSK	270	0		26.03		
100	16QAM	1	1		25.37		
100	64QAM	1	1		23.78		24.5
100	256QAM	1	1		21.82		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	26.40	26.36	26.42	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	26.41	26.25	26.32	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	26.36	26.25	26.29	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	26.26	26.28	26.25	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	26.32	26.33	26.29	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	26.40	26.44	26.41	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	26.42	26.38	26.41	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	26.36	26.38	26.25	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	26.33	26.44	26.36	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	26.38	26.40	26.37	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	26.37	26.35	26.43	



<FR1 n77_HPUE_Ant 6_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		26.75		
100	PI/2 BPSK	1	137		26.39		27.0
100	PI/2 BPSK	1	271		26.74		
100	PI/2 BPSK	135	0		26.38		
100	PI/2 BPSK	135	69		26.43		27.0
100	PI/2 BPSK	135	138		26.36		27.0
100	PI/2 BPSK	270	0		26.39		
100	QPSK	1	1		26.66		
100	QPSK	1	137		26.30		27.0
100	QPSK	1	271		26.67		
100	QPSK	135	0		26.38		
100	QPSK	135	69		26.42		27.0
100	QPSK	135	138		26.40		27.0
100	QPSK	270	0		26.37		
100	16QAM	1	1		25.64		
100	64QAM	1	1		24.05		24.5
100	256QAM	1	1		22.09		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	26.68	26.71	26.71	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	26.56	26.68	26.74	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	26.66	26.69	26.67	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	26.56	26.56	26.55	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	26.61	26.70	26.66	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	26.65	26.61	26.71	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	26.67	26.71	26.55	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	26.56	26.65	26.59	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	26.63	26.60	26.55	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	26.74	26.57	26.57	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	26.63	26.66	26.55	



<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		18.89		19.0
100	PI/2 BPSK	1	137		18.54		
100	PI/2 BPSK	1	271		18.85		
100	PI/2 BPSK	135	0		18.55		19.0
100	PI/2 BPSK	135	69		18.60		19.0
100	PI/2 BPSK	135	138		18.63		19.0
100	PI/2 BPSK	270	0		18.70		
100	QPSK	1	1		18.81		19.0
100	QPSK	1	137		18.46		
100	QPSK	1	271		18.81		
100	QPSK	135	0		18.52		19.0
100	QPSK	135	69		18.58		19.0
100	QPSK	135	138		18.61		19.0
100	QPSK	270	0		18.65		
100	16QAM	1	1		18.82		19.0
100	64QAM	1	1		18.73		19.0
100	256QAM	1	1		18.76		19.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	18.78	18.80	18.80	19.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.84	18.75	18.76	19.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	18.81	18.82	18.76	19.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.72	18.72	18.66	19.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	18.67	18.78	18.68	19.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	18.81	18.74	18.76	19.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	18.68	18.72	18.72	19.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	18.82	18.72	18.84	19.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	18.69	18.64	18.70	19.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	18.70	18.79	18.64	19.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	18.65	18.72	18.68	19.0



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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		26.54		27.0
100	PI/2 BPSK	1	137		26.07		
100	PI/2 BPSK	1	271		26.45		
100	PI/2 BPSK	135	0		26.05		27.0
100	PI/2 BPSK	135	69		26.12		27.0
100	PI/2 BPSK	135	138		26.10		27.0
100	PI/2 BPSK	270	0		26.09		
100	QPSK	1	1		26.49		27.0
100	QPSK	1	137		26.02		
100	QPSK	1	271		26.40		
100	QPSK	135	0		26.10		27.0
100	QPSK	135	69		26.12		27.0
100	QPSK	135	138		26.09		27.0
100	QPSK	270	0		26.08		
100	16QAM	1	1		25.44		26.0
100	64QAM	1	1		23.86		24.5
100	256QAM	1	1		21.89		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	26.46	26.49	26.40	27.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	26.34	26.36	26.48	27.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	26.42	26.43	26.50	27.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	26.34	26.52	26.34	27.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	26.42	26.50	26.46	27.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	26.49	26.36	26.47	27.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	26.36	26.37	26.52	27.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	26.41	26.34	26.35	27.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	26.46	26.37	26.51	27.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	26.36	26.41	26.47	27.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	26.50	26.37	26.53	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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		26.45		
100	PI/2 BPSK	1	137		26.02		27.0
100	PI/2 BPSK	1	271		26.37		
100	PI/2 BPSK	135	0		25.97		
100	PI/2 BPSK	135	69		26.04		27.0
100	PI/2 BPSK	135	138		26.01		27.0
100	PI/2 BPSK	270	0		26.03		
100	QPSK	1	1		26.37		
100	QPSK	1	137		25.91		27.0
100	QPSK	1	271		26.29		
100	QPSK	135	0		26.07		
100	QPSK	135	69		26.07		27.0
100	QPSK	135	138		26.03		27.0
100	QPSK	270	0		26.03		
100	16QAM	1	1		25.37		
100	64QAM	1	1		23.78		24.5
100	256QAM	1	1		21.82		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	26.40	26.36	26.42	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	26.41	26.25	26.32	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	26.36	26.25	26.29	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	26.26	26.28	26.25	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	26.32	26.33	26.29	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	26.40	26.44	26.41	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	26.42	26.38	26.41	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	26.36	26.38	26.25	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	26.33	26.44	26.36	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	26.38	26.40	26.37	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	26.37	26.35	26.43	



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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		24.59		
100	PI/2 BPSK	1	137		24.25		24.6
100	PI/2 BPSK	1	271		24.56		
100	PI/2 BPSK	135	0		24.24		
100	PI/2 BPSK	135	69		24.28		24.6
100	PI/2 BPSK	135	138		24.32		24.6
100	PI/2 BPSK	270	0		24.37		
100	QPSK	1	1		24.51		
100	QPSK	1	137		24.13		24.6
100	QPSK	1	271		24.49		
100	QPSK	135	0		24.25		
100	QPSK	135	69		24.27		24.6
100	QPSK	135	138		24.30		24.6
100	QPSK	270	0		24.35		
100	16QAM	1	1		24.51		
100	64QAM	1	1		23.90		24.5
100	256QAM	1	1		22.17		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.49	24.52	24.47	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.42	24.46	24.43	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.43	24.52	24.37	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.57	24.33	24.38	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.56	24.42	24.48	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.53	24.52	24.37	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.51	24.56	24.48	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.48	24.52	24.48	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.38	24.55	24.53	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.48	24.47	24.48	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.42	24.49	24.42	



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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		24.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.77		
100	PI/2 BPSK	1	137		23.41		24.5
100	PI/2 BPSK	1	271		23.76		
100	PI/2 BPSK	135	0		23.43		
100	PI/2 BPSK	135	69		23.47		24.5
100	PI/2 BPSK	135	138		23.51		24.5
100	PI/2 BPSK	270	0		23.50		
100	QPSK	1	1		23.69		
100	QPSK	1	137		23.32		24.5
100	QPSK	1	271		23.67		
100	QPSK	135	0		23.43		
100	QPSK	135	69		23.46		24.5
100	QPSK	135	138		23.50		24.5
100	QPSK	270	0		23.49		
100	16QAM	1	1		23.69		
100	64QAM	1	1		23.09		23.5
100	256QAM	1	1		21.14		21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.70	23.73	23.66	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.66	23.75	23.67	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.69	23.73	23.66	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.67	23.70	23.65	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.67	23.71	23.65	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.67	23.73	23.61	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.66	23.70	23.65	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.67	23.72	23.65	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.68	23.75	23.66	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.70	23.74	23.66	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.65	23.70	23.63	



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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		22.60		23.2
100	PI/2 BPSK	1	137		22.13		
100	PI/2 BPSK	1	271		22.51		
100	PI/2 BPSK	135	0		22.30		23.2
100	PI/2 BPSK	135	69		22.19		23.2
100	PI/2 BPSK	135	138		22.26		23.2
100	PI/2 BPSK	270	0		22.25		
100	QPSK	1	1		22.53		23.2
100	QPSK	1	137		22.09		
100	QPSK	1	271		22.42		
100	QPSK	135	0		22.29		23.2
100	QPSK	135	69		22.18		23.2
100	QPSK	135	138		22.25		23.2
100	QPSK	270	0		22.23		
100	16QAM	1	1		22.52		23.2
100	64QAM	1	1		22.42		23.2
100	256QAM	1	1		21.99		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.34	22.40	22.33	23.2
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.14	22.23	22.22	23.2
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.22	22.27	22.15	23.2
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.23	22.26	22.22	23.2
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.18	22.22	22.17	23.2
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.24	22.26	22.13	23.2
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.24	22.26	22.19	23.2
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.18	22.29	22.17	23.2
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.19	22.28	22.19	23.2
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.22	22.25	22.13	23.2
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.24	22.29	22.16	23.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		26.45		
100	PI/2 BPSK	1	137		26.02		27.0
100	PI/2 BPSK	1	271		26.37		
100	PI/2 BPSK	135	0		25.97		
100	PI/2 BPSK	135	69		26.04		27.0
100	PI/2 BPSK	135	138		26.01		27.0
100	PI/2 BPSK	270	0		26.03		
100	QPSK	1	1		26.37		
100	QPSK	1	137		25.91		27.0
100	QPSK	1	271		26.29		
100	QPSK	135	0		26.07		
100	QPSK	135	69		26.07		27.0
100	QPSK	135	138		26.03		27.0
100	QPSK	270	0		26.03		
100	16QAM	1	1		25.37		
100	64QAM	1	1		23.78		24.5
100	256QAM	1	1		21.82		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	26.40	26.36	26.42	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	26.41	26.25	26.32	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	26.36	26.25	26.29	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	26.26	26.28	26.25	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	26.32	26.33	26.29	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	26.40	26.44	26.41	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	26.42	26.38	26.41	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	26.36	26.38	26.25	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	26.33	26.44	26.36	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	26.38	26.40	26.37	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	26.37	26.35	26.43	



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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		24.59		
100	PI/2 BPSK	1	137		24.25		25.3
100	PI/2 BPSK	1	271		24.56		
100	PI/2 BPSK	135	0		24.24		
100	PI/2 BPSK	135	69		24.28		25.3
100	PI/2 BPSK	135	138		24.32		25.3
100	PI/2 BPSK	270	0		24.37		
100	QPSK	1	1		24.51		
100	QPSK	1	137		24.13		25.3
100	QPSK	1	271		24.49		
100	QPSK	135	0		24.25		
100	QPSK	135	69		24.27		25.3
100	QPSK	135	138		24.30		25.3
100	QPSK	270	0		24.35		
100	16QAM	1	1		24.51		
100	64QAM	1	1		23.90		24.5
100	256QAM	1	1		22.17		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.49	24.52	24.47	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.42	24.46	24.43	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.43	24.52	24.37	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.57	24.33	24.38	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.56	24.42	24.48	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.53	24.52	24.37	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.51	24.56	24.48	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.48	24.52	24.48	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.38	24.55	24.53	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.48	24.47	24.48	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.42	24.49	24.42	



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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		25.2
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.77		
100	PI/2 BPSK	1	137		23.41		25.2
100	PI/2 BPSK	1	271		23.76		
100	PI/2 BPSK	135	0		23.43		
100	PI/2 BPSK	135	69		23.47		25.2
100	PI/2 BPSK	135	138		23.51		25.2
100	PI/2 BPSK	270	0		23.50		
100	QPSK	1	1		23.69		
100	QPSK	1	137		23.32		25.2
100	QPSK	1	271		23.67		
100	QPSK	135	0		23.43		
100	QPSK	135	69		23.46		25.0
100	QPSK	135	138		23.50		25.0
100	QPSK	270	0		23.49		
100	16QAM	1	1		23.69		
100	64QAM	1	1		23.09		23.5
100	256QAM	1	1		21.14		21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.70	23.73	23.66	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.66	23.75	23.67	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.69	23.73	23.66	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.67	23.70	23.65	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.67	23.71	23.65	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.67	23.73	23.61	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.66	23.70	23.65	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.67	23.72	23.65	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.68	23.75	23.66	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.70	23.74	23.66	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.65	23.70	23.63	



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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		22.60		23.9
100	PI/2 BPSK	1	137		22.13		
100	PI/2 BPSK	1	271		22.51		
100	PI/2 BPSK	135	0		22.30		23.9
100	PI/2 BPSK	135	69		22.19		23.9
100	PI/2 BPSK	135	138		22.26		23.9
100	PI/2 BPSK	270	0		22.25		
100	QPSK	1	1		22.53		23.9
100	QPSK	1	137		22.09		
100	QPSK	1	271		22.42		
100	QPSK	135	0		22.29		23.9
100	QPSK	135	69		22.18		23.9
100	QPSK	135	138		22.25		23.9
100	QPSK	270	0		22.23		
100	16QAM	1	1		22.52		23.9
100	64QAM	1	1		22.42		23.9
100	256QAM	1	1		21.99		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.34	22.40	22.33	23.9
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.14	22.23	22.22	23.9
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.22	22.27	22.15	23.9
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.23	22.26	22.22	23.9
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.18	22.22	22.17	23.9
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.24	22.26	22.13	23.9
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.24	22.26	22.19	23.9
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.18	22.29	22.17	23.9
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.19	22.28	22.19	23.9
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.22	22.25	22.13	23.9
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.24	22.29	22.16	23.9



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		26.45		
100	PI/2 BPSK	1	137		26.02		27.0
100	PI/2 BPSK	1	271		26.37		
100	PI/2 BPSK	135	0		25.97		
100	PI/2 BPSK	135	69		26.04		27.0
100	PI/2 BPSK	135	138		26.01		27.0
100	PI/2 BPSK	270	0		26.03		
100	QPSK	1	1		26.37		
100	QPSK	1	137		25.91		27.0
100	QPSK	1	271		26.29		
100	QPSK	135	0		26.07		
100	QPSK	135	69		26.07		27.0
100	QPSK	135	138		26.03		27.0
100	QPSK	270	0		26.03		
100	16QAM	1	1		25.37		
100	64QAM	1	1		23.78		24.5
100	256QAM	1	1		21.82		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	26.40	26.36	26.42	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	26.41	26.25	26.32	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	26.36	26.25	26.29	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	26.26	26.28	26.25	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	26.32	26.33	26.29	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	26.40	26.44	26.41	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	26.42	26.38	26.41	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	26.36	26.38	26.25	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	26.33	26.44	26.36	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	26.38	26.40	26.37	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	26.37	26.35	26.43	



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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		24.59		24.6
100	PI/2 BPSK	1	137		24.25		
100	PI/2 BPSK	1	271		24.56		
100	PI/2 BPSK	135	0		24.24		24.6
100	PI/2 BPSK	135	69		24.28		24.6
100	PI/2 BPSK	135	138		24.32		24.6
100	PI/2 BPSK	270	0		24.37		
100	QPSK	1	1		24.51		24.6
100	QPSK	1	137		24.13		
100	QPSK	1	271		24.49		
100	QPSK	135	0		24.25		24.6
100	QPSK	135	69		24.27		24.6
100	QPSK	135	138		24.30		24.6
100	QPSK	270	0		24.35		
100	16QAM	1	1		24.51		24.6
100	64QAM	1	1		23.90		24.5
100	256QAM	1	1		22.17		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.49	24.52	24.47	24.6
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.42	24.46	24.43	24.6
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.43	24.52	24.37	24.6
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.57	24.33	24.38	24.6
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.56	24.42	24.48	24.6
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.53	24.52	24.37	24.6
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.51	24.56	24.48	24.6
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.48	24.52	24.48	24.6
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.38	24.55	24.53	24.6
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.48	24.47	24.48	24.6
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.42	24.49	24.42	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		24.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.77		
100	PI/2 BPSK	1	137		23.41		24.5
100	PI/2 BPSK	1	271		23.76		
100	PI/2 BPSK	135	0		23.43		
100	PI/2 BPSK	135	69		23.47		24.5
100	PI/2 BPSK	135	138		23.51		24.5
100	PI/2 BPSK	270	0		23.50		
100	QPSK	1	1		23.69		
100	QPSK	1	137		23.32		24.5
100	QPSK	1	271		23.67		
100	QPSK	135	0		23.43		
100	QPSK	135	69		23.46		24.5
100	QPSK	135	138		23.50		24.5
100	QPSK	270	0		23.49		
100	16QAM	1	1		23.69		
100	64QAM	1	1		23.09		23.5
100	256QAM	1	1		21.14		21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.70	23.73	23.66	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.66	23.75	23.67	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.69	23.73	23.66	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.67	23.70	23.65	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.67	23.71	23.65	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.67	23.73	23.61	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.66	23.70	23.65	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.67	23.72	23.65	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.68	23.75	23.66	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.70	23.74	23.66	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.65	23.70	23.63	



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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		22.60		23.2
100	PI/2 BPSK	1	137		22.13		
100	PI/2 BPSK	1	271		22.51		
100	PI/2 BPSK	135	0		22.30		23.2
100	PI/2 BPSK	135	69		22.19		23.2
100	PI/2 BPSK	135	138		22.26		23.2
100	PI/2 BPSK	270	0		22.25		
100	QPSK	1	1		22.53		23.2
100	QPSK	1	137		22.09		
100	QPSK	1	271		22.42		
100	QPSK	135	0		22.29		23.2
100	QPSK	135	69		22.18		23.2
100	QPSK	135	138		22.25		23.2
100	QPSK	270	0		22.23		
100	16QAM	1	1		22.52		23.2
100	64QAM	1	1		22.42		23.2
100	256QAM	1	1		21.99		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.34	22.40	22.33	23.2
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.14	22.23	22.22	23.2
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.22	22.27	22.15	23.2
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.23	22.26	22.22	23.2
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.18	22.22	22.17	23.2
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.24	22.26	22.13	23.2
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.24	22.26	22.19	23.2
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.18	22.29	22.17	23.2
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.19	22.28	22.19	23.2
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.22	22.25	22.13	23.2
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.24	22.29	22.16	23.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		26.45		
100	PI/2 BPSK	1	137		26.02		27.0
100	PI/2 BPSK	1	271		26.37		
100	PI/2 BPSK	135	0		25.97		
100	PI/2 BPSK	135	69		26.04		27.0
100	PI/2 BPSK	135	138		26.01		27.0
100	PI/2 BPSK	270	0		26.03		
100	QPSK	1	1		26.37		
100	QPSK	1	137		25.91		27.0
100	QPSK	1	271		26.29		
100	QPSK	135	0		26.07		
100	QPSK	135	69		26.07		27.0
100	QPSK	135	138		26.03		27.0
100	QPSK	270	0		26.03		
100	16QAM	1	1		25.37		
100	64QAM	1	1		23.78		24.5
100	256QAM	1	1		21.82		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	26.40	26.36	26.42	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	26.41	26.25	26.32	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	26.36	26.25	26.29	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	26.26	26.28	26.25	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	26.32	26.33	26.29	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	26.40	26.44	26.41	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	26.42	26.38	26.41	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	26.36	26.38	26.25	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	26.33	26.44	26.36	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	26.38	26.40	26.37	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	26.37	26.35	26.43	



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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		26.75		
100	PI/2 BPSK	1	137		26.39		27.0
100	PI/2 BPSK	1	271		26.74		
100	PI/2 BPSK	135	0		26.38		
100	PI/2 BPSK	135	69		26.43		27.0
100	PI/2 BPSK	135	138		26.36		27.0
100	PI/2 BPSK	270	0		26.39		
100	QPSK	1	1		26.66		
100	QPSK	1	137		26.30		27.0
100	QPSK	1	271		26.67		
100	QPSK	135	0		26.38		
100	QPSK	135	69		26.42		27.0
100	QPSK	135	138		26.40		27.0
100	QPSK	270	0		26.37		
100	16QAM	1	1		25.64		
100	64QAM	1	1		24.05		24.5
100	256QAM	1	1		22.09		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	26.68	26.71	26.71	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	26.56	26.68	26.74	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	26.66	26.69	26.67	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	26.56	26.56	26.55	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	26.61	26.70	26.66	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	26.65	26.61	26.71	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	26.67	26.71	26.55	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	26.56	26.65	26.59	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	26.63	26.60	26.55	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	26.74	26.57	26.57	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	26.63	26.66	26.55	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		17.70		17.7
100	PI/2 BPSK	1	137		17.52		
100	PI/2 BPSK	1	271		17.60		
100	PI/2 BPSK	135	0		17.61		17.7
100	PI/2 BPSK	135	69		17.64		17.7
100	PI/2 BPSK	135	138		17.60		17.7
100	PI/2 BPSK	270	0		17.55		
100	QPSK	1	1		17.55		17.7
100	QPSK	1	137		17.59		
100	QPSK	1	271		17.64		
100	QPSK	135	0		17.59		17.7
100	QPSK	135	69		17.65		17.7
100	QPSK	135	138		17.68		17.7
100	QPSK	270	0		17.68		
100	16QAM	1	1		17.56		17.7
100	64QAM	1	1		17.67		17.7
100	256QAM	1	1		17.67		17.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	17.53	17.67	17.55	17.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	17.63	17.64	17.64	17.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	17.61	17.58	17.54	17.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	17.69	17.52	17.59	17.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	17.68	17.57	17.53	17.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	17.57	17.69	17.61	17.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	17.56	17.52	17.50	17.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	17.65	17.65	17.52	17.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	17.54	17.62	17.65	17.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	17.63	17.57	17.54	17.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	17.65	17.66	17.53	17.7



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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		26.54		
100	PI/2 BPSK	1	137		26.07		27.0
100	PI/2 BPSK	1	271		26.45		
100	PI/2 BPSK	135	0		26.05		
100	PI/2 BPSK	135	69		26.12		27.0
100	PI/2 BPSK	135	138		26.10		27.0
100	PI/2 BPSK	270	0		26.09		
100	QPSK	1	1		26.49		
100	QPSK	1	137		26.02		27.0
100	QPSK	1	271		26.40		
100	QPSK	135	0		26.10		
100	QPSK	135	69		26.12		27.0
100	QPSK	135	138		26.09		27.0
100	QPSK	270	0		26.08		
100	16QAM	1	1		25.44		
100	64QAM	1	1		23.86		24.5
100	256QAM	1	1		21.89		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	26.46	26.49	26.40	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	26.34	26.36	26.48	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	26.42	26.43	26.50	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	26.34	26.52	26.34	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	26.42	26.50	26.46	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	26.49	26.36	26.47	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	26.36	26.37	26.52	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	26.41	26.34	26.35	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	26.46	26.37	26.51	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	26.36	26.41	26.47	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	26.50	26.37	26.53	



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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		23.53		
100	PI/2 BPSK	1	137		22.94		24.0
100	PI/2 BPSK	1	271		23.36		
100	PI/2 BPSK	135	0		23.04		
100	PI/2 BPSK	135	69		23.08		24.0
100	PI/2 BPSK	135	138		23.21		24.0
100	PI/2 BPSK	270	0		23.14		
100	QPSK	1	1		23.47		
100	QPSK	1	137		22.96		24.0
100	QPSK	1	271		23.33		
100	QPSK	135	0		23.04		
100	QPSK	135	69		23.22		24.0
100	QPSK	135	138		23.02		24.0
100	QPSK	270	0		23.09		
100	16QAM	1	1		23.40		
100	64QAM	1	1		23.49		24.0
100	256QAM	1	1		21.87		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.33	23.47	23.41	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.49	23.52	23.34	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.51	23.38	23.41	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.47	23.47	23.52	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.40	23.49	23.50	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.52	23.44	23.33	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.45	23.41	23.36	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.45	23.40	23.33	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.33	23.40	23.39	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.43	23.52	23.46	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.47	23.43	23.35	



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.68		23.8
100	PI/2 BPSK	1	137		23.43		
100	PI/2 BPSK	1	271		23.67		
100	PI/2 BPSK	135	0		23.60		23.8
100	PI/2 BPSK	135	69		23.65		23.8
100	PI/2 BPSK	135	138		23.60		23.8
100	PI/2 BPSK	270	0		23.58		
100	QPSK	1	1		23.64		23.8
100	QPSK	1	137		23.39		
100	QPSK	1	271		23.65		
100	QPSK	135	0		23.60		23.8
100	QPSK	135	69		23.63		23.8
100	QPSK	135	138		23.53		23.8
100	QPSK	270	0		23.50		
100	16QAM	1	1		23.52		23.8
100	64QAM	1	1		23.08		23.5
100	256QAM	1	1		21.06		21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.51	23.54	23.67	23.8
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.66	23.67	23.54	23.8
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.48	23.54	23.64	23.8
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.49	23.56	23.64	23.8
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.62	23.66	23.65	23.8
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.56	23.62	23.48	23.8
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.49	23.54	23.50	23.8
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.58	23.49	23.55	23.8
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.48	23.57	23.50	23.8
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.53	23.57	23.50	23.8
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.64	23.51	23.58	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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.75		23.2
100	PI/2 BPSK	1	137		22.41		
100	PI/2 BPSK	1	271		22.65		
100	PI/2 BPSK	135	0		22.40		23.2
100	PI/2 BPSK	135	69		22.44		23.2
100	PI/2 BPSK	135	138		22.34		23.2
100	PI/2 BPSK	270	0		22.42		
100	QPSK	1	1		22.67		23.2
100	QPSK	1	137		22.32		
100	QPSK	1	271		22.60		
100	QPSK	135	0		22.40		23.2
100	QPSK	135	69		22.38		23.2
100	QPSK	135	138		22.24		23.2
100	QPSK	270	0		22.41		
100	16QAM	1	1		22.54		23.2
100	64QAM	1	1		22.50		23.2
100	256QAM	1	1		22.12		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.70	22.56	22.59	23.2
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.55	22.66	22.70	23.2
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.59	22.69	22.72	23.2
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.64	22.64	22.59	23.2
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.64	22.63	22.64	23.2
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.73	22.68	22.74	23.2
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.65	22.70	22.58	23.2
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.68	22.64	22.74	23.2
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.62	22.64	22.57	23.2
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.71	22.66	22.64	23.2
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.57	22.66	22.67	23.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.56		23.1
100	PI/2 BPSK	1	137		22.14		
100	PI/2 BPSK	1	271		22.50		
100	PI/2 BPSK	135	0		22.16		23.1
100	PI/2 BPSK	135	69		22.27		23.1
100	PI/2 BPSK	135	138		22.20		23.1
100	PI/2 BPSK	270	0		22.24		
100	QPSK	1	1		22.54		23.1
100	QPSK	1	137		22.07		
100	QPSK	1	271		22.48		
100	QPSK	135	0		22.06		23.1
100	QPSK	135	69		22.22		23.1
100	QPSK	135	138		22.19		23.1
100	QPSK	270	0		22.16		
100	16QAM	1	1		22.48		23.1
100	64QAM	1	1		22.39		23.1
100	256QAM	1	1		21.95		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.51	22.39	22.38	23.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.38	22.51	22.46	23.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.52	22.36	22.51	23.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.52	22.48	22.44	23.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.46	22.40	22.47	23.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.36	22.36	22.37	23.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.51	22.38	22.52	23.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.52	22.46	22.51	23.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.37	22.47	22.38	23.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.52	22.53	22.38	23.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.54	22.38	22.53	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		24.48		24.8
100	PI/2 BPSK	1	137		24.02		
100	PI/2 BPSK	1	271		24.35		
100	PI/2 BPSK	135	0		24.05		24.8
100	PI/2 BPSK	135	69		24.17		24.8
100	PI/2 BPSK	135	138		24.12		24.8
100	PI/2 BPSK	270	0		24.13		
100	QPSK	1	1		24.44		24.8
100	QPSK	1	137		24.02		
100	QPSK	1	271		24.35		
100	QPSK	135	0		24.04		24.8
100	QPSK	135	69		24.12		24.8
100	QPSK	135	138		24.04		24.8
100	QPSK	270	0		24.05		
100	16QAM	1	1		24.39		24.8
100	64QAM	1	1		23.79		24.5
100	256QAM	1	1		21.86		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.42	24.39	24.30	24.8
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.32	24.36	24.39	24.8
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.46	24.45	24.30	24.8
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.40	24.28	24.46	24.8
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.31	24.35	24.40	24.8
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.37	24.30	24.41	24.8
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.30	24.29	24.42	24.8
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.36	24.38	24.44	24.8
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.32	24.41	24.35	24.8
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.44	24.37	24.45	24.8
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.42	24.40	24.28	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		22.75		
100	PI/2 BPSK	1	137		22.41		23.9
100	PI/2 BPSK	1	271		22.65		
100	PI/2 BPSK	135	0		22.40		
100	PI/2 BPSK	135	69		22.44		23.9
100	PI/2 BPSK	135	138		22.34		23.9
100	PI/2 BPSK	270	0		22.42		
100	QPSK	1	1		22.67		
100	QPSK	1	137		22.32		23.9
100	QPSK	1	271		22.60		
100	QPSK	135	0		22.40		
100	QPSK	135	69		22.38		23.9
100	QPSK	135	138		22.24		23.9
100	QPSK	270	0		22.41		
100	16QAM	1	1		22.54		
100	64QAM	1	1		22.50		23.9
100	256QAM	1	1		22.12		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.70	22.56	22.59	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.55	22.66	22.70	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.59	22.69	22.72	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.64	22.64	22.59	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.64	22.63	22.64	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.73	22.68	22.74	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.65	22.70	22.58	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.68	22.64	22.74	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.62	22.64	22.57	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.71	22.66	22.64	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.57	22.66	22.67	



