



Full&Default Power Mode

GSM850 Airtel		Rural Average Power (dBm)			Turn-up		Femto-Average Power (dBm)			Turn-up	
Tx Channel		1995	1995	2000	1995		1995	1995	2000	1995	
Frequency (MHz)		824.2	824.4	824.8	824.2		824.2	824.4	824.8	824.2	
GSM T Tx Wdr		31.72	31.81	31.88	31.50		22.72	22.81	22.88	24.50	
GPRS 1 Tx Wdr		31.73	31.88	31.82	31.50		22.73	22.88	22.82	24.50	
GPRS 2 Tx Wdr		30.55	30.59	30.52	32.00		24.85	24.99	24.92	25.00	
GPRS 3 Tx Wdr		29.00	29.13	29.10	30.00		24.80	24.87	24.84	25.74	
GPRS 4 Tx Wdr		27.70	27.87	27.82	29.00		24.79	24.87	24.82	25.00	
EDGE 1 Tx Wdr		25.80	25.87	25.84	23.00		17.20	17.27	17.24	19.00	
EDGE 2 Tx Wdr		25.20	25.31	25.29	23.00		19.28	19.31	19.29	20.24	
EDGE 3 Tx Wdr		23.34	23.39	23.23	24.50		19.08	19.13	19.07	20.24	
EDGE 4 Tx Wdr		21.83	21.85	21.78	23.00		18.83	18.85	18.79	20.00	

Rural		HSPA V Airtel			Turn-up	
Tx Channel		4152	4162	4213	Turn-up	
Rx Channel		4205	4207	4208	Turn-up	
Frequency (MHz)		836.4	836.4	836.8	836.4	
SCPP Rel 99		AMR 12.2kbps	22.20	22.49	22.44	
SCPP Rel 99		RMC 12.2kbps	22.43	22.53	22.50	
SCPP Rel 6		HSPA Subnet-1	21.50	21.58	21.40	
SCPP Rel 6		HSPA Subnet-2	21.40	21.51	21.40	
SCPP Rel 6		HSPA Subnet-3	20.90	21.08	21.02	
SCPP Rel 6		HSPA Subnet-4	20.94	21.05	20.94	
SCPP Rel 6		DC-HSPA Subnet-1	21.55	21.55	21.55	
SCPP Rel 6		DC-HSPA Subnet-2	21.44	21.49	21.53	
SCPP Rel 6		DC-HSPA Subnet-3	20.94	21.00	21.01	
SCPP Rel 6		DC-HSPA Subnet-4	20.90	21.05	21.04	
SCPP Rel 6		HSPA Subnet-1	21.50	21.56	21.47	
SCPP Rel 6		HSPA Subnet-2	19.53	19.51	19.49	
SCPP Rel 6		HSPA Subnet-3	20.55	20.59	20.48	
SCPP Rel 6		HSPA Subnet-4	19.45	19.55	19.46	
SCPP Rel 6		HSPA Subnet-5	21.54	21.48	21.48	
SCPP Rel 7		HSPA HSDMA Subnet-1	19.55	19.55	19.55	



GSM1900 Ant 1		Band Average Power (dBm)			Tune-up		Power change Power (dBm)			Tune-up	
Tx Channel		152	161	163	Limit		152	161	163	Limit	
Frequency (MHz)		1900.2	1900	1900.8	(dBm)		1900.2	1900	1900.8	(dBm)	
GSM 1 Tx use		18.92	22.07	22.07	32.00		18.92	22.07	22.07	32.00	
OPNS 1 Tx use		18.87	20.04	20.02	30.50		18.87	20.04	20.02	31.50	
OPNS 2 Tx use		18.19	28.23	18.20	29.50		22.10	22.23	22.20	23.50	
OPNS 3 Tx use		18.22	26.27	26.24	27.50		21.98	22.07	21.98	23.24	
OPNS 4 Tx use		18.16	25.22	25.18	26.50		22.18	22.22	22.18	23.50	
EDGE 1 Tx use		13.71	23.71	23.64	26.00		14.71	14.71	14.69	16.00	
EDGE 2 Tx use		12.21	22.16	22.23	23.50		16.21	16.16	16.23	17.50	
EDGE 3 Tx use		12.16	20.26	20.16	21.50		15.99	15.99	15.99	17.24	
EDGE 4 Tx use		13.81	18.74	18.66	20.00		15.81	15.74	15.69	17.00	

Band		WCDMA 8 Ant 1			Tune-up		WCDMA 14 Ant 1			Tune-up	
Tx Channel		9602	9600	9638	Limit		1512	1411	1513	Limit	
Rx Channel		9662	9600	9638	(dBm)		1537	1436	1738	(dBm)	
Frequency (MHz)		1920	1920	1920	(dBm)		1734	1436	1734	(dBm)	
SCPP Rel 99		22.42	22.04	22.47	24.00		22.55	22.49	22.57	24.00	
SCPP Rel 99		22.56	22.63	22.59	24.00		22.46	22.55	22.49	24.00	
SCPP Rel 8		21.61	21.59	21.63	23.00		21.43	21.59	21.46	23.00	
SCPP Rel 8		21.59	21.69	21.56	23.00		21.46	21.60	21.46	23.00	
SCPP Rel 8		21.54	21.18	21.10	22.50		20.99	21.01	21.01	22.50	
SCPP Rel 8		21.88	21.12	21.07	22.50		20.96	21.68	20.94	22.50	
SCPP Rel 8		21.38	21.60	21.57	23.00		21.47	21.55	21.46	23.00	
SCPP Rel 8		21.53	21.05	21.54	23.00		21.45	21.51	21.45	23.00	
SCPP Rel 8		21.11	21.12	21.13	22.50		20.92	21.04	21.07	22.50	
SCPP Rel 8		21.02	21.18	21.08	22.50		20.95	21.08	20.97	22.50	
SCPP Rel 8		21.58	21.67	21.61	23.00		21.48	21.80	21.59	23.00	
SCPP Rel 8		19.25	19.59	19.54	21.50		19.46	19.52	19.49	21.50	
SCPP Rel 8		20.61	20.59	20.63	22.00		20.41	20.49	20.53	22.00	
SCPP Rel 8		19.56	19.65	19.61	21.00		19.43	19.59	19.54	21.00	
SCPP Rel 8		21.51	21.67	21.63	23.00		21.46	21.55	21.46	23.00	
SCPP Rel 7		19.68	19.18	19.67	20.50		18.95	19.11	19.05	20.50	



GSM-R AVE 4		Rural Average Power (dBm)			Turn-up Limit		Flatten Average Power (dBm)			Turn-up Limit	
Tx Channel		128	160	201	Limit		128	160	201	Limit	
Frequency (MHz)		824.2	836.4	848.6	(dBm)		824.2	836.4	848.6	(dBm)	
GSM 1 Tx side		31.57	31.50	31.43	32.50		33.27	32.30	32.23	33.50	
GPRS 1 Tx side		31.21	31.09	31.16	32.00		32.21	32.29	32.15	33.00	
GPRS 2 Tx side		30.28	30.30	30.20	31.00		34.28	34.30	34.20	35.00	
GPRS 3 Tx side		29.36	29.41	29.30	30.00		34.36	34.41	34.30	35.00	
GPRS 4 Tx side		27.13	27.18	27.15	28.00		34.13	34.18	34.15	35.00	
EDGE 1 Tx side		26.05	26.07	26.11	27.00		31.05	31.07	31.11	32.00	
EDGE 2 Tx side		24.79	24.81	24.76	25.00		18.79	18.81	18.76	19.00	
EDGE 3 Tx side		23.60	22.81	23.72	23.00		18.54	18.56	18.46	19.00	
EDGE 4 Tx side		21.34	21.07	21.03	22.00		18.34	18.37	18.33	19.00	

Band		WCDMA V AVE 4			Turn-up Limit	
Tx Channel		4132	4140	4133	Limit	
Rx Channel		4057	4057	4058	(dBm)	
Frequency (MHz)		824.2	836.4	848.6	(dBm)	
SCPP Rel 99		25.15	25.18	25.00	25.00	
SCPP Rel 99		22.23	22.05	22.18	23.00	
SCPP Rel 8		21.10	21.07	21.15	22.00	
SCPP Rel 8		21.18	21.05	21.19	22.00	
SCPP Rel 8		20.72	20.70	20.66	21.00	
SCPP Rel 8		20.88	20.86	20.76	21.00	
SCPP Rel 8		21.21	21.20	21.18	22.00	
SCPP Rel 8		21.05	21.10	21.21	22.00	
SCPP Rel 8		20.71	20.75	20.65	21.00	
SCPP Rel 8		20.74	20.78	20.69	21.00	
SCPP Rel 8		21.22	21.20	21.16	22.00	
SCPP Rel 8		19.41	19.25	19.34	20.00	
SCPP Rel 8		20.22	20.31	20.17	21.00	
SCPP Rel 8		19.22	19.28	19.24	20.00	
SCPP Rel 8		21.28	21.02	21.15	22.00	
SCPP Rel 7		18.79	18.77	18.63	19.00	

Band 5 Ant 0														
SV (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MFR (dB)						
Channel														
800 806.5 844														
10	QPSK	1	0	22.38	22.42	22.29	24	0						
10	QPSK	1	25	22.26	22.30	22.23								
10	QPSK	1	49	22.33	22.34	22.22								
10	QPSK	25	0	21.33	21.37	21.24								
10	QPSK	25	12	21.30	21.31	21.28	23	1						
10	QPSK	25	25	21.27	21.31	21.24								
10	QPSK	50	0	21.28	21.30	21.26								
10	16QAM	1	0	21.21	21.26	21.14								
10	16QAM	1	25	21.23	21.19	21.19	23	1						
10	16QAM	1	49	21.23	21.18	21.20								
10	16QAM	25	0	20.35	20.39	20.22								
10	16QAM	25	12	20.29	20.35	20.30								
10	16QAM	25	25	20.31	20.30	20.24	22	2						
10	16QAM	50	0	20.34	20.30	20.23								
10	64QAM	1	0	20.15	20.24	20.19								
10	64QAM	1	26	20.24	20.14	20.24								
10	64QAM	1	49	20.20	20.16	20.20	22	2						
10	64QAM	25	0	19.37	19.35	19.26								
10	64QAM	25	12	19.25	19.27	19.24								
10	64QAM	25	25	19.33	19.29	19.30								
10	64QAM	50	0	19.33	19.31	19.24	19	5						
10	256QAM	1	25	17.26	17.30	17.27								
10	256QAM	1	25	17.28	17.25	17.21								
10	256QAM	1	49	17.23	17.32	17.21								
10	256QAM	25	12	17.26	17.27	17.24	19	5						
10	256QAM	25	25	17.22	17.28	17.11								
10	256QAM	25	25	17.20	17.20	17.17								
10	256QAM	50	0	17.22	17.23	17.18								
Channel														
20415 20425 20455 20465														
5	QPSK	1	0	22.26	22.37	22.26	24	0						
5	QPSK	1	12	22.17	22.28	22.13								
5	QPSK	1	24	22.22	22.25	22.08								
5	QPSK	12	0	21.26	21.30	21.12								
5	QPSK	12	7	21.19	21.18	21.20	23	1						
5	QPSK	12	13	21.15	21.28	21.19								
5	QPSK	25	0	21.25	21.23	21.23								
5	16QAM	1	0	21.09	21.16	21.02								
5	16QAM	1	12	21.11	21.12	21.12	23	1						
5	16QAM	1	24	21.19	21.09	21.18								
5	16QAM	12	0	20.23	20.32	20.08								
5	16QAM	12	7	20.18	20.22	20.24								
5	16QAM	12	13	20.30	20.24	20.12	22	2						
5	16QAM	25	0	20.23	20.25	20.10								
5	64QAM	1	0	20.13	20.13	20.08								
5	64QAM	1	12	20.15	20.21	20.18								
5	64QAM	1	24	20.07	20.11	20.13	22	2						
5	64QAM	12	0	19.24	19.29	19.22								
5	64QAM	12	7	19.26	19.23	19.23								
5	64QAM	12	13	19.29	19.25	19.25								
5	64QAM	12	13	19.29	19.25	19.25	21	3						
5	64QAM	25	0	19.29	19.20	19.17								
5	256QAM	1	12	17.25	17.25	17.25								
5	256QAM	1	12	17.19	17.18	17.24								
5	256QAM	1	24	17.14	17.24	17.15	19	5						
5	256QAM	12	0	17.26	17.21	17.22								
5	256QAM	12	7	17.09	17.14	17.06								
5	256QAM	12	13	17.21	17.07	17.07								
5	256QAM	25	0	17.20	17.20	17.12	19	5						
Channel														
20415 20425 20455 20465														
3	QPSK	1	0	22.25	22.35	22.24	24	0						
3	QPSK	1	8	22.13	22.25	22.15								
3	QPSK	1	14	22.22	22.29	22.16								
3	QPSK	8	0	21.23	21.26	21.18								
3	QPSK	8	4	21.16	21.28	21.15	23	1						
3	QPSK	8	7	21.14	21.26	21.19								
3	16QAM	1	8	21.24	21.25	21.16								
3	16QAM	1	0	21.12	21.21	21.09								
3	16QAM	1	8	21.11	21.15	21.06	23	1						
3	16QAM	1	14	21.18	21.12	21.09								
3	16QAM	8	0	20.32	20.33	20.19								
3	16QAM	8	4	20.24	20.29	20.27								
3	16QAM	8	7	20.35	20.21	20.12	22	2						
3	16QAM	15	0	20.29	20.24	20.10								
3	64QAM	1	0	20.04	20.19	20.11								
3	64QAM	1	8	20.17	20.01	20.14								
3	64QAM	1	14	20.09	20.09	20.18	21	3						
3	64QAM	8	0	19.28	19.35	19.17								
3	64QAM	8	4	19.10	19.14	19.15								
3	64QAM	8	7	19.27	19.19	19.21								
3	64QAM	15	0	19.30	19.26	19.22	19	5						
3	256QAM	1	0	17.34	17.26	17.1								
3	256QAM	1	8	17.20	17.22	17.26								
3	256QAM	1	14	17.16	17.25	17.11								
3	256QAM	8	0	17.14	17.17	17.13	19	5						
3	256QAM	8	4	17.15	17.22	17.06								
3	256QAM	8	7	17.26	17.18	17.11								
3	256QAM	15	0	17.27	17.21	17.07								
Channel														
20407 20428 20463 20483														
1.4	QPSK	1	0	22.35	22.35	22.25	24	0						
1.4	QPSK	1	3	22.15	22.30	22.15								
1.4	QPSK	1	5	22.26	22.20	22.15								
1.4	QPSK	3	0	22.20	22.30	22.14								
1.4	QPSK	3	1	22.05	22.24	22.09	23	1						
1.4	QPSK	3	3	22.14	22.13	22.05								
1.4	QPSK	6	0	21.04	21.25	21.13								
1.4	16QAM	1	0	21.14	21.16	21.04								
1.4	16QAM	1	3	21.16	21.16	21.10	23	1						
1.4	16QAM	1	6	21.14	21.12	21.16								
1.4	16QAM	3	0	21.18	21.19	21.06								
1.4	16QAM	3	1	21.06	21.07	21.01								
1.4	16QAM	3	3	21.09	21.10	21.05	22	2						
1.4	16QAM	6	0	20.25	20.30	20.20								
1.4	64QAM	1	0	20.08	20.20	20.06								
1.4	64QAM	1	3	20.21	20.10	20.10								
1.4	64QAM	1	5	20.14	20.07	20.17	22	2						
1.4	64QAM	3	0	20.22	20.21	20.14								
1.4	64QAM	3	1	20.01	20.07	20.03								
1.4	64QAM	3	3	20.08	20.04	20.03								
1.4	64QAM	6	0	19.23	19.21	19.14	21	3						
1.4	256QAM	1	0	17.24	17.29	17.13								
1.4	256QAM	1	3	17.20	17.19	17.14								
1.4	256QAM	1	5	17.11	17.20	17.19								
1.4	256QAM	3	0	17.24	17.25	17.18	19	5						
1.4	256QAM	3	1	17.13	17.18	17.05	19	5						
1.4	256QAM	3	3	17.16	17.09	17.03								
1.4	256QAM	6	0	17.16	17.16	17.05								
1.4	256QAM	6	3	17.16	17.09	17.03								

Band 17 Ant 0														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up (mHz)	MPE (dB)						
Channel														
Frequency (MHz)														
700 710 711														
10	QPSK	1	0	22.19	22.20	22.22	24	0						
10	QPSK	1	26	22.12	22.19	22.11								
10	QPSK	1	49	22.16	22.22	22.09	23	1						
10	QPSK	25	0	21.25	21.30	21.22								
10	QPSK	25	12	21.11	21.13	21.18								
10	QPSK	25	26	21.07	21.21	21.12								
10	QPSK	50	0	21.16	21.26	21.16	23	1						
10	16QAM	1	0	21.28	21.29	21.14								
10	16QAM	1	26	21.09	21.09	21.02								
10	16QAM	1	49	21.04	21.15	21.08								
10	16QAM	25	0	20.38	20.37	20.35	22	2						
10	16QAM	25	12	20.10	20.20	20.03								
10	16QAM	25	26	20.07	20.15	20.16								
10	16QAM	50	0	20.22	20.27	20.13								
10	64QAM	1	0	20.19	20.20	20.08	22	2						
10	64QAM	1	26	20.03	20.07	20.09								
10	64QAM	1	49	20.07	20.15	20.05								
10	64QAM	25	0	19.22	19.34	19.24								
10	64QAM	25	12	19.04	19.05	19.16	21	3						
10	64QAM	25	26	19.20	19.16	19.11								
10	64QAM	50	0	19.19	19.34	19.16								
10	64QAM	50	0	17.27	17.27	17.27								
10	256QAM	1	26	17.13	17.04	17.11	19	5						
10	256QAM	1	49	17.13	17.16	17.14								
10	256QAM	25	0	17.12	17.20	17.26	19	5						
10	256QAM	25	12	17.26	17.28	17.03								
10	256QAM	25	26	17.17	17.00	17.01								
10	256QAM	50	0	16.97	17.16	16.98								
Channel														
Frequency (MHz)														
706.5 710 713.5														
5	QPSK	1	0	22.18	22.18	22.15	24	0						
5	QPSK	1	12	22.06	22.16	22.10								
5	QPSK	1	24	22.14	22.11	22.10	23	1						
5	QPSK	12	0	21.22	21.26	21.19								
5	QPSK	12	7	21.01	21.10	21.12								
5	QPSK	12	13	21.08	21.14	21.09								
5	QPSK	25	0	21.11	21.16	21.13	23	1						
5	16QAM	1	0	21.22	21.27	21.05								
5	16QAM	1	12	21.08	21.14	21.13								
5	16QAM	1	24	21.22	21.04	21.08								
5	16QAM	12	0	20.36	20.23	20.26	22	2						
5	16QAM	12	7	20.11	20.13	20.02								
5	16QAM	12	13	20.51	20.14	20.06								
5	16QAM	25	0	20.20	20.28	20.09								
5	64QAM	1	0	20.09	20.17	20.01	22	2						
5	64QAM	1	12	21.13	20.09	20.01								
5	64QAM	1	24	20.06	20.05	20.01								
5	64QAM	12	0	19.15	19.35	19.16								
5	64QAM	12	7	19.03	19.15	19.05	21	3						
5	64QAM	12	13	19.12	19.15	19.05								
5	64QAM	25	0	19.16	19.26	19.14								
5	256QAM	1	0	17.17	17.26	17.23								
5	256QAM	1	12	17.07	17.07	17.12	19	5						
5	256QAM	1	24	17.08	17.06	17.12								
5	256QAM	12	0	17.04	17.24	17.16	19	5						
5	256QAM	12	7	17.21	17.18	17.07								
5	256QAM	12	13	17.14	17.24	17.12								
5	256QAM	25	0	17.08	17.11	17.12								