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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		23.68		25.1
100	PI/2 BPSK	1	137		23.43		
100	PI/2 BPSK	1	271		23.67		
100	PI/2 BPSK	135	0		23.60		25.1
100	PI/2 BPSK	135	69		23.65		25.1
100	PI/2 BPSK	135	138		23.60		25.1
100	PI/2 BPSK	270	0		23.58		
100	QPSK	1	1		23.64		25.1
100	QPSK	1	137		23.39		
100	QPSK	1	271		23.65		
100	QPSK	135	0		23.60		25.0
100	QPSK	135	69		23.63		25.1
100	QPSK	135	138		23.53		25.0
100	QPSK	270	0		23.50		
100	16QAM	1	1		23.52		25.0
100	64QAM	1	1		23.08		23.5
100	256QAM	1	1		21.06		21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.51	23.54	23.67	25.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.66	23.67	23.54	25.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.48	23.54	23.64	25.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.49	23.56	23.64	25.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.62	23.66	23.65	25.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.56	23.62	23.48	25.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.49	23.54	23.50	25.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.58	23.49	23.55	25.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.48	23.57	23.50	25.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.53	23.57	23.50	25.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.64	23.51	23.58	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		22.56		23.8
100	PI/2 BPSK	1	137		22.14		
100	PI/2 BPSK	1	271		22.50		
100	PI/2 BPSK	135	0		22.16		23.8
100	PI/2 BPSK	135	69		22.27		23.8
100	PI/2 BPSK	135	138		22.20		23.8
100	PI/2 BPSK	270	0		22.24		
100	QPSK	1	1		22.54		23.8
100	QPSK	1	137		22.07		
100	QPSK	1	271		22.48		
100	QPSK	135	0		22.06		23.8
100	QPSK	135	69		22.22		23.8
100	QPSK	135	138		22.19		23.8
100	QPSK	270	0		22.16		
100	16QAM	1	1		22.48		23.8
100	64QAM	1	1		22.39		23.8
100	256QAM	1	1		21.95		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.51	22.39	22.38	23.8
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.38	22.51	22.46	23.8
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.52	22.36	22.51	23.8
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.52	22.48	22.44	23.8
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.46	22.40	22.47	23.8
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.36	22.36	22.37	23.8
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.51	22.38	22.52	23.8
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.52	22.46	22.51	23.8
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.37	22.47	22.38	23.8
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.52	22.53	22.38	23.8
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.54	22.38	22.53	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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.48		
100	PI/2 BPSK	1	137		24.02		25.5
100	PI/2 BPSK	1	271		24.35		
100	PI/2 BPSK	135	0		24.05		
100	PI/2 BPSK	135	69		24.17		25.5
100	PI/2 BPSK	135	138		24.12		25.5
100	PI/2 BPSK	270	0		24.13		
100	QPSK	1	1		24.44		
100	QPSK	1	137		24.02		25.5
100	QPSK	1	271		24.35		
100	QPSK	135	0		24.04		
100	QPSK	135	69		24.12		25.5
100	QPSK	135	138		24.04		25.5
100	QPSK	270	0		24.05		
100	16QAM	1	1		24.39		
100	64QAM	1	1		23.79		24.5
100	256QAM	1	1		21.86		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.42	24.39	24.30	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.32	24.36	24.39	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.46	24.45	24.30	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.40	24.28	24.46	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.31	24.35	24.40	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.37	24.30	24.41	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.30	24.29	24.42	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.36	24.38	24.44	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.32	24.41	24.35	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.44	24.37	24.45	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.42	24.40	24.28	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		23.2
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.75		
100	PI/2 BPSK	1	137		22.41		23.2
100	PI/2 BPSK	1	271		22.65		
100	PI/2 BPSK	135	0		22.40		
100	PI/2 BPSK	135	69		22.44		23.2
100	PI/2 BPSK	135	138		22.34		23.2
100	PI/2 BPSK	270	0		22.42		
100	QPSK	1	1		22.67		
100	QPSK	1	137		22.32		23.2
100	QPSK	1	271		22.60		
100	QPSK	135	0		22.40		
100	QPSK	135	69		22.38		23.2
100	QPSK	135	138		22.24		23.2
100	QPSK	270	0		22.41		
100	16QAM	1	1		22.54		
100	64QAM	1	1		22.50		23.2
100	256QAM	1	1		22.12		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.70	22.56	22.59	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.55	22.66	22.70	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.59	22.69	22.72	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.64	22.64	22.59	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.64	22.63	22.64	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.73	22.68	22.74	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.65	22.70	22.58	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.68	22.64	22.74	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.62	22.64	22.57	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.71	22.66	22.64	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.57	22.66	22.67	



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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		23.68		24.4
100	PI/2 BPSK	1	137		23.43		
100	PI/2 BPSK	1	271		23.67		
100	PI/2 BPSK	135	0		23.60		24.4
100	PI/2 BPSK	135	69		23.65		24.4
100	PI/2 BPSK	135	138		23.60		24.4
100	PI/2 BPSK	270	0		23.58		
100	QPSK	1	1		23.64		24.4
100	QPSK	1	137		23.39		
100	QPSK	1	271		23.65		
100	QPSK	135	0		23.60		24.4
100	QPSK	135	69		23.63		24.4
100	QPSK	135	138		23.53		24.4
100	QPSK	270	0		23.50		
100	16QAM	1	1		23.52		24.4
100	64QAM	1	1		23.08		23.5
100	256QAM	1	1		21.06		21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.51	23.54	23.67	24.4
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.66	23.67	23.54	24.4
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.48	23.54	23.64	24.4
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.49	23.56	23.64	24.4
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.62	23.66	23.65	24.4
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.56	23.62	23.48	24.4
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.49	23.54	23.50	24.4
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.58	23.49	23.55	24.4
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.48	23.57	23.50	24.4
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.53	23.57	23.50	24.4
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.64	23.51	23.58	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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.56		23.1
100	PI/2 BPSK	1	137		22.14		
100	PI/2 BPSK	1	271		22.50		
100	PI/2 BPSK	135	0		22.16		23.1
100	PI/2 BPSK	135	69		22.27		23.1
100	PI/2 BPSK	135	138		22.20		23.1
100	PI/2 BPSK	270	0		22.24		
100	QPSK	1	1		22.54		23.1
100	QPSK	1	137		22.07		
100	QPSK	1	271		22.48		
100	QPSK	135	0		22.06		23.1
100	QPSK	135	69		22.22		23.1
100	QPSK	135	138		22.19		23.1
100	QPSK	270	0		22.16		
100	16QAM	1	1		22.48		23.1
100	64QAM	1	1		22.39		23.1
100	256QAM	1	1		21.95		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.51	22.39	22.38	23.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.38	22.51	22.46	23.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.52	22.36	22.51	23.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.52	22.48	22.44	23.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.46	22.40	22.47	23.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.36	22.36	22.37	23.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.51	22.38	22.52	23.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.52	22.46	22.51	23.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.37	22.47	22.38	23.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.52	22.53	22.38	23.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.54	22.38	22.53	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		24.48		24.8
100	PI/2 BPSK	1	137		24.02		
100	PI/2 BPSK	1	271		24.35		
100	PI/2 BPSK	135	0		24.05		24.8
100	PI/2 BPSK	135	69		24.17		24.8
100	PI/2 BPSK	135	138		24.12		24.8
100	PI/2 BPSK	270	0		24.13		
100	QPSK	1	1		24.44		24.8
100	QPSK	1	137		24.02		
100	QPSK	1	271		24.35		
100	QPSK	135	0		24.04		24.8
100	QPSK	135	69		24.12		24.8
100	QPSK	135	138		24.04		24.8
100	QPSK	270	0		24.05		
100	16QAM	1	1		24.39		24.8
100	64QAM	1	1		23.79		24.5
100	256QAM	1	1		21.86		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.42	24.39	24.30	24.8
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.32	24.36	24.39	24.8
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.46	24.45	24.30	24.8
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.40	24.28	24.46	24.8
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.31	24.35	24.40	24.8
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.37	24.30	24.41	24.8
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.30	24.29	24.42	24.8
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.36	24.38	24.44	24.8
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.32	24.41	24.35	24.8
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.44	24.37	24.45	24.8
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.42	24.40	24.28	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		24.43		25.0
100	PI/2 BPSK	1	137		24.48		
100	PI/2 BPSK	1	271		24.85		
100	PI/2 BPSK	135	0		24.07		24.5
100	PI/2 BPSK	135	69		24.53		25.0
100	PI/2 BPSK	135	138		23.99		24.5
100	PI/2 BPSK	270	0		24.09		
100	QPSK	1	1		24.67		25.0
100	QPSK	1	137		24.39		
100	QPSK	1	271		24.74		
100	QPSK	135	0		23.52		24.0
100	QPSK	135	69		24.52		25.0
100	QPSK	135	138		23.47		24.0
100	QPSK	270	0		23.68		
100	16QAM	1	1		23.78		24.0
100	64QAM	1	1		22.13		22.5
100	256QAM	1	1		20.11		20.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.41	24.38	24.34	25.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.36	24.23	24.18	25.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.25	24.21	24.19	25.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.24	24.22	24.26	25.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.42	24.28	24.24	25.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.40	24.31	24.22	25.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.23	24.34	24.19	25.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.39	24.22	24.20	25.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.32	24.39	24.32	25.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.30	24.37	24.28	25.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.42	24.31	24.29	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		15.78		16.7
100	PI/2 BPSK	1	137		15.44		
100	PI/2 BPSK	1	271		15.75		
100	PI/2 BPSK	135	0		15.49		16.7
100	PI/2 BPSK	135	69		15.43		16.7
100	PI/2 BPSK	135	138		15.45		16.7
100	PI/2 BPSK	270	0		15.53		
100	QPSK	1	1		15.61		16.7
100	QPSK	1	137		15.34		
100	QPSK	1	271		15.73		
100	QPSK	135	0		15.44		16.7
100	QPSK	135	69		15.47		16.7
100	QPSK	135	138		15.41		16.7
100	QPSK	270	0		15.54		
100	16QAM	1	1		15.70		16.7
100	64QAM	1	1		15.56		16.7
100	256QAM	1	1		15.54		16.7
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	15.59	15.67	15.53	16.7
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	15.57	15.69	15.65	16.7
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	15.67	15.71	15.61	16.7
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	15.54	15.70	15.67	16.7
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	15.73	15.72	15.53	16.7
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	15.62	15.56	15.65	16.7
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	15.54	15.64	15.56	16.7
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	15.63	15.53	15.67	16.7
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	15.55	15.57	15.66	16.7
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	15.56	15.63	15.67	16.7
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	15.70	15.60	15.60	16.7



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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		24.32		25.0
100	PI/2 BPSK	1	137		23.95		
100	PI/2 BPSK	1	271		24.24		
100	PI/2 BPSK	135	0		23.62		24.5
100	PI/2 BPSK	135	69		24.00		25.0
100	PI/2 BPSK	135	138		23.68		24.5
100	PI/2 BPSK	270	0		23.65		
100	QPSK	1	1		24.25		25.0
100	QPSK	1	137		24.20		
100	QPSK	1	271		24.27		
100	QPSK	135	0		23.25		24.0
100	QPSK	135	69		24.28		25.0
100	QPSK	135	138		23.36		24.0
100	QPSK	270	0		23.32		
100	16QAM	1	1		23.45		24.0
100	64QAM	1	1		21.92		22.5
100	256QAM	1	1		19.91		20.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.12	24.30	24.14	25.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.13	24.28	24.19	25.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.26	24.32	24.19	25.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.12	24.21	24.17	25.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.31	24.27	24.20	25.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.21	24.31	24.17	25.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.23	24.27	24.15	25.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.12	24.18	24.21	25.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.19	24.25	24.28	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	24.12	24.30	25.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.22	24.31	24.12	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		23.36		24.7
100	PI/2 BPSK	1	137		23.01		
100	PI/2 BPSK	1	271		23.35		
100	PI/2 BPSK	135	0		23.15		24.7
100	PI/2 BPSK	135	69		23.05		24.7
100	PI/2 BPSK	135	138		23.09		24.7
100	PI/2 BPSK	270	0		23.13		
100	QPSK	1	1		23.33		24.7
100	QPSK	1	137		22.97		
100	QPSK	1	271		23.27		
100	QPSK	135	0		23.14		24.7
100	QPSK	135	69		23.05		24.7
100	QPSK	135	138		23.08		24.7
100	QPSK	270	0		23.12		
100	16QAM	1	1		23.25		24.7
100	64QAM	1	1		21.72		22.5
100	256QAM	1	1		19.71		20.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	23.20	23.22	23.21	24.7
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	23.01	23.04	23.06	24.7
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.09	23.11	23.06	24.7
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	23.05	23.10	23.10	24.7
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	23.09	23.09	23.10	24.7
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.09	23.05	23.03	24.7
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	23.10	23.11	23.04	24.7
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	23.00	23.08	23.03	24.7
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	23.08	23.12	23.01	24.7
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	23.00	23.07	23.06	24.7
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	23.01	23.03	23.06	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		24.43		25.0
100	PI/2 BPSK	1	137		24.48		
100	PI/2 BPSK	1	271		24.85		
100	PI/2 BPSK	135	0		24.07		24.5
100	PI/2 BPSK	135	69		24.53		25.0
100	PI/2 BPSK	135	138		23.99		24.5
100	PI/2 BPSK	270	0		24.09		
100	QPSK	1	1		24.67		25.0
100	QPSK	1	137		24.39		
100	QPSK	1	271		24.74		
100	QPSK	135	0		23.52		24.0
100	QPSK	135	69		24.52		25.0
100	QPSK	135	138		23.47		24.0
100	QPSK	270	0		23.68		
100	16QAM	1	1		23.78		24.0
100	64QAM	1	1		22.13		22.5
100	256QAM	1	1		20.11		20.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.41	24.38	24.34	25.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.36	24.23	24.18	25.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.25	24.21	24.19	25.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.24	24.22	24.26	25.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.42	24.28	24.24	25.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.40	24.31	24.22	25.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.23	24.34	24.19	25.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.39	24.22	24.20	25.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.32	24.39	24.32	25.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.30	24.37	24.28	25.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.42	24.31	24.29	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		15.78		16.0
100	PI/2 BPSK	1	137		15.44		
100	PI/2 BPSK	1	271		15.75		
100	PI/2 BPSK	135	0		15.49		16.0
100	PI/2 BPSK	135	69		15.43		16.0
100	PI/2 BPSK	135	138		15.45		16.0
100	PI/2 BPSK	270	0		15.53		
100	QPSK	1	1		15.61		16.0
100	QPSK	1	137		15.34		
100	QPSK	1	271		15.73		
100	QPSK	135	0		15.44		16.0
100	QPSK	135	69		15.47		16.0
100	QPSK	135	138		15.41		16.0
100	QPSK	270	0		15.54		
100	16QAM	1	1		15.70		16.0
100	64QAM	1	1		15.56		16.0
100	256QAM	1	1		15.54		16.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	15.59	15.67	15.53	16.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	15.57	15.69	15.65	16.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	15.67	15.71	15.61	16.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	15.54	15.70	15.67	16.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	15.73	15.72	15.53	16.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	15.62	15.56	15.65	16.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	15.54	15.64	15.56	16.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	15.63	15.53	15.67	16.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	15.55	15.57	15.66	16.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	15.56	15.63	15.67	16.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	15.70	15.60	15.60	16.0



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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		24.32		25.0
100	PI/2 BPSK	1	137		23.95		
100	PI/2 BPSK	1	271		24.24		
100	PI/2 BPSK	135	0		23.62		24.5
100	PI/2 BPSK	135	69		24.00		25.0
100	PI/2 BPSK	135	138		23.68		24.5
100	PI/2 BPSK	270	0		23.65		
100	QPSK	1	1		24.25		25.0
100	QPSK	1	137		24.20		
100	QPSK	1	271		24.27		
100	QPSK	135	0		23.25		24.0
100	QPSK	135	69		24.28		25.0
100	QPSK	135	138		23.36		24.0
100	QPSK	270	0		23.32		
100	16QAM	1	1		23.45		24.0
100	64QAM	1	1		21.92		22.5
100	256QAM	1	1		19.91		20.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.12	24.30	24.14	25.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.13	24.28	24.19	25.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.26	24.32	24.19	25.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.12	24.21	24.17	25.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.31	24.27	24.20	25.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.21	24.31	24.17	25.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.23	24.27	24.15	25.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.12	24.18	24.21	25.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.19	24.25	24.28	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	24.12	24.30	25.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.22	24.31	24.12	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		23.36		24.0
100	PI/2 BPSK	1	137		23.01		
100	PI/2 BPSK	1	271		23.35		
100	PI/2 BPSK	135	0		23.15		24.0
100	PI/2 BPSK	135	69		23.05		24.0
100	PI/2 BPSK	135	138		23.09		24.0
100	PI/2 BPSK	270	0		23.13		
100	QPSK	1	1		23.33		24.0
100	QPSK	1	137		22.97		
100	QPSK	1	271		23.27		
100	QPSK	135	0		23.14		24.0
100	QPSK	135	69		23.05		24.0
100	QPSK	135	138		23.08		24.0
100	QPSK	270	0		23.12		
100	16QAM	1	1		23.25		24.0
100	64QAM	1	1		21.72		22.5
100	256QAM	1	1		19.71		20.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	23.20	23.22	23.21	24.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	23.01	23.04	23.06	24.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.09	23.11	23.06	24.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	23.05	23.10	23.10	24.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	23.09	23.09	23.10	24.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.09	23.05	23.03	24.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	23.10	23.11	23.04	24.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	23.00	23.08	23.03	24.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	23.08	23.12	23.01	24.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	23.00	23.07	23.06	24.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	23.01	23.03	23.06	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		21.60		21.6
100	PI/2 BPSK	1	137		21.04		
100	PI/2 BPSK	1	271		21.40		
100	PI/2 BPSK	135	0		21.11		21.6
100	PI/2 BPSK	135	69		21.09		21.6
100	PI/2 BPSK	135	138		21.01		21.6
100	PI/2 BPSK	270	0		21.03		
100	QPSK	1	1		21.32		21.6
100	QPSK	1	137		20.96		
100	QPSK	1	271		21.24		
100	QPSK	135	0		21.10		21.6
100	QPSK	135	69		21.08		21.6
100	QPSK	135	138		21.04		21.6
100	QPSK	270	0		21.14		
100	16QAM	1	1		21.27		21.6
100	64QAM	1	1		21.18		21.6
100	256QAM	1	1		19.86		20.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	21.60	21.54	21.59	21.6
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	21.56	21.52	21.60	21.6
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.56	21.52	21.41	21.6
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	21.56	21.53	21.54	21.6
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	21.59	21.48	21.49	21.6
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	21.59	21.52	21.52	21.6
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	21.49	21.49	21.52	21.6
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	21.58	21.51	21.52	21.6
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	21.52	21.49	21.59	21.6
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	21.56	21.55	21.58	21.6
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	21.52	21.49	21.59	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		20.64		21.5
100	PI/2 BPSK	1	137		20.29		
100	PI/2 BPSK	1	271		20.63		
100	PI/2 BPSK	135	0		20.35		21.5
100	PI/2 BPSK	135	69		20.35		21.5
100	PI/2 BPSK	135	138		20.33		21.5
100	PI/2 BPSK	270	0		20.39		
100	QPSK	1	1		20.47		21.5
100	QPSK	1	137		20.22		
100	QPSK	1	271		20.62		
100	QPSK	135	0		20.35		21.5
100	QPSK	135	69		20.34		21.5
100	QPSK	135	138		20.30		21.5
100	QPSK	270	0		20.38		
100	16QAM	1	1		20.60		21.5
100	64QAM	1	1		20.43		21.5
100	256QAM	1	1		18.93		19.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	20.54	20.57	20.51	21.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	20.59	20.59	20.52	21.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	20.59	20.60	20.54	21.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	20.58	20.58	20.56	21.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	20.55	20.58	20.55	21.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	20.57	20.62	20.54	21.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	20.58	20.58	20.54	21.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	20.59	20.59	20.56	21.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	20.59	20.61	20.53	21.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	20.56	20.57	20.54	21.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	20.53	20.60	20.53	21.5



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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		19.59		20.2
100	PI/2 BPSK	1	137		19.27		
100	PI/2 BPSK	1	271		19.53		
100	PI/2 BPSK	135	0		19.35		20.2
100	PI/2 BPSK	135	69		19.33		20.2
100	PI/2 BPSK	135	138		19.39		20.2
100	PI/2 BPSK	270	0		19.36		
100	QPSK	1	1		19.50		20.2
100	QPSK	1	137		19.22		
100	QPSK	1	271		19.50		
100	QPSK	135	0		19.37		20.2
100	QPSK	135	69		19.30		20.2
100	QPSK	135	138		19.42		20.2
100	QPSK	270	0		19.39		
100	16QAM	1	1		19.51		20.2
100	64QAM	1	1		19.37		20.2
100	256QAM	1	1		19.47		20.2
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	19.43	19.39	19.40	20.2
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	19.27	19.21	19.28	20.2
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	19.30	19.22	19.27	20.2
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	19.23	19.25	19.26	20.2
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	19.24	19.28	19.29	20.2
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	19.30	19.23	19.25	20.2
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	19.28	19.28	19.28	20.2
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	19.31	19.20	19.28	20.2
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	19.23	19.29	19.30	20.2
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	19.25	19.28	19.23	20.2
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	19.29	19.22	19.27	20.2



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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		24.50		24.8
100	PI/2 BPSK	1	137		24.21		
100	PI/2 BPSK	1	271		24.48		
100	PI/2 BPSK	135	0		23.74		24.5
100	PI/2 BPSK	135	69		24.24		24.8
100	PI/2 BPSK	135	138		23.88		24.5
100	PI/2 BPSK	270	0		23.76		
100	QPSK	1	1		24.31		24.8
100	QPSK	1	137		24.08		
100	QPSK	1	271		24.29		
100	QPSK	135	0		23.22		24.0
100	QPSK	135	69		24.21		24.8
100	QPSK	135	138		23.38		24.0
100	QPSK	270	0		23.17		
100	16QAM	1	1		23.44		24.0
100	64QAM	1	1		21.78		22.5
100	256QAM	1	1		19.79		20.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.34	24.30	24.39	24.8
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.33	24.30	24.39	24.8
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.38	24.34	24.30	24.8
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.30	24.31	24.26	24.8
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.23	24.15	24.21	24.8
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.19	24.20	24.29	24.8
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.18	24.10	24.24	24.8
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.14	24.16	24.21	24.8
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.15	24.19	24.22	24.8
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.19	24.17	24.24	24.8
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.17	24.15	24.23	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		21.60		22.3
100	PI/2 BPSK	1	137		21.04		
100	PI/2 BPSK	1	271		21.40		
100	PI/2 BPSK	135	0		21.11		22.3
100	PI/2 BPSK	135	69		21.09		22.3
100	PI/2 BPSK	135	138		21.01		22.3
100	PI/2 BPSK	270	0		21.03		
100	QPSK	1	1		21.32		22.3
100	QPSK	1	137		20.96		
100	QPSK	1	271		21.24		
100	QPSK	135	0		21.10		22.3
100	QPSK	135	69		21.08		22.3
100	QPSK	135	138		21.04		22.3
100	QPSK	270	0		21.14		
100	16QAM	1	1		21.27		22.3
100	64QAM	1	1		21.18		22.3
100	256QAM	1	1		19.86		20.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	21.60	21.54	21.59	22.3
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	21.56	21.52	21.60	22.3
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.56	21.52	21.41	22.3
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	21.57	21.53	21.54	22.3
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	21.59	21.48	21.49	22.3
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	21.59	21.52	21.55	22.3
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	21.49	21.49	21.52	22.3
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	21.58	21.51	21.52	22.3
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	21.52	21.49	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	21.56	21.55	21.58	22.3
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	21.52	21.49	21.59	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		20.64		22.2
100	PI/2 BPSK	1	137		20.33		
100	PI/2 BPSK	1	271		20.63		
100	PI/2 BPSK	135	0		20.35		22.2
100	PI/2 BPSK	135	69		20.35		22.2
100	PI/2 BPSK	135	138		20.33		22.2
100	PI/2 BPSK	270	0		20.39		
100	QPSK	1	1		20.47		22.2
100	QPSK	1	137		20.22		
100	QPSK	1	271		20.62		
100	QPSK	135	0		20.35		22.2
100	QPSK	135	69		20.34		22.2
100	QPSK	135	138		20.30		22.2
100	QPSK	270	0		20.38		
100	16QAM	1	1		20.60		22.2
100	64QAM	1	1		20.43		21.5
100	256QAM	1	1		18.93		19.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	20.54	20.57	20.51	22.2
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	20.59	20.59	20.52	22.2
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	20.59	20.60	20.54	22.2
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	20.58	20.58	20.56	22.2
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	20.55	20.58	20.55	22.2
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	20.57	20.62	20.54	22.2
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	20.58	20.58	20.54	22.2
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	20.59	20.59	20.56	22.2
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	20.59	20.61	20.53	22.2
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	20.56	20.57	20.54	22.2
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	20.53	20.60	20.53	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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		19.59		20.9
100	PI/2 BPSK	1	137		19.27		
100	PI/2 BPSK	1	271		19.53		
100	PI/2 BPSK	135	0		19.35		20.9
100	PI/2 BPSK	135	69		19.33		20.9
100	PI/2 BPSK	135	138		19.39		20.9
100	PI/2 BPSK	270	0		19.36		
100	QPSK	1	1		19.50		20.9
100	QPSK	1	137		19.22		
100	QPSK	1	271		19.50		
100	QPSK	135	0		19.37		20.9
100	QPSK	135	69		19.30		20.9
100	QPSK	135	138		19.42		20.9
100	QPSK	270	0		19.39		
100	16QAM	1	1		19.51		20.9
100	64QAM	1	1		19.37		20.9
100	256QAM	1	1		19.47		20.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	19.43	19.39	19.40	20.9
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	19.27	19.21	19.28	20.9
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	19.30	19.22	19.27	20.9
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	19.23	19.25	19.26	20.9
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	19.24	19.28	19.29	20.9
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	19.30	19.23	19.25	20.9
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	19.28	19.28	19.28	20.9
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	19.31	19.20	19.28	20.9
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	19.23	19.29	19.30	20.9
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	19.25	19.28	19.23	20.9
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	19.29	19.22	19.27	20.9



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		24.50		25.0
100	PI/2 BPSK	1	137		24.21		
100	PI/2 BPSK	1	271		24.48		
100	PI/2 BPSK	135	0		23.74		24.5
100	PI/2 BPSK	135	69		24.24		25.0
100	PI/2 BPSK	135	138		23.88		24.5
100	PI/2 BPSK	270	0		23.76		
100	QPSK	1	1		24.31		25.0
100	QPSK	1	137		24.08		
100	QPSK	1	271		24.29		
100	QPSK	135	0		23.22		24.0
100	QPSK	135	69		24.21		25.0
100	QPSK	135	138		23.38		24.0
100	QPSK	270	0		23.17		
100	16QAM	1	1		23.44		24.0
100	64QAM	1	1		21.78		22.5
100	256QAM	1	1		19.79		20.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.34	24.30	24.39	25.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.33	24.30	24.39	25.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.38	24.34	24.30	25.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.30	24.31	24.26	25.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.23	24.15	24.21	25.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.19	24.20	24.29	25.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.18	24.10	24.24	25.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.14	24.16	24.21	25.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.15	24.19	24.22	25.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.19	24.17	24.24	25.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.17	24.15	24.23	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		21.60		21.6
100	PI/2 BPSK	1	137		21.04		
100	PI/2 BPSK	1	271		21.40		
100	PI/2 BPSK	135	0		21.11		21.6
100	PI/2 BPSK	135	69		21.09		21.6
100	PI/2 BPSK	135	138		21.01		21.6
100	PI/2 BPSK	270	0		21.03		
100	QPSK	1	1		21.32		21.6
100	QPSK	1	137		20.96		
100	QPSK	1	271		21.24		
100	QPSK	135	0		21.10		21.6
100	QPSK	135	69		21.08		21.6
100	QPSK	135	138		21.04		21.6
100	QPSK	270	0		21.14		
100	16QAM	1	1		21.27		21.6
100	64QAM	1	1		21.18		21.6
100	256QAM	1	1		19.86		20.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	21.60	21.54	21.59	21.6
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	21.56	21.52	21.60	21.6
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.56	21.52	21.41	21.6
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	21.57	21.53	21.54	21.6
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	21.59	21.48	21.49	21.6
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	21.59	21.52	21.55	21.6
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	21.49	21.49	21.52	21.6
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	21.58	21.51	21.52	21.6
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	21.52	21.49	21.59	21.6
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	21.56	21.55	21.58	21.6
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	21.52	21.49	21.59	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		20.64		21.5
100	PI/2 BPSK	1	137		20.29		
100	PI/2 BPSK	1	271		20.63		
100	PI/2 BPSK	135	0		20.35		21.5
100	PI/2 BPSK	135	69		20.35		21.5
100	PI/2 BPSK	135	138		20.33		21.5
100	PI/2 BPSK	270	0		20.39		
100	QPSK	1	1		20.47		21.5
100	QPSK	1	137		20.22		
100	QPSK	1	271		20.62		
100	QPSK	135	0		20.35		21.5
100	QPSK	135	69		20.34		21.5
100	QPSK	135	138		20.30		21.5
100	QPSK	270	0		20.38		
100	16QAM	1	1		20.60		21.5
100	64QAM	1	1		20.43		21.5
100	256QAM	1	1		18.93		19.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	20.54	20.57	20.51	21.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	20.59	20.59	20.52	21.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	20.59	20.60	20.54	21.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	20.58	20.58	20.56	21.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	20.55	20.58	20.55	21.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	20.57	20.62	20.54	21.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	20.58	20.58	20.54	21.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	20.59	20.59	20.56	21.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	20.59	20.61	20.53	21.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	20.56	20.57	20.54	21.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	20.53	20.60	20.53	21.5



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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		19.59		20.2
100	PI/2 BPSK	1	137		19.27		
100	PI/2 BPSK	1	271		19.53		
100	PI/2 BPSK	135	0		19.35		20.2
100	PI/2 BPSK	135	69		19.33		20.2
100	PI/2 BPSK	135	138		19.39		20.2
100	PI/2 BPSK	270	0		19.36		
100	QPSK	1	1		19.50		20.2
100	QPSK	1	137		19.22		
100	QPSK	1	271		19.50		
100	QPSK	135	0		19.37		20.2
100	QPSK	135	69		19.30		20.2
100	QPSK	135	138		19.42		20.2
100	QPSK	270	0		19.39		
100	16QAM	1	1		19.51		20.2
100	64QAM	1	1		19.37		20.2
100	256QAM	1	1		19.47		20.2
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	19.43	19.39	19.40	20.2
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	19.27	19.21	19.28	20.2
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	19.30	19.22	19.27	20.2
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	19.23	19.25	19.26	20.2
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	19.24	19.28	19.29	20.2
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	19.30	19.23	19.25	20.2
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	19.28	19.28	19.28	20.2
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	19.31	19.20	19.28	20.2
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	19.23	19.29	19.30	20.2
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	19.25	19.28	19.23	20.2
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	19.29	19.22	19.27	20.2



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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		24.50		24.8
100	PI/2 BPSK	1	137		24.21		
100	PI/2 BPSK	1	271		24.48		
100	PI/2 BPSK	135	0		23.74		24.5
100	PI/2 BPSK	135	69		24.24		24.8
100	PI/2 BPSK	135	138		23.88		24.5
100	PI/2 BPSK	270	0		23.76		
100	QPSK	1	1		24.31		24.8
100	QPSK	1	137		24.08		
100	QPSK	1	271		24.29		
100	QPSK	135	0		23.22		24.0
100	QPSK	135	69		24.21		24.8
100	QPSK	135	138		23.38		24.0
100	QPSK	270	0		23.17		
100	16QAM	1	1		23.44		24.0
100	64QAM	1	1		21.78		22.5
100	256QAM	1	1		19.79		20.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.34	24.30	24.39	24.8
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.33	24.30	24.39	24.8
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.38	24.34	24.30	24.8
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.30	24.31	24.26	24.8
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.23	24.15	24.21	24.8
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.19	24.20	24.29	24.8
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.18	24.10	24.24	24.8
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.14	24.16	24.21	24.8
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.15	24.19	24.22	24.8
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.19	24.17	24.24	24.8
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.17	24.15	24.23	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		24.43		25.0
100	PI/2 BPSK	1	137		24.48		
100	PI/2 BPSK	1	271		24.85		
100	PI/2 BPSK	135	0		24.07		24.5
100	PI/2 BPSK	135	69		24.53		25.0
100	PI/2 BPSK	135	138		23.99		24.5
100	PI/2 BPSK	270	0		24.09		
100	QPSK	1	1		24.67		25.0
100	QPSK	1	137		24.39		
100	QPSK	1	271		24.74		
100	QPSK	135	0		23.52		24.0
100	QPSK	135	69		24.52		25.0
100	QPSK	135	138		23.47		24.0
100	QPSK	270	0		23.68		
100	16QAM	1	1		23.78		24.0
100	64QAM	1	1		22.13		22.5
100	256QAM	1	1		20.11		20.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.42	24.35	24.40	25.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.31	24.25	24.43	25.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.36	24.36	24.37	25.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.40	24.25	24.35	25.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.29	24.28	24.39	25.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.33	24.33	24.34	25.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.27	24.35	24.29	25.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.30	24.28	24.42	25.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.36	24.29	24.28	25.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.28	24.41	24.35	25.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.32	24.31	24.31	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		14.62		14.7
100	PI/2 BPSK	1	137		14.48		
100	PI/2 BPSK	1	271		14.48		
100	PI/2 BPSK	135	0		14.48		14.7
100	PI/2 BPSK	135	69		14.54		14.7
100	PI/2 BPSK	135	138		14.51		14.7
100	PI/2 BPSK	270	0		14.45		
100	QPSK	1	1		14.50		14.7
100	QPSK	1	137		14.48		
100	QPSK	1	271		14.56		
100	QPSK	135	0		14.56		14.7
100	QPSK	135	69		14.52		14.7
100	QPSK	135	138		14.42		14.7
100	QPSK	270	0		14.51		
100	16QAM	1	1		14.46		14.7
100	64QAM	1	1		14.42		14.7
100	256QAM	1	1		14.58		14.7
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	14.47	14.60	14.56	14.7
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	14.51	14.44	14.58	14.7
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	14.55	14.54	14.44	14.7
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	14.58	14.55	14.52	14.7
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	14.56	14.52	14.61	14.7
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	14.55	14.57	14.57	14.7
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	14.43	14.53	14.53	14.7
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	14.55	14.57	14.44	14.7
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	14.52	14.49	14.51	14.7
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	14.44	14.45	14.60	14.7
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	14.49	14.59	14.50	14.7



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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		24.32		25.0
100	PI/2 BPSK	1	137		23.95		
100	PI/2 BPSK	1	271		24.24		
100	PI/2 BPSK	135	0		23.62		24.5
100	PI/2 BPSK	135	69		24.00		25.0
100	PI/2 BPSK	135	138		23.68		24.5
100	PI/2 BPSK	270	0		23.65		
100	QPSK	1	1		24.25		25.0
100	QPSK	1	137		24.20		
100	QPSK	1	271		24.27		
100	QPSK	135	0		23.25		24.0
100	QPSK	135	69		24.28		25.0
100	QPSK	135	138		23.36		24.0
100	QPSK	270	0		23.32		
100	16QAM	1	1		23.45		24.0
100	64QAM	1	1		21.92		22.5
100	256QAM	1	1		19.91		20.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.30	24.30	24.24	25.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.28	24.23	24.28	25.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.16	24.29	24.27	25.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.16	24.19	24.29	25.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.22	24.26	24.28	25.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.23	24.25	24.24	25.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.16	24.16	24.18	25.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.15	24.30	24.25	25.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.19	24.25	24.14	25.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.29	24.16	24.12	25.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.26	24.18	24.31	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		20.37		
100	PI/2 BPSK	1	137		19.95		21.0
100	PI/2 BPSK	1	271		20.33		
100	PI/2 BPSK	135	0		20.06		
100	PI/2 BPSK	135	69		20.13		21.0
100	PI/2 BPSK	135	138		19.95		21.0
100	PI/2 BPSK	270	0		20.01		
100	QPSK	1	1		20.23		
100	QPSK	1	137		19.92		21.0
100	QPSK	1	271		20.26		
100	QPSK	135	0		20.03		
100	QPSK	135	69		19.98		21.0
100	QPSK	135	138		19.99		21.0
100	QPSK	270	0		19.98		
100	16QAM	1	1		20.30		
100	64QAM	1	1		20.26		21.0
100	256QAM	1	1		19.70		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	20.32	20.22	
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	20.26	20.18	20.33	
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	20.17	20.28	20.20	
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	20.33	20.29	20.29	
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	20.19	20.20	20.20	
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	20.19	20.17	20.23	
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	20.35	20.32	20.30	
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	20.23	
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	20.30	20.30	20.18	
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	20.30	20.28	20.26	
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	20.32	20.24	20.19	



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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		19.67		20.2
100	PI/2 BPSK	1	137		19.42		
100	PI/2 BPSK	1	271		19.65		
100	PI/2 BPSK	135	0		19.49		20.2
100	PI/2 BPSK	135	69		19.47		20.2
100	PI/2 BPSK	135	138		19.42		20.2
100	PI/2 BPSK	270	0		19.50		
100	QPSK	1	1		19.62		20.2
100	QPSK	1	137		19.34		
100	QPSK	1	271		19.57		
100	QPSK	135	0		19.51		20.2
100	QPSK	135	69		19.48		20.2
100	QPSK	135	138		19.43		20.2
100	QPSK	270	0		19.53		
100	16QAM	1	1		19.62		20.2
100	64QAM	1	1		19.60		20.2
100	256QAM	1	1		19.59		20.2
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	19.57	19.65	19.50	20.2
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	19.52	19.47	19.56	20.2
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	19.58	19.65	19.50	20.2
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	19.58	19.65	19.66	20.2
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	19.66	19.61	19.48	20.2
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	19.60	19.57	19.59	20.2
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	19.59	19.63	19.59	20.2
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	19.47	19.49	19.53	20.2
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	19.59	19.58	19.56	20.2
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	19.48	19.53	19.49	20.2
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	19.66	19.65	19.63	20.2



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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		20.58		
100	PI/2 BPSK	1	137		20.39		20.8
100	PI/2 BPSK	1	271		20.50		
100	PI/2 BPSK	135	0		20.42		
100	PI/2 BPSK	135	69		20.45		20.8
100	PI/2 BPSK	135	138		20.40		20.8
100	PI/2 BPSK	270	0		20.41		
100	QPSK	1	1		20.54		
100	QPSK	1	137		20.38		20.8
100	QPSK	1	271		20.48		
100	QPSK	135	0		20.33		
100	QPSK	135	69		20.37		20.8
100	QPSK	135	138		20.31		20.8
100	QPSK	270	0		20.32		
100	16QAM	1	1		20.23		
100	64QAM	1	1		20.45		20.8
100	256QAM	1	1		18.94		19.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	20.42	20.57	20.43	
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	20.45	20.47	20.48	
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	20.50	20.56	20.57	
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	20.40	20.40	20.41	
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	20.56	20.40	20.52	
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	20.51	20.55	20.44	
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	20.52	20.40	20.52	
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	20.40	20.41	20.45	
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	20.42	20.39	20.39	
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	20.43	20.56	20.54	
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	20.38	20.44	20.56	



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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		19.57		20.1
100	PI/2 BPSK	1	137		19.33		
100	PI/2 BPSK	1	271		19.56		
100	PI/2 BPSK	135	0		19.38		20.1
100	PI/2 BPSK	135	69		19.44		20.1
100	PI/2 BPSK	135	138		19.42		20.1
100	PI/2 BPSK	270	0		19.43		
100	QPSK	1	1		19.56		20.1
100	QPSK	1	137		19.27		
100	QPSK	1	271		19.53		
100	QPSK	135	0		19.35		20.1
100	QPSK	135	69		19.40		20.1
100	QPSK	135	138		19.39		20.1
100	QPSK	270	0		19.37		
100	16QAM	1	1		19.56		20.1
100	64QAM	1	1		19.47		20.1
100	256QAM	1	1		19.46		20.1
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	19.46	19.55	19.51	20.1
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	19.56	19.56	19.55	20.1
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	19.50	19.54	19.39	20.1
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	19.56	19.37	19.46	20.1
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	19.40	19.43	19.38	20.1
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	19.42	19.44	19.45	20.1
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	19.43	19.37	19.52	20.1
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	19.55	19.47	19.46	20.1
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	19.51	19.42	19.52	20.1
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	19.49	19.49	19.49	20.1
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	19.48	19.54	19.40	20.1



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		21.32		21.8
100	PI/2 BPSK	1	137		20.96		
100	PI/2 BPSK	1	271		21.31		
100	PI/2 BPSK	135	0		21.00		21.8
100	PI/2 BPSK	135	69		21.09		21.8
100	PI/2 BPSK	135	138		21.01		21.8
100	PI/2 BPSK	270	0		21.05		
100	QPSK	1	1		21.24		21.8
100	QPSK	1	137		20.95		
100	QPSK	1	271		21.26		
100	QPSK	135	0		20.98		21.8
100	QPSK	135	69		21.04		21.8
100	QPSK	135	138		21.00		21.8
100	QPSK	270	0		21.00		
100	16QAM	1	1		21.30		21.8
100	64QAM	1	1		21.16		21.8
100	256QAM	1	1		19.68		20.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	21.18	21.25	21.21	21.8
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	21.14	21.18	21.15	21.8
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.30	21.26	21.23	21.8
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	21.20	21.13	21.31	21.8
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	21.21	21.30	21.22	21.8
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	21.21	21.23	21.17	21.8
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	21.29	21.26	21.29	21.8
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	21.30	21.12	21.28	21.8
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	21.18	21.24	21.20	21.8
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	21.14	21.22	21.22	21.8
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	21.31	21.22	21.21	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		19.67		20.9
100	PI/2 BPSK	1	137		19.42		
100	PI/2 BPSK	1	271		19.65		
100	PI/2 BPSK	135	0		19.49		20.9
100	PI/2 BPSK	135	69		19.47		20.9
100	PI/2 BPSK	135	138		19.42		20.9
100	PI/2 BPSK	270	0		19.50		
100	QPSK	1	1		19.62		20.9
100	QPSK	1	137		19.34		
100	QPSK	1	271		19.57		
100	QPSK	135	0		19.51		20.9
100	QPSK	135	69		19.48		20.9
100	QPSK	135	138		19.43		20.9
100	QPSK	270	0		19.53		
100	16QAM	1	1		19.62		20.9
100	64QAM	1	1		19.60		20.9
100	256QAM	1	1		19.59		20.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	19.57	19.65	19.50	20.9
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	19.52	19.47	19.56	20.9
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	19.58	19.65	19.50	20.9
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	19.58	19.65	19.66	20.9
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	19.66	19.61	19.48	20.9
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	19.60	19.57	19.59	20.9
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	19.59	19.63	19.59	20.9
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	19.47	19.49	19.53	20.9
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	19.59	19.58	19.56	20.9
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	19.48	19.53	19.49	20.9
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	19.66	19.65	19.63	20.9



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		20.58		22.1
100	PI/2 BPSK	1	137		20.39		
100	PI/2 BPSK	1	271		20.50		
100	PI/2 BPSK	135	0		20.42		22.1
100	PI/2 BPSK	135	69		20.45		22.1
100	PI/2 BPSK	135	138		20.40		22.1
100	PI/2 BPSK	270	0		20.41		
100	QPSK	1	1		20.54		22.1
100	QPSK	1	137		20.38		
100	QPSK	1	271		20.48		
100	QPSK	135	0		20.33		22.1
100	QPSK	135	69		20.37		22.1
100	QPSK	135	138		20.31		22.1
100	QPSK	270	0		20.32		
100	16QAM	1	1		20.23		22.1
100	64QAM	1	1		20.45		21.5
100	256QAM	1	1		18.94		19.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	20.42	20.57	20.43	22.1
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	20.45	20.47	20.48	22.1
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	20.50	20.56	20.57	22.1
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	20.40	20.40	20.41	22.1
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	20.56	20.40	20.52	22.1
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	20.51	20.55	20.44	22.1
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	20.52	20.40	20.52	22.1
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	20.40	20.41	20.45	22.1
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	20.42	20.39	20.39	22.1
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	20.43	20.56	20.54	22.1
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	20.38	20.44	20.56	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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		19.57		20.8
100	PI/2 BPSK	1	137		19.33		
100	PI/2 BPSK	1	271		19.56		
100	PI/2 BPSK	135	0		19.38		20.8
100	PI/2 BPSK	135	69		19.44		20.8
100	PI/2 BPSK	135	138		19.42		20.8
100	PI/2 BPSK	270	0		19.43		
100	QPSK	1	1		19.56		20.8
100	QPSK	1	137		19.27		
100	QPSK	1	271		19.53		
100	QPSK	135	0		19.35		20.8
100	QPSK	135	69		19.40		20.8
100	QPSK	135	138		19.39		20.8
100	QPSK	270	0		19.37		
100	16QAM	1	1		19.56		20.8
100	64QAM	1	1		19.47		20.8
100	256QAM	1	1		19.46		20.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	19.46	19.55	19.51	20.8
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	19.56	19.56	19.55	20.8
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	19.50	19.54	19.39	20.8
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	19.56	19.37	19.46	20.8
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	19.40	19.43	19.38	20.8
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	19.42	19.44	19.45	20.8
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	19.43	19.37	19.52	20.8
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	19.55	19.47	19.46	20.8
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	19.51	19.42	19.52	20.8
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	19.49	19.49	19.49	20.8
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	19.48	19.54	19.40	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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		21.32		22.5
100	PI/2 BPSK	1	137		20.96		
100	PI/2 BPSK	1	271		21.31		
100	PI/2 BPSK	135	0		21.00		22.5
100	PI/2 BPSK	135	69		21.09		22.5
100	PI/2 BPSK	135	138		21.01		22.5
100	PI/2 BPSK	270	0		21.05		
100	QPSK	1	1		21.24		22.5
100	QPSK	1	137		20.95		
100	QPSK	1	271		21.26		
100	QPSK	135	0		20.98		22.5
100	QPSK	135	69		21.04		22.5
100	QPSK	135	138		21.00		22.5
100	QPSK	270	0		21.00		
100	16QAM	1	1		21.30		22.5
100	64QAM	1	1		21.16		22.5
100	256QAM	1	1		19.68		20.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	21.18	21.25	21.21	22.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	21.14	21.18	21.15	22.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.30	21.26	21.23	22.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	21.20	21.13	21.31	22.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	21.21	21.30	21.22	22.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	21.21	21.23	21.17	22.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	21.29	21.26	21.29	22.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	21.30	21.12	21.28	22.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	21.18	21.24	21.20	22.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	21.14	21.22	21.22	22.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	21.31	21.22	21.21	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		19.67		20.2
100	PI/2 BPSK	1	137		19.42		
100	PI/2 BPSK	1	271		19.65		
100	PI/2 BPSK	135	0		19.49		20.2
100	PI/2 BPSK	135	69		19.47		20.2
100	PI/2 BPSK	135	138		19.42		20.2
100	PI/2 BPSK	270	0		19.50		
100	QPSK	1	1		19.62		20.2
100	QPSK	1	137		19.34		
100	QPSK	1	271		19.57		
100	QPSK	135	0		19.51		20.2
100	QPSK	135	69		19.48		20.2
100	QPSK	135	138		19.43		20.2
100	QPSK	270	0		19.53		
100	16QAM	1	1		19.62		20.2
100	64QAM	1	1		19.60		20.2
100	256QAM	1	1		19.59		20.2
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	19.57	19.65	19.50	20.2
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	19.52	19.47	19.56	20.2
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	19.58	19.65	19.50	20.2
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	19.58	19.65	19.66	20.2
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	19.66	19.61	19.48	20.2
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	19.60	19.57	19.59	20.2
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	19.59	19.63	19.59	20.2
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	19.47	19.49	19.53	20.2
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	19.59	19.58	19.56	20.2
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	19.48	19.53	19.49	20.2
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	19.66	19.65	19.63	20.2



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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		20.58		21.4
100	PI/2 BPSK	1	137		20.39		
100	PI/2 BPSK	1	271		20.50		
100	PI/2 BPSK	135	0		20.42		21.4
100	PI/2 BPSK	135	69		20.45		21.4
100	PI/2 BPSK	135	138		20.40		21.4
100	PI/2 BPSK	270	0		20.41		
100	QPSK	1	1		20.54		21.4
100	QPSK	1	137		20.38		
100	QPSK	1	271		20.48		
100	QPSK	135	0		20.33		21.4
100	QPSK	135	69		20.37		21.4
100	QPSK	135	138		20.31		21.4
100	QPSK	270	0		20.32		
100	16QAM	1	1		20.23		21.4
100	64QAM	1	1		20.45		21.4
100	256QAM	1	1		18.94		19.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	20.42	20.57	20.43	21.4
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	20.45	20.47	20.48	21.4
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	20.50	20.56	20.57	21.4
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	20.40	20.40	20.41	21.4
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	20.56	20.40	20.52	21.4
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	20.51	20.55	20.44	21.4
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	20.52	20.40	20.52	21.4
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	20.40	20.41	20.45	21.4
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	20.42	20.39	20.39	21.4
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	20.43	20.56	20.54	21.4
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	20.38	20.44	20.56	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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		19.57		20.1
100	PI/2 BPSK	1	137		19.33		
100	PI/2 BPSK	1	271		19.56		
100	PI/2 BPSK	135	0		19.38		20.1
100	PI/2 BPSK	135	69		19.44		20.1
100	PI/2 BPSK	135	138		19.42		20.1
100	PI/2 BPSK	270	0		19.43		
100	QPSK	1	1		19.56		20.1
100	QPSK	1	137		19.27		
100	QPSK	1	271		19.53		
100	QPSK	135	0		19.35		20.1
100	QPSK	135	69		19.40		20.1
100	QPSK	135	138		19.39		20.1
100	QPSK	270	0		19.37		
100	16QAM	1	1		19.56		20.1
100	64QAM	1	1		19.47		20.1
100	256QAM	1	1		19.46		20.1
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	19.46	19.55	19.51	20.1
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	19.56	19.56	19.55	20.1
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	19.50	19.54	19.39	20.1
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	19.56	19.37	19.46	20.1
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	19.40	19.43	19.38	20.1
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	19.42	19.44	19.45	20.1
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	19.43	19.37	19.52	20.1
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	19.55	19.47	19.46	20.1
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	19.51	19.42	19.52	20.1
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	19.49	19.49	19.49	20.1
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	19.48	19.54	19.40	20.1