Band 26 Ant 0															
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up (mHz)	MPE (dB)							
Channel															
Frequency (MHz)															
821.5 831.5 841.5															
15	QPSK	1	0	22.44	22.53	22.35	24	0							
15	QPSK	1	37	22.33	22.41	22.28									
15	QPSK	1	74	22.40	22.42	22.27	23	1							
15	QPSK	36	0	21.36	21.48	21.37									
15	QPSK	36	20	21.43	21.40	21.37									
15	QPSK	36	36	21.35	21.35	21.28									
15	QPSK	75	0	21.40	21.41	21.34	23	1							
15	16QAM	1	0	21.25	21.29	21.25									
15	16QAM	1	37	21.31	21.28	21.31									
15	16QAM	1	74	21.33	21.24	21.23									
15	16QAM	36	0	20.46	20.48	20.38	22	2							
15	16QAM	36	20	20.32	20.38	20.36									
15	16QAM	36	36	20.24	20.38	20.24									
15	16QAM	75	0	20.37	20.48	20.24									
15	64QAM	1	0	20.18	20.30	20.21	22	2							
15	64QAM	1	37	20.37	20.16	20.33									
15	64QAM	1	74	20.22	20.38	20.30									
15	64QAM	36	0	19.40	19.38	19.27									
15	64QAM	36	20	19.27	19.33	19.24	21	3							
15	64QAM	36	36	19.46	19.35	19.43									
15	64QAM	75	0	19.42	19.35	19.26									
15	256QAM	1	0	17.41	17.57	17.25	19	5							
15	256QAM	1	37	17.42	17.38	17.28									
15	256QAM	1	74	17.27	17.41	17.26	19	5							
15	256QAM	36	0	17.32	17.43	17.28									
15	256QAM	36	20	17.25	17.41	17.13									
15	256QAM	36	36	17.34	17.22	17.22									
15	256QAM	75	0	17.24	17.31	17.23									
Channel															
Frequency (MHz)															
819 831.5 844															
10	QPSK	1	0	22.30	22.39	22.31	24	0							
10	QPSK	1	26	22.24	22.38	22.14									
10	QPSK	1	49	22.31	22.34	22.29	23	1							
10	QPSK	25	0	21.25	21.44	21.33									
10	QPSK	25	12	21.39	21.30	21.24									
10	QPSK	25	26	21.29	21.29	21.15									
10	QPSK	50	0	21.34	21.39	21.31	23	1							
10	16QAM	1	0	21.16	21.17	21.16									
10	16QAM	1	25	21.25	21.16	21.25									
10	16QAM	1	49	21.30	21.13	21.13									
10	16QAM	25	0	20.40	20.37	20.24	22	2							
10	16QAM	25	12	20.22	20.30	20.31									
10	16QAM	25	26	20.34	20.30	20.24									
10	16QAM	50	0	20.25	20.43	20.30									
10	256QAM	1	0	17.41	17.57	17.25	19	5							
10	256QAM	1	37	17.42	17.38	17.28									
10	256QAM	1	74	17.27	17.41	17.26	19	5							
10	256QAM	36	0	17.32	17.43	17.28									
10	256QAM	36	20	17.25	17.41	17.13									
10	256QAM	36	36	17.34	17.22	17.22									
10	256QAM	75	0	17.24	17.31	17.23									
Channel															
Frequency (MHz)															
819.5 831.5 844.5															
5	QPSK	1	0	22.35	22.48	22.23	24	0							
5	QPSK	1	12	22.24	22.38	22.16									
5	QPSK	1	24	22.31	22.34	22.29	23	1							
5	QPSK	12	0	21.32	21.36	21.26									
5	QPSK	12	7	21.40	21.29	21.28									
5	QPSK	12	19	21.33	21.24	21.24									
5	QPSK	25	0	21.29	21.35	21.25	23	1							
5	16QAM	1	0	21.19	21.26	21.18									
5	16QAM	1	12	21.28	21.19	21.28									
5	16QAM	1	24	21.34	21.14	21.11									
5	16QAM	12	0	20.41	20.37	20.24	22	2							
5	16QAM	12	7	20.25	20.29	20.25									
5	16QAM	12	19	20.34	20.35	20.24									
5	16QAM	25	0	20.24	20.35	20.24									
5	16QAM	25	0	20.24	20.35	20.24	22	2							
5	16QAM	25	12	20.29	20.13	20.28									
5	16QAM	1	24	20.13	20.21	20.27									
5	16QAM	1	24	20.13	20.21	20.27									
5	16QAM	12	7	19.23	19.22	19.23	21	3							
5	16QAM	12	19	19.39	19.23	19.33									
5	16QAM	1	24	19.27	19.13	19.17									
5	256QAM	1	0	17.28	17.48	17.28	19	5							
5	256QAM	1	12	17.33	17.35	17.36									
5	256QAM	1	24	17.38	17.35	17.35	19	5							
5	256QAM	12	0	17.15	17.36	17.28									
5	256QAM	12	7	17.19	17.32	17.27									
5	256QAM	12	19	17.27	17.31	17.27									
5	256QAM	25	0	17.26	17.28	17.16									
Channel															
Frequency (MHz)															
815.5 831.5 847.5															
3	QPSK	1	0	22.34	22.46	22.25	24	0							
3	QPSK	1	8	22.26	22.32	22.22									
3	QPSK	1	16	22.31	22.31	22.22	23	1							
3	QPSK	8	0	21.35	21.35	21.26									
3	QPSK	8	4	21.39	21.35	21.28									
3	QPSK	8	12	21.35	21.28	21.28									
3	QPSK	15	0	21.33	21.33	21.23	23	1							
3	16QAM	1	0	21.21	21.22	21.21									
3	16QAM	1	16	21.21	21.21	21.15									
3	16QAM	1	16	21.21	21.21	21.15									
3	16QAM	8	0	20.43	20.40	20.21	22	2							
3	16QAM	8	8	20.38	20.39	20.28									
3	16QAM	8	7	20.35	20.34	20.22									
3	16QAM	15	0	20.26	20.39	20.23									
3	64QAM	1	0	20.29	20.10	20.31	22	2							
3	64QAM	1	14	20.09	20.22	20.22									
3	64QAM	1	14	20.09	20.22	20.22									
3	64QAM	8	4	19.24	19.23	19.35									
3	64QAM	8	7	19.36	19.27	19.35	21	3							
3	64QAM	8	14	19.25	19.28	19.28									
3	256QAM	1	0	17.29	17.44	17.21	19	5							
3	256QAM	1	8	17.32	17.39	17.26									
3	256QAM	1	16	17.35	17.35	17.26	19	5							
3	256QAM	8	0	17.30	17.31	17.20									
3	256QAM	8	4	17.13	17.38	17.28									
3	256QAM	8	12	17.27	17.33	17.27									
3	256QAM	15	0	17.30	17.18	17.20									
Channel															
Frequency (MHz)															
26697 26695 27033															
1.4	QPSK	1	0	22.36	22.42	22.28	24	0							
1.4	QPSK	1	0	22.20	22.45	22.25									
1.4	QPSK	1	0	22.30	22.30	22.23	23	1							
1.4	QPSK	1	0	22.38	22.38	22.21									
1.4	QPSK	8	0	22.09	22.34	22.21									
1.4	QPSK	8	0	22.23	22.40	22.25									
1.4	QPSK	1	0	21.30	21.38	21.25	23	1							
1.4	16QAM	1	0	21.20	21.27	21.15									
1.4	16QAM	1	0	21.22	21.22	21.15									
1.4	16QAM	8	0	21.18	21.18	21.24									
1.4	16QAM	8	0	21.28	21.29	21.17	22	2							
1.4	16QAM	8	0	21.10	21.18	21.13									
1.4	16QAM	8	0	20.29	20.33	20.23									
1.4	16QAM	8	0	20.34	20.34	20.23									
1.4	64QAM	1	0	20.27	20.14	20.20	22	2							
1.4	64QAM	1	0	20.18	20.10	20.26									
1.4	64QAM	8	0	20.24	20.26	20.20									
1.4	64QAM	8	0	20.10	20.16	20.20									
1.4	64QAM	8	0	20.11	20.09	20.18	21	3							
1.4	64QAM	8	0	20.25	20.25	20.20									
1.4	256QAM	1	0	17.31	17.38	17.27	19	5							
1.4	256QAM	1	0	17.27	17.37	17.27									
1.4	256QAM	8	0	17.31	17.34	17.24	19	5							
1.4	256QAM	8	0	17.20	17.30	17.19									
1.4	256QAM	8	0	17.22	17.33	17.24									
1.4	256QAM	8	0	17.33	17.23	17.19									

Band 2 Main&other PA Ant 1												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-on time (sec)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.21	22.23	22.19	24	0				
20	QPSK	1	48	22.18	22.18	22.18						
20	QPSK	1	96	22.18	22.11	22.06						
20	QPSK	50	0	21.22	21.27	21.21						
20	QPSK	50	24	21.15	21.14	21.16	23	1				
20	QPSK	50	50	21.18	21.16	21.05						
20	QPSK	100	0	21.20	21.25	21.20						
20	QPSK	100	0	21.22	21.19	21.12						
20	HQDM	1	48	21.10	21.11	21.15	23	1				
20	HQDM	1	99	21.17	21.14	21.11						
20	HQDM	50	24	20.21	20.26	20.26						
20	HQDM	50	50	20.19	20.25	20.23						
20	HQDM	100	0	20.25	20.27	20.25	22	2				
20	HQDM	1	0	20.28	20.19	20.21						
20	HQDM	1	48	20.17	20.21	20.16						
20	HQDM	1	99	20.20	20.21	20.15						
20	HQDM	50	0	19.21	19.25	19.19	21	3				
20	HQDM	50	24	19.25	19.15	19.21						
20	HQDM	100	0	19.31	19.28	19.30						
20	HQDM	1	48	17.28	17.14	17.22						
20	HQDM	1	99	17.19	17.22	17.05	19	5				
20	HQDM	50	24	17.22	17.24	17.25						
20	HQDM	50	50	17.27	17.25	17.19						
20	HQDM	100	0	17.16	17.19	17.17						
Channel				18657	18656	18655	Turn-on time (sec)	MPR (dB)				
Frequency (MHz)												
15	QPSK	1	0	22.15	22.16	22.18	24	0				
15	QPSK	1	48	22.18	22.18	22.18						
15	QPSK	1	74	22.19	22.12	22.01						
15	QPSK	36	0	21.15	21.20	21.13						
15	QPSK	36	36	21.17	21.14	21.03	23	1				
15	QPSK	75	0	21.19	21.21	21.13						
15	HQDM	1	0	21.14	21.11	21.12						
15	HQDM	1	37	21.00	21.02	21.14						
15	HQDM	1	74	21.08	21.07	21.02	23	1				
15	HQDM	36	0	20.12	20.37	20.25						
15	HQDM	36	20	20.15	20.24	20.23						
15	HQDM	36	0	20.12	20.27	20.25						
15	HQDM	75	0	20.22	20.27	20.25	22	2				
15	HQDM	1	0	20.24	20.15	20.14						
15	HQDM	1	37	20.13	20.12	20.14						
15	HQDM	1	74	20.12	20.15	20.14						
15	HQDM	36	0	19.14	19.22	19.30	21	3				
15	HQDM	36	0	19.14	19.22	19.30						
15	HQDM	36	36	19.11	19.13	19.17						
15	HQDM	75	0	19.30	19.26	19.27						
15	HQDM	1	37	17.25	17.27	17.25	19	5				
15	HQDM	1	74	17.15	17.18	17.04						
15	HQDM	36	0	17.25	17.26	17.25						
15	HQDM	36	20	17.20	17.24	17.13						
15	HQDM	36	36	17.16	17.18	17.08	19	5				
15	HQDM	75	0	17.11	17.12	17.08						
Channel				18650	18650	18650				Turn-on time (sec)	MPR (dB)	
Frequency (MHz)												
10	QPSK	1	0	22.18	22.18	22.18	24	0				
10	QPSK	1	25	22.07	22.15	22.03						
10	QPSK	1	48	22.15	22.07	22.03						
10	QPSK	25	12	21.08	21.06	21.13						
10	QPSK	25	25	21.10	21.08	21.00	23	1				
10	QPSK	50	0	21.15	21.14	21.15						
10	HQDM	1	0	21.10	21.10	21.11						
10	HQDM	1	25	21.08	21.11	21.08						
10	HQDM	1	48	21.08	21.11	21.08	22	2				
10	HQDM	25	0	20.14	20.28	20.22						
10	HQDM	25	12	20.19	20.23	20.20						
10	HQDM	50	0	20.20	20.22	20.24						
10	HQDM	1	0	20.19	20.15	20.21	22	2				
10	HQDM	1	25	20.12	20.15	20.12						
10	HQDM	1	48	20.16	20.16	20.16						
10	HQDM	25	0	19.21	19.25	19.23						
10	HQDM	25	12	19.18	19.05	19.03	21	3				
10	HQDM	25	25	19.15	19.07	19.14						
10	HQDM	50	0	19.22	19.25	19.27						
10	HQDM	1	0	17.23	17.33	17.17						
10	HQDM	1	25	17.23	17.15	17.15	19	5				
10	HQDM	1	48	17.15	17.17	17.05						
10	HQDM	25	12	17.25	17.18	17.11						
10	HQDM	25	25	17.10	17.11	17.11						
10	HQDM	50	0	17.14	17.11	17.13	Turn-on time (sec)	MPR (dB)				
Frequency (MHz)												
5	QPSK	1	0	22.12	22.18	22.15	24	0				
5	QPSK	1	12	22.04	22.12	22.02						
5	QPSK	1	24	22.16	22.05	22.02						
5	QPSK	12	0	21.15	21.15	21.15						
5	QPSK	12	7	21.09	21.08	21.05	23	1				
5	QPSK	12	13	21.14	21.13	21.03						
5	QPSK	25	0	21.15	21.15	21.15						
5	HQDM	1	0	21.20	21.14	21.04						
5	HQDM	1	12	21.01	21.03	21.08	23	1				
5	HQDM	1	13	21.11	21.11	21.11						
5	HQDM	12	0	20.21	20.31	20.19						
5	HQDM	12	7	20.13	20.25	20.20						
5	HQDM	12	0	20.25	20.15	20.03	22	2				
5	HQDM	25	0	20.22	20.20	20.23						
5	HQDM	1	0	20.29	20.16	20.13						
5	HQDM	1	12	20.18	20.20	20.11						
5	HQDM	1	24	20.13	20.19	20.12	21	3				
5	HQDM	12	0	19.17	19.31	19.25						
5	HQDM	12	7	19.18	19.13	19.19						
5	HQDM	12	13	19.18	19.18	19.13						
5	HQDM	25	0	19.26	19.19	19.28	19	5				
5	HQDM	15	0	17.21	17.32	17.19						
5	HQDM	1	12	17.21	17.12	17.12						
5	HQDM	1	24	17.20	17.19	17.02						
5	HQDM	12	0	17.23	17.17	17.22	19	5				
5	HQDM	12	7	17.27	17.15	17.15						
5	HQDM	12	13	17.19	17.15	17.15						
5	HQDM	25	0	17.19	17.05	17.05						
Channel				18651	18650	18650	Turn-on time (sec)	MPR (dB)				
Frequency (MHz)												
3	QPSK	1	0	22.20	22.20	22.15	24	0				
3	QPSK	1	8	22.04	22.15	22.08						
3	QPSK	1	14	22.12	22.05	22.08						
3	QPSK	8	0	21.20	21.25	21.19						
3	QPSK	8	4	21.08	21.04	21.16	23	1				
3	QPSK	8	7	21.16	21.09	21.04						
3	QPSK	15	0	21.13	21.17	21.18						
3	HQDM	1	0	21.12	21.09	21.06						
3	HQDM	1	8	21.09	21.06	21.09	23	1				
3	HQDM	1	14	21.08	21.07	21.05						
3	HQDM	8	0	20.21	20.35	20.17						
3	HQDM	8	4	20.12	20.20	20.19						
3	HQDM	15	0	20.26	20.12	20.14	22	2				
3	HQDM	1	0	20.07	20.21	20.06						
3	HQDM	1	8	19.18	19.24	19.18						
3	HQDM	8	0	19.16	19.32	19.20						
3	HQDM	8	4	19.16	19.16	19.11	21	3				
3	HQDM	15	0	19.13	19.19	19.08						
3	HQDM	1	0	17.22	17.32	17.19						
3	HQDM	1	8	17.15	17.23	17.13						
3	HQDM	1	14	17.17	17.20	17.00	19	5				
3	HQDM	15	0	17.27	17.25	17.25						
3	HQDM	8	0	17.23	17.16	17.10						
3	HQDM	8	7	17.16	17.13	17.12						
3	HQDM	15	0	17.15	17.05	17.07	Turn-on time (sec)	MPR (dB)				
Frequency (MHz)												
1.4	QPSK	1	0	22.22	22.20	22.05	24	0				
1.4	QPSK	1	8	22.06	22.15	22.08						
1.4	QPSK	1	14	22.12	22.05	22.08						
1.4	QPSK	3	0	22.07	22.01	22.03						
1.4	QPSK	3	3	22.14	22.04	22.07	23	1				
1.4	QPSK	3	12	22.15	22.14	21.02						
1.4	HQDM	1	0	21.23	21.14	21.02						
1.4	HQDM	1	3	21.01	21.03	21.07						
1.4	HQDM	1	12	21.08	21.03	21.08	23	1				
1.4	HQDM	3	0	21.27	21.19	21.11						
1.4	HQDM	3	1	21.21	21.17	21.00						
1.4	HQDM	3	1	21.02	21.05	20.07						
1.4	HQDM	6	0	20.26	20.21	20.25	22	2				
1.4	HQDM	1	0	20.24	20.08	20.14						
1.4	HQDM	1	6	20.07	20.13	20.14						
1.4	HQDM	1	12	20.21	20.20	20.15						
1.4	HQDM	3	0	20.21	20.20	20.21	22	2				
1.4	HQDM	3	6	20.26	20.13	20.05						
1.4	HQDM	3	6	20.29	20.19	20.24						
1.4	HQDM	3	12	20.19	20.19	20.24						
1.4	HQDM	3	6	19.20	19.19	19.26	21	3				
1.4	HQDM	3	12	17.15	17.25	17.19						
1.4	HQDM	1	0	17.19	17.13	17.11						
1.4	HQDM	1	3	17.16	17.15	17.06						
1.4	HQDM	3	0	17.26	17.12	17.19	19	5				
1.4	HQDM	3	1	17.17	17.16	17.10						
1.4	HQDM	3	1	17.16	17.16	17.10						
1.4	HQDM	3	6	17.14	17.12	17.15						