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		21.32		21.8
100	PI/2 BPSK	1	137		20.96		
100	PI/2 BPSK	1	271		21.31		
100	PI/2 BPSK	135	0		21.00		21.8
100	PI/2 BPSK	135	69		21.09		21.8
100	PI/2 BPSK	135	138		21.01		21.8
100	PI/2 BPSK	270	0		21.05		
100	QPSK	1	1		21.24		21.8
100	QPSK	1	137		20.95		
100	QPSK	1	271		21.26		
100	QPSK	135	0		20.98		21.8
100	QPSK	135	69		21.04		21.8
100	QPSK	135	138		21.00		21.8
100	QPSK	270	0		21.00		
100	16QAM	1	1		21.30		21.8
100	64QAM	1	1		21.16		21.8
100	256QAM	1	1		19.68		20.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	21.18	21.25	21.21	21.8
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	21.14	21.18	21.15	21.8
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.30	21.26	21.23	21.8
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	21.20	21.13	21.31	21.8
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	21.21	21.30	21.22	21.8
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	21.21	21.23	21.17	21.8
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	21.29	21.26	21.29	21.8
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	21.30	21.12	21.28	21.8
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	21.18	21.24	21.20	21.8
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	21.14	21.22	21.22	21.8
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	21.31	21.22	21.21	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		26.74		27.0
100	PI/2 BPSK	1	137		26.49		
100	PI/2 BPSK	1	271		26.85		
100	PI/2 BPSK	135	0		26.04		26.5
100	PI/2 BPSK	135	69		26.51		27.0
100	PI/2 BPSK	135	138		25.96		26.5
100	PI/2 BPSK	270	0		26.09		
100	QPSK	1	1		26.68		27.0
100	QPSK	1	137		26.40		
100	QPSK	1	271		26.76		
100	QPSK	135	0		25.56		26.0
100	QPSK	135	69		26.53		27.0
100	QPSK	135	138		25.48		26.0
100	QPSK	270	0		25.57		
100	16QAM	1	1		25.67		26.0
100	64QAM	1	1		24.05		24.5
100	256QAM	1	1		22.10		22.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	26.44	26.44	26.54	27.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	26.31	26.29	26.42	27.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	26.31	26.31	26.39	27.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	26.30	26.27	26.36	27.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	26.29	26.24	26.41	27.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	26.32	26.25	26.38	27.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	26.34	26.30	26.39	27.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	26.33	26.32	26.37	27.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	26.34	26.30	26.41	27.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	26.32	26.30	26.38	27.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	26.30	26.25	26.36	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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		18.85		19.7
100	PI/2 BPSK	1	137		18.46		
100	PI/2 BPSK	1	271		18.81		
100	PI/2 BPSK	135	0		18.50		19.7
100	PI/2 BPSK	135	69		18.50		19.7
100	PI/2 BPSK	135	138		18.47		19.7
100	PI/2 BPSK	270	0		18.56		
100	QPSK	1	1		18.63		19.7
100	QPSK	1	137		18.39		
100	QPSK	1	271		18.76		
100	QPSK	135	0		18.49		19.7
100	QPSK	135	69		18.49		19.7
100	QPSK	135	138		18.47		19.7
100	QPSK	270	0		18.55		
100	16QAM	1	1		18.60		19.7
100	64QAM	1	1		18.53		19.7
100	256QAM	1	1		18.58		19.7
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	18.70	18.77	18.79	19.7
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	18.77	18.65	18.78	19.7
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	18.73	18.66	18.75	19.7
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	18.74	18.64	18.77	19.7
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	18.77	18.73	18.60	19.7
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	18.65	18.71	18.62	19.7
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	18.60	18.80	18.73	19.7
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	18.65	18.61	18.80	19.7
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	18.74	18.74	18.72	19.7
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	18.63	18.75	18.77	19.7
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	18.65	18.78	18.60	19.7



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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		26.58		27.0
100	PI/2 BPSK	1	137		26.34		
100	PI/2 BPSK	1	271		26.54		
100	PI/2 BPSK	135	0		25.95		26.5
100	PI/2 BPSK	135	69		26.39		27.0
100	PI/2 BPSK	135	138		25.95		26.5
100	PI/2 BPSK	270	0		25.95		
100	QPSK	1	1		26.54		27.0
100	QPSK	1	137		26.29		
100	QPSK	1	271		26.48		
100	QPSK	135	0		25.46		26.0
100	QPSK	135	69		26.39		27.0
100	QPSK	135	138		25.46		26.0
100	QPSK	270	0		25.44		
100	16QAM	1	1		25.50		26.0
100	64QAM	1	1		23.90		24.5
100	256QAM	1	1		21.96		22.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	26.53	26.49	26.55	27.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	26.58	26.49	26.57	27.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	26.55	26.57	26.55	27.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	26.45	26.46	26.40	27.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	26.56	26.45	26.45	27.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	26.57	26.55	26.54	27.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	26.53	26.44	26.52	27.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	26.47	26.55	26.46	27.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	26.53	26.54	26.56	27.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	26.45	26.38	26.53	27.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	26.52	26.52	26.46	27.0



<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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		26.36		27.0
100	PI/2 BPSK	1	137		26.05		
100	PI/2 BPSK	1	271		26.30		
100	PI/2 BPSK	135	0		25.69		26.5
100	PI/2 BPSK	135	69		26.08		27.0
100	PI/2 BPSK	135	138		25.58		26.5
100	PI/2 BPSK	270	0		25.64		
100	QPSK	1	1		26.32		27.0
100	QPSK	1	137		25.98		
100	QPSK	1	271		26.32		
100	QPSK	135	0		25.19		26.0
100	QPSK	135	69		26.07		27.0
100	QPSK	135	138		25.11		26.0
100	QPSK	270	0		25.14		
100	16QAM	1	1		25.28		26.0
100	64QAM	1	1		23.71		24.5
100	256QAM	1	1		21.75		22.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	26.16	26.17	26.24	27.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	25.97	26.01	26.09	27.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	26.04	25.98	26.13	27.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	26.05	25.98	26.08	27.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	25.99	26.03	26.14	27.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	26.02	26.01	26.13	27.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	26.05	25.97	26.14	27.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	26.00	26.06	26.14	27.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	26.01	26.01	26.09	27.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	25.98	25.97	26.08	27.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	25.96	26.02	26.12	27.0



<FR1 n78_HPUE_Ant 6_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		26.74		
100	PI/2 BPSK	1	137		26.49		27.0
100	PI/2 BPSK	1	271		26.85		
100	PI/2 BPSK	135	0		26.04		
100	PI/2 BPSK	135	69		26.51		26.5
100	PI/2 BPSK	135	138		25.96		27.0
100	PI/2 BPSK	270	0		26.09		26.5
100	QPSK	1	1		26.68		
100	QPSK	1	137		26.40		
100	QPSK	1	271		26.76		27.0
100	QPSK	135	0		25.56		
100	QPSK	135	69		26.53		
100	QPSK	135	138		25.48		26.0
100	QPSK	270	0		25.57		
100	16QAM	1	1		25.67		
100	64QAM	1	1		24.05		26.0
100	256QAM	1	1		22.10		24.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	26.44	26.44	26.54	
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	26.31	26.29	26.42	
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	26.31	26.31	26.39	
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	26.30	26.27	26.36	
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	26.29	26.24	26.41	
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	26.32	26.25	26.38	
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	26.34	26.30	26.39	
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	26.33	26.32	26.37	
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	26.34	26.30	26.41	
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	26.32	26.30	26.38	
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	26.30	26.25	26.36	



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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		18.85		19.0
100	PI/2 BPSK	1	137		18.46		
100	PI/2 BPSK	1	271		18.81		
100	PI/2 BPSK	135	0		18.50		19.0
100	PI/2 BPSK	135	69		18.50		19.0
100	PI/2 BPSK	135	138		18.47		19.0
100	PI/2 BPSK	270	0		18.56		
100	QPSK	1	1		18.63		19.0
100	QPSK	1	137		18.39		
100	QPSK	1	271		18.76		
100	QPSK	135	0		18.49		19.0
100	QPSK	135	69		18.49		19.0
100	QPSK	135	138		18.47		19.0
100	QPSK	270	0		18.55		
100	16QAM	1	1		18.60		19.0
100	64QAM	1	1		18.53		19.0
100	256QAM	1	1		18.58		19.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	18.70	18.77	18.79	19.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	18.77	18.65	18.78	19.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	18.73	18.66	18.75	19.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	18.74	18.64	18.77	19.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	18.77	18.73	18.60	19.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	18.65	18.71	18.62	19.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	18.60	18.80	18.73	19.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	18.65	18.61	18.80	19.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	18.74	18.74	18.72	19.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	18.63	18.75	18.77	19.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	18.65	18.78	18.60	19.0



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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		26.58		27.0
100	PI/2 BPSK	1	137		26.34		
100	PI/2 BPSK	1	271		26.54		
100	PI/2 BPSK	135	0		25.95		26.5
100	PI/2 BPSK	135	69		26.39		27.0
100	PI/2 BPSK	135	138		25.95		26.5
100	PI/2 BPSK	270	0		25.95		
100	QPSK	1	1		26.54		27.0
100	QPSK	1	137		26.29		
100	QPSK	1	271		26.48		
100	QPSK	135	0		25.46		26.0
100	QPSK	135	69		26.39		27.0
100	QPSK	135	138		25.46		26.0
100	QPSK	270	0		25.44		
100	16QAM	1	1		25.50		26.0
100	64QAM	1	1		23.90		24.5
100	256QAM	1	1		21.96		22.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	26.53	26.49	26.55	27.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	26.58	26.49	26.57	27.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	26.55	26.57	26.55	27.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	26.45	26.46	26.40	27.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	26.56	26.45	26.45	27.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	26.57	26.55	26.54	27.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	26.53	26.44	26.52	27.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	26.47	26.55	26.46	27.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	26.53	26.54	26.56	27.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	26.45	26.38	26.53	27.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	26.52	26.52	26.46	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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		26.36		27.0
100	PI/2 BPSK	1	137		26.05		
100	PI/2 BPSK	1	271		26.30		
100	PI/2 BPSK	135	0		25.69		26.5
100	PI/2 BPSK	135	69		26.08		27.0
100	PI/2 BPSK	135	138		25.58		26.5
100	PI/2 BPSK	270	0		25.64		
100	QPSK	1	1		26.32		27.0
100	QPSK	1	137		25.98		
100	QPSK	1	271		26.32		
100	QPSK	135	0		25.19		26.0
100	QPSK	135	69		26.07		27.0
100	QPSK	135	138		25.11		26.0
100	QPSK	270	0		25.14		
100	16QAM	1	1		25.28		26.0
100	64QAM	1	1		23.71		24.5
100	256QAM	1	1		21.75		22.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	26.16	26.17	26.24	27.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	25.97	26.01	26.09	27.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	26.04	25.98	26.13	27.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	26.05	25.98	26.08	27.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	25.99	26.03	26.14	27.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	26.02	26.01	26.13	27.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	26.05	25.97	26.14	27.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	26.00	26.06	26.14	27.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	26.01	26.01	26.09	27.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	25.98	25.97	26.08	27.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	25.96	26.02	26.12	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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		24.55		24.6
100	PI/2 BPSK	1	137		24.49		
100	PI/2 BPSK	1	271		24.52		
100	PI/2 BPSK	135	0		24.48		24.6
100	PI/2 BPSK	135	69		24.45		24.6
100	PI/2 BPSK	135	138		24.49		24.6
100	PI/2 BPSK	270	0		24.49		
100	QPSK	1	1		24.45		24.6
100	QPSK	1	137		24.40		
100	QPSK	1	271		24.53		
100	QPSK	135	0		24.47		24.6
100	QPSK	135	69		24.44		24.6
100	QPSK	135	138		24.47		24.6
100	QPSK	270	0		24.48		
100	16QAM	1	1		24.46		24.6
100	64QAM	1	1		24.08		24.5
100	256QAM	1	1		22.12		22.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.50	24.50	24.47	24.6
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.49	24.54	24.48	24.6
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.50	24.51	24.47	24.6
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.53	24.54	24.51	24.6
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.52	24.52	24.49	24.6
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.49	24.50	24.51	24.6
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.52	24.52	24.52	24.6
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.50	24.54	24.51	24.6
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.52	24.52	24.47	24.6
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.52	24.54	24.51	24.6
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.52	24.54	24.46	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		23.70		24.5
100	PI/2 BPSK	1	137		23.34		
100	PI/2 BPSK	1	271		23.69		
100	PI/2 BPSK	135	0		23.38		24.5
100	PI/2 BPSK	135	69		23.32		24.5
100	PI/2 BPSK	135	138		23.36		24.5
100	PI/2 BPSK	270	0		23.43		
100	QPSK	1	1		23.48		24.5
100	QPSK	1	137		23.22		
100	QPSK	1	271		23.63		
100	QPSK	135	0		23.37		24.5
100	QPSK	135	69		23.36		24.5
100	QPSK	135	138		23.33		24.5
100	QPSK	270	0		23.43		
100	16QAM	1	1		23.41		24.5
100	64QAM	1	1		22.89		23.5
100	256QAM	1	1		20.94		21.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	23.68	23.68	23.62	24.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	23.66	23.68	23.67	24.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.69	23.68	23.61	24.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	23.65	23.63	23.62	24.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	23.66	23.67	23.63	24.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.67	23.69	23.67	24.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	23.64	23.69	23.66	24.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	23.64	23.64	23.61	24.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	23.64	23.67	23.61	24.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	23.69	23.62	23.63	24.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	23.66	23.67	23.61	24.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		22.74		23.2
100	PI/2 BPSK	1	137		22.33		
100	PI/2 BPSK	1	271		22.58		
100	PI/2 BPSK	135	0		22.47		23.2
100	PI/2 BPSK	135	69		22.40		23.2
100	PI/2 BPSK	135	138		22.45		23.2
100	PI/2 BPSK	270	0		22.46		
100	QPSK	1	1		22.62		23.2
100	QPSK	1	137		22.26		
100	QPSK	1	271		22.52		
100	QPSK	135	0		22.46		23.2
100	QPSK	135	69		22.38		23.2
100	QPSK	135	138		22.45		23.2
100	QPSK	270	0		22.45		
100	16QAM	1	1		22.51		23.2
100	64QAM	1	1		22.43		23.2
100	256QAM	1	1		21.98		22.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	22.55	22.54	22.61	23.2
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	22.42	22.34	22.51	23.2
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	22.41	22.35	22.42	23.2
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	22.45	22.39	22.49	23.2
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	22.42	22.42	22.43	23.2
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	22.44	22.39	22.41	23.2
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	22.41	22.40	22.46	23.2
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	22.41	22.39	22.41	23.2
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	22.44	22.41	22.42	23.2
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	22.43	22.35	22.41	23.2
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	22.45	22.40	22.48	23.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		26.36		27.0
100	PI/2 BPSK	1	137		26.05		
100	PI/2 BPSK	1	271		26.30		
100	PI/2 BPSK	135	0		25.69		26.5
100	PI/2 BPSK	135	69		26.08		27.0
100	PI/2 BPSK	135	138		25.58		26.5
100	PI/2 BPSK	270	0		25.64		
100	QPSK	1	1		26.32		27.0
100	QPSK	1	137		25.98		
100	QPSK	1	271		26.32		
100	QPSK	135	0		25.19		26.0
100	QPSK	135	69		26.07		27.0
100	QPSK	135	138		25.11		26.0
100	QPSK	270	0		25.14		
100	16QAM	1	1		25.28		26.0
100	64QAM	1	1		23.71		24.5
100	256QAM	1	1		21.75		22.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	26.16	26.17	26.24	27.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	25.97	26.01	26.09	27.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	26.04	25.98	26.13	27.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	26.05	25.98	26.08	27.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	25.99	26.03	26.14	27.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	26.02	26.01	26.13	27.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	26.05	25.97	26.14	27.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	26.00	26.06	26.14	27.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	26.01	26.01	26.09	27.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	25.98	25.97	26.08	27.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	25.96	26.02	26.12	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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		24.55		25.3
100	PI/2 BPSK	1	137		24.49		
100	PI/2 BPSK	1	271		24.52		
100	PI/2 BPSK	135	0		24.48		25.3
100	PI/2 BPSK	135	69		24.45		25.3
100	PI/2 BPSK	135	138		24.49		25.3
100	PI/2 BPSK	270	0		24.49		
100	QPSK	1	1		24.45		25.3
100	QPSK	1	137		24.40		
100	QPSK	1	271		24.53		
100	QPSK	135	0		24.47		25.3
100	QPSK	135	69		24.44		25.3
100	QPSK	135	138		24.47		25.3
100	QPSK	270	0		24.48		
100	16QAM	1	1		24.46		25.3
100	64QAM	1	1		24.08		24.5
100	256QAM	1	1		22.12		22.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.50	24.50	24.47	25.3
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.49	24.54	24.48	25.3
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.50	24.51	24.47	25.3
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.53	24.54	24.51	25.3
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.52	24.52	24.49	25.3
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.49	24.50	24.51	25.3
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.52	24.52	24.52	25.3
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.50	24.54	24.51	25.3
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.52	24.52	24.47	25.3
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.52	24.54	24.51	25.3
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.52	24.54	24.46	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		23.70		25.2
100	PI/2 BPSK	1	137		23.34		
100	PI/2 BPSK	1	271		23.69		
100	PI/2 BPSK	135	0		23.38		25.2
100	PI/2 BPSK	135	69		23.32		25.2
100	PI/2 BPSK	135	138		23.36		25.2
100	PI/2 BPSK	270	0		23.43		
100	QPSK	1	1		23.48		25.2
100	QPSK	1	137		23.22		
100	QPSK	1	271		23.63		
100	QPSK	135	0		23.37		25.0
100	QPSK	135	69		23.36		25.2
100	QPSK	135	138		23.33		25.0
100	QPSK	270	0		23.43		
100	16QAM	1	1		23.41		25.0
100	64QAM	1	1		22.89		23.5
100	256QAM	1	1		20.94		21.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	23.68	23.68	23.62	25.2
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	23.66	23.68	23.67	25.2
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.69	23.68	23.61	25.2
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	23.65	23.63	23.62	25.2
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	23.66	23.67	23.63	25.2
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.67	23.69	23.67	25.2
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	23.64	23.69	23.66	25.2
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	23.64	23.64	23.61	25.2
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	23.64	23.67	23.61	25.2
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	23.69	23.62	23.63	25.2
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	23.66	23.67	23.61	25.2



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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		22.74		23.9
100	PI/2 BPSK	1	137		22.33		
100	PI/2 BPSK	1	271		22.58		
100	PI/2 BPSK	135	0		22.47		23.9
100	PI/2 BPSK	135	69		22.40		23.9
100	PI/2 BPSK	135	138		22.45		23.9
100	PI/2 BPSK	270	0		22.46		
100	QPSK	1	1		22.62		23.9
100	QPSK	1	137		22.26		
100	QPSK	1	271		22.52		
100	QPSK	135	0		22.46		23.9
100	QPSK	135	69		22.38		23.9
100	QPSK	135	138		22.45		23.9
100	QPSK	270	0		22.45		
100	16QAM	1	1		22.51		23.9
100	64QAM	1	1		22.43		23.9
100	256QAM	1	1		21.98		22.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	22.55	22.54	22.61	23.9
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	22.42	22.34	22.51	23.9
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	22.41	22.35	22.42	23.9
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	22.45	22.39	22.49	23.9
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	22.42	22.42	22.43	23.9
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	22.44	22.39	22.41	23.9
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	22.41	22.40	22.46	23.9
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	22.41	22.39	22.41	23.9
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	22.44	22.41	22.42	23.9
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	22.43	22.35	22.41	23.9
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	22.45	22.40	22.48	23.9



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		26.36		27.0
100	PI/2 BPSK	1	137		26.05		
100	PI/2 BPSK	1	271		26.30		
100	PI/2 BPSK	135	0		25.69		26.5
100	PI/2 BPSK	135	69		26.08		27.0
100	PI/2 BPSK	135	138		25.58		26.5
100	PI/2 BPSK	270	0		25.64		
100	QPSK	1	1		26.32		27.0
100	QPSK	1	137		25.98		
100	QPSK	1	271		26.32		
100	QPSK	135	0		25.19		26.0
100	QPSK	135	69		26.07		27.0
100	QPSK	135	138		25.11		26.0
100	QPSK	270	0		25.14		
100	16QAM	1	1		25.28		26.0
100	64QAM	1	1		23.71		24.5
100	256QAM	1	1		21.75		22.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	26.16	26.17	26.24	27.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	25.97	26.01	26.09	27.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	26.04	25.98	26.13	27.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	26.05	25.98	26.08	27.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	25.99	26.03	26.14	27.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	26.02	26.01	26.13	27.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	26.05	25.97	26.14	27.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	26.00	26.06	26.14	27.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	26.01	26.01	26.09	27.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	25.98	25.97	26.08	27.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	25.96	26.02	26.12	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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		24.55		24.6
100	PI/2 BPSK	1	137		24.49		
100	PI/2 BPSK	1	271		24.52		
100	PI/2 BPSK	135	0		24.48		24.6
100	PI/2 BPSK	135	69		24.45		24.6
100	PI/2 BPSK	135	138		24.49		24.6
100	PI/2 BPSK	270	0		24.49		
100	QPSK	1	1		24.45		24.6
100	QPSK	1	137		24.40		
100	QPSK	1	271		24.53		
100	QPSK	135	0		24.47		24.6
100	QPSK	135	69		24.44		24.6
100	QPSK	135	138		24.47		24.6
100	QPSK	270	0		24.48		
100	16QAM	1	1		24.46		24.6
100	64QAM	1	1		24.08		24.5
100	256QAM	1	1		22.12		22.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.50	24.50	24.47	24.6
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.49	24.54	24.48	24.6
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.50	24.51	24.47	24.6
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.53	24.54	24.51	24.6
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.52	24.52	24.49	24.6
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.49	24.50	24.51	24.6
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.52	24.52	24.52	24.6
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.50	24.54	24.51	24.6
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.52	24.52	24.47	24.6
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.52	24.54	24.51	24.6
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.52	24.54	24.46	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		23.70		24.5
100	PI/2 BPSK	1	137		23.34		
100	PI/2 BPSK	1	271		23.69		
100	PI/2 BPSK	135	0		23.38		24.5
100	PI/2 BPSK	135	69		23.32		24.5
100	PI/2 BPSK	135	138		23.36		24.5
100	PI/2 BPSK	270	0		23.43		
100	QPSK	1	1		23.48		24.5
100	QPSK	1	137		23.22		
100	QPSK	1	271		23.63		
100	QPSK	135	0		23.37		24.5
100	QPSK	135	69		23.36		24.5
100	QPSK	135	138		23.33		24.5
100	QPSK	270	0		23.43		
100	16QAM	1	1		23.41		24.5
100	64QAM	1	1		22.89		23.5
100	256QAM	1	1		20.94		21.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	23.68	23.68	23.62	24.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	23.66	23.68	23.67	24.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.69	23.68	23.61	24.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	23.65	23.63	23.62	24.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	23.66	23.67	23.63	24.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.67	23.69	23.67	24.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	23.64	23.69	23.66	24.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	23.64	23.64	23.61	24.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	23.64	23.67	23.61	24.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	23.69	23.62	23.63	24.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	23.66	23.67	23.61	24.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		22.74		23.2
100	PI/2 BPSK	1	137		22.33		
100	PI/2 BPSK	1	271		22.58		
100	PI/2 BPSK	135	0		22.47		23.2
100	PI/2 BPSK	135	69		22.40		23.2
100	PI/2 BPSK	135	138		22.45		23.2
100	PI/2 BPSK	270	0		22.46		
100	QPSK	1	1		22.62		23.2
100	QPSK	1	137		22.26		
100	QPSK	1	271		22.52		
100	QPSK	135	0		22.46		23.2
100	QPSK	135	69		22.38		23.2
100	QPSK	135	138		22.45		23.2
100	QPSK	270	0		22.45		
100	16QAM	1	1		22.51		23.2
100	64QAM	1	1		22.43		23.2
100	256QAM	1	1		21.98		22.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	22.55	22.54	22.61	23.2
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	22.42	22.34	22.51	23.2
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	22.41	22.35	22.42	23.2
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	22.45	22.39	22.49	23.2
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	22.42	22.42	22.43	23.2
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	22.44	22.39	22.41	23.2
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	22.41	22.40	22.46	23.2
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	22.41	22.39	22.41	23.2
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	22.44	22.41	22.42	23.2
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	22.43	22.35	22.41	23.2
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	22.45	22.40	22.48	23.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		26.36		27.0
100	PI/2 BPSK	1	137		26.05		
100	PI/2 BPSK	1	271		26.30		
100	PI/2 BPSK	135	0		25.69		26.5
100	PI/2 BPSK	135	69		26.08		27.0
100	PI/2 BPSK	135	138		25.58		26.5
100	PI/2 BPSK	270	0		25.64		
100	QPSK	1	1		26.32		27.0
100	QPSK	1	137		25.98		
100	QPSK	1	271		26.32		
100	QPSK	135	0		25.19		26.0
100	QPSK	135	69		26.07		27.0
100	QPSK	135	138		25.11		26.0
100	QPSK	270	0		25.14		
100	16QAM	1	1		25.28		26.0
100	64QAM	1	1		23.71		24.5
100	256QAM	1	1		21.75		22.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	26.16	26.17	26.24	27.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	25.97	26.01	26.09	27.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	26.04	25.98	26.13	27.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	26.05	25.98	26.08	27.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	25.99	26.03	26.14	27.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	26.02	26.01	26.13	27.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	26.05	25.97	26.14	27.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	26.00	26.06	26.14	27.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	26.01	26.01	26.09	27.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	25.98	25.97	26.08	27.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	25.96	26.02	26.12	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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		26.74		27.0
100	PI/2 BPSK	1	137		26.49		
100	PI/2 BPSK	1	271		26.85		
100	PI/2 BPSK	135	0		26.04		26.5
100	PI/2 BPSK	135	69		26.51		27.0
100	PI/2 BPSK	135	138		25.96		26.5
100	PI/2 BPSK	270	0		26.09		
100	QPSK	1	1		26.68		27.0
100	QPSK	1	137		26.40		
100	QPSK	1	271		26.76		
100	QPSK	135	0		25.56		26.0
100	QPSK	135	69		26.53		27.0
100	QPSK	135	138		25.48		26.0
100	QPSK	270	0		25.57		
100	16QAM	1	1		25.67		26.0
100	64QAM	1	1		24.05		24.5
100	256QAM	1	1		22.10		22.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	26.66	26.58	26.70	27.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	26.71	26.56	26.59	27.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	26.64	26.58	26.69	27.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	26.60	26.66	26.71	27.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	26.55	26.61	26.62	27.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	26.60	26.70	26.60	27.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	26.60	26.63	26.62	27.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	26.58	26.74	26.65	27.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	26.58	26.56	26.57	27.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	26.64	26.65	26.60	27.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	26.58	26.67	26.58	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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		17.51		17.7
100	PI/2 BPSK	1	137		17.35		
100	PI/2 BPSK	1	271		17.43		
100	PI/2 BPSK	135	0		17.33		17.7
100	PI/2 BPSK	135	69		17.44		17.7
100	PI/2 BPSK	135	138		17.44		17.7
100	PI/2 BPSK	270	0		17.32		
100	QPSK	1	1		17.48		17.7
100	QPSK	1	137		17.41		
100	QPSK	1	271		17.34		
100	QPSK	135	0		17.45		17.7
100	QPSK	135	69		17.49		17.7
100	QPSK	135	138		17.32		17.7
100	QPSK	270	0		17.43		
100	16QAM	1	1		17.45		17.7
100	64QAM	1	1		17.46		17.7
100	256QAM	1	1		17.39		17.7
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	17.42	17.43	17.46	17.7
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	17.38	17.48	17.48	17.7
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	17.32	17.38	17.48	17.7
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	17.36	17.35	17.34	17.7
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	17.35	17.45	17.35	17.7
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	17.48	17.50	17.36	17.7
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	17.41	17.41	17.42	17.7
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	17.46	17.47	17.48	17.7
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	17.45	17.40	17.31	17.7
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	17.35	17.49	17.48	17.7
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	17.45	17.36	17.49	17.7



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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		26.58		27.0
100	PI/2 BPSK	1	137		26.34		
100	PI/2 BPSK	1	271		26.54		
100	PI/2 BPSK	135	0		25.95		26.5
100	PI/2 BPSK	135	69		26.39		27.0
100	PI/2 BPSK	135	138		25.95		26.5
100	PI/2 BPSK	270	0		25.95		
100	QPSK	1	1		26.54		27.0
100	QPSK	1	137		26.29		
100	QPSK	1	271		26.48		
100	QPSK	135	0		25.46		26.0
100	QPSK	135	69		26.39		27.0
100	QPSK	135	138		25.46		26.0
100	QPSK	270	0		25.44		
100	16QAM	1	1		25.50		26.0
100	64QAM	1	1		23.90		24.5
100	256QAM	1	1		21.96		22.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	26.56	26.40	26.42	27.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	26.48	26.57	26.42	27.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	26.57	26.52	26.44	27.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	26.39	26.51	26.39	27.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	26.46	26.55	26.54	27.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	26.53	26.53	26.41	27.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	26.55	26.49	26.46	27.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	26.38	26.52	26.47	27.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	26.57	26.47	26.57	27.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	26.55	26.40	26.41	27.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	26.55	26.42	26.39	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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		23.32		
100	PI/2 BPSK	1	137		23.07		24.0
100	PI/2 BPSK	1	271		23.30		
100	PI/2 BPSK	135	0		23.09		
100	PI/2 BPSK	135	69		23.21		24.0
100	PI/2 BPSK	135	138		23.17		24.0
100	PI/2 BPSK	270	0		23.16		
100	QPSK	1	1		23.26		
100	QPSK	1	137		22.99		24.0
100	QPSK	1	271		23.24		
100	QPSK	135	0		23.06		
100	QPSK	135	69		23.19		24.0
100	QPSK	135	138		23.02		24.0
100	QPSK	270	0		22.98		
100	16QAM	1	1		23.30		
100	64QAM	1	1		23.15		24.0
100	256QAM	1	1		21.70		22.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	23.29	23.16	23.24	
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	23.28	23.30	23.25	
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.31	23.28	23.29	
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	23.16	23.18	23.29	
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	23.18	23.14	23.13	
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.23	23.27	23.30	
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	23.21	23.30	23.18	
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	23.20	23.14	23.25	
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	23.14	23.21	23.14	
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	23.16	23.21	23.31	
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	23.25	23.31	23.15	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		22.71		23.2
100	PI/2 BPSK	1	137		22.47		
100	PI/2 BPSK	1	271		22.66		
100	PI/2 BPSK	135	0		22.51		23.2
100	PI/2 BPSK	135	69		22.53		23.2
100	PI/2 BPSK	135	138		22.50		23.2
100	PI/2 BPSK	270	0		22.48		
100	QPSK	1	1		22.65		23.2
100	QPSK	1	137		22.45		
100	QPSK	1	271		22.65		
100	QPSK	135	0		22.47		23.2
100	QPSK	135	69		22.46		23.2
100	QPSK	135	138		22.41		23.2
100	QPSK	270	0		22.44		
100	16QAM	1	1		22.50		23.2
100	64QAM	1	1		22.46		23.2
100	256QAM	1	1		22.10		22.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	22.68	22.62	22.59	23.2
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	22.70	22.61	22.52	23.2
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	22.54	22.70	22.66	23.2
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	22.56	22.58	22.53	23.2
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	22.57	22.59	22.54	23.2
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	22.62	22.59	22.67	23.2
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	22.63	22.68	22.70	23.2
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	22.65	22.68	22.63	23.2
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	22.57	22.58	22.60	23.2
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	22.63	22.64	22.57	23.2
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	22.55	22.70	22.59	23.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		23.60		23.8
100	PI/2 BPSK	1	137		23.37		
100	PI/2 BPSK	1	271		23.50		
100	PI/2 BPSK	135	0		23.40		23.8
100	PI/2 BPSK	135	69		23.48		23.8
100	PI/2 BPSK	135	138		23.46		23.8
100	PI/2 BPSK	270	0		23.42		
100	QPSK	1	1		23.54		23.8
100	QPSK	1	137		23.35		
100	QPSK	1	271		23.49		
100	QPSK	135	0		23.40		23.8
100	QPSK	135	69		23.42		23.8
100	QPSK	135	138		23.40		23.8
100	QPSK	270	0		23.34		
100	16QAM	1	1		23.38		23.8
100	64QAM	1	1		23.00		23.5
100	256QAM	1	1		21.01		21.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	23.46	23.50	23.53	23.8
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	23.43	23.55	23.47	23.8
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.48	23.45	23.50	23.8
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	23.56	23.59	23.53	23.8
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	23.44	23.44	23.54	23.8
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.43	23.51	23.42	23.8
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	23.40	23.41	23.41	23.8
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	23.42	23.53	23.54	23.8
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	23.49	23.42	23.57	23.8
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	23.52	23.56	23.55	23.8
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	23.50	23.48	23.42	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		22.28		23.1
100	PI/2 BPSK	1	137		22.06		
100	PI/2 BPSK	1	271		22.23		
100	PI/2 BPSK	135	0		22.10		23.1
100	PI/2 BPSK	135	69		22.11		23.1
100	PI/2 BPSK	135	138		22.08		23.1
100	PI/2 BPSK	270	0		22.17		
100	QPSK	1	1		22.27		23.1
100	QPSK	1	137		22.03		
100	QPSK	1	271		22.21		
100	QPSK	135	0		22.01		23.1
100	QPSK	135	69		22.04		23.1
100	QPSK	135	138		22.23		23.1
100	QPSK	270	0		22.09		
100	16QAM	1	1		22.20		23.1
100	64QAM	1	1		22.09		23.1
100	256QAM	1	1		21.64		22.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	22.18	22.13	22.20	23.1
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	22.25	22.16	22.14	23.1
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	22.11	22.10	22.24	23.1
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	22.13	22.08	22.14	23.1
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	22.11	22.22	22.27	23.1
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	22.21	22.16	22.26	23.1
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	22.17	22.26	22.09	23.1
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	22.10	22.09	22.12	23.1
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	22.10	22.22	22.13	23.1
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	22.12	22.11	22.12	23.1
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	22.18	22.24	22.10	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		24.35		24.8
100	PI/2 BPSK	1	137		24.01		
100	PI/2 BPSK	1	271		24.34		
100	PI/2 BPSK	135	0		24.04		24.8
100	PI/2 BPSK	135	69		24.14		24.8
100	PI/2 BPSK	135	138		24.07		24.8
100	PI/2 BPSK	270	0		24.11		
100	QPSK	1	1		24.26		24.8
100	QPSK	1	137		24.00		
100	QPSK	1	271		24.28		
100	QPSK	135	0		24.04		24.8
100	QPSK	135	69		24.11		24.8
100	QPSK	135	138		24.03		24.8
100	QPSK	270	0		24.06		
100	16QAM	1	1		24.23		24.8
100	64QAM	1	1		23.65		24.5
100	256QAM	1	1		21.70		22.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.19	24.23	24.30	24.8
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.19	24.27	24.31	24.8
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.30	24.31	24.33	24.8
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.16	24.20	24.15	24.8
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.19	24.18	24.23	24.8
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.25	24.24	24.16	24.8
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.30	24.22	24.33	24.8
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.28	24.28	24.31	24.8
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.26	24.23	24.27	24.8
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.24	24.25	24.17	24.8
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.24	24.15	24.21	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					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		22.71		23.9
100	PI/2 BPSK	1	137		22.47		
100	PI/2 BPSK	1	271		22.66		
100	PI/2 BPSK	135	0		22.51		23.9
100	PI/2 BPSK	135	69		22.53		23.9
100	PI/2 BPSK	135	138		22.50		23.9
100	PI/2 BPSK	270	0		22.48		
100	QPSK	1	1		22.65		23.9
100	QPSK	1	137		22.45		
100	QPSK	1	271		22.65		
100	QPSK	135	0		22.47		23.9
100	QPSK	135	69		22.46		23.9
100	QPSK	135	138		22.41		23.9
100	QPSK	270	0		22.44		
100	16QAM	1	1		22.50		23.9
100	64QAM	1	1		22.46		23.9
100	256QAM	1	1		22.10		22.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	22.68	22.62	22.59	23.9
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	22.70	22.61	22.52	23.9
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	22.54	22.70	22.66	23.9
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	22.56	22.58	22.53	23.9
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	22.57	22.59	22.54	23.9
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	22.62	22.59	22.67	23.9
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	22.63	22.68	22.70	23.9
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	22.65	22.68	22.63	23.9
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	22.57	22.58	22.60	23.9
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	22.63	22.64	22.57	23.9
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	22.55	22.70	22.59	23.9



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		23.60		25.1
100	PI/2 BPSK	1	137		23.37		
100	PI/2 BPSK	1	271		23.50		
100	PI/2 BPSK	135	0		23.40		25.1
100	PI/2 BPSK	135	69		23.48		25.1
100	PI/2 BPSK	135	138		23.46		25.1
100	PI/2 BPSK	270	0		23.42		
100	QPSK	1	1		23.54		25.1
100	QPSK	1	137		23.35		
100	QPSK	1	271		23.49		
100	QPSK	135	0		23.40		25.0
100	QPSK	135	69		23.42		25.1
100	QPSK	135	138		23.40		25.0
100	QPSK	270	0		23.34		
100	16QAM	1	1		23.38		25.0
100	64QAM	1	1		23.00		23.5
100	256QAM	1	1		21.01		21.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	23.46	23.50	23.53	25.1
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	23.43	23.55	23.47	25.1
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.48	23.45	23.50	25.1
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	23.56	23.59	23.53	25.1
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	23.44	23.44	23.54	25.1
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.43	23.51	23.42	25.1
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	23.40	23.41	23.41	25.1
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	23.42	23.53	23.54	25.1
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	23.49	23.42	23.57	25.1
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	23.52	23.56	23.55	25.1
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	23.50	23.48	23.42	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		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		22.28		23.8
100	PI/2 BPSK	1	137		22.06		
100	PI/2 BPSK	1	271		22.23		
100	PI/2 BPSK	135	0		22.10		23.8
100	PI/2 BPSK	135	69		22.11		23.8
100	PI/2 BPSK	135	138		22.08		23.8
100	PI/2 BPSK	270	0		22.17		
100	QPSK	1	1		22.27		23.8
100	QPSK	1	137		22.03		
100	QPSK	1	271		22.21		
100	QPSK	135	0		22.01		23.8
100	QPSK	135	69		22.04		23.8
100	QPSK	135	138		22.23		23.8
100	QPSK	270	0		22.09		
100	16QAM	1	1		22.20		23.8
100	64QAM	1	1		22.09		23.8
100	256QAM	1	1		21.64		22.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	22.18	22.13	22.20	23.8
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	22.25	22.16	22.14	23.8
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	22.11	22.10	22.24	23.8
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	22.13	22.08	22.14	23.8
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	22.11	22.22	22.27	23.8
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	22.21	22.16	22.26	23.8
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	22.17	22.26	22.09	23.8
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	22.10	22.09	22.12	23.8
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	22.10	22.22	22.13	23.8
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	22.12	22.11	22.12	23.8
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	22.18	22.24	22.10	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		24.35		25.5
100	PI/2 BPSK	1	137		24.01		
100	PI/2 BPSK	1	271		24.34		
100	PI/2 BPSK	135	0		24.04		25.5
100	PI/2 BPSK	135	69		24.14		25.5
100	PI/2 BPSK	135	138		24.07		25.5
100	PI/2 BPSK	270	0		24.11		
100	QPSK	1	1		24.26		25.5
100	QPSK	1	137		24.00		
100	QPSK	1	271		24.28		
100	QPSK	135	0		24.04		25.5
100	QPSK	135	69		24.11		25.5
100	QPSK	135	138		24.03		25.5
100	QPSK	270	0		24.06		
100	16QAM	1	1		24.23		25.5
100	64QAM	1	1		23.65		24.5
100	256QAM	1	1		21.70		22.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.19	24.23	24.30	25.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.19	24.27	24.31	25.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.30	24.31	24.33	25.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.16	24.20	24.15	25.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.19	24.18	24.23	25.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.25	24.24	24.16	25.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.30	24.22	24.33	25.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.28	24.28	24.31	25.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.26	24.23	24.27	25.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.24	24.25	24.17	25.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.24	24.15	24.21	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		22.71		23.2
100	PI/2 BPSK	1	137		22.47		
100	PI/2 BPSK	1	271		22.66		
100	PI/2 BPSK	135	0		22.51		23.2
100	PI/2 BPSK	135	69		22.53		23.2
100	PI/2 BPSK	135	138		22.50		23.2
100	PI/2 BPSK	270	0		22.48		
100	QPSK	1	1		22.65		23.2
100	QPSK	1	137		22.45		
100	QPSK	1	271		22.65		
100	QPSK	135	0		22.47		23.2
100	QPSK	135	69		22.46		23.2
100	QPSK	135	138		22.41		23.2
100	QPSK	270	0		22.44		
100	16QAM	1	1		22.50		23.2
100	64QAM	1	1		22.46		23.2
100	256QAM	1	1		22.10		22.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	22.68	22.62	22.59	23.2
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	22.70	22.61	22.52	23.2
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	22.54	22.70	22.66	23.2
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	22.56	22.58	22.53	23.2
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	22.57	22.59	22.54	23.2
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	22.62	22.59	22.67	23.2
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	22.63	22.68	22.70	23.2
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	22.65	22.68	22.63	23.2
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	22.57	22.58	22.60	23.2
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	22.63	22.64	22.57	23.2
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	22.55	22.70	22.59	23.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		23.60		24.4
100	PI/2 BPSK	1	137		23.37		
100	PI/2 BPSK	1	271		23.50		
100	PI/2 BPSK	135	0		23.40		24.4
100	PI/2 BPSK	135	69		23.48		24.4
100	PI/2 BPSK	135	138		23.46		24.4
100	PI/2 BPSK	270	0		23.42		
100	QPSK	1	1		23.54		24.4
100	QPSK	1	137		23.35		
100	QPSK	1	271		23.49		
100	QPSK	135	0		23.40		24.4
100	QPSK	135	69		23.42		24.4
100	QPSK	135	138		23.40		24.4
100	QPSK	270	0		23.34		
100	16QAM	1	1		23.38		24.4
100	64QAM	1	1		23.00		23.5
100	256QAM	1	1		21.01		21.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	23.46	23.50	23.53	24.4
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	23.43	23.55	23.47	24.4
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.48	23.45	23.50	24.4
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	23.56	23.59	23.53	24.4
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	23.44	23.44	23.54	24.4
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.43	23.51	23.42	24.4
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	23.40	23.41	23.41	24.4
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	23.42	23.53	23.54	24.4
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	23.49	23.42	23.57	24.4
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	23.52	23.56	23.55	24.4
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	23.50	23.48	23.42	24.4



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		22.28		23.1
100	PI/2 BPSK	1	137		22.06		
100	PI/2 BPSK	1	271		22.23		
100	PI/2 BPSK	135	0		22.10		23.1
100	PI/2 BPSK	135	69		22.11		23.1
100	PI/2 BPSK	135	138		22.08		23.1
100	PI/2 BPSK	270	0		22.17		
100	QPSK	1	1		22.27		23.1
100	QPSK	1	137		22.03		
100	QPSK	1	271		22.21		
100	QPSK	135	0		22.01		23.1
100	QPSK	135	69		22.04		23.1
100	QPSK	135	138		22.23		23.1
100	QPSK	270	0		22.09		
100	16QAM	1	1		22.20		23.1
100	64QAM	1	1		22.09		23.1
100	256QAM	1	1		21.64		22.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	22.18	22.13	22.20	23.1
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	22.25	22.16	22.14	23.1
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	22.11	22.10	22.24	23.1
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	22.13	22.08	22.14	23.1
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	22.11	22.22	22.27	23.1
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	22.21	22.16	22.26	23.1
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	22.17	22.26	22.09	23.1
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	22.10	22.09	22.12	23.1
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	22.10	22.22	22.13	23.1
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	22.12	22.11	22.12	23.1
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	22.18	22.24	22.10	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		24.35		24.8
100	PI/2 BPSK	1	137		24.01		
100	PI/2 BPSK	1	271		24.34		
100	PI/2 BPSK	135	0		24.04		24.8
100	PI/2 BPSK	135	69		24.14		24.8
100	PI/2 BPSK	135	138		24.07		24.8
100	PI/2 BPSK	270	0		24.11		
100	QPSK	1	1		24.26		24.8
100	QPSK	1	137		24.00		
100	QPSK	1	271		24.28		
100	QPSK	135	0		24.04		24.8
100	QPSK	135	69		24.11		24.8
100	QPSK	135	138		24.03		24.8
100	QPSK	270	0		24.06		
100	16QAM	1	1		24.23		24.8
100	64QAM	1	1		23.65		24.5
100	256QAM	1	1		21.70		22.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.19	24.23	24.30	24.8
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.19	24.27	24.31	24.8
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.30	24.31	24.33	24.8
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.16	24.20	24.15	24.8
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.19	24.18	24.23	24.8
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.25	24.24	24.16	24.8
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.30	24.22	24.33	24.8
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.28	24.28	24.31	24.8
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.26	24.23	24.27	24.8
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.24	24.25	24.17	24.8
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.24	24.15	24.21	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		25.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.70		
100	PI/2 BPSK	1	137		24.39		24.5
100	PI/2 BPSK	1	271		24.25		
100	PI/2 BPSK	135	0		23.88		
100	PI/2 BPSK	135	69		24.43		24.5
100	PI/2 BPSK	135	138		23.97		
100	PI/2 BPSK	270	0		23.98		
100	QPSK	1	1		24.64		25.0
100	QPSK	1	137		24.29		
100	QPSK	1	271		24.50		
100	QPSK	135	0		23.36		24.0
100	QPSK	135	69		24.41		
100	QPSK	135	138		23.45		
100	QPSK	270	0		23.47		24.0
100	16QAM	1	1		23.74		
100	64QAM	1	1		22.08		
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	24.52	24.56	24.53	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.35	24.42	24.33	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.36	24.40	24.38	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.39	24.40	24.43	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.41	24.42	24.35	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.35	24.37	24.33	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.39	24.41	24.36	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.36	24.41	24.39	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.36	24.39	24.41	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.32	24.41	24.36	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.37	24.46	24.37	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		15.88		16.7
100	PI/2 BPSK	1	137		15.51		
100	PI/2 BPSK	1	271		15.84		
100	PI/2 BPSK	135	0		15.51		16.7
100	PI/2 BPSK	135	69		15.53		16.7
100	PI/2 BPSK	135	138		15.56		16.7
100	PI/2 BPSK	270	0		15.60		
100	QPSK	1	1		15.76		16.7
100	QPSK	1	137		15.40		
100	QPSK	1	271		15.78		
100	QPSK	135	0		15.48		16.7
100	QPSK	135	69		15.52		16.7
100	QPSK	135	138		15.57		16.7
100	QPSK	270	0		15.59		
100	16QAM	1	1		15.87		16.7
100	64QAM	1	1		15.73		16.7
100	256QAM	1	1		15.75		16.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	15.77	15.64	15.80	16.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	15.81	15.75	15.73	16.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	15.65	15.80	15.69	16.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	15.73	15.70	15.83	16.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	15.71	15.74	15.76	16.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	15.83	15.63	15.68	16.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	15.75	15.77	15.74	16.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	15.83	15.72	15.73	16.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	15.80	15.67	15.79	16.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	15.80	15.65	15.74	16.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	15.63	15.71	15.74	16.7



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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		24.35		
100	PI/2 BPSK	1	137		23.90		25.0
100	PI/2 BPSK	1	271		24.26		
100	PI/2 BPSK	135	0		23.54		
100	PI/2 BPSK	135	69		23.94		24.5
100	PI/2 BPSK	135	138		23.53		25.0
100	PI/2 BPSK	270	0		23.51		
100	QPSK	1	1		24.24		
100	QPSK	1	137		23.79		25.0
100	QPSK	1	271		24.19		
100	QPSK	135	0		23.04		
100	QPSK	135	69		23.94		24.0
100	QPSK	135	138		23.02		25.0
100	QPSK	270	0		23.00		
100	16QAM	1	1		23.38		
100	64QAM	1	1		21.74		24.0
100	256QAM	1	1		19.73		22.5
Channel				633000	633332	633666	20.5
Frequency (MHz)				3495	3499.98	3504.99	Tune-up limit (dBm)
90	PI/2 BPSK	1	1	24.23	24.30	24.28	25.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.30	24.21	24.15	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.33	24.29	24.16	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.26	24.22	24.16	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.22	24.27	24.20	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.34	24.19	24.16	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.32	24.20	24.35	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.25	24.19	24.30	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.27	24.31	24.20	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.31	24.32	24.24	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.35	24.27	24.29	



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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		23.60		
100	PI/2 BPSK	1	137		23.18		24.7
100	PI/2 BPSK	1	271		23.48		
100	PI/2 BPSK	135	0		23.39		
100	PI/2 BPSK	135	69		23.23		24.7
100	PI/2 BPSK	135	138		23.25		24.7
100	PI/2 BPSK	270	0		23.29		
100	QPSK	1	1		23.49		
100	QPSK	1	137		23.07		24.7
100	QPSK	1	271		23.33		
100	QPSK	135	0		23.40		
100	QPSK	135	69		23.22		24.7
100	QPSK	135	138		23.22		24.7
100	QPSK	270	0		23.28		
100	16QAM	1	1		23.44		
100	64QAM	1	1		21.81		22.5
100	256QAM	1	1		19.82		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.46	23.48	23.45	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.27	23.32	23.26	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.36	23.33	23.25	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.32	23.32	23.28	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.29	23.33	23.29	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.36	23.35	23.25	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.31	23.34	23.34	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.33	23.36	23.27	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.28	23.35	23.25	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.18	23.16	23.20	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.30	23.28	23.29	



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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		24.70		
100	PI/2 BPSK	1	137		24.39		24.5
100	PI/2 BPSK	1	271		24.25		
100	PI/2 BPSK	135	0		23.88		
100	PI/2 BPSK	135	69		24.43		24.5
100	PI/2 BPSK	135	138		23.97		
100	PI/2 BPSK	270	0		23.98		
100	QPSK	1	1		24.64		25.0
100	QPSK	1	137		24.29		
100	QPSK	1	271		24.50		
100	QPSK	135	0		23.36		24.0
100	QPSK	135	69		24.41		
100	QPSK	135	138		23.45		
100	QPSK	270	0		23.47		24.0
100	16QAM	1	1		23.74		
100	64QAM	1	1		22.08		
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	24.52	24.56	24.53	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.35	24.42	24.33	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.36	24.40	24.38	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.39	24.40	24.43	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.41	24.42	24.35	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.35	24.37	24.33	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.39	24.41	24.36	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.36	24.41	24.39	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.36	24.39	24.41	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.32	24.41	24.36	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.37	24.46	24.37	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		16.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		15.88		
100	PI/2 BPSK	1	137		15.51		16.0
100	PI/2 BPSK	1	271		15.84		
100	PI/2 BPSK	135	0		15.51		
100	PI/2 BPSK	135	69		15.53		16.0
100	PI/2 BPSK	135	138		15.56		16.0
100	PI/2 BPSK	270	0		15.60		
100	QPSK	1	1		15.76		
100	QPSK	1	137		15.40		16.0
100	QPSK	1	271		15.78		
100	QPSK	135	0		15.48		
100	QPSK	135	69		15.52		16.0
100	QPSK	135	138		15.57		16.0
100	QPSK	270	0		15.59		
100	16QAM	1	1		15.87		
100	64QAM	1	1		15.73		16.0
100	256QAM	1	1		15.75		16.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	15.77	15.64	15.80	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	15.81	15.75	15.73	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	15.65	15.80	15.69	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	15.73	15.70	15.83	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	15.71	15.74	15.76	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	15.83	15.63	15.68	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	15.75	15.77	15.74	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	15.83	15.72	15.73	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	15.80	15.67	15.79	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	15.80	15.65	15.74	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	15.63	15.71	15.74	