Band 25 Ant 1														
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch / Freq. 1800	Power Middle Ch / Freq. 1880	Power High Ch / Freq. 1900	Turn-up time (sec)	MPE (dB)						
Channel														
1800 1880 1900														
20	QPSK	1	0	22.30	22.33	22.26	24	0						
20	QPSK	1	49	22.18	22.29	22.18								
20	QPSK	1	99	22.26	22.17	22.15								
20	QPSK	50	0	21.25	21.30	21.22								
20	QPSK	50	24	21.24	21.12	21.28	23	1						
20	QPSK	50	50	21.27	21.18	21.10								
20	QPSK	100	0	21.26	21.32	21.21								
20	16QAM	1	0	21.28	21.29	21.28								
20	16QAM	1	49	21.12	21.14	21.20	23	1						
20	16QAM	1	99	21.18	21.26	21.21								
20	16QAM	50	0	20.27	20.33	20.33								
20	16QAM	50	24	20.25	20.20	20.33								
20	16QAM	50	50	20.28	20.31	20.16	22	2						
20	16QAM	100	0	20.35	20.32	20.34								
20	64QAM	1	0	20.31	20.25	20.28								
20	64QAM	1	49	20.27	20.25	20.19								
20	64QAM	1	99	20.28	20.34	20.28	21	3						
20	64QAM	50	0	19.31	19.35	19.33								
20	64QAM	50	24	19.29	19.26	19.27								
20	64QAM	100	0	19.31	19.30	19.17								
20	256QAM	1	49	17.27	17.41	17.23	19	5						
20	256QAM	1	99	17.21	17.25	17.21								
20	256QAM	50	0	17.33	17.33	17.29								
20	256QAM	50	24	17.33	17.28	17.28								
20	256QAM	50	50	17.27	17.30	17.26	19	5						
20	256QAM	100	0	17.27	17.30	17.26								
Channel														
1807.5 1880 1907.5														
15	QPSK	1	0	22.27	22.23	22.15	24	0						
15	QPSK	1	37	22.07	22.20	22.10								
15	QPSK	1	74	22.21	22.12	22.07								
15	QPSK	36	0	21.14	21.31	21.12								
15	QPSK	36	25	21.14	21.11	21.25	23	1						
15	QPSK	36	39	21.25	21.08	21.02								
15	QPSK	75	0	21.19	21.19	21.17								
15	16QAM	1	0	21.15	21.16	21.04								
15	16QAM	1	37	21.04	21.17	21.11	23	1						
15	16QAM	1	74	21.27	21.17	21.28								
15	16QAM	36	0	20.20	20.33	20.20								
15	16QAM	36	25	20.16	20.24	20.24								
15	16QAM	75	0	20.33	20.34	20.28	22	2						
15	64QAM	1	0	20.22	20.20	20.16								
15	64QAM	1	37	20.15	20.24	20.28								
15	64QAM	1	74	20.23	20.25	20.25								
15	64QAM	36	0	19.18	19.30	19.26	21	3						
15	64QAM	36	25	19.20	19.25	19.24								
15	64QAM	36	39	19.22	19.05	19.05								
15	64QAM	75	0	19.27	19.31	19.21								
15	256QAM	1	37	17.29	17.17	17.13	19	5						
15	256QAM	1	74	17.11	17.26	17.01								
15	256QAM	36	0	17.23	17.26	17.23								
15	256QAM	36	25	17.26	17.19	17.23								
15	256QAM	36	39	17.16	17.26	17.15	19	5						
15	256QAM	75	0	17.05	17.11	17.12								
Channel														
1805 1880 1910														
10	QPSK	1	0	22.22	22.26	22.15	24	0						
10	QPSK	1	25	22.15	22.16	22.15								
10	QPSK	1	49	22.16	22.08	22.07								
10	QPSK	25	0	21.23	21.24	21.24								
10	QPSK	25	12	21.14	21.15	21.18	23	1						
10	QPSK	25	25	21.15	21.08	21.06								
10	QPSK	50	0	21.19	21.22	21.14								
10	16QAM	1	0	21.18	21.09	21.05								
10	16QAM	1	25	21.02	21.05	21.09	23	1						
10	16QAM	1	50	21.12	21.16	21.11								
10	16QAM	25	0	20.21	20.30	20.26								
10	16QAM	25	12	20.13	20.23	20.28								
10	16QAM	50	0	20.22	20.32	20.28	22	2						
10	16QAM	50	25	20.28	20.19	20.18								
10	64QAM	1	0	20.15	20.15	20.09								
10	64QAM	1	49	20.25	20.36	20.25								
10	64QAM	25	0	19.18	19.24	19.27	21	3						
10	64QAM	25	12	19.20	19.16	19.16								
10	64QAM	25	25	19.14	19.10	19.13								
10	64QAM	50	0	19.27	19.25	19.29								
10	256QAM	1	49	17.13	17.20	17.11	19	5						
10	256QAM	1	25	17.23	17.16	17.07								
10	256QAM	1	50	17.11	17.20	17.07								
10	256QAM	25	0	17.21	17.27	17.21								
10	256QAM	25	12	17.26	17.28	17.21	19	5						
10	256QAM	25	25	17.24	17.21	17.16								
10	256QAM	50	0	17.14	17.13	17.07								
Channel														
1805 1880 1910														
5	QPSK	1	0	22.17	22.20	22.15	24	0						
5	QPSK	1	12	22.15	22.25	22.13								
5	QPSK	1	24	22.22	22.15	22.06								
5	QPSK	12	0	21.20	21.28	21.15								
5	QPSK	12	7	21.17	21.10	21.23	23	1						
5	QPSK	12	13	21.13	21.13	21.08								
5	QPSK	25	0	21.22	21.21	21.07								
5	16QAM	1	0	21.24	21.08	21.12								
5	16QAM	1	12	21.05	21.08	21.18	23	1						
5	16QAM	1	24	21.14	21.25	21.17								
5	16QAM	12	0	20.18	20.38	20.29								
5	16QAM	12	7	20.13	20.20	20.26								
5	16QAM	12	14	20.25	20.21	20.07	22	2						
5	16QAM	25	0	20.21	20.29	20.24								
5	64QAM	1	0	20.28	20.20	20.16								
5	64QAM	1	12	20.22	20.22	20.12								
5	64QAM	1	24	20.23	20.23	20.18	21	3						
5	64QAM	12	0	19.19	19.26	19.26								
5	64QAM	12	7	19.20	19.24	19.27								
5	64QAM	12	14	19.24	19.17	19.14								
5	64QAM	25	0	19.23	19.27	19.21	19	5						
5	64QAM	25	0	17.16	17.31	17.15								
5	256QAM	1	12	17.23	17.18	17.18								
5	256QAM	1	24	17.12	17.30	17.06								
5	256QAM	12	0	17.20	17.30	17.22	19	5						
5	256QAM	12	7	17.29	17.18	17.21								
5	256QAM	12	14	17.23	17.21	17.16								
5	256QAM	25	0	17.14	17.12	17.11								



Band 2 Main&other PA Ant 4												
BW [MHz]	Modulation	RB Size	RB Offset	Power Main Ch./Freq.	Power Hsp Ch./Freq.	Power Main Ch./Freq.	Turnup Time (Sec)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	21.55	21.49	21.34	23	0				
20	QPSK	1	8	21.55	21.51	21.56						
20	QPSK	1	99	21.59	21.56	21.26	22	1				
20	QPSK	50	0	20.57	20.46	20.42						
20	QPSK	50	24	20.29	20.40	20.28	22	1				
20	QPSK	50	50	20.29	20.32	20.35						
20	QPSK	100	0	20.39	20.41	20.38	22	1				
20	QPSK	100	50	20.39	20.39	20.39						
20	QPSK	1	49	20.21	20.46	20.16	21	2				
20	QPSK	1	99	20.25	20.27	20.21						
20	QPSK	1	0	19.38	19.45	19.43	21	2				
20	QPSK	50	24	19.27	19.44	19.16						
20	QPSK	50	50	19.21	19.33	19.24	20	3				
20	QPSK	100	0	19.41	19.27	19.20						
20	QPSK	1	0	19.24	19.46	19.31	21	2				
20	QPSK	1	49	19.29	19.31	19.14						
20	QPSK	50	0	18.22	18.31	18.39	20	3				
20	QPSK	50	24	18.28	18.39	18.21						
20	QPSK	50	50	18.25	18.38	18.26	18	5				
20	QPSK	100	0	18.42	18.48	18.32						
20	QPSK	100	50	18.41	18.25	18.35	18	5				
20	QPSK	1	99	18.28	18.39	18.27						
20	QPSK	1	0	18.25	18.38	18.29	18	5				
20	QPSK	50	24	18.40	18.34	18.29						
20	QPSK	50	50	18.18	18.26	18.19	18	5				
20	QPSK	100	0	18.29	18.29	18.29						
Channel												
Frequency (MHz)												
15	QPSK	1	0	19.57	19.60	19.55	23	0				
15	QPSK	1	8	19.57	21.37	21.29						
15	QPSK	1	74	21.23	21.22	21.24	22	1				
15	QPSK	36	0	20.25	20.34	20.33						
15	QPSK	36	24	20.28	20.37	20.28	22	1				
15	QPSK	36	99	20.22	20.30	20.29						
15	QPSK	75	0	20.27	20.30	20.26	22	1				
15	QPSK	75	0	20.28	20.28	20.34						
15	QPSK	1	37	20.11	20.32	20.12	22	1				
15	QPSK	1	99	20.12	20.18	20.19						
15	QPSK	36	0	19.28	19.40	19.31	21	2				
15	QPSK	36	20	19.20	19.38	19.15						
15	QPSK	36	99	19.30	19.24	19.15	21	2				
15	QPSK	75	0	19.31	19.31	19.16						
15	QPSK	1	0	19.21	19.39	19.25	21	2				
15	QPSK	1	99	19.21	19.39	19.40						
15	QPSK	1	74	19.15	19.20	19.05	20	3				
15	QPSK	36	0	18.17	18.19	18.36						
15	QPSK	36	99	18.22	18.39	18.36	18	5				
15	QPSK	36	20	18.22	18.25	18.14						
15	QPSK	75	0	18.38	18.40	18.22	18	5				
15	QPSK	75	0	18.38	18.38	18.38						
15	QPSK	1	37	18.35	18.36	18.20	18	5				
15	QPSK	1	74	18.22	18.33	18.19						
15	QPSK	36	20	18.22	18.27	18.16	18	5				
15	QPSK	36	99	18.28	18.27	18.21						
15	QPSK	36	50	18.11	18.20	18.10	18	5				
15	QPSK	36	50	18.12	18.11	18.21						
Channel												
Frequency (MHz)												
10	QPSK	1	0	18.03	18.03	18.05	23	0				
10	QPSK	1	25	21.22	21.16	21.25						
10	QPSK	1	49	21.18	21.36	21.17	22	1				
10	QPSK	25	0	20.22	20.36	20.18						
10	QPSK	25	12	20.22	20.35	20.18	22	1				
10	QPSK	25	25	20.22	20.18	20.32						
10	QPSK	1	0	20.28	20.27	20.29	22	1				
10	QPSK	1	0	20.28	20.27	20.29						
10	QPSK	1	25	20.18	20.31	20.03	21	2				
10	QPSK	1	25	20.18	20.32	20.18						
10	QPSK	25	12	19.23	19.40	19.15	21	2				
10	QPSK	25	12	19.23	19.38	19.15						
10	QPSK	50	0	19.35	19.32	19.22	20	3				
10	QPSK	50	0	19.18	19.35	19.20						
10	QPSK	1	49	19.15	19.32	19.18	20	3				
10	QPSK	1	49	19.24	19.18	19.03						
10	QPSK	25	0	18.14	18.19	18.36	20	3				
10	QPSK	25	0	18.23	18.25	18.25						
10	QPSK	50	25	18.24	18.26	18.16	18	5				
10	QPSK	50	0	18.37	18.37	18.22						
10	QPSK	1	25	18.15	18.39	18.22	18	5				
10	QPSK	1	25	18.32	18.20	18.17						



Band 12 Ant 4														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turnup (dB)	MPE (dB)						
Channel														
Frequency (MHz)														
10	QPSK	1	0	22.47	22.43	22.48	24	0						
10	QPSK	1	25	22.44	22.48	22.44								
10	QPSK	1	49	22.44	22.43	22.44								
10	QPSK	25	0	21.45	21.50	21.45								
10	QPSK	25	12	21.38	21.48	21.43	23	1						
10	QPSK	25	25	21.40	21.42	21.48								
10	QPSK	50	0	21.46	21.46	21.43								
10	16QAM	1	0	21.45	21.45	21.46								
10	16QAM	1	25	21.28	21.45	21.35	23	1						
10	16QAM	1	49	21.40	21.37	21.38								
10	16QAM	25	0	20.49	20.44	20.49								
10	16QAM	25	12	20.34	20.52	20.37								
10	16QAM	25	25	20.46	20.36	20.46	22	2						
10	16QAM	50	0	20.44	20.27	20.37								
10	64QAM	1	0	20.47	20.45	20.48								
10	64QAM	1	25	20.31	20.41	20.32								
10	64QAM	1	49	20.44	20.37	20.43	22	2						
10	64QAM	25	0	19.48	19.55	19.41								
10	64QAM	25	12	18.35	19.46	19.45								
10	64QAM	25	25	19.38	19.43	19.32								
10	64QAM	50	0	19.47	19.50	19.39	19	5						
10	256QAM	1	0	17.46	17.47	17.46								
10	256QAM	1	25	17.43	17.45	17.46								
10	256QAM	1	49	17.40	17.40	17.42								
10	256QAM	25	0	17.40	17.51	17.43	19	5						
10	256QAM	25	12	17.47	17.47	17.49								
10	256QAM	25	25	17.24	17.47	17.35								
10	256QAM	50	0	17.20	17.31	17.34								
Channel														
Frequency (MHz)														
5	QPSK	1	0	22.38	22.40	22.40	24	0						
5	QPSK	1	12	22.36	22.46	22.37								
5	QPSK	1	24	22.36	22.42	22.42								
5	QPSK	12	0	21.39	21.47	21.43								
5	QPSK	12	7	21.29	21.45	21.40	23	1						
5	QPSK	12	13	21.31	21.43	21.38								
5	QPSK	25	0	21.45	21.39	21.41								
5	16QAM	1	0	21.40	21.35	21.45								
5	16QAM	1	12	21.22	21.35	21.34	23	1						
5	16QAM	1	24	21.31	21.32	21.36								
5	16QAM	12	0	20.47	20.36	20.42								
5	16QAM	12	7	20.24	20.49	20.29								
5	16QAM	12	13	20.37	20.37	20.31	22	2						
5	16QAM	25	0	20.40	20.39	20.35								
5	64QAM	1	0	20.38	20.42	20.49								
5	64QAM	1	12	20.33	20.38	20.31								
5	64QAM	1	24	20.40	20.35	20.35	21	3						
5	64QAM	12	0	19.45	19.46	19.32								
5	64QAM	12	7	19.40	19.51	19.34								
5	64QAM	12	13	19.38	19.35	19.43								
5	64QAM	25	0	19.38	19.48	19.31	19	5						
5	256QAM	1	0	17.37	17.43	17.31								
5	256QAM	1	12	17.34	17.41	17.36								
5	256QAM	1	24	17.41	17.35	17.36								
5	256QAM	12	0	17.44	17.50	17.33	19	5						
5	256QAM	12	7	17.40	17.41	17.42								
5	256QAM	12	13	17.13	17.38	17.36								
5	256QAM	25	0	17.33	17.34	17.34								
Channel														
Frequency (MHz)														
3	QPSK	1	0	22.43	22.45	22.42	24	0						
3	QPSK	1	8	22.37	22.35	22.39								
3	QPSK	1	14	22.37	22.41	22.34								
3	QPSK	8	0	21.37	21.59	21.44								
3	QPSK	8	4	21.33	21.39	21.41	23	1						
3	QPSK	8	7	21.31	21.38	21.38								
3	16QAM	1	0	21.43	21.45	21.44								
3	16QAM	1	0	21.35	21.40	21.40								
3	16QAM	1	8	21.28	21.42	21.25	23	1						
3	16QAM	8	0	21.30	21.36	21.37								
3	16QAM	8	0	20.49	20.41	20.49								
3	16QAM	8	4	20.26	20.43	20.34								
3	16QAM	8	7	20.43	20.36	20.45	22	2						
3	64QAM	15	0	20.39	20.45	20.29								
3	64QAM	1	0	20.45	20.40	20.39								
3	64QAM	1	8	20.32	20.38	20.33								
3	64QAM	1	14	20.35	20.29	20.42	21	3						
3	64QAM	8	0	19.47	19.45	19.36								
3	64QAM	8	4	19.39	19.36	19.39								
3	64QAM	8	7	19.38	19.43	19.41								
3	64QAM	15	0	19.36	19.39	19.34	19	5						
3	256QAM	1	0	17.47	17.53	17.53								
3	256QAM	1	8	17.33	17.39	17.42								
3	256QAM	1	14	17.41	17.35	17.40								
3	256QAM	8	0	17.40	17.45	17.36	19	5						
3	256QAM	8	4	17.47	17.38	17.36								
3	256QAM	8	7	17.17	17.45	17.29								
3	256QAM	15	0	17.26	17.53	17.36								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	22.41	22.45	22.39	24	0						
1.4	QPSK	1	3	22.35	22.36	22.38								
1.4	QPSK	1	5	22.41	22.40	22.45								
1.4	QPSK	3	0	22.35	22.37	22.29								
1.4	QPSK	3	1	22.28	22.33	22.30	23	1						
1.4	QPSK	3	3	22.31	22.41	22.35								
1.4	QPSK	8	0	21.37	21.39	21.37								
1.4	16QAM	1	0	21.35	21.38	21.43								
1.4	16QAM	1	3	21.19	21.40	21.32	23	1						
1.4	16QAM	1	5	21.40	21.27	21.27								
1.4	16QAM	3	0	21.28	21.34	21.29								
1.4	16QAM	3	1	21.24	21.28	21.36								
1.4	16QAM	10	3	21.10	21.36	21.26	22	2						
1.4	16QAM	6	0	20.42	20.46	20.32								
1.4	64QAM	1	0	20.44	20.42	20.40								
1.4	64QAM	1	3	20.29	20.37	20.29								
1.4	64QAM	1	5	20.33	20.35	20.36	22	2						
1.4	64QAM	3	0	20.37	20.44	20.27								
1.4	64QAM	3	1	20.42	20.40	20.40								
1.4	64QAM	3	3	20.23	20.35	20.26								
1.4	64QAM	6	0	19.44	19.56	19.31	21	3						
1.4	256QAM	1	0	17.40	17.44	17.41								
1.4	256QAM	1	3	17.34	17.37	17.39								
1.4	256QAM	1	5	17.40	17.37	17.37								
1.4	256QAM	3	0	17.50	17.40	17.42	19	5						
1.4	256QAM	3	1	17.37	17.40	17.40								
1.4	256QAM	3	3	17.25	17.36	17.36								
1.4	256QAM	6	0	17.36	17.37	17.36	19	5						