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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		24.35		
100	PI/2 BPSK	1	137		23.90		25.0
100	PI/2 BPSK	1	271		24.26		
100	PI/2 BPSK	135	0		23.54		
100	PI/2 BPSK	135	69		23.94		24.5
100	PI/2 BPSK	135	138		23.53		25.0
100	PI/2 BPSK	270	0		23.51		
100	QPSK	1	1		24.24		
100	QPSK	1	137		23.79		25.0
100	QPSK	1	271		24.19		
100	QPSK	135	0		23.04		
100	QPSK	135	69		23.94		24.0
100	QPSK	135	138		23.02		25.0
100	QPSK	270	0		23.00		
100	16QAM	1	1		23.38		
100	64QAM	1	1		21.74		24.0
100	256QAM	1	1		19.73		22.5
Channel				633000	633332	633666	20.5
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.23	24.30	24.28	
Channel				632668	633332	634000	25.0
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.30	24.21	24.15	
Channel				632334	633332	634332	25.0
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.33	24.29	24.16	
Channel				632000	633332	634666	25.0
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.26	24.22	24.16	
Channel				631668	633332	635000	25.0
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.22	24.27	24.20	
Channel				631334	633332	635332	25.0
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.34	24.19	24.16	
Channel				631000	633332	635666	25.0
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.32	24.20	24.35	
Channel				630834	633332	635832	25.0
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.25	24.19	24.30	
Channel				630668	633332	636000	25.0
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.27	24.31	24.20	
Channel				630500	633332	636166	25.0
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.31	24.32	24.24	
Channel				630334	633332	636332	25.0
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.35	24.27	24.29	



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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		23.60		24.0
100	PI/2 BPSK	1	137		23.18		
100	PI/2 BPSK	1	271		23.48		
100	PI/2 BPSK	135	0		23.39		24.0
100	PI/2 BPSK	135	69		23.23		24.0
100	PI/2 BPSK	135	138		23.25		24.0
100	PI/2 BPSK	270	0		23.29		
100	QPSK	1	1		23.49		24.0
100	QPSK	1	137		23.07		
100	QPSK	1	271		23.33		
100	QPSK	135	0		23.40		24.0
100	QPSK	135	69		23.22		24.0
100	QPSK	135	138		23.22		24.0
100	QPSK	270	0		23.28		
100	16QAM	1	1		23.44		24.0
100	64QAM	1	1		21.81		22.5
100	256QAM	1	1		19.82		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.46	23.48	23.45	24.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.27	23.32	23.26	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	23.33	23.25	24.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.32	23.32	23.28	24.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.29	23.33	23.29	24.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.36	23.35	23.25	24.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.31	23.34	23.34	24.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.33	23.36	23.27	24.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.28	23.35	23.25	24.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.18	23.16	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	23.30	23.28	23.29	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		21.57		21.6
100	PI/2 BPSK	1	137		20.92		
100	PI/2 BPSK	1	271		21.38		
100	PI/2 BPSK	135	0		21.01		21.6
100	PI/2 BPSK	135	69		21.09		21.6
100	PI/2 BPSK	135	138		20.82		21.6
100	PI/2 BPSK	270	0		20.95		
100	QPSK	1	1		21.23		21.6
100	QPSK	1	137		20.85		
100	QPSK	1	271		21.17		
100	QPSK	135	0		20.96		21.6
100	QPSK	135	69		21.06		21.6
100	QPSK	135	138		20.99		21.6
100	QPSK	270	0		21.07		
100	16QAM	1	1		21.33		21.6
100	64QAM	1	1		21.18		21.6
100	256QAM	1	1		19.87		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.52	21.53	21.49	21.6
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.51	21.53	21.49	21.6
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.47	21.55	21.37	21.6
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.49	21.50	21.43	21.6
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.52	21.51	21.50	21.6
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.47	21.42	21.48	21.6
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.48	21.45	21.47	21.6
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.55	21.42	21.48	21.6
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.52	21.48	21.49	21.6
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.49	21.43	21.55	21.6
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.48	21.47	21.49	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		20.71		
100	PI/2 BPSK	1	137		20.36		21.5
100	PI/2 BPSK	1	271		20.69		
100	PI/2 BPSK	135	0		20.34		
100	PI/2 BPSK	135	69		20.39		21.5
100	PI/2 BPSK	135	138		20.42		21.5
100	PI/2 BPSK	270	0		20.48		
100	QPSK	1	1		20.63		
100	QPSK	1	137		20.28		21.5
100	QPSK	1	271		20.63		
100	QPSK	135	0		20.34		
100	QPSK	135	69		20.39		21.5
100	QPSK	135	138		20.40		21.5
100	QPSK	270	0		20.45		
100	16QAM	1	1		20.70		
100	64QAM	1	1		20.60		21.5
100	256QAM	1	1		19.10		19.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.63	20.69	20.56	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.66	20.70	20.61	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.63	20.68	20.57	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.63	20.64	20.55	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.69	20.64	20.58	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.68	20.64	20.57	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.69	20.66	20.60	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.67	20.66	20.56	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.67	20.66	20.58	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.65	20.70	20.60	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.67	20.68	20.61	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.40		20.2
100	PI/2 BPSK	1	137		18.84		
100	PI/2 BPSK	1	271		19.28		
100	PI/2 BPSK	135	0		19.01		20.2
100	PI/2 BPSK	135	69		18.91		20.2
100	PI/2 BPSK	135	138		18.99		20.2
100	PI/2 BPSK	270	0		19.01		
100	QPSK	1	1		19.32		20.2
100	QPSK	1	137		18.85		
100	QPSK	1	271		19.23		
100	QPSK	135	0		19.03		20.2
100	QPSK	135	69		18.91		20.2
100	QPSK	135	138		19.00		20.2
100	QPSK	270	0		19.03		
100	16QAM	1	1		19.39		20.2
100	64QAM	1	1		19.27		20.2
100	256QAM	1	1		19.27		20.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.20	19.21	19.20	20.2
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.03	19.09	19.04	20.2
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.10	19.11	19.03	20.2
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.06	19.09	19.09	20.2
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.00	19.03	19.02	20.2
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.09	19.09	19.05	20.2
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.02	19.04	19.10	20.2
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.08	19.10	19.10	20.2
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.00	19.03	19.01	20.2
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.09	19.02	19.02	20.2
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.03	19.08	19.09	20.2



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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					633332		24.8
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.51		
100	PI/2 BPSK	1	137		24.07		24.5
100	PI/2 BPSK	1	271		24.43		
100	PI/2 BPSK	135	0		23.72		
100	PI/2 BPSK	135	69		24.11		24.5
100	PI/2 BPSK	135	138		23.69		
100	PI/2 BPSK	270	0		23.71		
100	QPSK	1	1		24.43		24.0
100	QPSK	1	137		23.97		
100	QPSK	1	271		24.36		
100	QPSK	135	0		23.23		24.0
100	QPSK	135	69		24.11		
100	QPSK	135	138		23.19		
100	QPSK	270	0		23.21		22.5
100	16QAM	1	1		23.56		
100	64QAM	1	1		21.91		
100	256QAM	1	1		19.89		20.5
Channel				633000	633332	633666	24.8
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.40	24.32	24.39	
Channel				632668	633332	634000	24.8
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.23	24.15	24.28	
Channel				632334	633332	634332	24.8
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.25	24.20	24.26	
Channel				632000	633332	634666	24.8
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.22	24.16	24.23	
Channel				631668	633332	635000	24.8
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.29	24.17	24.21	
Channel				631334	633332	635332	24.8
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.23	24.18	24.23	
Channel				631000	633332	635666	24.8
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.20	24.13	24.20	
Channel				630834	633332	635832	24.8
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.25	24.14	24.28	
Channel				630668	633332	636000	24.8
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.28	24.12	24.22	
Channel				630500	633332	636166	24.8
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.21	24.13	24.23	
Channel				630334	633332	636332	24.8
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.27	24.20	24.24	



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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		21.57		22.3
100	PI/2 BPSK	1	137		20.92		
100	PI/2 BPSK	1	271		21.38		
100	PI/2 BPSK	135	0		21.01		22.3
100	PI/2 BPSK	135	69		21.09		22.3
100	PI/2 BPSK	135	138		20.82		22.3
100	PI/2 BPSK	270	0		20.95		
100	QPSK	1	1		21.23		22.3
100	QPSK	1	137		20.85		
100	QPSK	1	271		21.17		
100	QPSK	135	0		20.96		22.3
100	QPSK	135	69		21.06		22.3
100	QPSK	135	138		20.99		22.3
100	QPSK	270	0		21.07		
100	16QAM	1	1		21.33		22.3
100	64QAM	1	1		21.18		22.3
100	256QAM	1	1		19.87		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.52	21.53	21.49	22.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.51	21.53	21.49	22.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.47	21.55	21.37	22.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.49	21.50	21.43	22.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.52	21.51	21.50	22.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.47	21.42	21.48	22.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.48	21.45	21.47	22.3
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.55	21.42	21.48	22.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.52	21.48	21.49	22.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.49	21.43	21.55	22.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.48	21.47	21.49	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		20.71		22.2
100	PI/2 BPSK	1	137		20.36		
100	PI/2 BPSK	1	271		20.69		
100	PI/2 BPSK	135	0		20.34		22.2
100	PI/2 BPSK	135	69		20.39		22.2
100	PI/2 BPSK	135	138		20.42		22.2
100	PI/2 BPSK	270	0		20.48		
100	QPSK	1	1		20.63		22.2
100	QPSK	1	137		20.28		
100	QPSK	1	271		20.63		
100	QPSK	135	0		20.34		22.2
100	QPSK	135	69		20.39		22.2
100	QPSK	135	138		20.40		22.2
100	QPSK	270	0		20.45		
100	16QAM	1	1		20.70		22.2
100	64QAM	1	1		20.60		21.5
100	256QAM	1	1		19.10		19.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.63	20.69	20.56	22.2
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.66	20.70	20.61	22.2
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.63	20.68	20.57	22.2
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.63	20.64	20.55	22.2
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.69	20.64	20.58	22.2
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.68	20.64	20.57	22.2
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.69	20.66	20.60	22.2
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.67	20.66	20.56	22.2
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.67	20.66	20.58	22.2
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.65	20.70	20.60	22.2
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.67	20.68	20.61	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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.40		20.9
100	PI/2 BPSK	1	137		18.84		
100	PI/2 BPSK	1	271		19.28		
100	PI/2 BPSK	135	0		19.01		20.9
100	PI/2 BPSK	135	69		18.91		20.9
100	PI/2 BPSK	135	138		18.99		20.9
100	PI/2 BPSK	270	0		19.01		
100	QPSK	1	1		19.32		20.9
100	QPSK	1	137		18.85		
100	QPSK	1	271		19.23		
100	QPSK	135	0		19.03		20.9
100	QPSK	135	69		18.91		20.9
100	QPSK	135	138		19.00		20.9
100	QPSK	270	0		19.03		
100	16QAM	1	1		19.39		20.9
100	64QAM	1	1		19.27		20.9
100	256QAM	1	1		19.27		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.20	19.21	19.20	20.9
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.03	19.09	19.04	20.9
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.10	19.11	19.03	20.9
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.06	19.09	19.09	20.9
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.00	19.03	19.02	20.9
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.09	19.09	19.05	20.9
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.02	19.04	19.10	20.9
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.08	19.10	19.10	20.9
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.00	19.03	19.01	20.9
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.09	19.02	19.02	20.9
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.03	19.08	19.09	20.9



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.51		25.0
100	PI/2 BPSK	1	137		24.07		
100	PI/2 BPSK	1	271		24.43		
100	PI/2 BPSK	135	0		23.72		24.5
100	PI/2 BPSK	135	69		24.11		25.0
100	PI/2 BPSK	135	138		23.69		24.5
100	PI/2 BPSK	270	0		23.71		
100	QPSK	1	1		24.43		25.0
100	QPSK	1	137		23.97		
100	QPSK	1	271		24.36		
100	QPSK	135	0		23.23		24.0
100	QPSK	135	69		24.11		25.0
100	QPSK	135	138		23.19		24.0
100	QPSK	270	0		23.21		
100	16QAM	1	1		23.56		24.0
100	64QAM	1	1		21.91		22.5
100	256QAM	1	1		19.89		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.40	24.32	24.39	25.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.23	24.15	24.28	25.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.25	24.20	24.26	25.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.22	24.16	24.23	25.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.29	24.17	24.21	25.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.23	24.18	24.23	25.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.20	24.13	24.20	25.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.25	24.14	24.28	25.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.28	24.12	24.22	25.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.21	24.13	24.23	25.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.27	24.20	24.24	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		21.57		21.6
100	PI/2 BPSK	1	137		20.92		
100	PI/2 BPSK	1	271		21.38		
100	PI/2 BPSK	135	0		21.01		21.6
100	PI/2 BPSK	135	69		21.09		21.6
100	PI/2 BPSK	135	138		20.82		21.6
100	PI/2 BPSK	270	0		20.95		
100	QPSK	1	1		21.23		21.6
100	QPSK	1	137		20.85		
100	QPSK	1	271		21.17		
100	QPSK	135	0		20.96		21.6
100	QPSK	135	69		21.06		21.6
100	QPSK	135	138		20.99		21.6
100	QPSK	270	0		21.07		
100	16QAM	1	1		21.33		21.6
100	64QAM	1	1		21.18		21.6
100	256QAM	1	1		19.87		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.52	21.53	21.49	21.6
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.51	21.53	21.49	21.6
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.47	21.55	21.37	21.6
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.49	21.50	21.43	21.6
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.52	21.51	21.50	21.6
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.47	21.42	21.48	21.6
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.48	21.45	21.47	21.6
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.55	21.42	21.48	21.6
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.52	21.48	21.49	21.6
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.49	21.43	21.55	21.6
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.48	21.47	21.49	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		20.71		21.5
100	PI/2 BPSK	1	137		20.36		
100	PI/2 BPSK	1	271		20.69		
100	PI/2 BPSK	135	0		20.34		21.5
100	PI/2 BPSK	135	69		20.39		21.5
100	PI/2 BPSK	135	138		20.42		21.5
100	PI/2 BPSK	270	0		20.48		
100	QPSK	1	1		20.63		21.5
100	QPSK	1	137		20.28		
100	QPSK	1	271		20.63		
100	QPSK	135	0		20.34		21.5
100	QPSK	135	69		20.39		21.5
100	QPSK	135	138		20.40		21.5
100	QPSK	270	0		20.45		
100	16QAM	1	1		20.70		21.5
100	64QAM	1	1		20.60		21.5
100	256QAM	1	1		19.10		19.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.63	20.69	20.56	21.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.66	20.70	20.61	21.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.63	20.68	20.57	21.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.63	20.64	20.55	21.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.69	20.64	20.58	21.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.68	20.64	20.57	21.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.69	20.66	20.60	21.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.67	20.66	20.56	21.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.67	20.66	20.58	21.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.65	20.70	20.60	21.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.67	20.68	20.61	21.5



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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		19.40		20.2
100	PI/2 BPSK	1	137		18.84		
100	PI/2 BPSK	1	271		19.28		
100	PI/2 BPSK	135	0		19.01		20.2
100	PI/2 BPSK	135	69		18.91		20.2
100	PI/2 BPSK	135	138		18.99		20.2
100	PI/2 BPSK	270	0		19.01		
100	QPSK	1	1		19.32		20.2
100	QPSK	1	137		18.85		
100	QPSK	1	271		19.23		
100	QPSK	135	0		19.03		20.2
100	QPSK	135	69		18.91		20.2
100	QPSK	135	138		19.00		20.2
100	QPSK	270	0		19.03		
100	16QAM	1	1		19.39		20.2
100	64QAM	1	1		19.27		20.2
100	256QAM	1	1		19.27		20.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.20	19.21	19.20	20.2
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.03	19.09	19.04	20.2
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.10	19.11	19.03	20.2
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.06	19.09	19.09	20.2
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.00	19.03	19.02	20.2
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.09	19.09	19.05	20.2
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.02	19.04	19.10	20.2
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.08	19.10	19.10	20.2
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.00	19.03	19.01	20.2
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.09	19.02	19.02	20.2
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.03	19.08	19.09	20.2



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.51		24.8
100	PI/2 BPSK	1	137		24.07		
100	PI/2 BPSK	1	271		24.43		
100	PI/2 BPSK	135	0		23.72		24.5
100	PI/2 BPSK	135	69		24.11		24.8
100	PI/2 BPSK	135	138		23.69		24.5
100	PI/2 BPSK	270	0		23.71		
100	QPSK	1	1		24.43		24.8
100	QPSK	1	137		23.97		
100	QPSK	1	271		24.36		
100	QPSK	135	0		23.23		24.0
100	QPSK	135	69		24.11		24.8
100	QPSK	135	138		23.19		24.0
100	QPSK	270	0		23.21		
100	16QAM	1	1		23.56		24.0
100	64QAM	1	1		21.91		22.5
100	256QAM	1	1		19.89		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.40	24.32	24.39	24.8
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.23	24.15	24.28	24.8
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.25	24.20	24.26	24.8
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.22	24.16	24.23	24.8
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.29	24.17	24.21	24.8
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.23	24.18	24.23	24.8
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.20	24.13	24.20	24.8
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.25	24.14	24.28	24.8
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.28	24.12	24.22	24.8
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.21	24.13	24.23	24.8
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.27	24.20	24.24	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		24.70		
100	PI/2 BPSK	1	137		24.39		25.0
100	PI/2 BPSK	1	271		24.25		
100	PI/2 BPSK	135	0		23.88		
100	PI/2 BPSK	135	69		24.43		24.5
100	PI/2 BPSK	135	138		23.97		25.0
100	PI/2 BPSK	270	0		23.98		
100	QPSK	1	1		24.64		
100	QPSK	1	137		24.29		25.0
100	QPSK	1	271		24.50		
100	QPSK	135	0		23.36		
100	QPSK	135	69		24.41		24.0
100	QPSK	135	138		23.45		25.0
100	QPSK	270	0		23.47		
100	16QAM	1	1		23.74		
100	64QAM	1	1		22.08		24.0
100	256QAM	1	1		20.08		22.5
Channel				633000	633332	633666	20.5
Frequency (MHz)				3495	3499.98	3504.99	Tune-up limit (dBm)
90	PI/2 BPSK	1	1	24.61	24.62	24.68	25.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.51	24.56	24.58	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.59	24.68	24.69	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.52	24.68	24.67	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.67	24.54	24.58	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.52	24.58	24.60	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.63	24.59	24.54	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.52	24.69	24.62	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.53	24.58	24.64	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.50	24.52	24.54	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.65	24.65	24.50	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		14.70		14.7
100	PI/2 BPSK	1	137		14.60		
100	PI/2 BPSK	1	271		14.63		
100	PI/2 BPSK	135	0		14.58		14.7
100	PI/2 BPSK	135	69		14.62		14.7
100	PI/2 BPSK	135	138		14.54		14.7
100	PI/2 BPSK	270	0		14.62		
100	QPSK	1	1		14.65		14.7
100	QPSK	1	137		14.65		
100	QPSK	1	271		14.45		
100	QPSK	135	0		14.64		14.7
100	QPSK	135	69		14.67		14.7
100	QPSK	135	138		14.54		14.7
100	QPSK	270	0		14.65		
100	16QAM	1	1		14.51		14.7
100	64QAM	1	1		14.62		14.7
100	256QAM	1	1		14.43		14.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	14.59	14.50	14.54	14.7
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	14.64	14.68	14.61	14.7
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	14.69	14.68	14.66	14.7
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	14.66	14.60	14.69	14.7
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	14.70	14.68	14.62	14.7
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	14.56	14.70	14.50	14.7
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	14.53	14.55	14.58	14.7
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	14.70	14.53	14.54	14.7
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	14.52	14.67	14.52	14.7
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	14.68	14.59	14.51	14.7
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	14.56	14.68	14.60	14.7



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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		24.35		
100	PI/2 BPSK	1	137		23.90		25.0
100	PI/2 BPSK	1	271		24.26		
100	PI/2 BPSK	135	0		23.54		
100	PI/2 BPSK	135	69		23.94		24.5
100	PI/2 BPSK	135	138		23.53		25.0
100	PI/2 BPSK	270	0		23.51		
100	QPSK	1	1		24.24		
100	QPSK	1	137		23.79		25.0
100	QPSK	1	271		24.19		
100	QPSK	135	0		23.04		
100	QPSK	135	69		23.94		24.0
100	QPSK	135	138		23.02		25.0
100	QPSK	270	0		23.00		
100	16QAM	1	1		23.38		
100	64QAM	1	1		21.74		24.0
100	256QAM	1	1		19.73		22.5
Channel				633000	633332	633666	20.5
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.24	24.24	24.24	
Channel				632668	633332	634000	25.0
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.29	24.28	24.21	
Channel				632334	633332	634332	25.0
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.31	24.28	24.26	
Channel				632000	633332	634666	25.0
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.20	24.34	24.21	
Channel				631668	633332	635000	25.0
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.24	24.32	24.25	
Channel				631334	633332	635332	25.0
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.19	24.26	24.22	
Channel				631000	633332	635666	25.0
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.23	24.33	24.28	
Channel				630834	633332	635832	25.0
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.16	24.29	24.29	
Channel				630668	633332	636000	25.0
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.27	24.21	24.34	
Channel				630500	633332	636166	25.0
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.33	24.30	24.32	
Channel				630334	633332	636332	25.0
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.25	24.28	24.16	



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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		20.53		21.0
100	PI/2 BPSK	1	137		20.04		
100	PI/2 BPSK	1	271		20.45		
100	PI/2 BPSK	135	0		20.08		21.0
100	PI/2 BPSK	135	69		20.26		21.0
100	PI/2 BPSK	135	138		20.25		21.0
100	PI/2 BPSK	270	0		20.16		
100	QPSK	1	1		20.47		21.0
100	QPSK	1	137		20.01		
100	QPSK	1	271		20.36		
100	QPSK	135	0		20.04		21.0
100	QPSK	135	69		20.20		21.0
100	QPSK	135	138		20.13		21.0
100	QPSK	270	0		20.06		
100	16QAM	1	1		20.45		21.0
100	64QAM	1	1		20.45		21.0
100	256QAM	1	1		19.96		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.42	20.36	20.49	21.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.35	20.35	20.46	21.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.35	20.43	20.39	21.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.41	20.39	20.37	21.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.41	20.43	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	20.51	20.45	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	20.40	20.52	20.49	21.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.35	20.48	20.52	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	20.42	20.38	21.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.33	20.34	20.48	21.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.40	20.36	20.46	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		19.63		20.2
100	PI/2 BPSK	1	137		19.57		
100	PI/2 BPSK	1	271		19.53		
100	PI/2 BPSK	135	0		19.57		20.2
100	PI/2 BPSK	135	69		19.59		20.2
100	PI/2 BPSK	135	138		19.57		20.2
100	PI/2 BPSK	270	0		19.55		
100	QPSK	1	1		19.61		20.2
100	QPSK	1	137		19.54		
100	QPSK	1	271		19.54		
100	QPSK	135	0		19.62		20.2
100	QPSK	135	69		19.57		20.2
100	QPSK	135	138		19.60		20.2
100	QPSK	270	0		19.61		
100	16QAM	1	1		19.58		20.2
100	64QAM	1	1		19.57		20.2
100	256QAM	1	1		19.62		20.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.48	19.50	19.60	20.2
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.45	19.49	19.49	20.2
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.58	19.51	19.46	20.2
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.58	19.55	19.61	20.2
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.46	19.51	19.58	20.2
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.57	19.47	19.61	20.2
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.44	19.53	19.55	20.2
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.45	19.57	19.59	20.2
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.45	19.47	19.46	20.2
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.51	19.51	19.50	20.2
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.58	19.55	19.52	20.2



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.66		20.8
100	PI/2 BPSK	1	137		20.52		
100	PI/2 BPSK	1	271		20.65		
100	PI/2 BPSK	135	0		20.54		20.8
100	PI/2 BPSK	135	69		20.59		20.8
100	PI/2 BPSK	135	138		20.50		20.8
100	PI/2 BPSK	270	0		20.51		
100	QPSK	1	1		20.65		20.8
100	QPSK	1	137		20.51		
100	QPSK	1	271		20.61		
100	QPSK	135	0		20.53		20.8
100	QPSK	135	69		20.59		20.8
100	QPSK	135	138		20.50		20.8
100	QPSK	270	0		20.41		
100	16QAM	1	1		20.33		20.8
100	64QAM	1	1		20.56		20.8
100	256QAM	1	1		19.06		19.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.58	20.63	20.47	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	20.65	20.59	20.8
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.50	20.51	20.46	20.8
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.48	20.61	20.57	20.8
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.56	20.64	20.56	20.8
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.49	20.61	20.63	20.8
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.54	20.64	20.63	20.8
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.51	20.47	20.65	20.8
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.64	20.46	20.59	20.8
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.51	20.65	20.57	20.8
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.64	20.49	20.48	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		19.40		20.1
100	PI/2 BPSK	1	137		18.94		
100	PI/2 BPSK	1	271		19.32		
100	PI/2 BPSK	135	0		18.99		20.1
100	PI/2 BPSK	135	69		19.08		20.1
100	PI/2 BPSK	135	138		19.05		20.1
100	PI/2 BPSK	270	0		19.06		
100	QPSK	1	1		19.31		20.1
100	QPSK	1	137		19.31		
100	QPSK	1	271		19.31		
100	QPSK	135	0		19.31		20.1
100	QPSK	135	69		19.31		20.1
100	QPSK	135	138		19.31		20.1
100	QPSK	270	0		19.31		
100	16QAM	1	1		19.38		20.1
100	64QAM	1	1		19.28		20.1
100	256QAM	1	1		19.29		20.1
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.31	19.20	19.29	20.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.21	19.30	19.20	20.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.34	19.34	19.22	20.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.34	19.32	19.20	20.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.28	19.31	19.35	20.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.24	19.31	19.32	20.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.26	19.29	19.31	20.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.31	19.34	19.21	20.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.28	19.30	19.36	20.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.23	19.38	19.31	20.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.36	19.34	19.34	20.1



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.58		21.8
100	PI/2 BPSK	1	137		21.08		
100	PI/2 BPSK	1	271		21.44		
100	PI/2 BPSK	135	0		21.15		21.8
100	PI/2 BPSK	135	69		21.25		21.8
100	PI/2 BPSK	135	138		21.23		21.8
100	PI/2 BPSK	270	0		21.22		
100	QPSK	1	1		21.48		21.8
100	QPSK	1	137		20.99		
100	QPSK	1	271		21.44		
100	QPSK	135	0		21.05		21.8
100	QPSK	135	69		21.17		21.8
100	QPSK	135	138		21.19		21.8
100	QPSK	270	0		21.16		
100	16QAM	1	1		21.55		21.8
100	64QAM	1	1		21.46		21.8
100	256QAM	1	1		19.96		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.57	21.48	21.53	21.8
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.55	21.50	21.54	21.8
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.55	21.45	21.38	21.8
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.45	21.49	21.54	21.8
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.44	21.54	21.46	21.8
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.42	21.46	21.39	21.8
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.54	21.42	21.46	21.8
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.55	21.39	21.53	21.8
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.46	21.38	21.42	21.8
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.44	21.40	21.49	21.8
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.57	21.49	21.54	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		19.63		20.9
100	PI/2 BPSK	1	137		19.57		
100	PI/2 BPSK	1	271		19.53		
100	PI/2 BPSK	135	0		19.57		20.9
100	PI/2 BPSK	135	69		19.59		20.9
100	PI/2 BPSK	135	138		19.57		20.9
100	PI/2 BPSK	270	0		19.55		
100	QPSK	1	1		19.61		20.9
100	QPSK	1	137		19.54		
100	QPSK	1	271		19.54		
100	QPSK	135	0		19.62		20.9
100	QPSK	135	69		19.57		20.9
100	QPSK	135	138		19.60		20.9
100	QPSK	270	0		19.61		
100	16QAM	1	1		19.58		20.9
100	64QAM	1	1		19.57		20.9
100	256QAM	1	1		19.62		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.48	19.50	19.60	20.9
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.45	19.49	19.49	20.9
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.58	19.51	19.46	20.9
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.58	19.55	19.61	20.9
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.46	19.51	19.58	20.9
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.57	19.47	19.61	20.9
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.44	19.53	19.55	20.9
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.45	19.57	19.59	20.9
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.45	19.47	19.46	20.9
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.51	19.51	19.50	20.9
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.58	19.55	19.52	20.9



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.66		22.1
100	PI/2 BPSK	1	137		20.52		
100	PI/2 BPSK	1	271		20.65		
100	PI/2 BPSK	135	0		20.54		22.1
100	PI/2 BPSK	135	69		20.59		22.1
100	PI/2 BPSK	135	138		20.50		22.1
100	PI/2 BPSK	270	0		20.51		
100	QPSK	1	1		20.65		22.1
100	QPSK	1	137		20.51		
100	QPSK	1	271		20.61		
100	QPSK	135	0		20.53		22.1
100	QPSK	135	69		20.59		22.1
100	QPSK	135	138		20.50		22.1
100	QPSK	270	0		20.41		
100	16QAM	1	1		20.33		22.1
100	64QAM	1	1		20.56		21.5
100	256QAM	1	1		19.06		19.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.58	20.63	20.47	22.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.48	20.65	20.59	22.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.50	20.51	20.46	22.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.48	20.61	20.57	22.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.56	20.64	20.56	22.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.49	20.61	20.63	22.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.54	20.64	20.63	22.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.51	20.47	20.65	22.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.64	20.46	20.59	22.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.51	20.65	20.57	22.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.64	20.49	20.48	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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.40		20.8
100	PI/2 BPSK	1	137		18.94		
100	PI/2 BPSK	1	271		19.32		
100	PI/2 BPSK	135	0		18.99		20.8
100	PI/2 BPSK	135	69		19.08		20.8
100	PI/2 BPSK	135	138		19.05		20.8
100	PI/2 BPSK	270	0		19.06		
100	QPSK	1	1		19.31		20.8
100	QPSK	1	137		19.31		
100	QPSK	1	271		19.31		
100	QPSK	135	0		19.31		20.8
100	QPSK	135	69		19.31		20.8
100	QPSK	135	138		19.31		20.8
100	QPSK	270	0		19.31		
100	16QAM	1	1		19.38		20.8
100	64QAM	1	1		19.28		20.8
100	256QAM	1	1		19.29		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.31	19.20	19.29	20.8
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.21	19.30	19.20	20.8
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.34	19.34	19.22	20.8
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.34	19.32	19.20	20.8
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.28	19.31	19.35	20.8
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.24	19.31	19.32	20.8
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.26	19.29	19.31	20.8
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.31	19.34	19.21	20.8
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.28	19.30	19.36	20.8
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.23	19.38	19.31	20.8
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.36	19.34	19.34	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		21.58		22.5
100	PI/2 BPSK	1	137		21.08		
100	PI/2 BPSK	1	271		21.44		
100	PI/2 BPSK	135	0		21.15		22.5
100	PI/2 BPSK	135	69		21.25		22.5
100	PI/2 BPSK	135	138		21.23		22.5
100	PI/2 BPSK	270	0		21.22		
100	QPSK	1	1		21.48		22.5
100	QPSK	1	137		20.99		
100	QPSK	1	271		21.44		
100	QPSK	135	0		21.05		22.5
100	QPSK	135	69		21.17		22.5
100	QPSK	135	138		21.19		22.5
100	QPSK	270	0		21.16		
100	16QAM	1	1		21.55		22.5
100	64QAM	1	1		21.46		22.5
100	256QAM	1	1		19.96		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.57	21.48	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	21.55	21.50	21.54	22.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.55	21.45	21.38	22.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.45	21.49	21.54	22.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.44	21.54	21.46	22.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.42	21.46	21.39	22.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.54	21.42	21.46	22.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.55	21.39	21.53	22.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.46	21.38	21.42	22.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.44	21.40	21.49	22.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.57	21.49	21.54	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		19.63		20.2
100	PI/2 BPSK	1	137		19.57		
100	PI/2 BPSK	1	271		19.53		
100	PI/2 BPSK	135	0		19.57		20.2
100	PI/2 BPSK	135	69		19.59		20.2
100	PI/2 BPSK	135	138		19.57		20.2
100	PI/2 BPSK	270	0		19.55		
100	QPSK	1	1		19.61		20.2
100	QPSK	1	137		19.54		
100	QPSK	1	271		19.54		
100	QPSK	135	0		19.62		20.2
100	QPSK	135	69		19.57		20.2
100	QPSK	135	138		19.60		20.2
100	QPSK	270	0		19.61		
100	16QAM	1	1		19.58		20.2
100	64QAM	1	1		19.57		20.2
100	256QAM	1	1		19.62		20.2
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.48	19.50	19.60	20.2
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.45	19.49	19.49	20.2
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.58	19.51	19.46	20.2
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.58	19.55	19.61	20.2
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.46	19.51	19.58	20.2
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.57	19.47	19.61	20.2
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.44	19.53	19.55	20.2
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.45	19.57	19.59	20.2
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.45	19.47	19.46	20.2
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.51	19.51	19.50	20.2
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.58	19.55	19.52	20.2



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.66		21.4
100	PI/2 BPSK	1	137		20.52		
100	PI/2 BPSK	1	271		20.65		
100	PI/2 BPSK	135	0		20.54		21.4
100	PI/2 BPSK	135	69		20.59		21.4
100	PI/2 BPSK	135	138		20.50		21.4
100	PI/2 BPSK	270	0		20.51		
100	QPSK	1	1		20.65		21.4
100	QPSK	1	137		20.51		
100	QPSK	1	271		20.61		
100	QPSK	135	0		20.53		21.4
100	QPSK	135	69		20.59		21.4
100	QPSK	135	138		20.50		21.4
100	QPSK	270	0		20.41		
100	16QAM	1	1		20.33		21.4
100	64QAM	1	1		20.56		21.4
100	256QAM	1	1		19.06		19.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.58	20.63	20.47	21.4
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.48	20.65	20.59	21.4
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.50	20.51	20.46	21.4
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.48	20.61	20.57	21.4
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.56	20.64	20.56	21.4
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.49	20.61	20.63	21.4
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.54	20.64	20.63	21.4
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.51	20.47	20.65	21.4
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.64	20.46	20.59	21.4
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.51	20.65	20.57	21.4
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.64	20.49	20.48	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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.40		20.1
100	PI/2 BPSK	1	137		18.94		
100	PI/2 BPSK	1	271		19.32		
100	PI/2 BPSK	135	0		18.99		20.1
100	PI/2 BPSK	135	69		19.08		20.1
100	PI/2 BPSK	135	138		19.05		20.1
100	PI/2 BPSK	270	0		19.06		
100	QPSK	1	1		19.31		20.1
100	QPSK	1	137		19.31		
100	QPSK	1	271		19.31		
100	QPSK	135	0		19.31		20.1
100	QPSK	135	69		19.31		20.1
100	QPSK	135	138		19.31		20.1
100	QPSK	270	0		19.31		
100	16QAM	1	1		19.38		20.1
100	64QAM	1	1		19.28		20.1
100	256QAM	1	1		19.29		20.1
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.31	19.20	19.29	20.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.21	19.30	19.20	20.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.34	19.34	19.22	20.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.34	19.32	19.20	20.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.28	19.31	19.35	20.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.24	19.31	19.32	20.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.26	19.29	19.31	20.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.31	19.34	19.21	20.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.28	19.30	19.36	20.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.23	19.38	19.31	20.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.36	19.34	19.34	20.1



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.58		21.8
100	PI/2 BPSK	1	137		21.08		
100	PI/2 BPSK	1	271		21.44		
100	PI/2 BPSK	135	0		21.15		21.8
100	PI/2 BPSK	135	69		21.25		21.8
100	PI/2 BPSK	135	138		21.23		21.8
100	PI/2 BPSK	270	0		21.22		
100	QPSK	1	1		21.48		21.8
100	QPSK	1	137		20.99		
100	QPSK	1	271		21.44		
100	QPSK	135	0		21.05		21.8
100	QPSK	135	69		21.17		21.8
100	QPSK	135	138		21.19		21.8
100	QPSK	270	0		21.16		
100	16QAM	1	1		21.55		21.8
100	64QAM	1	1		21.46		21.8
100	256QAM	1	1		19.96		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.57	21.48	21.53	21.8
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.55	21.50	21.54	21.8
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.55	21.45	21.38	21.8
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.45	21.49	21.54	21.8
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.44	21.54	21.46	21.8
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.42	21.46	21.39	21.8
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.54	21.42	21.46	21.8
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.55	21.39	21.53	21.8
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.46	21.38	21.42	21.8
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.44	21.40	21.49	21.8
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.57	21.49	21.54	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		26.76		
100	PI/2 BPSK	1	137		26.40		27.0
100	PI/2 BPSK	1	271		26.75		
100	PI/2 BPSK	135	0		25.91		
100	PI/2 BPSK	135	69		26.45		27.0
100	PI/2 BPSK	135	138		25.95		26.5
100	PI/2 BPSK	270	0		25.98		
100	QPSK	1	1		26.65		
100	QPSK	1	137		26.30		27.0
100	QPSK	1	271		26.67		
100	QPSK	135	0		25.38		
100	QPSK	135	69		26.42		27.0
100	QPSK	135	138		25.45		26.0
100	QPSK	270	0		25.47		
100	16QAM	1	1		25.64		
100	64QAM	1	1		24.05		24.5
100	256QAM	1	1		22.11		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	26.58	26.48	26.56	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	26.39	26.28	26.40	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	26.40	26.37	26.44	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	26.47	26.32	26.38	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	26.42	26.29	26.40	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	26.47	26.30	26.45	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	26.46	26.28	26.38	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	26.46	26.32	26.40	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	26.44	26.31	26.46	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	26.43	26.36	26.38	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	26.42	26.28	26.40	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		19.7
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		18.86		
100	PI/2 BPSK	1	137		18.48		19.7
100	PI/2 BPSK	1	271		18.85		
100	PI/2 BPSK	135	0		18.51		
100	PI/2 BPSK	135	69		18.55		19.7
100	PI/2 BPSK	135	138		18.58		19.7
100	PI/2 BPSK	270	0		18.65		
100	QPSK	1	1		18.79		
100	QPSK	1	137		18.41		19.7
100	QPSK	1	271		18.77		
100	QPSK	135	0		18.50		
100	QPSK	135	69		18.54		19.7
100	QPSK	135	138		18.59		19.7
100	QPSK	270	0		18.61		
100	16QAM	1	1		18.78		
100	64QAM	1	1		18.68		19.7
100	256QAM	1	1		18.76		19.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	18.69	18.62	18.80	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.65	18.76	18.63	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	18.67	18.71	18.61	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.64	18.66	18.80	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	18.73	18.72	18.62	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	18.80	18.80	18.71	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	18.63	18.62	18.71	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	18.71	18.78	18.72	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	18.73	18.73	18.61	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	18.72	18.64	18.64	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	18.61	18.76	18.66	



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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		26.43		
100	PI/2 BPSK	1	137		25.94		27.0
100	PI/2 BPSK	1	271		26.30		
100	PI/2 BPSK	135	0		25.62		
100	PI/2 BPSK	135	69		25.99		27.0
100	PI/2 BPSK	135	138		25.58		26.5
100	PI/2 BPSK	270	0		25.59		
100	QPSK	1	1		26.34		
100	QPSK	1	137		25.88		27.0
100	QPSK	1	271		26.27		
100	QPSK	135	0		25.10		
100	QPSK	135	69		25.98		27.0
100	QPSK	135	138		25.06		26.0
100	QPSK	270	0		25.08		
100	16QAM	1	1		25.32		
100	64QAM	1	1		23.73		24.5
100	256QAM	1	1		21.79		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	26.38	26.35	26.43	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	26.36	26.39	26.32	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	26.40	26.24	26.31	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	26.41	26.37	26.27	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	26.29	26.39	26.32	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	26.32	26.39	26.40	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	26.40	26.33	26.38	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	26.42	26.24	26.26	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	26.24	26.33	26.38	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	26.27	26.32	26.26	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	26.25	26.41	26.32	



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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		26.60		
100	PI/2 BPSK	1	137		26.16		27.0
100	PI/2 BPSK	1	271		26.53		
100	PI/2 BPSK	135	0		25.82		
100	PI/2 BPSK	135	69		26.22		27.0
100	PI/2 BPSK	135	138		25.79		26.5
100	PI/2 BPSK	270	0		25.79		
100	QPSK	1	1		26.55		27.0
100	QPSK	1	137		26.09		
100	QPSK	1	271		26.48		
100	QPSK	135	0		25.32		26.0
100	QPSK	135	69		26.21		27.0
100	QPSK	135	138		25.29		26.0
100	QPSK	270	0		25.28		
100	16QAM	1	1		25.52		26.0
100	64QAM	1	1		23.93		24.5
100	256QAM	1	1		21.98		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	26.44	26.40	26.49	27.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	26.32	26.27	26.39	27.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	26.32	26.21	26.39	27.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	26.25	26.24	26.31	27.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	26.29	26.30	26.29	27.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	26.31	26.25	26.33	27.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	26.28	26.24	26.32	27.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	26.29	26.30	26.35	27.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	26.29	26.20	26.38	27.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	26.26	26.28	26.39	27.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	26.26	26.26	26.35	27.0



<FR1 n78_HPUE_Ant 6_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		26.76		27.0
100	PI/2 BPSK	1	137		26.40		
100	PI/2 BPSK	1	271		26.75		
100	PI/2 BPSK	135	0		25.91		26.5
100	PI/2 BPSK	135	69		26.45		27.0
100	PI/2 BPSK	135	138		25.95		26.5
100	PI/2 BPSK	270	0		25.98		
100	QPSK	1	1		26.65		27.0
100	QPSK	1	137		26.30		
100	QPSK	1	271		26.67		
100	QPSK	135	0		25.38		26.0
100	QPSK	135	69		26.42		27.0
100	QPSK	135	138		25.45		26.0
100	QPSK	270	0		25.47		
100	16QAM	1	1		25.64		26.0
100	64QAM	1	1		24.05		24.5
100	256QAM	1	1		22.11		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	26.58	26.48	26.56	27.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	26.39	26.28	26.40	27.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	26.40	26.37	26.44	27.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	26.47	26.32	26.38	27.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	26.42	26.29	26.40	27.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	26.47	26.30	26.45	27.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	26.46	26.28	26.38	27.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	26.46	26.32	26.40	27.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	26.44	26.31	26.46	27.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	26.43	26.36	26.38	27.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	26.42	26.28	26.40	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					633332		19.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		18.86		
100	PI/2 BPSK	1	137		18.48		19.0
100	PI/2 BPSK	1	271		18.85		
100	PI/2 BPSK	135	0		18.51		
100	PI/2 BPSK	135	69		18.55		19.0
100	PI/2 BPSK	135	138		18.58		19.0
100	PI/2 BPSK	270	0		18.65		
100	QPSK	1	1		18.79		
100	QPSK	1	137		18.41		19.0
100	QPSK	1	271		18.77		
100	QPSK	135	0		18.50		
100	QPSK	135	69		18.54		19.0
100	QPSK	135	138		18.59		19.0
100	QPSK	270	0		18.61		
100	16QAM	1	1		18.78		
100	64QAM	1	1		18.68		19.0
100	256QAM	1	1		18.76		19.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	18.69	18.62	18.80	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.65	18.76	18.63	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	18.67	18.71	18.61	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.64	18.66	18.80	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	18.73	18.72	18.62	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	18.80	18.80	18.71	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	18.63	18.62	18.71	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	18.71	18.78	18.72	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	18.73	18.73	18.61	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	18.72	18.64	18.64	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	18.61	18.76	18.66	



<FR1 n78_HPUE_Ant 2_Index 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		26.43		
100	PI/2 BPSK	1	137		25.94		27.0
100	PI/2 BPSK	1	271		26.30		
100	PI/2 BPSK	135	0		25.62		
100	PI/2 BPSK	135	69		25.99		27.0
100	PI/2 BPSK	135	138		25.58		26.5
100	PI/2 BPSK	270	0		25.59		
100	QPSK	1	1		26.34		27.0
100	QPSK	1	137		25.88		
100	QPSK	1	271		26.27		
100	QPSK	135	0		25.10		26.0
100	QPSK	135	69		25.98		27.0
100	QPSK	135	138		25.06		26.0
100	QPSK	270	0		25.08		
100	16QAM	1	1		25.32		26.0
100	64QAM	1	1		23.73		24.5
100	256QAM	1	1		21.79		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	26.38	26.35	26.43	27.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	26.36	26.39	26.32	27.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	26.40	26.24	26.31	27.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	26.41	26.37	26.27	27.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	26.29	26.39	26.32	27.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	26.32	26.39	26.40	27.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	26.40	26.33	26.38	27.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	26.42	26.24	26.26	27.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	26.24	26.33	26.38	27.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	26.27	26.32	26.26	27.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	26.25	26.41	26.32	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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		26.60		
100	PI/2 BPSK	1	137		26.16		27.0
100	PI/2 BPSK	1	271		26.53		
100	PI/2 BPSK	135	0		25.82		
100	PI/2 BPSK	135	69		26.22		27.0
100	PI/2 BPSK	135	138		25.79		26.5
100	PI/2 BPSK	270	0		25.79		
100	QPSK	1	1		26.55		
100	QPSK	1	137		26.09		27.0
100	QPSK	1	271		26.48		
100	QPSK	135	0		25.32		
100	QPSK	135	69		26.21		27.0
100	QPSK	135	138		25.29		26.0
100	QPSK	270	0		25.28		
100	16QAM	1	1		25.52		
100	64QAM	1	1		23.93		24.5
100	256QAM	1	1		21.98		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	26.44	26.40	26.49	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	26.32	26.27	26.39	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	26.32	26.21	26.39	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	26.25	26.24	26.31	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	26.29	26.30	26.29	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	26.31	26.25	26.33	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	26.28	26.24	26.32	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	26.29	26.30	26.35	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	26.29	26.20	26.38	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	26.26	26.28	26.39	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	26.26	26.26	26.35	



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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					633332		24.6
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.58		
100	PI/2 BPSK	1	137		24.23		24.6
100	PI/2 BPSK	1	271		24.55		
100	PI/2 BPSK	135	0		24.32		
100	PI/2 BPSK	135	69		24.30		24.6
100	PI/2 BPSK	135	138		24.31		24.6
100	PI/2 BPSK	270	0		24.35		
100	QPSK	1	1		24.51		
100	QPSK	1	137		24.14		24.6
100	QPSK	1	271		24.51		
100	QPSK	135	0		24.25		
100	QPSK	135	69		24.29		24.6
100	QPSK	135	138		24.32		24.6
100	QPSK	270	0		24.34		
100	16QAM	1	1		24.52		
100	64QAM	1	1		23.90		24.5
100	256QAM	1	1		22.16		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.48	24.52	24.48	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.50	24.53	24.51	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.52	24.54	24.52	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.47	24.48	24.51	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.49	24.50	24.48	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.48	24.55	24.53	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.45	24.52	24.50	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.48	24.53	24.49	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.51	24.56	24.48	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.50	24.52	24.46	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.48	24.49	24.42	



<FR1 n78_HPUE_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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.76		24.5
100	PI/2 BPSK	1	137		23.41		
100	PI/2 BPSK	1	271		23.75		
100	PI/2 BPSK	135	0		23.40		24.5
100	PI/2 BPSK	135	69		23.44		24.5
100	PI/2 BPSK	135	138		23.44		24.5
100	PI/2 BPSK	270	0		23.48		
100	QPSK	1	1		23.67		24.5
100	QPSK	1	137		23.29		
100	QPSK	1	271		23.64		
100	QPSK	135	0		23.40		24.5
100	QPSK	135	69		23.43		24.5
100	QPSK	135	138		23.44		24.5
100	QPSK	270	0		23.47		
100	16QAM	1	1		23.68		24.5
100	64QAM	1	1		23.09		23.5
100	256QAM	1	1		21.15		21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.65	23.74	23.61	24.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.67	23.74	23.58	24.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.69	23.70	23.56	24.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.68	23.73	23.55	24.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.64	23.72	23.58	24.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.64	23.72	23.60	24.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.69	23.75	23.58	24.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.67	23.71	23.55	24.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.63	23.73	23.55	24.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.69	23.74	23.58	24.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.66	23.71	23.60	24.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.45		23.2
100	PI/2 BPSK	1	137		22.03		
100	PI/2 BPSK	1	271		22.35		
100	PI/2 BPSK	135	0		22.14		23.2
100	PI/2 BPSK	135	69		22.02		23.2
100	PI/2 BPSK	135	138		22.10		23.2
100	PI/2 BPSK	270	0		22.10		
100	QPSK	1	1		22.37		23.2
100	QPSK	1	137		22.02		
100	QPSK	1	271		22.35		
100	QPSK	135	0		22.13		23.2
100	QPSK	135	69		22.01		23.2
100	QPSK	135	138		22.10		23.2
100	QPSK	270	0		22.08		
100	16QAM	1	1		22.34		23.2
100	64QAM	1	1		22.23		23.2
100	256QAM	1	1		21.83		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.35	22.34	22.34	23.2
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.17	22.14	22.17	23.2
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.20	22.23	22.16	23.2
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.21	22.16	22.14	23.2
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.23	22.18	22.14	23.2
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.17	22.18	22.15	23.2
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.22	22.20	22.20	23.2
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.22	22.15	22.23	23.2
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.25	22.17	22.20	23.2
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.22	22.16	22.18	23.2
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.19	22.24	22.22	23.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		26.60		
100	PI/2 BPSK	1	137		26.16		27.0
100	PI/2 BPSK	1	271		26.53		
100	PI/2 BPSK	135	0		25.82		
100	PI/2 BPSK	135	69		26.22		27.0
100	PI/2 BPSK	135	138		25.79		26.5
100	PI/2 BPSK	270	0		25.79		
100	QPSK	1	1		26.55		
100	QPSK	1	137		26.09		27.0
100	QPSK	1	271		26.48		
100	QPSK	135	0		25.32		
100	QPSK	135	69		26.21		27.0
100	QPSK	135	138		25.29		26.0
100	QPSK	270	0		25.28		
100	16QAM	1	1		25.52		
100	64QAM	1	1		23.93		24.5
100	256QAM	1	1		21.98		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	26.44	26.40	26.49	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	26.32	26.27	26.39	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	26.32	26.21	26.39	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	26.25	26.24	26.31	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	26.29	26.30	26.29	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	26.31	26.25	26.33	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	26.28	26.24	26.32	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	26.29	26.30	26.35	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	26.29	26.20	26.38	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	26.26	26.28	26.39	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	26.26	26.26	26.35	



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.58		25.3
100	PI/2 BPSK	1	137		24.23		
100	PI/2 BPSK	1	271		24.55		
100	PI/2 BPSK	135	0		24.32		25.3
100	PI/2 BPSK	135	69		24.30		25.3
100	PI/2 BPSK	135	138		24.31		25.3
100	PI/2 BPSK	270	0		24.35		
100	QPSK	1	1		24.51		25.3
100	QPSK	1	137		24.14		
100	QPSK	1	271		24.51		
100	QPSK	135	0		24.25		25.3
100	QPSK	135	69		24.29		25.3
100	QPSK	135	138		24.32		25.3
100	QPSK	270	0		24.34		
100	16QAM	1	1		24.52		25.3
100	64QAM	1	1		23.90		24.5
100	256QAM	1	1		22.16		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.48	24.52	24.48	25.3
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.50	24.53	24.51	25.3
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.52	24.54	24.52	25.3
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.47	24.48	24.51	25.3
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.49	24.50	24.48	25.3
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.48	24.55	24.53	25.3
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.45	24.52	24.50	25.3
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.48	24.53	24.49	25.3
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.51	24.56	24.48	25.3
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.50	24.52	24.46	25.3
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.48	24.49	24.42	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		25.2
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.76		
100	PI/2 BPSK	1	137		23.41		25.2
100	PI/2 BPSK	1	271		23.75		
100	PI/2 BPSK	135	0		23.40		
100	PI/2 BPSK	135	69		23.44		25.2
100	PI/2 BPSK	135	138		23.44		25.2
100	PI/2 BPSK	270	0		23.48		
100	QPSK	1	1		23.67		
100	QPSK	1	137		23.29		25.2
100	QPSK	1	271		23.64		
100	QPSK	135	0		23.40		
100	QPSK	135	69		23.43		25.0
100	QPSK	135	138		23.44		25.0
100	QPSK	270	0		23.47		
100	16QAM	1	1		23.68		
100	64QAM	1	1		23.09		23.5
100	256QAM	1	1		21.15		21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.65	23.74	23.61	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.67	23.74	23.58	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.69	23.70	23.56	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.68	23.73	23.55	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.64	23.72	23.58	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.64	23.72	23.60	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.69	23.75	23.58	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.67	23.71	23.55	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.63	23.73	23.55	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.69	23.74	23.58	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.66	23.71	23.60	