Band 25 Ant 4														
BW (MHz)	Modulation	RIS Size	RF Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up Init. (dB)	MFR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	21.39	21.53	21.42	23	0						
20	QPSK	1	49	21.32	21.41	21.41								
20	QPSK	1	99	21.38	21.47	21.46	22	1						
20	QPSK	50	0	20.49	20.55	20.50								
20	QPSK	50	24	20.38	20.49	20.41	22	1						
20	QPSK	50	50	20.38	20.38	20.38								
20	QPSK	100	0	20.45	20.51	20.48	22	1						
20	16QAM	50	0	20.43	20.45	20.44								
20	16QAM	1	49	20.34	20.43	20.38	22	1						
20	16QAM	1	99	20.27	20.34	20.28								
20	16QAM	50	0	19.47	19.49	19.48	21	2						
20	16QAM	50	24	19.39	19.53	19.27								
20	16QAM	50	50	19.30	19.46	19.44	21	2						
20	16QAM	100	0	19.45	19.52	19.27								
20	64QAM	1	0	19.33	19.47	19.31	21	2						
20	64QAM	1	49	19.40	19.38	19.25								
20	64QAM	50	0	19.38	19.43	19.30	20	3						
20	64QAM	50	0	18.35	18.41	18.44								
20	64QAM	50	24	18.38	18.43	18.30	20	3						
20	64QAM	50	50	18.39	18.48	18.38								
20	256QAM	100	0	18.45	18.52	18.44	18	5						
20	256QAM	1	49	18.45	18.35	18.31								
20	256QAM	1	99	18.39	18.43	18.33	18	5						
20	256QAM	50	24	18.47	18.42	18.43								
20	256QAM	50	50	18.26	18.39	18.32	20	3						
20	256QAM	100	0	18.31	18.39	18.32								
Channel														
Frequency (MHz)														
18	QPSK	1	0	21.55	21.69	21.57	23	0						
18	QPSK	1	37	21.29	21.31	21.34								
18	QPSK	1	74	21.34	21.38	21.41	22	1						
18	QPSK	36	0	20.53	20.53	20.51								
18	QPSK	36	20	20.33	20.40	20.33	22	1						
18	QPSK	36	39	20.32	20.30	20.37								
18	QPSK	75	0	20.54	20.56	20.54	22	1						
18	16QAM	1	0	20.42	20.43	20.38								
18	16QAM	1	37	20.34	20.40	20.38	22	1						
18	16QAM	1	74	20.32	20.34	20.37								
18	16QAM	35	0	19.46	19.48	19.44	21	2						
18	16QAM	35	20	19.30	19.47	19.21								
18	16QAM	35	49	19.46	19.42	19.27	21	2						
18	16QAM	75	0	19.46	19.42	19.25								
18	64QAM	1	0	19.35	19.42	19.34	21	2						
18	64QAM	1	37	19.36	19.39	19.27								
18	64QAM	1	74	19.34	19.35	19.21	21	2						
18	64QAM	35	0	18.37	18.34	18.39								
18	64QAM	35	49	18.36	18.41	18.40	20	3						
18	64QAM	35	39	18.39	18.45	18.33								
18	64QAM	75	0	18.46	18.53	18.36	18	5						
18	256QAM	1	0	18.46	18.32	18.36								
18	256QAM	1	37	18.46	18.38	18.32	18	5						
18	256QAM	1	74	18.32	18.43	18.31								
18	256QAM	35	20	18.42	18.41	18.40	18	5						
18	256QAM	35	39	18.19	18.38	18.23								
18	256QAM	75	0	18.34	18.39	18.35	20	3						
18	256QAM	100	0	18.34	18.39	18.35								
Channel														
Frequency (MHz)														
18	QPSK	1	0	21.97	21.48	21.41	23	0						
18	QPSK	1	25	21.29	21.41	21.40								
18	QPSK	1	49	21.35	21.45	21.42	22	1						
18	QPSK	25	12	20.33	20.49	20.25								
18	QPSK	25	25	20.41	20.35	20.31	22	1						
18	QPSK	50	0	20.32	20.40	20.34								
18	16QAM	1	0	20.39	20.42	20.40	22	1						
18	16QAM	1	25	20.33	20.46	20.30								
18	16QAM	1	49	20.32	20.34	20.37	21	2						
18	16QAM	25	0	19.39	19.41	19.42								
18	16QAM	25	12	18.38	18.51	18.23	21	2						
18	16QAM	35	0	19.35	19.40	19.40								
18	16QAM	50	0	19.47	19.44	19.30	21	2						
18	64QAM	1	0	19.32	19.45	19.24								
18	64QAM	1	25	19.32	19.40	19.24	21	2						
18	64QAM	1	49	19.40	19.37	19.26								
18	64QAM	25	0	18.30	18.38	18.43	20	3						
18	64QAM	25	12	18.33	18.40	18.25								
18	64QAM	25	25	18.38	18.45	18.34	20	3						
18	64QAM	50	0	18.43	18.49	18.34								
18	256QAM	1	0	18.39	18.47	18.38	18	5						
18	256QAM	1	25	18.43	18.24	18.25								
18	256QAM	25	0	18.38	18.42	18.39	18	5						
18	256QAM	25	12	18.49	18.33	18.36								
18	256QAM	25	25	18.26	18.40	18.29	18	5						
18	256QAM	50	0	18.31	18.27	18.38								
Channel														
Frequency (MHz)														
5	QPSK	1	0	21.32	21.48	21.41	23	0						
5	QPSK	1	12	21.24	21.35	21.37								
5	QPSK	1	24	21.34	21.40	21.41	22	1						
5	QPSK	12	0	20.47	20.52	20.45								
5	QPSK	12	7	20.30	20.50	20.33	22	1						
5	QPSK	12	13	20.35	20.37	20.30								
5	QPSK	20	0	20.43	20.45	20.45	22	1						
5	16QAM	1	0	20.38	20.38	20.38								
5	16QAM	1	12	20.26	20.42	20.28	22	1						
5	16QAM	1	24	20.20	20.27	20.24								
5	16QAM	12	0	19.40	19.51	19.40	22	1						
5	16QAM	12	7	19.39	19.47	19.29								
5	16QAM	12	13	19.32	19.44	19.32	21	2						
5	16QAM	25	0	19.46	19.45	19.27								
5	64QAM	1	0	19.35	19.40	19.34	21	2						
5	64QAM	1	12	19.32	19.36	19.24								
5	64QAM	1	24	19.39	19.28	19.24	21	2						
5	64QAM	12	0	18.32	18.34	18.42								
5	64QAM	12	7	18.34	18.37	18.25	20	3						
5	64QAM	12	13	18.31	18.43	18.23								
5	64QAM	25	0	18.46	18.49	18.39	18	5						
5	256QAM	1	0	18.39	18.53	18.35								
5	256QAM	1	12	18.43	18.30	18.34	18	5						
5	256QAM	1	24	18.34	18.42	18.27								
5	256QAM	12	0	18.44	18.41	18.48	18	5						
5	256QAM	12	7	18.36	18.41	18.35								
5	256QAM	12	13	18.36	18.41	18.31	18	5						
5	256QAM	25	0	18.27	18.26	18.35								
Channel														
Frequency (MHz)														
3	QPSK	1	0	21.40	21.47	21.35	23	0						
3	QPSK	1	3	21.26	21.31	21.32								
3	QPSK	1	14	21.27	21.41	21.34	22	1						
3	QPSK	8	0	20.47	20.51	20.47								
3	QPSK	8	7	20.30	20.50	20.29	22	1						
3	QPSK	8	7	20.34	20.35	20.34								
3	QPSK	15	0	20.40	20.50	20.47	22	1						
3	QPSK	15	7	20.43	20.43	20.48								
3	16QAM	1	0	20.26	20.38	20.25	21	2						
3	16QAM	1	14	20.23	20.34	20.27								
3	16QAM	1	39	20.26	20.32	20.28	21	2						
3	16QAM	8	4	19.31	19.46	19.27								
3	16QAM	8	7	19.28	19.41	19.39	21	2						
3	16QAM	8	13	19.37	19.43	19.30								
3	16QAM	8	19	19.38	19.48	19.35	20	3						
3	64QAM	1	0	19.30	19.40	19.23								
3	64QAM	1	8	19.40	19.39	19.40	20	3						
3	64QAM	8	0	18.29	18.32	18.40								
3	64QAM	8	4	18.39	18.43	18.27	20	3						
3	64QAM	8	15	18.37	18.43	18.30								
3	64QAM	15	0	18.40	18.49	18.44	18	5						
3	256QAM	1	0	18.35	18.40	18.35								
3	256QAM	1	8	18.43	18.35	18.42	18	5						
3	256QAM	1	14	18.37	18.45	18.30								
3	256QAM	8	0	18.35	18.34	18.41	18	5						
3	256QAM	8	7	18.42	18.38	18.44								
3	256QAM	3	1	18.39	18.41	18.35	18	5						
3	256QAM	3	7	18.24	18.38	18.27								
3	256QAM	6	0	18.33	18.40	18.35	18	5						
3	256QAM	6	0	18.33	18.23	18.38								
Channel														
Frequency (MHz)														
14	QPSK	1	0	21.67	21.80	21.67	23	0						
14	QPSK	1	3	21.26	21.40	21.34								
14	QPSK	1	5	21.33	21.40	21.33	22	1						
14	QPSK	3	0	20.41	20.46	20.42								
14	QPSK	3	3	21.22	21.26	21.09	22	1						
14	QPSK	3	3	21.28	21.31	21.32								
14	16QAM	1	0	20.48	20.48	20.48	22	1						
14	16QAM	1	3	20.38	20.43	20.45								
14	16QAM	1	3	20.30	20.44	20.28	22	1						
14	16QAM	3	0	20.35	20.40	20.35								
14	16QAM	3	3	20.46	20.45	20.49	21	2						
14	16QAM	6	0	19.45	19.47	19.34								
14	16QAM	6	0	19.34	19.45	19.29	21	2						
14	16QAM	6	3	19.39	19.43	19.27								
14	16QAM	6	3	19.25	19.30	19.18	21							



Band 38 Main&other PA Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				37950	38050	38150			
20	QPSK	1	0	22.30	22.50	22.30			
20	QPSK	1	48	22.46	22.47	22.36	24	0	
20	QPSK	1	88	22.57	22.58	22.36			
20	QPSK	50	0	21.38	21.51	21.25			
20	QPSK	50	24	21.48	21.46	21.33	23	1	
20	QPSK	50	50	21.46	21.29	21.40			
20	QPSK	100	0	21.41	21.47	21.28			
20	QPSK	100	1	21.31	21.44	21.25	23	1	
20	QPSK	100	1	21.46	21.29	21.40			
20	HQAM	1	99	21.35	21.39	21.24			
20	HQAM	50	24	20.46	20.42	20.37	22	2	
20	HQAM	50	50	20.48	20.43	20.37			
20	HQAM	100	0	20.46	20.39	20.34			
20	HQAM	100	1	20.52	20.51	20.25			
20	HQAM	1	49	20.46	20.53	20.35	22	2	
20	HQAM	1	99	20.35	20.22	20.30			
20	HQAM	50	0	19.35	19.47	19.26			
20	HQAM	50	24	19.49	19.53	19.37	21	3	
20	HQAM	50	50	19.45	19.31	19.33			
20	HQAM	100	0	19.26	19.47	19.26			
20	256QAM	1	0	17.33	17.42	17.32			
20	256QAM	1	49	17.37	17.33	17.38	19	5	
20	256QAM	1	99	17.36	17.31	17.30			
20	256QAM	50	0	17.43	17.37	17.36			
20	256QAM	50	24	17.33	17.29	17.27	19	5	
20	256QAM	50	50	17.37	17.25	17.27			
20	256QAM	100	0	17.30	17.27	17.19			
Channel									
Frequency (MHz)				37950	38050	38150			
15	QPSK	1	0	22.33	22.43	22.34			
15	QPSK	1	37	22.37	22.46	22.26	24	0	
15	QPSK	1	74	22.29	22.31	22.30			
15	QPSK	36	0	21.33	21.40	21.19			
15	QPSK	36	20	21.43	21.44	21.43	23	1	
15	QPSK	36	36	21.43	21.28	21.25			
15	QPSK	75	0	21.38	21.42	21.25			
15	HQAM	1	0	21.20	21.33	21.15			
15	HQAM	1	37	21.43	21.29	21.20	23	1	
15	HQAM	1	74	21.35	21.19	21.15			
15	HQAM	36	0	20.38	20.38	20.23			
15	HQAM	36	20	20.35	20.34	20.26	22	2	
15	HQAM	36	36	20.35	20.34	20.26			
15	HQAM	75	0	20.29	20.36	20.22			
15	HQAM	75	0	20.37	20.32	20.25			
15	HQAM	1	37	20.36	20.29	20.22	22	2	
15	HQAM	1	74	20.26	20.15	20.23			
15	HQAM	36	0	19.33	19.37	19.24			
15	HQAM	36	20	19.46	19.51	19.26	21	3	
15	HQAM	36	36	19.35	19.36	19.24			
15	HQAM	75	0	19.15	19.43	19.23			
15	256QAM	1	0	17.42	17.40	17.28	19	5	
15	256QAM	1	37	17.40	17.35	17.19			
15	256QAM	1	74	17.30	17.22	17.27			
15	256QAM	36	0	17.39	17.32	17.36			
15	256QAM	36	20	17.38	17.28	17.24	19	5	
15	256QAM	36	36	17.32	17.17	17.15			
15	256QAM	75	0	17.42	17.27	17.19			
Channel									
Frequency (MHz)				37950	38050	38150			
10	QPSK	1	0	22.33	22.43	22.34			
10	QPSK	1	25	22.40	22.46	22.26	24	0	
10	QPSK	1	49	22.32	22.23	22.31			
10	QPSK	1	87	22.37	22.34	22.30			
10	QPSK	25	12	21.47	21.35	21.27	23	1	
10	QPSK	25	25	21.30	21.26	21.27			
10	QPSK	25	49	21.33	21.29	21.18			
10	HQAM	1	0	21.22	21.49	21.16			
10	HQAM	1	25	21.30	21.19	21.28	23	1	
10	HQAM	1	49	21.33	21.20	21.18			
10	HQAM	25	0	20.25	20.37	20.22			
10	HQAM	25	12	20.46	20.36	20.24	22	2	
10	HQAM	25	25	20.32	20.34	20.25			
10	HQAM	50	0	20.27	20.40	20.24			
10	HQAM	50	12	20.34	20.40	20.27			
10	HQAM	1	25	20.35	20.29	20.30	22	2	
10	HQAM	1	49	20.22	20.15	20.23			
10	HQAM	25	0	19.25	19.40	19.20			
10	HQAM	25	12	19.39	19.42	19.28	21	3	
10	HQAM	25	25	19.38	19.28	19.29			
10	HQAM	50	0	19.32	19.46	19.27			
10	256QAM	1	0	17.27	17.41	17.25			
10	256QAM	1	25	17.40	17.25	17.34	19	5	
10	256QAM	1	49	17.25	17.39	17.24			
10	256QAM	25	0	17.42	17.34	17.27			
10	256QAM	25	12	17.45	17.28	17.20	19	5	
10	256QAM	25	25	17.28	17.22	17.21			
10	256QAM	50	0	17.38	17.37	17.18			

Band 41 Main&other PA Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power High Ch / Freq (Power)	Power Low Ch / Freq	Power Low Ch / Freq (Power)	Tune-up limit (dBm)	MPR (dB)
Channel											
Frequency (MHz)				39750	40185	40620	41055	41490			
20	QPSK	1	0	22.46	22.43	22.52	22.44	22.47			
20	QPSK	1	48	22.40	22.47	22.48	22.44	22.42	24	0	
20	QPSK	1	88	22.38	22.44	22.45	22.39	22.44			
20	QPSK	50	0	21.51	21.42	21.54	21.39	21.45			
20	QPSK	50	24	21.40	21.50	21.60	21.44	21.41	23	1	
20	QPSK	50	50	21.41	21.45	21.41	21.48	21.38			
20	QPSK	100	0	21.50	21.43	21.51	21.41	21.45			
20	16QAM	1	0	21.45	21.39	21.45	21.35	21.40	23		
20	16QAM	50	24	20.45	20.53	20.51	20.45	20.40			
20	16QAM	50	50	20.47	20.46	20.39	20.37	20.38	22	2	
20	16QAM	100	0	20.50	20.41	20.54	20.39	20.45			
20	16QAM	100	1	20.43	20.33	20.45	20.35	20.35			
20	16QAM	1	49	20.37	20.46	20.35	20.45	20.48	22	2	
20	16QAM	1	99	20.36	20.35	20.31	20.32	20.35			
20	16QAM	50	0	19.52	19.38	19.54	19.42	19.50			
20	16QAM	50	24	19.45	19.51	19.54	19.42	19.37	21	3	
20	16QAM	50	50	19.37	19.42	19.42	19.41	19.43			
20	16QAM	100	0	19.56	19.37	19.54	19.38	19.44			
20	256QAM	1	0	17.51	17.41	17.54	17.36	17.48			
20	256QAM	1	49	17.41	17.46	17.44	17.43	17.48	19	5	
20	256QAM	1	99	17.46	17.42	17.40	17.40	17.38			
20	256QAM	50	0	17.48	17.43	17.45	17.38	17.41			
20	256QAM	50	24	17.44	17.35	17.40	17.36	17.44	19	5	
20	256QAM	50	50	17.40	17.44	17.35	17.38	17.47			
20	256QAM	100	0	17.30	17.41	17.33	17.30	17.32			
Channel											
Frequency (MHz)				39750	40185	40620	41055	41490			
15	QPSK	1	0	22.43	22.38	22.46	22.34	22.37			
15	QPSK	1	37	22.29	22.46	22.39	22.44	22.38	24	0	
15	QPSK	1	74	22.33	22.38	22.44	22.38	22.42			
15	QPSK	36	0	21.41	21.39	21.42	21.27	21.48			
15	QPSK	36	20	21.38	21.50	21.39	21.33	21.29	23		
15	QPSK	36	36	21.35	21.43	21.49	21.38	21.36			
15	QPSK	75	0	21.47	21.31	21.43	21.31	21.42			
15	16QAM	1	0	21.36	21.38	21.42	21.23	21.37	23		
15	16QAM	1	37	21.36	21.45	21.39	21.43	21.37			
15	16QAM	1	74	21.35	21.28	21.19	21.29	21.22			
15	16QAM	36	0	20.51	20.46	20.48	20.42	20.45			
15	16QAM	36	20	20.32	20.40	20.40	20.35	20.36	22	2	
15	16QAM	36	36	20.43	20.36	20.25	20.34	20.35			
15	16QAM	75	0	20.39	20.35	20.48	20.26	20.48			
15	16QAM	75	0	20.34	20.29	20.39	20.21	20.48			
15	16QAM	1	37	20.33	20.41	20.28	20.34	20.41	22	2	
15	16QAM	1	74	20.27	20.33	20.27	20.26	20.34			
15	16QAM	36	0	19.51	19.36	19.47	19.32	19.43			
15	16QAM	36	20	19.44	19.45	19.44	19.35	19.33	21	3	
15	16QAM	36	36	19.31	19.36	19.37	19.32	19.43			
15	16QAM	75	0	19.51	19.37	19.50	19.37	19.34			
15	256QAM	1	0	17.43	17.30	17.52	17.32	17.45	19	5	
15	256QAM	1	37	17.40	17.42	17.31	17.36	17.34			
15	256QAM	1	74	17.37	17.31	17.33	17.36	17.32			
15	256QAM	36	0	17.37	17.41	17.38	17.33	17.32			
15	256QAM	36	20	17.38	17.28	17.35	17.29	17.42	19	5	
15	256QAM	36	36	17.37	17.35	17.34	17.38	17.34			
15	256QAM	75	0	17.47	17.47	17.31	17.36	17.42			
Channel											
Frequency (MHz)				39750	40185	40620	41055	41490			
10	QPSK	1	0	22.46	22.43	22.52	22.44	22.47			
10	QPSK	1	25	22.34	22.40	22.38	22.42	22.35	24	0	
10	QPSK	1	50	22.29	22.35	22.34	22.38	22.31			
10	QPSK	25	0	21.41	21.40	21.50	21.39	21.48			
10	QPSK	25	12	21.34	21.42	21.49	21.38	21.33	23	1	
10	QPSK	25	25	21.30	21.38	21.45	21.34	21.28			
10	QPSK	50	0	21.30	21.34	21.41	21.31	21.41			
10	16QAM	1	0	21.37	21.28	21.43	21.31	21.28	23		
10	16QAM	1	25	21.36	21.41	21.37	21.41	21.40			
10	16QAM	1	49	21.35	21.34	21.21	21.21	21.23			
10	16QAM	25	12	20.46	20.35	20.40	20.38	20.43			
10	16QAM	25	25	20.42	20.42	20.34	20.38	20.38	22		
10	16QAM	25	50	20.40	20.43	20.34	20.31	20.28			
10	16QAM	50	0	20.38	20.34	20.45	20.30	20.48			
10	16QAM	50	0	20.39	20.27	20.38	20.20	20.31			
10	16QAM	1	25	20.37	20.40	20.30	20.40	20.41	22	2	
10	16QAM	1	49	20.32	20.43	20.32	20.37	20.31			
10	16QAM	25	0	19.42	19.35	19.45	19.38	19.50			
10	16QAM	25	12	19.43	19.42	19.49	19.30	19.28	21	3	
10	16QAM	25	25	19.31	19.34	19.44	19.32	19.42			
10	16QAM	50	0	19.54	19.34	19.49	19.35	19.34			
10	16QAM	50	0	17.50	17.39	17.55	17.40	17.40			
10	256QAM	1	25	17.40	17.43	17.32	17.36	17.30	19	5	
10	256QAM	1	49	17.37	17.41	17.38	17.36	17.39			
10	256QAM	1	75	17.46	17.38	17.36	17.38	17.38			
10	256QAM	25	12	17.31	17.29	17.36	17.30	17.26	19	5	
10	256QAM	25	25	17.28	17.29	17.31	17.26	17.31			
10	256QAM	50	0	17.29	17.37	17.25	17.27	17.23			
Channel											
Frequency (MHz)				39675	40140	40620	41055	41565			
5	QPSK	1	0	22.46	22.43	22.52	22.44	22.47			
5	QPSK	1	12	22.29	22.44	22.44	22.40	22.37	24	0	
5	QPSK	1	25	22.26	22.41	22.41	22.37	22.34			
5	QPSK	12	0	21.41	21.38	21.51	21.39	21.38			
5	QPSK	12	7	21.30	21.42	21.48	21.42	21.31	23	1	
5	16QAM	1	12	21.34	21.43	21.43	21.43	21.34			
5	16QAM	1	25	21.47	21.41	21.43	21.36	21.31	23	1	
5	16QAM	1	37	21.39	21.36	21.30	21.34	21.31			
5	16QAM	12	12	20.38	20.47	21.34	21.33	21.38	23	1	
5	16QAM	1	24	21.31	21.36	21.25	21.22	21.28			
5	16QAM	1	37	20.54	20.39	20.45	20.45	20.47			
5	16QAM	12	7	20.45	20.45	20.40	20.34	20.31	22	2	
5	16QAM	12	13	20.32	20.38	20.35	20.30	20.27			
5	16QAM	25	0	19.38	19.32	19.42	19.35	19.48			
5	16QAM	1	12	20.25	20.38	20.31	20.37	20.35	22	2	
5	16QAM	1	25	19.39	19.39	19.39	19.39	19.37			
5	16QAM	12	13	19.32	19.33	19.41	19.40	19.38			
5	16QAM	25	0	19.49	19.33	19.53	19.38	19.31	21	3	
5	256QAM	1	0	17.47	17.41	17.42	17.37	17.43			
5	256QAM	1	12	17.30	17.44	17.32	17.41	17.37			
5	256QAM	1	24	17.35	17.32	17.38	17.36	17.39			
5	256QAM	12	13	17.48	17.40	17.27	17.38	17.27	19	5	
5	256QAM	12	7	17.38	17.25	17.38	17.26	17.37			
5	256QAM	12	13	17.37	17.41	17.23	17.35	17.46			
5	256QAM	12	13	17.21	17.37	17.25	17.27	17.23			



Band 42 FCC Part27Q Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-up time (min)	MPR (dB)		
Channel				42190	42260	42360				
Frequency (MHz)				3470	3490	3510				
20	QPSK	1	0	22.30	22.35	22.29	24	0		
20	QPSK	1	48	22.20	22.31	22.23				
20	QPSK	1	99	22.29	22.24	22.19				
20	QPSK	50	0	21.35	21.39	21.33				
20	QPSK	50	24	21.22	21.28	21.25	23	1		
20	QPSK	50	50	21.32	21.22	21.15				
20	QPSK	100	0	21.33	21.38	21.28				
20	16QAM	1	0	21.24	21.32	21.26				
20	16QAM	1	48	21.13	21.27	21.25	23	1		
20	16QAM	50	0	21.31	21.17	21.19				
20	16QAM	50	24	20.38	20.36	20.29				
20	16QAM	50	50	20.25	20.35	20.30				
20	16QAM	100	0	20.29	20.22	20.17	22	2		
20	16QAM	1	0	20.22	20.27	20.25				
20	16QAM	1	48	20.18	20.28	20.25				
20	16QAM	1	99	20.35	20.23	20.13				
20	16QAM	50	0	19.37	19.43	19.32	21	3		
20	16QAM	50	24	19.20	19.22	19.22				
20	16QAM	50	50	19.34	19.22	19.19				
20	16QAM	100	0	19.37	19.30	19.32				
20	256QAM	1	0	17.35	17.29	17.33	19	5		
20	256QAM	1	48	17.27	17.24	17.28				
20	256QAM	1	99	17.27	17.27	17.17				
20	256QAM	50	0	17.28	17.34	17.29				
20	256QAM	50	24	17.25	17.34	17.29	19	5		
20	256QAM	50	50	17.17	17.23	17.28				
20	256QAM	100	0	17.31	17.23	17.14				
Channel				42165 <th>42260</th> <th>42310</th> <th>Turn-up time (min)</th> <th colspan="2">MPR (dB)</th>	42260	42310	Turn-up time (min)		MPR (dB)	
Frequency (MHz)				3472.5	3505	3542.5				
15	QPSK	1	0	22.29	22.27	22.23	24		0	
15	QPSK	1	37	22.15	22.30	22.17				
15	QPSK	1	74	22.29	22.23	22.08				
15	QPSK	36	0	21.33	21.27	21.33				
15	QPSK	36	20	21.11	21.18	21.14	23	1		
15	QPSK	36	36	21.29	21.23	21.15				
15	QPSK	75	0	21.30	21.34	21.26				
15	16QAM	1	0	21.12	21.22	21.16				
15	16QAM	1	37	21.12	21.24	21.24	23	1		
15	16QAM	1	74	21.30	21.09	21.02				
15	16QAM	36	0	20.34	20.24	20.29				
15	16QAM	36	36	20.20	20.22	20.18				
15	16QAM	36	36	20.28	20.26	20.07	22	2		
15	16QAM	75	0	20.18	20.22	20.19				
15	16QAM	1	0	20.15	20.22	20.18				
15	16QAM	1	37	20.16	20.18	20.17				
15	16QAM	1	74	20.32	20.16	20.11	21	3		
15	16QAM	36	0	19.35	19.34	19.22				
15	16QAM	36	36	19.22	19.17	19.14				
15	16QAM	75	0	19.27	19.25	19.20				
15	256QAM	1	0	17.35	17.29	17.23	19	5		
15	256QAM	1	37	17.22	17.15	17.27				
15	256QAM	1	74	17.27	17.24	17.11				
15	256QAM	36	0	17.28	17.23	17.23				
15	256QAM	36	20	17.21	17.29	17.25	19	5		
15	256QAM	36	36	17.16	17.18	17.24				
15	256QAM	75	0	17.21	17.16	17.13				
Channel				42140	42260	42310	Turn-up time (min)		MPR (dB)	
Frequency (MHz)				3465	3505	3545				
10	QPSK	1	0	22.29	22.27	22.17	24	0		
10	QPSK	1	25	22.16	22.21	22.13				
10	QPSK	1	49	22.25	22.21	22.07				
10	QPSK	36	0	21.32	21.38	21.23				
10	QPSK	25	12	21.15	21.21	21.19	23	1		
10	QPSK	25	25	21.27	21.15	21.12				
10	QPSK	50	0	21.24	21.34	21.29				
10	16QAM	1	0	21.15	21.29	21.22				
10	16QAM	1	25	21.13	21.16	21.22	23	1		
10	16QAM	1	49	21.28	21.11	21.01				
10	16QAM	25	0	20.34	20.30	20.24				
10	16QAM	25	12	20.18	20.21	20.24				
10	16QAM	25	25	20.24	20.35	20.09	22	2		
10	16QAM	50	0	20.24	20.25	20.23				
10	16QAM	1	0	20.14	20.23	20.24				
10	16QAM	1	25	20.14	20.21	20.20				
10	16QAM	1	49	20.27	20.15	20.01	21	3		
10	16QAM	25	0	19.28	19.39	19.24				
10	16QAM	25	12	19.09	19.23	19.18				
10	16QAM	25	25	19.24	19.19	19.15				
10	16QAM	50	0	19.35	19.20	19.21	19	5		
10	256QAM	1	0	17.23	17.28	17.33				
10	256QAM	1	25	17.17	17.16	17.27				
10	256QAM	1	49	17.24	17.19	17.05				
10	256QAM	25	0	17.19	17.34	17.18	19	5		
10	256QAM	25	12	17.21	17.24	17.17				
10	256QAM	25	25	17.17	17.13	17.25				
10	256QAM	50	0	17.21	17.18	17.19				
Channel				42115	42260	42360	Turn-up time (min)		MPR (dB)	
Frequency (MHz)				3462.5	3505	3547.5				
5	QPSK	1	0	22.25	22.22	22.19	24	0		
5	QPSK	1	12	22.16	22.21	22.15				
5	QPSK	1	24	22.29	22.21	22.19				
5	QPSK	12	0	21.52	21.36	21.44				
5	QPSK	12	7	21.12	21.52	21.18	23	1		
5	QPSK	12	13	21.28	21.10	21.11				
5	QPSK	25	0	21.23	21.38	21.26				
5	16QAM	1	0	21.13	21.22	21.25				
5	16QAM	1	12	21.12	21.23	21.20	23	1		
5	16QAM	1	24	21.21	21.09	21.02				
5	16QAM	12	0	20.29	20.24	20.29				
5	16QAM	12	7	20.18	20.22	20.25				
5	16QAM	12	13	20.29	20.18	20.09	22	2		
5	16QAM	25	0	20.20	20.28	20.20				
5	16QAM	1	0	20.19	20.16	20.19				
5	16QAM	1	12	20.08	20.21	20.16				
5	16QAM	1	24	20.32	20.16	20.04	21	3		
5	16QAM	12	0	19.38	19.24	19.22				
5	16QAM	12	7	19.15	19.21	19.18				
5	16QAM	12	13	19.24	19.13	19.08				
5	256QAM	1	0	17.26	17.28	17.21	19	5		
5	256QAM	1	12	17.22	17.17	17.23				
5	256QAM	1	24	17.22	17.25	17.13				
5	256QAM	12	0	17.20	17.30	17.24				
5	256QAM	12	7	17.16	17.34	17.19	19	5		
5	256QAM	12	13	17.08	17.13	17.24				
5	256QAM	25	0	17.25	17.17	17.11				



Band 38 Main&other PA Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	21.47	21.52	21.50	21.50	23	0
20	QPSK	1	48	21.38	21.47	21.37	21.37		
20	QPSK	1	88	21.42	21.44	21.48	21.48		
20	QPSK	50	0	20.49	20.59	20.43	20.43		
20	QPSK	50	24	20.38	20.45	20.44	20.44		
20	QPSK	50	48	20.31	20.49	20.31	20.31	22	1
20	QPSK	100	0	20.45	20.51	20.43	20.43		
20	HQAM	1	0	20.34	20.39	20.37	20.37		
20	HQAM	1	48	20.37	20.42	20.39	20.39	22	1
20	HQAM	1	96	20.40	20.38	20.40	20.40		
20	HQAM	50	0	19.37	19.42	19.35	19.35		
20	HQAM	50	24	19.36	19.38	19.35	19.35		
20	HQAM	50	48	19.37	19.42	19.35	19.35	21	2
20	HQAM	50	96	19.44	19.50	19.44	19.44		
20	HQAM	100	0	19.46	19.47	19.47	19.47		
20	BAGM	1	0	19.25	19.35	19.25	19.25		
20	BAGM	1	48	19.23	19.31	19.34	19.34	21	2
20	BAGM	1	96	19.32	19.39	19.40	19.40		
20	BAGM	50	0	18.43	18.49	18.36	18.36		
20	BAGM	50	24	18.42	18.46	18.29	18.29		
20	BAGM	50	50	18.42	18.41	18.50	18.50	20	3
20	BAGM	100	0	18.51	18.51	18.48	18.48		
20	255QAM	1	0	18.48	18.51	18.42	18.42		
20	255QAM	1	48	18.44	18.50	18.48	18.48	18	5
20	255QAM	1	96	18.48	18.38	18.38	18.38		
20	255QAM	50	0	18.49	18.48	18.46	18.46		
20	255QAM	50	24	18.28	18.42	18.38	18.38	18	5
20	255QAM	50	50	18.28	18.40	18.31	18.31		
20	255QAM	100	0	18.27	18.30	18.27	18.27		
Channel									
Frequency (MHz)									
15	QPSK	1	0	21.73	21.75	21.73	21.73	23	0
15	QPSK	1	37	21.26	21.44	21.35	21.35		
15	QPSK	1	74	21.34	21.41	21.40	21.40		
15	QPSK	36	0	20.42	20.50	20.38	20.38	22	1
15	QPSK	36	20	20.29	20.42	20.40	20.40		
15	QPSK	75	0	20.44	20.47	20.38	20.38		
15	HQAM	1	0	20.35	20.39	20.38	20.38	22	1
15	HQAM	1	37	20.25	20.40	20.31	20.31		
15	HQAM	1	74	20.38	20.38	20.38	20.38		
15	HQAM	36	0	19.38	19.59	19.46	19.46	21	2
15	HQAM	36	19	19.32	19.42	19.35	19.35		
15	HQAM	36	39	19.33	19.48	19.45	19.45		
15	HQAM	75	0	19.44	19.47	19.37	19.37	21	2
15	HQAM	75	0	19.22	19.30	19.35	19.35		
15	BAGM	1	37	18.38	18.43	18.25	18.25	20	3
15	BAGM	36	0	18.32	18.36	18.40	18.40		
15	BAGM	36	20	18.38	18.43	18.28	18.28		
15	BAGM	75	0	18.45	18.41	18.45	18.45	18	5
15	255QAM	1	0	18.36	18.54	18.36	18.36		
15	255QAM	1	37	18.37	18.40	18.35	18.35		
15	255QAM	1	74	18.42	18.37	18.38	18.38		
15	255QAM	36	0	18.39	18.44	18.38	18.38	18	5
15	255QAM	36	20	18.38	18.42	18.40	18.40		
15	255QAM	36	39	18.20	18.36	18.30	18.30		
15	255QAM	75	0	18.24	18.36	18.30	18.30		
Channel									
Frequency (MHz)									
10	QPSK	1	0	21.71	21.75	21.71	21.71	23	0
10	QPSK	1	25	21.33	21.39	21.31	21.31		
10	QPSK	1	48	21.40	21.42	21.44	21.44		
10	QPSK	25	0	20.48	20.52	20.47	20.47	22	1
10	QPSK	25	12	20.38	20.40	20.41	20.41		
10	QPSK	25	25	20.33	20.34	20.39	20.39		
10	HQAM	1	0	20.24	20.39	20.35	20.35	22	1
10	HQAM	1	25	20.31	20.40	20.34	20.34		
10	HQAM	1	48	20.40	20.39	20.37	20.37		
10	HQAM	25	0	19.39	19.50	19.43	19.43	21	2
10	HQAM	25	12	19.24	19.42	19.38	19.38		
10	HQAM	25	25	19.35	19.40	19.45	19.45		
10	HQAM	50	0	19.41	19.47	19.37	19.37	21	2
10	BAGM	1	0	19.21	19.31	19.28	19.28		
10	BAGM	1	25	19.15	19.42	19.35	19.35	21	2
10	BAGM	1	48	19.31	19.28	19.39	19.39		
10	BAGM	25	0	18.38	18.39	18.39	18.39	20	3
10	BAGM	25	12	18.39	18.41	18.27	18.27		
10	BAGM	25	25	18.43	18.31	18.42	18.42		
10	BAGM	50	0	18.48	18.49	18.39	18.39	18	5
10	255QAM	1	0	18.42	18.49	18.40	18.40		
10	255QAM	1	25	18.37	18.51	18.45	18.45		
10	255QAM	1	48	18.45	18.52	18.35	18.35		
10	255QAM	25	0	18.46	18.46	18.45	18.45	18	5
10	255QAM	25	12	18.21	18.37	18.30	18.30		
10	255QAM	25	25	18.28	18.44	18.45	18.45		