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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		22.45		23.9
100	PI/2 BPSK	1	137		22.03		
100	PI/2 BPSK	1	271		22.35		
100	PI/2 BPSK	135	0		22.14		23.9
100	PI/2 BPSK	135	69		22.02		23.9
100	PI/2 BPSK	135	138		22.10		23.9
100	PI/2 BPSK	270	0		22.10		
100	QPSK	1	1		22.37		23.9
100	QPSK	1	137		22.02		
100	QPSK	1	271		22.35		
100	QPSK	135	0		22.13		23.9
100	QPSK	135	69		22.01		23.9
100	QPSK	135	138		22.10		23.9
100	QPSK	270	0		22.08		
100	16QAM	1	1		22.34		23.9
100	64QAM	1	1		22.23		23.9
100	256QAM	1	1		21.83		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.35	22.34	22.34	23.9
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.17	22.14	22.17	23.9
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.20	22.23	22.16	23.9
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.21	22.16	22.14	23.9
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.23	22.18	22.14	23.9
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.17	22.18	22.15	23.9
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.22	22.20	22.20	23.9
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.22	22.15	22.23	23.9
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.25	22.17	22.20	23.9
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.22	22.16	22.18	23.9
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.19	22.24	22.22	23.9



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		26.60		
100	PI/2 BPSK	1	137		26.16		27.0
100	PI/2 BPSK	1	271		26.53		
100	PI/2 BPSK	135	0		25.82		
100	PI/2 BPSK	135	69		26.22		27.0
100	PI/2 BPSK	135	138		25.79		26.5
100	PI/2 BPSK	270	0		25.79		
100	QPSK	1	1		26.55		
100	QPSK	1	137		26.09		27.0
100	QPSK	1	271		26.48		
100	QPSK	135	0		25.32		
100	QPSK	135	69		26.21		27.0
100	QPSK	135	138		25.29		26.0
100	QPSK	270	0		25.28		
100	16QAM	1	1		25.52		
100	64QAM	1	1		23.93		24.5
100	256QAM	1	1		21.98		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	26.44	26.40	26.49	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	26.32	26.27	26.39	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	26.32	26.21	26.39	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	26.25	26.24	26.31	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	26.29	26.30	26.29	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	26.31	26.25	26.33	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	26.28	26.24	26.32	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	26.29	26.30	26.35	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	26.29	26.20	26.38	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	26.26	26.28	26.39	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	26.26	26.26	26.35	



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.58		24.6
100	PI/2 BPSK	1	137		24.23		
100	PI/2 BPSK	1	271		24.55		
100	PI/2 BPSK	135	0		24.32		24.6
100	PI/2 BPSK	135	69		24.30		24.6
100	PI/2 BPSK	135	138		24.31		24.6
100	PI/2 BPSK	270	0		24.35		
100	QPSK	1	1		24.51		24.6
100	QPSK	1	137		24.14		
100	QPSK	1	271		24.51		
100	QPSK	135	0		24.25		24.6
100	QPSK	135	69		24.29		24.6
100	QPSK	135	138		24.32		24.6
100	QPSK	270	0		24.34		
100	16QAM	1	1		24.52		24.6
100	64QAM	1	1		23.90		24.5
100	256QAM	1	1		22.16		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.48	24.52	24.48	24.6
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.50	24.53	24.51	24.6
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.52	24.54	24.52	24.6
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.47	24.48	24.51	24.6
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.49	24.50	24.48	24.6
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.48	24.55	24.53	24.6
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.45	24.52	24.50	24.6
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.48	24.53	24.49	24.6
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.51	24.56	24.48	24.6
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.50	24.52	24.46	24.6
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.48	24.49	24.42	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		23.76		
100	PI/2 BPSK	1	137		23.41		24.5
100	PI/2 BPSK	1	271		23.75		
100	PI/2 BPSK	135	0		23.40		
100	PI/2 BPSK	135	69		23.44		24.5
100	PI/2 BPSK	135	138		23.44		24.5
100	PI/2 BPSK	270	0		23.48		
100	QPSK	1	1		23.67		
100	QPSK	1	137		23.29		24.5
100	QPSK	1	271		23.64		
100	QPSK	135	0		23.40		
100	QPSK	135	69		23.43		24.5
100	QPSK	135	138		23.44		24.5
100	QPSK	270	0		23.47		
100	16QAM	1	1		23.68		
100	64QAM	1	1		23.09		23.5
100	256QAM	1	1		21.15		21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.65	23.74	23.61	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.67	23.74	23.58	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.69	23.70	23.56	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.68	23.73	23.55	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.64	23.72	23.58	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.64	23.72	23.60	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.69	23.75	23.58	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.67	23.71	23.55	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.63	23.73	23.55	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.69	23.74	23.58	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.66	23.71	23.60	



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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		22.45		23.2
100	PI/2 BPSK	1	137		22.03		
100	PI/2 BPSK	1	271		22.35		
100	PI/2 BPSK	135	0		22.14		23.2
100	PI/2 BPSK	135	69		22.02		23.2
100	PI/2 BPSK	135	138		22.10		23.2
100	PI/2 BPSK	270	0		22.10		
100	QPSK	1	1		22.37		23.2
100	QPSK	1	137		22.02		
100	QPSK	1	271		22.35		
100	QPSK	135	0		22.13		23.2
100	QPSK	135	69		22.01		23.2
100	QPSK	135	138		22.10		23.2
100	QPSK	270	0		22.08		
100	16QAM	1	1		22.34		23.2
100	64QAM	1	1		22.23		23.2
100	256QAM	1	1		21.83		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.35	22.34	22.34	23.2
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.17	22.14	22.17	23.2
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.20	22.23	22.16	23.2
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.21	22.16	22.14	23.2
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.23	22.18	22.14	23.2
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.17	22.18	22.15	23.2
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.22	22.20	22.20	23.2
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.22	22.15	22.23	23.2
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.25	22.17	22.20	23.2
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.22	22.16	22.18	23.2
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.19	22.24	22.22	23.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		27.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		26.60		
100	PI/2 BPSK	1	137		26.16		26.5
100	PI/2 BPSK	1	271		26.53		
100	PI/2 BPSK	135	0		25.82		
100	PI/2 BPSK	135	69		26.22		27.0
100	PI/2 BPSK	135	138		25.79		26.5
100	PI/2 BPSK	270	0		25.79		
100	QPSK	1	1		26.55		
100	QPSK	1	137		26.09		27.0
100	QPSK	1	271		26.48		
100	QPSK	135	0		25.32		
100	QPSK	135	69		26.21		26.0
100	QPSK	135	138		25.29		27.0
100	QPSK	270	0		25.28		
100	16QAM	1	1		25.52		
100	64QAM	1	1		23.93		26.0
100	256QAM	1	1		21.98		24.5
Channel				633000	633332	633666	22.5
Frequency (MHz)				3495	3499.98	3504.99	Tune-up limit (dBm)
90	PI/2 BPSK	1	1	26.44	26.40	26.49	27.0
Channel				632668	633332	634000	27.0
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	26.32	26.27	26.39	
Channel				632334	633332	634332	27.0
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	26.32	26.21	26.39	
Channel				632000	633332	634666	27.0
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	26.25	26.24	26.31	
Channel				631668	633332	635000	27.0
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	26.29	26.30	26.29	
Channel				631334	633332	635332	27.0
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	26.31	26.25	26.33	
Channel				631000	633332	635666	27.0
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	26.28	26.24	26.32	
Channel				630834	633332	635832	27.0
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	26.29	26.30	26.35	
Channel				630668	633332	636000	27.0
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	26.29	26.20	26.38	
Channel				630500	633332	636166	27.0
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	26.26	26.28	26.39	
Channel				630334	633332	636332	27.0
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	26.26	26.26	26.35	



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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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		26.76		27.0
100	PI/2 BPSK	1	137		26.40		
100	PI/2 BPSK	1	271		26.75		
100	PI/2 BPSK	135	0		25.91		26.5
100	PI/2 BPSK	135	69		26.45		27.0
100	PI/2 BPSK	135	138		25.95		26.5
100	PI/2 BPSK	270	0		25.98		
100	QPSK	1	1		26.65		27.0
100	QPSK	1	137		26.30		
100	QPSK	1	271		26.67		
100	QPSK	135	0		25.38		26.0
100	QPSK	135	69		26.42		27.0
100	QPSK	135	138		25.45		26.0
100	QPSK	270	0		25.47		
100	16QAM	1	1		25.64		26.0
100	64QAM	1	1		24.05		24.5
100	256QAM	1	1		22.11		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	26.73	26.75	26.70	27.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	26.70	26.75	26.58	27.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	26.57	26.57	26.72	27.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	26.64	26.69	26.58	27.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	26.72	26.73	26.65	27.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	26.71	26.64	26.62	27.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	26.57	26.58	26.61	27.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	26.63	26.63	26.68	27.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	26.61	26.73	26.56	27.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	26.63	26.57	26.73	27.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	26.58	26.68	26.61	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					633332		17.7
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		17.70		
100	PI/2 BPSK	1	137		17.68		17.7
100	PI/2 BPSK	1	271		17.69		
100	PI/2 BPSK	135	0		17.57		
100	PI/2 BPSK	135	69		17.64		17.7
100	PI/2 BPSK	135	138		17.54		17.7
100	PI/2 BPSK	270	0		17.69		
100	QPSK	1	1		17.53		
100	QPSK	1	137		17.60		17.7
100	QPSK	1	271		17.56		
100	QPSK	135	0		17.62		
100	QPSK	135	69		17.57		17.7
100	QPSK	135	138		17.63		17.7
100	QPSK	270	0		17.69		
100	16QAM	1	1		17.52		
100	64QAM	1	1		17.53		17.7
100	256QAM	1	1		17.58		17.7
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	17.55	17.64	17.51	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	17.69	17.59	17.60	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	17.67	17.67	17.69	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	17.53	17.58	17.67	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	17.54	17.54	17.63	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	17.65	17.64	17.61	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	17.68	17.56	17.63	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	17.63	17.64	17.52	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	17.58	17.67	17.69	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	17.56	17.67	17.50	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	17.53	17.54	17.66	



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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		26.43		
100	PI/2 BPSK	1	137		25.94		27.0
100	PI/2 BPSK	1	271		26.30		
100	PI/2 BPSK	135	0		25.62		
100	PI/2 BPSK	135	69		25.99		27.0
100	PI/2 BPSK	135	138		25.58		26.5
100	PI/2 BPSK	270	0		25.59		
100	QPSK	1	1		26.34		
100	QPSK	1	137		25.88		27.0
100	QPSK	1	271		26.27		
100	QPSK	135	0		25.10		
100	QPSK	135	69		25.98		27.0
100	QPSK	135	138		25.06		26.0
100	QPSK	270	0		25.08		
100	16QAM	1	1		25.32		
100	64QAM	1	1		23.73		24.5
100	256QAM	1	1		21.79		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	26.34	26.25	26.34	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	26.28	26.36	26.27	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	26.40	26.29	26.25	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	26.27	26.39	26.33	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	26.25	26.25	26.26	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	26.31	26.37	26.24	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	26.30	26.38	26.39	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	26.28	26.28	26.38	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	26.24	26.40	26.25	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	26.41	26.29	26.30	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	26.26	26.27	26.24	



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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		23.60		24.0
100	PI/2 BPSK	1	137		23.19		
100	PI/2 BPSK	1	271		23.55		
100	PI/2 BPSK	135	0		23.13		24.0
100	PI/2 BPSK	135	69		23.25		24.0
100	PI/2 BPSK	135	138		23.22		24.0
100	PI/2 BPSK	270	0		23.29		
100	QPSK	1	1		23.58		24.0
100	QPSK	1	137		23.26		
100	QPSK	1	271		23.56		
100	QPSK	135	0		23.26		24.0
100	QPSK	135	69		23.32		24.0
100	QPSK	135	138		23.16		24.0
100	QPSK	270	0		23.20		
100	16QAM	1	1		23.54		24.0
100	64QAM	1	1		23.47		24.0
100	256QAM	1	1		21.97		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.52	23.51	23.55	24.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.51	23.54	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	23.40	23.46	24.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.55	23.41	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	23.57	23.47	23.54	24.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.42	23.50	23.58	24.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.40	23.53	23.48	24.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.44	23.58	23.53	24.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.56	23.52	23.54	24.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.50	23.54	23.43	24.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.56	23.53	23.58	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		22.76		23.2
100	PI/2 BPSK	1	137		22.41		
100	PI/2 BPSK	1	271		22.74		
100	PI/2 BPSK	135	0		22.40		23.2
100	PI/2 BPSK	135	69		22.44		23.2
100	PI/2 BPSK	135	138		22.36		23.2
100	PI/2 BPSK	270	0		22.50		
100	QPSK	1	1		22.67		23.2
100	QPSK	1	137		22.41		
100	QPSK	1	271		22.67		
100	QPSK	135	0		22.39		23.2
100	QPSK	135	69		22.37		23.2
100	QPSK	135	138		22.29		23.2
100	QPSK	270	0		22.48		
100	16QAM	1	1		22.46		23.2
100	64QAM	1	1		22.46		23.2
100	256QAM	1	1		22.13		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.71	22.63	22.74	23.2
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.75	22.62	22.56	23.2
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.65	22.67	22.71	23.2
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.73	22.70	22.68	23.2
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.62	22.68	22.75	23.2
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.70	22.74	22.64	23.2
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.63	22.75	22.59	23.2
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.57	22.62	22.59	23.2
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.64	22.67	22.62	23.2
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.60	22.71	22.70	23.2
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.59	22.70	22.56	23.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.70		
100	PI/2 BPSK	1	137		23.57		23.8
100	PI/2 BPSK	1	271		23.43		
100	PI/2 BPSK	135	0		23.58		
100	PI/2 BPSK	135	69		23.61		23.8
100	PI/2 BPSK	135	138		23.55		23.8
100	PI/2 BPSK	270	0		23.50		
100	QPSK	1	1		23.62		
100	QPSK	1	137		23.52		23.8
100	QPSK	1	271		23.41		
100	QPSK	135	0		23.58		
100	QPSK	135	69		23.54		23.8
100	QPSK	135	138		23.50		23.8
100	QPSK	270	0		23.44		
100	16QAM	1	1		23.64		
100	64QAM	1	1		23.03		23.5
100	256QAM	1	1		21.05		21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.53	23.52	23.57	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.53	23.68	23.55	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.58	23.52	23.56	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.61	23.65	23.52	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.65	23.60	23.65	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.58	23.51	23.69	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.60	23.63	23.56	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.51	23.54	23.53	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.61	23.58	23.52	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.61	23.63	23.62	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.56	23.64	23.65	



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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		22.45		23.1
100	PI/2 BPSK	1	137		22.00		
100	PI/2 BPSK	1	271		22.36		
100	PI/2 BPSK	135	0		22.04		23.1
100	PI/2 BPSK	135	69		22.15		23.1
100	PI/2 BPSK	135	138		22.11		23.1
100	PI/2 BPSK	270	0		22.13		
100	QPSK	1	1		22.37		23.1
100	QPSK	1	137		21.96		
100	QPSK	1	271		22.34		
100	QPSK	135	0		22.00		23.1
100	QPSK	135	69		22.09		23.1
100	QPSK	135	138		22.09		23.1
100	QPSK	270	0		22.13		
100	16QAM	1	1		22.35		23.1
100	64QAM	1	1		22.24		23.1
100	256QAM	1	1		21.82		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.37	22.30	22.30	23.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.40	22.37	22.40	23.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.31	22.37	22.26	23.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.42	22.28	22.27	23.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.34	22.28	22.31	23.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.38	22.40	22.33	23.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.43	22.38	22.37	23.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.37	22.31	22.27	23.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.29	22.30	22.39	23.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.41	22.40	22.43	23.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.33	22.44	22.25	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		24.8
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.63		
100	PI/2 BPSK	1	137		24.17		24.8
100	PI/2 BPSK	1	271		24.54		
100	PI/2 BPSK	135	0		24.21		
100	PI/2 BPSK	135	69		24.31		24.8
100	PI/2 BPSK	135	138		24.27		24.8
100	PI/2 BPSK	270	0		24.29		
100	QPSK	1	1		24.60		
100	QPSK	1	137		24.16		24.8
100	QPSK	1	271		24.53		
100	QPSK	135	0		24.17		
100	QPSK	135	69		24.27		24.8
100	QPSK	135	138		24.21		24.8
100	QPSK	270	0		24.22		
100	16QAM	1	1		24.55		
100	64QAM	1	1		23.97		24.5
100	256QAM	1	1		22.00		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.52	24.60	24.50	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.62	24.56	24.49	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.51	24.61	24.60	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.57	24.62	24.54	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.44	24.61	24.43	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.58	24.58	24.61	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.49	24.46	24.54	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.44	24.62	24.51	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.50	24.61	24.58	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.62	24.51	24.45	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.55	24.59	24.54	



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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		22.76		23.9
100	PI/2 BPSK	1	137		22.41		
100	PI/2 BPSK	1	271		22.74		
100	PI/2 BPSK	135	0		22.40		23.9
100	PI/2 BPSK	135	69		22.44		23.9
100	PI/2 BPSK	135	138		22.36		23.9
100	PI/2 BPSK	270	0		22.50		
100	QPSK	1	1		22.67		23.9
100	QPSK	1	137		22.41		
100	QPSK	1	271		22.67		
100	QPSK	135	0		22.39		23.9
100	QPSK	135	69		22.37		23.9
100	QPSK	135	138		22.29		23.9
100	QPSK	270	0		22.48		
100	16QAM	1	1		22.46		23.9
100	64QAM	1	1		22.46		23.9
100	256QAM	1	1		22.13		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.71	22.63	22.74	23.9
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.75	22.62	22.56	23.9
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.65	22.67	22.71	23.9
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.73	22.70	22.68	23.9
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.62	22.68	22.75	23.9
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.70	22.74	22.64	23.9
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.63	22.75	22.59	23.9
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.57	22.62	22.59	23.9
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.64	22.67	22.62	23.9
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.60	22.71	22.70	23.9
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.59	22.70	22.56	23.9



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.70		25.1
100	PI/2 BPSK	1	137		23.57		
100	PI/2 BPSK	1	271		23.43		
100	PI/2 BPSK	135	0		23.58		25.1
100	PI/2 BPSK	135	69		23.61		25.1
100	PI/2 BPSK	135	138		23.55		25.1
100	PI/2 BPSK	270	0		23.50		
100	QPSK	1	1		23.62		25.1
100	QPSK	1	137		23.52		
100	QPSK	1	271		23.41		
100	QPSK	135	0		23.58		25.0
100	QPSK	135	69		23.54		25.1
100	QPSK	135	138		23.50		25.0
100	QPSK	270	0		23.44		
100	16QAM	1	1		23.64		25.0
100	64QAM	1	1		23.03		23.5
100	256QAM	1	1		21.05		21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.53	23.52	23.57	25.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.53	23.68	23.55	25.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.58	23.52	23.56	25.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.61	23.65	23.52	25.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.65	23.60	23.65	25.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.58	23.51	23.69	25.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.60	23.63	23.56	25.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.51	23.54	23.53	25.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.61	23.58	23.52	25.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.61	23.63	23.62	25.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.56	23.64	23.65	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		22.45		23.8
100	PI/2 BPSK	1	137		22.00		
100	PI/2 BPSK	1	271		22.36		
100	PI/2 BPSK	135	0		22.04		23.8
100	PI/2 BPSK	135	69		22.15		23.8
100	PI/2 BPSK	135	138		22.11		23.8
100	PI/2 BPSK	270	0		22.13		
100	QPSK	1	1		22.37		23.8
100	QPSK	1	137		21.96		
100	QPSK	1	271		22.34		
100	QPSK	135	0		22.00		23.8
100	QPSK	135	69		22.09		23.8
100	QPSK	135	138		22.09		23.8
100	QPSK	270	0		22.13		
100	16QAM	1	1		22.35		23.8
100	64QAM	1	1		22.24		23.8
100	256QAM	1	1		21.82		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.37	22.30	22.30	23.8
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.40	22.37	22.40	23.8
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.31	22.37	22.26	23.8
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.42	22.28	22.27	23.8
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.34	22.28	22.31	23.8
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.38	22.40	22.33	23.8
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.43	22.38	22.37	23.8
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.37	22.31	22.27	23.8
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.29	22.30	22.39	23.8
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.41	22.40	22.43	23.8
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.33	22.44	22.25	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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.63		
100	PI/2 BPSK	1	137		24.17		25.5
100	PI/2 BPSK	1	271		24.54		
100	PI/2 BPSK	135	0		24.21		
100	PI/2 BPSK	135	69		24.31		25.5
100	PI/2 BPSK	135	138		24.27		25.5
100	PI/2 BPSK	270	0		24.29		
100	QPSK	1	1		24.60		
100	QPSK	1	137		24.16		25.5
100	QPSK	1	271		24.53		
100	QPSK	135	0		24.17		
100	QPSK	135	69		24.27		25.5
100	QPSK	135	138		24.21		25.5
100	QPSK	270	0		24.22		
100	16QAM	1	1		24.55		
100	64QAM	1	1		23.97		24.5
100	256QAM	1	1		22.00		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.52	24.60	24.50	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.62	24.56	24.49	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.51	24.61	24.60	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.57	24.62	24.54	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.44	24.61	24.43	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.58	24.58	24.61	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.49	24.46	24.54	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.44	24.62	24.51	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.50	24.61	24.58	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.62	24.51	24.45	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.55	24.59	24.54	



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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		22.76		23.2
100	PI/2 BPSK	1	137		22.41		
100	PI/2 BPSK	1	271		22.74		
100	PI/2 BPSK	135	0		22.40		23.2
100	PI/2 BPSK	135	69		22.44		23.2
100	PI/2 BPSK	135	138		22.36		23.2
100	PI/2 BPSK	270	0		22.50		
100	QPSK	1	1		22.67		23.2
100	QPSK	1	137		22.41		
100	QPSK	1	271		22.67		
100	QPSK	135	0		22.39		23.2
100	QPSK	135	69		22.37		23.2
100	QPSK	135	138		22.29		23.2
100	QPSK	270	0		22.48		
100	16QAM	1	1		22.46		23.2
100	64QAM	1	1		22.46		23.2
100	256QAM	1	1		22.13		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.71	22.63	22.74	23.2
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.75	22.62	22.56	23.2
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.65	22.67	22.71	23.2
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.73	22.70	22.68	23.2
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.62	22.68	22.75	23.2
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.70	22.74	22.64	23.2
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.63	22.75	22.59	23.2
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.57	22.62	22.59	23.2
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.64	22.67	22.62	23.2
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.60	22.71	22.70	23.2
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.59	22.70	22.56	23.2



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.70		24.4
100	PI/2 BPSK	1	137		23.57		
100	PI/2 BPSK	1	271		23.43		
100	PI/2 BPSK	135	0		23.58		24.4
100	PI/2 BPSK	135	69		23.61		24.4
100	PI/2 BPSK	135	138		23.55		24.4
100	PI/2 BPSK	270	0		23.50		
100	QPSK	1	1		23.62		24.4
100	QPSK	1	137		23.52		
100	QPSK	1	271		23.41		
100	QPSK	135	0		23.58		24.4
100	QPSK	135	69		23.54		24.4
100	QPSK	135	138		23.50		24.4
100	QPSK	270	0		23.44		
100	16QAM	1	1		23.64		24.4
100	64QAM	1	1		23.03		23.5
100	256QAM	1	1		21.05		21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.53	23.52	23.57	24.4
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.53	23.68	23.55	24.4
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.58	23.52	23.56	24.4
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.61	23.65	23.52	24.4
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.65	23.60	23.65	24.4
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.58	23.51	23.69	24.4
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.60	23.63	23.56	24.4
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.51	23.54	23.53	24.4
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.61	23.58	23.52	24.4
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.61	23.63	23.62	24.4
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.56	23.64	23.65	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					633332		
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.45		23.1
100	PI/2 BPSK	1	137		22.00		
100	PI/2 BPSK	1	271		22.36		
100	PI/2 BPSK	135	0		22.04		23.1
100	PI/2 BPSK	135	69		22.15		23.1
100	PI/2 BPSK	135	138		22.11		23.1
100	PI/2 BPSK	270	0		22.13		
100	QPSK	1	1		22.37		23.1
100	QPSK	1	137		21.96		
100	QPSK	1	271		22.34		
100	QPSK	135	0		22.00		23.1
100	QPSK	135	69		22.09		23.1
100	QPSK	135	138		22.09		23.1
100	QPSK	270	0		22.13		
100	16QAM	1	1		22.35		23.1
100	64QAM	1	1		22.24		23.1
100	256QAM	1	1		21.82		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.37	22.30	22.30	23.1
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.40	22.37	22.40	23.1
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.31	22.37	22.26	23.1
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.42	22.28	22.27	23.1
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.34	22.28	22.31	23.1
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.38	22.40	22.33	23.1
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.43	22.38	22.37	23.1
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.37	22.31	22.27	23.1
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.29	22.30	22.39	23.1
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	22.41	22.40	22.43	23.1
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.33	22.44	22.25	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		24.63		
100	PI/2 BPSK	1	137		24.17		24.8
100	PI/2 BPSK	1	271		24.54		
100	PI/2 BPSK	135	0		24.21		
100	PI/2 BPSK	135	69		24.31		24.8
100	PI/2 BPSK	135	138		24.27		24.8
100	PI/2 BPSK	270	0		24.29		
100	QPSK	1	1		24.60		
100	QPSK	1	137		24.16		24.8
100	QPSK	1	271		24.53		
100	QPSK	135	0		24.17		
100	QPSK	135	69		24.27		24.8
100	QPSK	135	138		24.21		24.8
100	QPSK	270	0		24.22		
100	16QAM	1	1		24.55		
100	64QAM	1	1		23.97		24.5
100	256QAM	1	1		22.00		22.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.52	24.60	24.50	
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.62	24.56	24.49	
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.51	24.61	24.60	
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.57	24.62	24.54	
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.44	24.61	24.43	
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.58	24.58	24.61	
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.49	24.46	24.54	
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.44	24.62	24.51	
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.50	24.61	24.58	
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.62	24.51	24.45	
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.55	24.59	24.54	