Band 41 Main&other PA Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	21.65	21.68	21.63	21.63	23	0
20	QPSK	1	48	21.47	21.48	21.60	21.58		
20	QPSK	1	96	21.51	21.50	21.58	21.58		
20	QPSK	50	0	20.58	20.57	20.59	20.61	22	1
20	QPSK	50	24	20.45	20.47	20.60	20.56		
20	QPSK	50	48	20.50	20.52	20.58	20.54		
20	QPSK	100	0	20.54	20.57	20.61	20.60	22	1
20	16QAM	1	0	20.53	20.45	20.55	20.49		
20	16QAM	50	24	20.47	19.41	19.57	19.53	22	1
20	16QAM	1	96	20.49	20.47	20.55	20.57		
20	16QAM	50	0	19.52	19.53	19.66	19.64		
20	16QAM	50	24	19.41	19.41	19.57	19.53	21	2
20	16QAM	50	50	19.49	19.51	19.58	19.54		
20	16QAM	100	0	19.50	19.50	19.62	19.62		
20	64QAM	1	0	19.24	19.41	19.57	19.51	21	2
20	64QAM	1	48	19.28	19.39	19.54	19.49		
20	64QAM	1	96	19.53	19.42	19.55	19.52		
20	64QAM	50	0	18.55	18.60	18.51	18.57	20	3
20	64QAM	50	24	18.48	18.52	18.54	18.47		
20	64QAM	50	50	18.50	18.49	18.55	18.51		
20	64QAM	100	0	18.57	18.62	18.58	18.68	18	5
20	255QAM	1	0	18.52	18.57	18.69	18.59		
20	255QAM	1	48	18.48	18.53	18.58	18.58		
20	255QAM	1	96	18.45	18.55	18.62	18.54	18	5
20	255QAM	50	0	18.49	18.57	18.64	18.53		
20	255QAM	50	24	18.53	18.44	18.53	18.47		
20	255QAM	50	50	18.28	18.39	18.53	18.45	18	5
20	255QAM	100	0	18.50	18.43	18.50	18.43		
Channel									
Frequency (MHz)									
15	QPSK	1	0	21.53	21.63	21.53	21.53	23	0
15	QPSK	1	37	21.42	21.46	21.60	21.59		
15	QPSK	1	74	21.47	21.57	21.55	21.45		
15	QPSK	36	0	20.47	20.48	20.50	20.52	22	1
15	QPSK	36	20	20.37	20.40	20.54	20.48		
15	QPSK	75	0	20.52	20.48	20.50	20.48		
15	16QAM	1	0	20.51	20.34	20.52	20.39	22	1
15	16QAM	1	37	20.38	20.39	20.49	20.38		
15	16QAM	1	74	20.39	20.38	20.49	20.55		
15	16QAM	36	0	19.52	19.43	19.61	19.55	21	2
15	16QAM	36	19	19.53	19.40	19.55	19.55		
15	16QAM	36	39	19.48	19.45	19.48	19.40		
15	16QAM	75	0	19.61	19.55	19.53	19.60	21	2
15	64QAM	1	37	19.24	19.37	19.51	19.41	20	3
15	64QAM	74	0	19.37	19.42	19.55	19.49		
15	64QAM	36	0	18.46	18.50	18.51	18.55	18	5
15	64QAM	36	20	18.37	18.42	18.51	18.48		
15	64QAM	75	0	18.54	18.54	18.54	18.54		
15	255QAM	1	0	18.52	18.53	18.54	18.55	18	5
15	255QAM	1	37	18.48	18.62	18.60	18.48		
15	255QAM	1	74	18.37	18.46	18.41	18.55		
15	255QAM	36	0	18.48	18.52	18.49	18.53	21	2
15	255QAM	36	20	18.53	18.38	18.52	18.44		
15	255QAM	36	39	18.28	18.36	18.49	18.41		
15	255QAM	75	0	18.43	18.40	18.52	18.43	18	5
Channel									
Frequency (MHz)									
10	QPSK	1	0	21.41	21.51	21.41	21.41	23	0
10	QPSK	1	25	21.46	21.47	21.51	21.50		
10	QPSK	1	50	21.51	21.50	21.53	21.52		
10	QPSK	25	0	20.52	20.48	20.59	20.57	22	1
10	QPSK	25	12	20.38	20.43	20.54	20.48		
10	QPSK	25	25	20.41	20.43	20.55	20.54		
10	QPSK	50	0	20.50	20.56	20.59	20.53	22	1
10	16QAM	1	0	20.52	20.45	20.55	20.39	22	1
10	16QAM	1	25	20.39	20.39	20.49	20.34		
10	16QAM	1	50	20.40	20.43	20.45	20.51		
10	16QAM	25	0	19.40	19.51	19.60	19.54	20	3
10	16QAM	25	12	19.40	19.34	19.45	19.31		
10	16QAM	25	25	19.42	19.51	19.54	19.48		
10	16QAM	50	0	19.58	19.53	19.58	19.55		
10	64QAM	1	0	19.54	19.37	19.47	19.48	20	3
10	64QAM	1	25	19.28	19.35	19.58	19.44	20	3
10	64QAM	1	50	19.44	19.31	19.49	19.45		
10	64QAM	25	0	18.50	18.61	18.54	18.49		
10	64QAM	25	12	18.40	18.49	18.63	18.41		
10	64QAM	25	25	18.44	18.50	18.63	18.46	20	3
10	64QAM	50	0	18.56	18.60	18.52	18.65	18	5
10	64QAM	50	12	18.46	18.51	18.64	18.46		
10	255QAM	1	0	18.47	18.45	18.53	18.50	18	5
10	255QAM	1	49	18.44	18.51	18.65	18.53		
10	255QAM	25	0	18.44	18.47	18.55	18.47		
10	255QAM	25	12	18.44	18.34	18.48	18.40	18	5
10	255QAM	25	25	18.27	18.31	18.45	18.43		
10	255QAM	50	0	18.40	18.38	18.47	18.38		
Channel									
Frequency (MHz)									
5	QPSK	1	0	21.50	21.50	21.50	21.50	23	0
5	QPSK	1	12	21.44	21.45	21.50	21.44	23	0
5	QPSK	1	24	21.42	21.47	21.52	21.46		
5	QPSK	12	0	20.51	20.57	20.63	20.52	22	1
5	QPSK	12	6	20.43	20.47	20.52	20.43		
5	QPSK	12	12	20.48	20.48	20.51	20.51		
5	QPSK	25	0	20.49	20.49	20.50	20.47	22	1
5	16QAM	1	0	20.52	20.41	20.51	20.37	22	1
5	16QAM	1	24	20.49	20.48	20.49	20.50		
5	16QAM	12	0	19.51	19.57	19.60	19.55		
5	16QAM	12	7	19.30	19.38	19.58	19.47	21	2
5	16QAM	12	13	19.50	19.39	19.53	19.51		
5	64QAM	1	0	19.50	19.52	19.53	19.52		
5	64QAM	1	0	19.52	19.39	19.47	19.48		
5	64QAM	1	12	19.18	19.37	19.55	19.46	21	2
5	64QAM	1	24	19.42	19.36	19.52	19.48		
5	64QAM	12	0	18.46	18.54	18.59	18.50		
5	64QAM	12	6	18.47	18.50	18.53	18.46		
5	64QAM	12	13	18.42	18.43	18.53	18.51	20	3
5	255QAM	1	0	18.57	18.60	18.49	18.51		
5	255QAM	1	24	18.49	18.56	18.62	18.49		
5	255QAM	12	7	18.49	18.41	18.51	18.38	18	5
5	255QAM	12	13	18.20	18.28	18.43	18.26		
5	255QAM	25	0	18.40	18.43	18.47	18.41		



Reduced Power Mode for ECI 2

GERMIG And E ECG	Rated Average Power (dBm)			Turn-up			Flatten-Downage Power (dBm)			Turn-up		
	TX Channel	854.2	854.4	854.8	854.2	854.4	854.8	854.2	854.4	854.8	854.2	854.8
DMB 1 Tx Wd	31.72	31.81	31.89	33.00	22.72	22.81	22.86	24.50				
QPRS 1 Tx Wd	31.72	31.88	31.82	33.00	22.72	22.88	22.82	24.50				
QPRS 2 Tx Wd	30.95	30.99	30.92	32.00	24.05	24.99	24.92	26.00				
QPRS 3 Tx Wd	20.05	20.13	20.10	30.00	24.05	24.87	24.84	25.74				
QPRS 4 Tx Wd	27.79	27.87	27.82	29.00	24.79	24.87	24.82	26.00				
EDGE 1 Tx Wd	26.95	26.97	26.92	30.00	17.89	17.87	17.84	18.00				
EDGE 2 Tx Wd	20.39	20.31	20.30	30.00	19.39	19.31	19.29	20.00				
EDGE 3 Tx Wd	23.34	23.39	23.23	24.00	19.05	19.13	19.07	20.24				
EDGE 4 Tx Wd	27.85	27.89	27.79	29.00	19.83	19.85	19.79	20.00				

Band	WCDMA V And E ECG			Turn-up
	TX Channel	4150	4160	
TX Channel	4357	4407	4458	Turn-up
Frequency (MHz)	856.2	856.4	856.8	Turn-up
SCPP Rel 99	AMR 12.2kbps	22.38	22.49	22.44
SCPP Rel 99	RM12.2kbps	22.40	22.53	22.50
SCPP Rel 99	HSCPA Subclass-1	21.90	21.98	21.48
SCPP Rel 99	HSCPA Subclass-2	21.48	21.52	21.48
SCPP Rel 99	HSCPA Subclass-3	20.98	21.08	20.98
SCPP Rel 99	HSCPA Subclass-4	20.94	21.05	20.94
SCPP Rel 99	DCHSDPA Subclass-1	21.30	21.50	21.48
SCPP Rel 99	DCHSDPA Subclass-2	21.44	21.49	21.53
SCPP Rel 99	DCHSDPA Subclass-3	20.94	21.09	21.07
SCPP Rel 99	DCHSDPA Subclass-4	20.98	21.05	21.04
SCPP Rel 99	HSPA Subclass-1	21.55	21.58	21.47
SCPP Rel 99	HSPA Subclass-2	19.53	19.51	19.49
SCPP Rel 99	HSPA Subclass-3	20.90	20.99	20.48
SCPP Rel 99	HSPA Subclass-4	18.40	18.55	18.40
SCPP Rel 99	HSPA Subclass-5	21.54	21.48	21.48
SCPP Rel 7	HSFPA (TSCDMA) Subclass-1	18.95	19.08	19.00



GSM1900 AM 1 EC2	EIRP Average Power (dBm)			Turn-up Limit	EIRP Average Power (dBm)			Turn-up Limit
	810	867	810		867	867	810	
TX Channel	8662	8660	8668	8668	8662	8667	8660	8668
Frequency (MHz)	1901.2	1900	1900.8	1900	1901.2	1900	1900.8	1900
AMR 1 Tx limit	23.28	23.07	23.28	19.50	19.78	23.27	23.20	23.50
OPRS 1 Tx limit	28.07	29.04	29.02	19.50	19.87	29.04	29.02	23.50
OPRS 2 Tx limit	28.10	28.23	28.30	19.50	22.19	22.23	22.20	23.50
OPRS 3 Tx limit	28.32	28.27	28.34	17.50	21.36	22.01	21.08	23.50
OPRS 4 Tx limit	25.16	25.22	25.18	19.50	22.16	22.32	22.18	23.50
EDGE 2 Tx limit	23.71	23.71	23.84	19.00	14.71	14.71	14.84	16.00
EDGE 2 Tx limit	22.21	22.16	22.23	19.50	16.21	16.16	16.23	17.50
EDGE 3 Tx limit	22.16	22.29	22.11	17.50	16.06	16.06	16.09	17.50
EDGE 4 Tx limit	18.61	18.74	18.68	20.00	15.81	15.74	15.68	17.00

Band	WCDMA II AM 1 EC2			Turn-up Limit	WCDMA IV AM 1 EC2			Turn-up Limit
	9601	9605	9608		1513	1513	1513	
TX Channel	9602	9600	9606	9606	1517	1516	1516	1516
Frequency (MHz)	9602	9600	9606	9606	1517	1516	1516	1516
ISPP Rel 5a	AMR 12.2kbit/s	22.45	22.54	22.47	22.50	22.45	22.57	24.00
ISPP Rel 5b	RNC 12.2kbit/s	22.56	22.63	22.59	24.00	22.45	22.55	24.00
ISPP Rel 6	HSDPA Subclass 1	21.01	21.59	21.01	23.00	21.43	21.59	23.00
ISPP Rel 6	HSDPA Subclass 2	21.09	21.69	21.09	23.00	21.48	21.60	23.00
ISPP Rel 6	HSDPA Subclass 3	21.04	21.16	21.01	23.00	20.96	21.00	23.00
ISPP Rel 6	HSDPA Subclass 4	21.08	21.12	21.07	22.50	20.96	21.08	23.00
ISPP Rel 6	DCHSDPA Subclass 1	21.06	21.00	21.02	23.00	21.47	21.05	23.00
ISPP Rel 6	DCHSDPA Subclass 2	21.03	21.00	21.04	23.00	21.40	21.05	23.00
ISPP Rel 6	DCHSDPA Subclass 3	21.11	21.12	21.13	22.50	20.99	21.04	23.00
ISPP Rel 6	DCHSDPA Subclass 4	21.02	21.18	21.08	22.50	20.95	21.08	23.00
ISPP Rel 6	HSPA Subclass 1	21.06	21.67	21.61	23.00	21.48	21.60	23.00
ISPP Rel 6	HSPA Subclass 2	19.59	19.59	19.64	21.00	18.96	19.50	21.00
ISPP Rel 6	HSPA Subclass 3	20.01	20.09	20.03	22.00	20.41	20.49	22.00
ISPP Rel 6	HSPA Subclass 4	19.56	19.65	19.61	21.00	19.43	19.59	21.00
ISPP Rel 6	HSPA Subclass 5	21.01	21.07	21.03	23.00	21.46	21.50	23.00
ISPP Rel 7	HSPA+ (HS-AM) Subclass 1	19.08	19.18	19.07	20.50	18.95	19.11	20.50



GERM2 Airt 4 EC2	Burst Average Power (dBm)			Time-up Limit (dBm)	Frame Average Power (dBm)			Time-up Limit (dBm)
	Tx Channel	158	160	261	Tx Channel	158	160	261
Frequency (MHz)		836.2	836.4	846.8		836.2	836.4	846.8
QPRM 1 Tx rate		31.21	31.23	31.15	32.80	22.21	22.23	22.15
QPRM 1 Tx rate		28.77	28.80	28.71	29.50	22.77	22.80	22.71
QPRM 1 Tx rate		27.03	27.06	27.07	27.70	22.03	22.06	22.01
QPRM 1 Tx rate		25.49	25.54	25.52	25.50	22.49	22.54	22.52
EDGE 2 Tx rate		26.20	26.37	26.31	27.00	17.20	17.37	17.31
EDGE 2 Tx rate		24.70	24.81	24.70	25.50	16.70	16.81	16.70
EDGE 2 Tx rate		23.80	23.81	23.73	23.50	16.84	16.85	16.84
EDGE 4 Tx rate		21.24	21.37	21.03	22.00	16.24	16.37	16.23

Band	WCDMA V Airt 4 EC2			Time-up Limit (dBm)
	Tx Channel	4353	4352	4353
Frequency (MHz)		4357	4407	4408
SCPP Ref 10	AMR 12.2Kbps	21.45	21.47	21.41
SCPP Ref 10	RNC 12.2Kbps	21.47	21.48	21.46
SCPP Ref 6	HSDPA Subclass 1	20.43	20.45	20.39
SCPP Ref 6	HSDPA Subclass 2	20.40	20.46	20.40
SCPP Ref 6	HSDPA Subclass 3	19.04	19.06	19.00
SCPP Ref 6	HSDPA Subclass 4	18.98	19.01	18.94
SCPP Ref 6	DCHSDPA Subclass 1	20.44	20.47	20.42
SCPP Ref 6	DCHSDPA Subclass 2	20.52	20.49	20.51
SCPP Ref 6	DCHSDPA Subclass 3	19.90	19.96	19.85
SCPP Ref 6	DCHSDPA Subclass 4	19.93	20.04	19.90
SCPP Ref 6	HSPA Subclass 1	20.44	20.43	20.38
SCPP Ref 6	HSPA Subclass 2	18.94	18.46	18.39
SCPP Ref 6	HSPA Subclass 3	19.52	19.59	19.56
SCPP Ref 6	HSPA Subclass 4	18.46	18.48	18.47
SCPP Ref 6	HSPA Subclass 5	20.46	20.45	20.36
SCPP Ref 7	HSPA+ (HS-DSM) Subclass 1	18.04	18.02	17.94

Band 5 Ant 0 ECI2												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPE (dB)				
Channel												
700 707.5 711												
10	QPSK	1	0	22.38	22.42	22.29	24	0				
10	QPSK	1	25	22.26	22.30	22.21						
10	QPSK	1	49	22.33	22.34	22.22						
10	QPSK	25	0	21.33	21.37	21.24						
10	QPSK	25	12	21.30	21.31	21.28	23	1				
10	QPSK	25	25	21.27	21.31	21.24						
10	QPSK	50	0	21.28	21.30	21.26						
10	16QAM	1	0	21.21	21.26	21.14						
10	16QAM	1	25	21.23	21.19	21.19	23	1				
10	16QAM	1	49	21.23	21.18	21.20						
10	16QAM	25	0	20.35	20.39	20.22						
10	16QAM	25	12	20.29	20.35	20.30						
10	16QAM	25	25	20.31	20.36	20.24	22	2				
10	16QAM	50	0	20.34	20.30	20.23						
10	64QAM	1	0	20.15	20.24	20.19						
10	64QAM	1	26	20.24	20.14	20.24						
10	64QAM	1	49	20.20	20.16	20.20	21	3				
10	64QAM	25	0	19.37	19.35	19.26						
10	64QAM	25	12	19.25	19.27	19.24						
10	64QAM	25	25	19.33	19.29	19.30						
10	64QAM	50	0	19.33	19.31	19.24	19	5				
10	256QAM	1	25	17.26	17.27	17.21						
10	256QAM	1	49	17.23	17.32	17.21						
10	256QAM	25	0	17.26	17.28	17.24						
10	256QAM	25	12	17.22	17.28	17.11	19	5				
10	256QAM	25	25	17.20	17.29	17.17						
10	256QAM	50	0	17.22	17.26	17.17						
Channel												
20415 20425 20435												
5	QPSK	1	0	22.26	22.37	22.26	24	0				
5	QPSK	1	12	22.17	22.28	22.13						
5	QPSK	1	24	22.22	22.25	22.08						
5	QPSK	12	0	21.26	21.30	21.12						
5	QPSK	12	7	21.19	21.18	21.20	23	1				
5	QPSK	12	13	21.15	21.28	21.19						
5	QPSK	25	0	21.25	21.23	21.23						
5	16QAM	1	0	21.09	21.16	21.02						
5	16QAM	1	12	21.11	21.12	21.12	23	1				
5	16QAM	1	24	21.19	21.09	21.18						
5	16QAM	12	0	20.23	20.32	20.08						
5	16QAM	12	7	20.18	20.22	20.24						
5	16QAM	12	13	20.30	20.24	20.12	22	2				
5	16QAM	25	0	20.23	20.25	20.10						
5	64QAM	1	0	20.13	20.13	20.08						
5	64QAM	1	12	20.15	20.21	20.18						
5	64QAM	1	24	20.07	20.11	20.13	21	3				
5	64QAM	12	0	19.24	19.29	19.22						
5	64QAM	12	13	19.25	19.25	19.21						
5	64QAM	25	0	19.29	19.25	19.28						
5	256QAM	1	12	17.26	17.25	17.22	19	5				
5	256QAM	1	12	17.19	17.19	17.24						
5	256QAM	1	24	17.14	17.24	17.15						
5	256QAM	12	0	17.26	17.21	17.24						
5	256QAM	12	7	17.09	17.14	17.06	19	5				
5	256QAM	12	13	17.21	17.07	17.07						
5	256QAM	25	0	17.20	17.20	17.12						
Channel												
20415 20425 20435												
3	QPSK	1	0	22.25	22.35	22.24	24	0				
3	QPSK	1	8	22.13	22.25	22.16						
3	QPSK	1	14	22.22	22.29	22.16						
3	QPSK	8	0	21.16	21.26	21.16						
3	QPSK	8	4	21.16	21.26	21.16	23	1				
3	QPSK	8	7	21.14	21.26	21.19						
3	16QAM	1	8	21.24	21.15	21.18						
3	16QAM	1	0	21.12	21.21	21.09						
3	16QAM	1	8	21.11	21.15	21.06	23	1				
3	16QAM	1	14	21.18	21.12	21.09						
3	16QAM	8	0	20.32	20.33	20.19						
3	16QAM	8	4	20.24	20.29	20.27						
3	16QAM	8	7	20.35	20.21	20.12	22	2				
3	16QAM	15	0	20.29	20.24	20.10						
3	64QAM	1	0	20.04	20.19	20.11						
3	64QAM	1	8	20.17	20.01	20.14						
3	64QAM	1	14	20.09	20.09	20.16	21	3				
3	64QAM	8	0	19.28	19.35	19.17						
3	64QAM	8	4	19.19	19.14	19.15						
3	64QAM	8	7	19.27	19.19	19.21						
3	256QAM	1	0	19.30	19.26	19.22	19	5				
3	256QAM	1	0	17.34	17.26	17.1						
3	256QAM	1	8	17.20	17.22	17.26						
3	256QAM	1	14	17.16	17.25	17.11						
3	256QAM	8	0	17.14	17.17	17.13	19	5				
3	256QAM	8	4	17.15	17.22	17.06						
3	256QAM	8	7	17.26	17.18	17.11						
3	256QAM	15	0	17.27	17.21	17.07						
Channel												
20407 20428 20443												
1.4	QPSK	1	0	22.35	22.35	22.25	24	0				
1.4	QPSK	1	3	22.15	22.30	22.15						
1.4	QPSK	1	5	22.26	22.20	22.15						
1.4	QPSK	3	0	22.20	22.30	22.14						
1.4	QPSK	3	1	22.05	22.24	22.09	23	1				
1.4	QPSK	3	3	22.14	22.13	22.05						
1.4	QPSK	6	0	21.04	21.25	21.13						
1.4	16QAM	1	0	21.14	21.16	21.04						
1.4	16QAM	1	3	21.16	21.16	21.10	23	1				
1.4	16QAM	1	6	21.14	21.12	21.16						
1.4	16QAM	3	0	21.18	21.19	21.06						
1.4	16QAM	3	1	21.06	21.07	21.01						
1.4	16QAM	3	3	21.09	21.10	21.05	22	2				
1.4	16QAM	6	0	20.25	20.30	20.20						
1.4	64QAM	1	0	20.08	20.20	20.06						
1.4	64QAM	1	3	20.21	20.10	20.10						
1.4	64QAM	1	5	20.14	20.07	20.17	22	2				
1.4	64QAM	3	0	20.22	20.21	20.14						
1.4	64QAM	3	1	20.01	20.07	20.03						
1.4	64QAM	3	3	20.08	20.04	20.03						
1.4	256QAM	1	0	19.23	19.21	19.14	21	3				
1.4	256QAM	1	0	17.24	17.29	17.13						
1.4	256QAM	1	3	17.20	17.19	17.14						
1.4	256QAM	1	5	17.11	17.25	17.19						
1.4	256QAM	3	0	17.24	17.25	17.18	19	5				
1.4	256QAM	3	1	17.13	17.18	17.05						
1.4	256QAM	0	3	17.16	17.09	17.05						
1.4	256QAM	6	0	17.25	17.15	17.05						

Band 12 Ant 0 ECI2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPE (dB)	
Channel									
704 707.5 711									
10	QPSK	1	0	22.31	22.35	22.30	24	0	
10	QPSK	1	25	22.22	22.23	22.22			
10	QPSK	1	49	22.22	22.28	22.21			
10	QPSK	25	0	21.37	21.39	21.30			
10	QPSK	25	12	21.30	21.19	21.20	23	1	
10	QPSK	25	25	21.21	21.26	21.17			
10	QPSK	50	0	21.30	21.35	21.27			
10	16QAM	1	0	21.31	21.31	21.16			
10	16QAM	1	25	21.22	21.23	21.22	23	1	
10	16QAM	1	49	21.21	21.19	21.16			
10	16QAM	25	0	20.42	20.41	20.38			
10	16QAM	25	12	20.37	20.33	20.32			
10	16QAM	25	25	20.28	20.24	20.12	22	2	
10	16QAM	50	0	20.26	20.31	20.22			
10	16QAM	50	12	20.16	20.33	20.15			
10	16QAM	1	26	20.14	20.07	20.13			
10	16QAM	1	49	20.15	20.22	20.10	22	2	
10	16QAM	25	0	19.16	19.16	19.25			
10	16QAM	25	12	19.24	19.26	19.13			
10	16QAM	25	25	19.18	19.22	19.16			
10	16QAM	1	25	17.22	17.19	17.21	19	5	
10	16QAM	25	0	17.16	17.22	17.10			
10	16QAM	25	0	17.26	17.38	17.30			
10	16QAM	25	12	17.31	17.34	17.11			
10	16QAM	25	25	17.24	17.31	17.17	19	5	
10	16QAM	50	0	17.05	17.19	17.07			
10	16QAM	50	12	17.05	17.19	17.07			
10	16QAM	50	25	17.05	17.19	17.07			
Channel									
707.5 710.5 713									
10	QPSK	1	0	22.23	22.22	22.28	24	0	
10	QPSK	1	12	22.26	22.13	22.19			
10	QPSK	1	25	22.16	22.13	22.19			
10	QPSK	12	0	21.26	21.35	21.27			
10	QPSK	12	7	21.14	21.06	21.12	23	1	
10	QPSK	12	19	21.05	21.14	21.09			
10	QPSK	25	0	21.30	21.30	21.22			
10	16QAM	1	0	21.28	21.21	21.14			
10	16QAM	1	25	21.19	21.26	21.16	23	1	
10	16QAM	1	49	21.18	21.21	21.16			
10	16QAM	1	24	21.02	21.08	21.06			
10	16QAM	12	0	20.37	20.39	20.21			
10	16QAM	12	7	20.37	20.39	20.21	22	2	
10	16QAM	12	19	20.27	20.20	20.17			
10	16QAM	25	0	20.15	20.27	20.13			
10	16QAM	25	12	20.07	20.16	20.11			
10	16QAM	1	12	20.02	20.05	20.01	22	2	
10	16QAM	1	24	20.03	20.08	20.04			
10	16QAM	1	49	20.03	20.08	20.04			
10	16QAM	12	7	19.13	19.15	19.16			
10	16QAM	12	19	19.21	19.22	19.14	21	3	
10	16QAM	25	0	18.24	18.26	18.22			
10	16QAM	25	12	18.24	18.26	18.22			
10	16QAM	1	7	17.20	17.30	17.27			
10	16QAM	1	12	17.15	17.03	17.14	19	5	
10	16QAM	1	25	17.15	17.12	17.08			
10	16QAM	12	0	17.15	17.27	17.17			
10	16QAM	12	7	17.24	17.27	17.08			
10	16QAM	12	19	17.14	17.04	17.07	19	5	
10	16QAM	25	0	17.27	17.12	17.02			
10	16QAM	25	12	17.27	17.12	17.02			
10	16QAM	25	25	17.27	17.12	17.02			
Channel									
2305 2305.5 2310.5									
3	QPSK	1	0	22.18	22.30	22.22	24	0	
3	QPSK	1	8	22.12	22.10	22.10			
3	QPSK	1	16	22.12	22.22	22.17			
3	QPSK	1	24	21.31	21.38	21.18			
3	QPSK	8	4	21.14	21.13	21.08	23	1	
3	QPSK	8	7	21.16	21.17	21.04			
3	QPSK	15	0	21.28	21.28	21.15			
3	16QAM	1	0	21.25	21.28	21.14			
3	16QAM	1	8	21.14	21.14	21.02	22	2	
3	16QAM	1	16	21.06	21.14	21.01			
3	16QAM	8	0	20.29	20.29	20.18			
3	16QAM	8	7	20.16	20.16	20.07			
3	16QAM	15	0	20.24	20.28	20.08	22	2	
3	16QAM	15	8	20.16	20.20	20.07			
3	16QAM	1	8	20.05	20.24	20.05			
3	16QAM	1	16	20.13	20.16	20.06			
3	16QAM	8	4	19.14	19.14	19.13	19	5	
3	16QAM	8	7	19.11	19.13	19.01			
3	16QAM	15	0	18.27	18.27	18.23			
3	16QAM	15	8	17.28	17.26	17.25			
3	16QAM	1	8	17.13	17.09	17.14	19	5	
3	16QAM	1	16	17.13	17.13	17.07			
3	16QAM	8	0	17.19	17.25	17.11			
3	16QAM	8	4	17.23	17.32	17.23			
3	16QAM	15	0	17.12	17.05	17.04	19	5	
3	16QAM	15	8	17.12	17.05	17.04			
3	16QAM	1	0	17.12	17.05	17.04			
3	16QAM	1	8	17.12	17.05	17.04			
Channel									
2310.5 2311 2311.5									
14	QPSK	1	0	22.24	22.50	22.19	24	0	
14	QPSK	1	3	22.11	22.10	22.17			
14	QPSK	1	6	22.15	22.19	22.15			
14	QPSK	1	9	21.22	21.22	21.19			
14	QPSK	3	0	21.08	21.08	21.04	23	1	
14	QPSK	3	3	22.01	22.09	22.01			
14	QPSK	3	6	21.19	21.27	21.14			
14	16QAM	1	0	21.17	21.26	21.03			
14	16QAM	3	0	21.04	21.04	21.04	23	1	
14	16QAM	3	3	21.09	21.14	21.14			
14	16QAM	3	6	21.15	21.14	21.14			
14	16QAM	3	9	21.09	21.04	21.04			
14	16QAM	6	0	20.14	20.14	20.12	22	2	
14	16QAM	6	3	20.21	20.30	20.03			
14	16QAM	6	6	20.21	20.30	20.03			
14	16QAM	1	0	20.04	20.12	20.05			
14	16QAM	3	0	20.09	20.07	20.07	22	2	
14	16QAM	3	3	20.09	20.08	20.07			
14	16QAM	3	6	20.01	20.08	20.05			
14	16QAM	3	9	19.20	19.28	19.26			
14	16QAM	6	0	17.15	17.02	17.08	19	5	
14	16QAM	6	3	17.12	17.16	17.07			
14	16QAM	6	6	17.20	17.20	17.08			
14	16QAM	3	1	17.27	17.28	17.21			
14	16QAM	3	3	17.09	17.05	17.18	19	5	
14	16QAM	3	6	17.10	17.10	17.21			
14	16QAM	3	9	17.10	17.10	17.21			
14	16QAM	3	12	17.10	17.10	17.21			

Band 17 Ant 0 EC12											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up (mHz)	MPPE (dB)			
Channel											
Frequency (MHz)				709	710	711					
10	QPSK	1	0	22.19	22.20	22.22	24	0			
10	QPSK	1	26	22.12	22.19	22.21					
10	QPSK	1	49	22.16	22.22	22.09					
10	QPSK	25	0	21.26	21.30	21.22	23	1			
10	QPSK	25	12	21.11	21.13	21.18					
10	QPSK	25	25	21.07	21.09	21.11					
10	QPSK	50	0	21.16	21.26	21.16	23	1			
10	16QAM	1	0	21.29	21.29	21.14					
10	16QAM	1	26	21.09	21.09	21.02					
10	16QAM	1	49	21.04	21.15	21.08	22	2			
10	16QAM	25	0	20.38	20.37	20.35					
10	16QAM	25	12	20.10	20.20	20.03					
10	16QAM	25	25	20.07	20.15	20.16	21	3			
10	16QAM	50	0	20.22	20.27	20.13					
10	64QAM	1	0	20.19	20.20	20.08					
10	64QAM	1	26	20.03	20.07	20.09	22	2			
10	64QAM	1	49	20.07	20.15	20.05					
10	64QAM	25	0	19.22	19.34	19.24					
10	64QAM	25	12	19.04	19.05	19.16	21	3			
10	64QAM	25	25	19.20	19.16	19.11					
10	64QAM	50	0	19.19	19.34	19.16					
10	256QAM	1	0	17.22	17.27	17.27	19	5			
10	256QAM	1	26	17.13	17.04	17.11					
10	256QAM	1	49	17.13	17.16	17.14					
10	256QAM	25	0	17.12	17.32	17.25	19	5			
10	256QAM	25	12	17.26	17.28	17.03					
10	256QAM	25	25	17.17	17.00	17.01					
10	256QAM	50	0	17.07	17.16	17.05					
Channel											
Frequency (MHz)				706.5	710	713.5	Tune-up (mHz)	MPPE (dB)			
5	QPSK	1	0	22.18	22.18	22.15	24	0			
5	QPSK	1	12	22.06	22.16	22.10					
5	QPSK	1	24	22.14	22.11	22.10					
5	QPSK	12	0	21.22	21.25	21.19	23	1			
5	QPSK	12	7	21.01	21.10	21.12					
5	QPSK	12	13	21.08	21.14	21.09					
5	QPSK	25	0	21.11	21.16	21.13	23	1			
5	16QAM	1	0	21.22	21.27	21.05					
5	16QAM	1	12	21.08	21.14	21.13					
5	16QAM	1	24	21.22	21.04	21.08	22	2			
5	16QAM	12	0	20.36	20.23	20.26					
5	16QAM	12	7	20.11	20.13	20.02					
5	16QAM	12	13	20.51	20.14	20.06	21	2			
5	16QAM	25	0	20.20	20.28	20.09					
5	64QAM	1	0	20.09	20.17	20.01					
5	64QAM	1	12	21.13	20.09	20.01	22	2			
5	64QAM	1	24	20.06	20.05	20.01					
5	64QAM	12	0	19.15	19.35	19.18					
5	64QAM	12	7	19.03	19.15	19.05	21	3			
5	64QAM	12	13	19.12	19.15	19.05					
5	64QAM	25	0	19.16	19.26	19.14					
5	256QAM	1	0	17.17	17.26	17.25	19	5			
5	256QAM	1	12	17.07	17.07	17.12					
5	256QAM	1	24	17.08	17.06	17.12					
5	256QAM	12	0	17.04	17.24	17.16	19	5			
5	256QAM	12	7	17.21	17.18	17.07					
5	256QAM	12	13	17.14	17.24	17.12					
5	256QAM	25	0	17.08	17.11	17.12					

Band 26 Ant 0 EC12											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up (mHz)	MPPE (dB)			
Channel											
Frequency (MHz)				821.5	831.5	841.5					
15	QPSK	1	0	22.44	22.53	22.35	24	0			
15	QPSK	1	37	22.33	22.41	22.28					
15	QPSK	1	74	22.40	22.42	22.27					
15	QPSK	36	0	21.36	21.48	21.37	23	1			
15	QPSK	36	20	21.43	21.40	21.37					
15	QPSK	36	36	21.35	21.35	21.28					
15	QPSK	75	0	21.40	21.41	21.34	23	1			
15	16QAM	1	0	21.25	21.29	21.25					
15	16QAM	1	37	21.31	21.28	21.31					
15	16QAM	1	74	21.33	21.24	21.23	22	2			
15	16QAM	36	0	20.46	20.48	20.28					
15	16QAM	36	20	20.32	20.38	20.34					
15	16QAM	36	36	20.24	20.38	20.24	21	3			
15	16QAM	75	0	20.37	20.48	20.24					
15	64QAM	1	0	20.18	20.30	20.21					
15	64QAM	1	37	20.37	20.16	20.33	22	2			
15	64QAM	1	74	20.22	20.28	20.30					
15	64QAM	36	0	19.40	19.38	19.27					
15	64QAM	36	20	19.27	19.33	19.24	21	3			
15	64QAM	36	36	19.46	19.35	19.43					
15	64QAM	75	0	19.42	19.35	19.26					
15	256QAM	1	0	17.41	17.50	17.25	19	5			
15	256QAM	1	37	17.42	17.38	17.38					
15	256QAM	1	74	17.27	17.41	17.26					
15	256QAM	36	0	17.32	17.43	17.28	19	5			
15	256QAM	36	20	17.25	17.41	17.13					
15	256QAM	36	36	17.34	17.22	17.22					
15	256QAM	75	0	17.24	17.31	17.23					
Channel											
Frequency (MHz)				819	831.5	844	Tune-up (mHz)	MPPE (dB)			
10	QPSK	1	0	22.30	22.39	22.31	24	0			
10	QPSK	1	26	22.24	22.38	22.14					
10	QPSK	1	49	22.31	22.34	22.29					
10	QPSK	25	0	21.25	21.44	21.33	23	1			
10	QPSK	25	12	21.39	21.30	21.24					
10	QPSK	25	25	21.29	21.29	21.15					
10	QPSK	50	0	21.34	21.39	21.31	23	1			
10	16QAM	1	0	21.16	21.17	21.15					
10	16QAM	1	25	21.25	21.16	21.25					
10	16QAM	1	49	21.30	21.13	21.13	22	2			
10	16QAM	25	0	20.40	20.37	20.24					
10	16QAM	25	12	20.22	20.30	20.31					
10	16QAM	25	25	20.36	20.30	20.24	21	3			
10	16QAM	50	0	20.25	20.43	20.30					
10	64QAM	1	0	20.10	20.18	20.22					
10	64QAM	1	26	20.31	20.03	20.24	22	2			
10	64QAM	1	49	20.19	20.17	20.35					
10	64QAM	25	0	19.27	19.27	19.35					
10	64QAM	25	12	19.16	19.38	19.24	21	3			
10	64QAM	25	25	19.37	19.24	19.17					
10	64QAM	50	0	19.33	19.22	19.34					
10	256QAM	1	0	17.34	17.42	17.16	19	5			
10	256QAM	1	26	17.38	17.25	17.28					
10	256QAM	1	49	17.17	17.33	17.20					
10	256QAM	25	0	17.16	17.32	17.18	19	5			
10	256QAM	25	12	17.12	17.39	17.07					
10	256QAM	25	25	17.27	17.14	17.09					
10	256QAM	50	0	17.26	17.21	17.17					
Channel											
Frequency (MHz)				821.5	831.5	844.5	Tune-up (mHz)	MPPE (dB)			
5	QPSK	1	0	22.30	22.48	22.23	24	0			
5	QPSK	1	12	22.24	22.38	22.16					
5	QPSK	1	24	22.36	22.36	22.17					
5	QPSK	12	0	21.32	21.36	21.28	23	1			
5	QPSK	12	7	21.40	21.29	21.28					
5	QPSK	12	14	21.27	21.30	21.24					
5	QPSK	25	0	21.29	21.35	21.25	23	1			
5	16QAM	1	0	21.19	21.26	21.18					
5	16QAM	1	12	21.24	21.14	21.11					
5	16QAM	1	24	21.34	21.24	21.11	22	2			
5	16QAM	12	0	20.41	20.37	20.24					
5	16QAM	12	7	20.25	20.29	20.25					
5	16QAM	12	14	20.31	20.27	20.28	22	2			
5	16QAM	25	0	20.24	20.35	20.24					
5	16QAM	25	7	20.20	20.33	20.24					
5	16QAM	25	14	20.29	20.23	20.28	21	3			
5	16QAM	12	7	19.23	19.22	19.33					
5	16QAM	12	14	19.39	19.23	19.33					
5	256QAM	1	0	17.28	17.48	17.28	19	5			
5	256QAM	1	12	17.33	17.35	17.36					
5	256QAM	1	24	17.18	17.35	17.22					
5	256QAM	12	0	17.15	17.36	17.28	19	5			
5	256QAM	12	7	17.19	17.32	17.07					
5	256QAM	12	14	17.27	17.14	17.09					
5	256QAM	25	0	17.26	17.28	17.16					
Channel											
Frequency (MHz)				819.5	831.5	844.5	Tune-up (mHz)	MPPE (dB)			
3	QPSK	1	0	22.34	22.46	22.25	24	0			
3	QPSK	1	8	22.26	22.32	22.22					
3	QPSK	1	16	22.31	22.31	22.19					
3	QPSK	8	0	21.30	21.36	21.28	23	1			
3	QPSK	8	4	21.39	21.35	21.34					
3	QPSK	8	8	21.25	21.32	21.23					
3	QPSK	15	0	21.33	21.39	21.30	23	1			
3	16QAM	1	0	21.21	21.22	21.21					
3	16QAM	1	8	21.21	21.21	21.19					
3	16QAM	1	16	21.29	21.21	21.19	22	2			
3	16QAM	8	0	20.43	20.40	20.21					
3	16QAM	8	4	20.28	20.39	20.38					
3	16QAM	8	8	20.35	20.34	20.22	22	2			
3	16QAM	15	0	20.26	20.39	20.23					
3	64QAM	1	0	20.29	20.10	20.31					
3	64QAM	1	16	20.09	20.22	20.22	21	3			
3	64QAM	1	24	20.20	20.20	20.28					
3	64QAM	8	4	19.24	19.23	19.35					
3	64QAM	8	7	19.36	19.27	19.35	19	5			
3	64QAM	8	16	19.25	19.28	19.28					
3	64QAM	8	24	17.29	17.24	17.21					
3	256QAM	1	0	17.32	17.39	17.26	19	5			
3	256QAM	1	8	17.35	17.35	17.31					
3	256QAM	1	16	17.30	17.31	17.20					
3	256QAM	8	4	17.13	17.38	17.08	19			5	
3	256QAM	8	7	17.22	17.33	17.14					
3	256QAM	8	16	17.30	17.18	17.20					
Channel											
Frequency (MHz)				26697	26695	27033	Tune-up (mHz)	MPPE (dB)			
1.4	QPSK	1	0	22.36	22.42	22.28	24	0			
1.4	QPSK	1	0	22.20	22.45	22.25					
1.4	QPSK	1	0	22.50	22.30	22.23					
1.4	QPSK	1	0	22.38	22.38	22.21	23	1			
1.4	QPSK	3	0	22.09	22.34	22.21					
1.4	QPSK	3	0	22.23	22.40	22.21					
1.4	QPSK	3	0	21.30	21.38	21.25	23	1			
1.4	16QAM	1	0	21.20	21.27	21.15					
1.4	16QAM	1	0	21.22	21.27	21.15					
1.4	16QAM	3	0	21.18	21.18	21.24	22	2			
1.4	16QAM	3	0	21.28	21.29	21.17					
1.4	16QAM	3	0	21.10	21.10	21.18					
1.4	16QAM	6	0	20.29	20.33	20.23	22	2			
1.4	16QAM	6	0	20.34	20.34	20.24					
1.4	16QAM	6	0	20.27	20.14	20.19					
1.4	16QAM	1	0	20.18	20.10	20.26	22	2			
1.4	16QAM	3	0	20.24	20.24	20.26					
1.4	16QAM	3	0	20.10	20.10	20.26					
1.4	64QAM	3	0	20.11	20.09	20.19	21	3			
1.4	64QAM	6	0	20.12	20.09	20.21					
1.4	64QAM	6	0	17.35	17.32	17.21					
1.4	256QAM	1	0	17.31	17.18	17.27	19	5			
1.4	256QAM	1	0	17.27	17.27	17.27					
1.4	256QAM	3	0	17.31	17.34	17.24					
1.4	256QAM	3	0	17.20	17.30	17.19	19	5			
1.4	256QAM	3	0	17.22	17.23	17.14					
1.4	256QAM	6	0	17.33	17.23	17.19					

Band 2&other PA Ant 1 EC12														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-on time (sec)	MPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	22.21	22.23	22.19	24	0						
20	QPSK	1	48	22.10	22.18	22.12								
20	QPSK	1	96	22.18	22.11	22.06								
20	QPSK	50	0	21.22	21.27	21.21								
20	QPSK	50	24	21.15	21.14	21.16	23	1						
20	QPSK	50	50	21.18	21.16	21.05								
20	QPSK	100	0	21.20	21.25	21.20								
20	QPSK	100	0	21.22	21.19	21.12								
20	16QAM	1	48	21.10	21.11	21.10	23	1						
20	16QAM	1	96	21.17	21.14	21.11								
20	16QAM	50	0	20.21	20.26	20.26								
20	16QAM	50	24	20.19	20.25	20.23								
20	16QAM	50	50	20.27	20.25	20.07	22	2						
20	16QAM	100	0	20.25	20.27	20.26								
20	64QAM	1	0	20.28	20.19	20.21								
20	64QAM	1	48	20.17	20.21	20.16								
20	64QAM	1	96	20.21	20.21	20.15	21	3						
20	64QAM	50	0	19.21	19.24	19.30								
20	64QAM	50	24	19.25	19.15	19.21								
20	64QAM	50	50	19.18	19.15	19.16								
20	64QAM	100	0	19.31	19.28	19.30	19	5						
20	64QAM	1	96	17.28	17.14	17.18								
20	256QAM	1	96	17.28	17.22	17.05								
20	256QAM	50	24	17.27	17.25	17.19								
20	256QAM	50	50	17.26	17.19	17.17	19	5						
20	256QAM	100	0	17.18	17.18	17.14								
Channel														
Frequency (MHz)														
15	QPSK	1	0	22.15	22.16	22.18	24	0						
15	QPSK	1	48	22.05	22.08	22.07								
15	QPSK	1	74	22.15	22.12	22.01								
15	QPSK	36	0	21.15	21.20	21.13								
15	QPSK	36	24	21.05	21.08	21.16	23	1						
15	QPSK	36	36	21.17	21.14	21.03								
15	QPSK	75	0	21.19	21.21	21.13								
15	QPSK	75	0	21.14	21.11	21.12								
15	16QAM	1	37	21.00	21.02	21.14	23	1						
15	16QAM	1	74	21.08	21.07	21.12								
15	16QAM	36	0	20.12	20.37	20.25								
15	16QAM	36	20	20.15	20.24	20.23								
15	16QAM	36	20	20.15	20.24	20.23	22	2						
15	16QAM	75	0	20.22	20.27	20.25								
15	64QAM	1	0	20.24	20.15	20.14								
15	64QAM	1	37	20.13	20.13	20.14								
15	64QAM	1	74	20.12	20.15	20.14	21	3						
15	64QAM	36	0	19.14	19.22	19.30								
15	64QAM	36	20	19.14	19.22	19.30								
15	64QAM	36	36	19.11	19.13	19.17								
15	64QAM	75	0	19.30	19.26	19.27	19	5						
15	256QAM	1	37	17.25	17.25	17.08								
15	256QAM	1	74	17.15	17.18	17.04								
15	256QAM	36	0	17.28	17.28	17.08								
15	256QAM	36	20	17.20	17.24	17.13	19	5						
15	256QAM	36	36	17.16	17.18	17.08								
15	256QAM	75	0	17.11	17.12	17.08								
Channel														
Frequency (MHz)														
10	QPSK	1	0	22.18	22.18	22.18	24	0						
10	QPSK	1	25	22.07	22.15	22.03								
10	QPSK	1	48	22.15	22.07	22.03								
10	QPSK	25	12	21.08	21.05	21.13								
10	QPSK	25	25	21.10	21.08	21.00	23	1						
10	QPSK	50	0	21.15	21.14	21.15								
10	16QAM	1	0	21.10	21.10	21.11								
10	16QAM	1	25	21.08	21.11	21.08								
10	16QAM	25	0	20.14	20.28	20.22	22	2						
10	16QAM	25	12	20.19	20.23	20.26								
10	16QAM	50	0	20.18	20.20	20.28								
10	16QAM	50	0	20.20	20.22	20.24								
10	64QAM	1	0	20.19	20.15	20.21	22	2						
10	64QAM	1	25	20.12	20.13	20.12								
10	64QAM	1	48	20.16	20.15	20.16								
10	64QAM	25	0	19.21	19.25	19.23								
10	64QAM	25	0	19.18	19.05	19.04	21	3						
10	64QAM	25	25	19.15	19.07	19.14								
10	64QAM	50	0	19.22	19.25	19.27								
10	64QAM	50	0	19.23	19.20	19.18								
10	256QAM	1	25	17.23	17.25	17.15	19	5						
10	256QAM	1	48	17.23	17.15	17.15								
10	256QAM	25	0	17.25	17.18	17.11								
10	256QAM	25	25	17.10	17.11	17.11								
10	256QAM	50	0	17.14	17.11	17.13	19	5						
Channel														
Frequency (MHz)														
5	QPSK	1	0	22.12	22.15	22.15	24	0						
5	QPSK	1	12	22.04	22.12	22.02								
5	QPSK	1	24	22.16	22.05	22.02								
5	QPSK	12	0	21.15	21.15	21.15								
5	QPSK	12	7	21.09	21.09	21.05	23	1						
5	QPSK	12	13	21.14	21.13	21.03								
5	QPSK	25	0	21.15	21.23	21.16								
5	16QAM	1	0	21.20	21.14	21.04								
5	16QAM	1	12	21.01	21.03	21.08	23	1						
5	16QAM	1	24	21.11	21.11	21.04								
5	16QAM	12	0	20.21	20.31	20.19								
5	16QAM	12	7	20.13	20.25	20.28								
5	16QAM	12	0	20.25	20.18	20.03	22	2						
5	16QAM	25	0	20.22	20.20	20.23								
5	16QAM	1	0	20.29	20.16	20.13								
5	16QAM	1	12	20.18	20.20	20.11								
5	64QAM	1	24	20.13	20.19	20.12	22	2						
5	64QAM	12	0	19.17	19.31	19.25								
5	64QAM	12	0	19.18	19.13	19.19								
5	64QAM	12	13	19.18	19.18	19.13								
5	64QAM	25	0	19.26	19.19	19.28	21	3						
5	64QAM	15	0	17.21	17.32	17.19								
5	256QAM	1	12	17.21	17.12	17.12								
5	256QAM	1	24	17.20	17.19	17.02								
5	256QAM	12	0	17.23	17.17	17.22	19	5						
5	256QAM	12	7	17.27	17.19	17.15								
5	256QAM	12	13	17.19	17.15	17.15								
5	256QAM	25	0	17.19	17.05	17.05								
Channel														
Frequency (MHz)														
3	QPSK	1	0	22.20	22.15	22.15	24	0						
3	QPSK	1	8	22.04	22.15	22.08								
3	QPSK	1	16	22.16	22.05	22.02	23	1						
3	QPSK	8	0	21.20	21.26	21.18								
3	QPSK	8	8	21.08	21.04	21.16								
3	QPSK	8	16	21.16	21.11	21.09								
3	QPSK	15	0	21.13	21.17	21.18	23	1						
3	QPSK	1	0	21.21	21.09	21.06								
3	16QAM	1	0	21.08	21.19	21.09								
3	16QAM	1	14	21.18	21.07	21.08								
3	16QAM	8	0	20.21	20.36	20.17	22	2						
3	16QAM	8	8	20.12	20.35	20.11								
3	16QAM	8	7	20.19	20.21	20.03								
3	16QAM	15	0	20.25	20.12	20.13								
3	64QAM	1	0	20.28	20.12	20.14	21	3						
3	64QAM	1	8	20.07	20.21	20.06								
3	64QAM	8	0	19.18	19.15	19.18								
3	64QAM	8	4	19.16	19.15	19.20								
3	64QAM	8	4	19.16	19.15	19.11	21	3						
3	64QAM	8	12	19.13	19.17	19.29								
3	256QAM	1	0	17.22	17.28	17.16								
3	256QAM	1	8	17.15	17.17	17.05								
3	256QAM	1	14	17.27	17.20	17.00	19	5						
3	256QAM	8	0	17.17	17.20	17.26								
3	256QAM	8	7	17.23	17.19	17.15								
3	256QAM	8	7	17.10	17.13	17.12								
3	256QAM	15	0	17.16	17.05	17.07	19	5						
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	22.22	22.20	22.09	24	0						
1.4	QPSK	1	8	22.03	22.20	22.06								
1.4	QPSK	1	5	22.17	22.04	22.08	23	1						
1.4	QPSK	3	0	22.29	22.21	22.13								
1.4	QPSK	3	5	22.07	22.03	22.05								
1.4	QPSK	3	3	22.14	22.04	22.07								
1.4	QPSK	5	0	21.22	21.22	21.11	23	1						
1.4	QPSK	5	5	21.21	21.22	21.04								
1.4	QPSK	5	11	21.11	21.19	21.02								
1.4	QPSK	5	1	21.08	21.12	21.04								
1.4	16QAM	1	3	21.27	21.17	21.00	23	1						
1.4	16QAM	3	0	21.26	21.09	21.07								
1.4	16QAM	3	3	21.25	21.09	21.07								
1.4	16QAM	3	3	21.26	21.09	21.07								
1.4	16QAM	5	0	20.28	20.19	20.14	22	2						
1.4	16QAM	5	5	20.27	20.19	20.11								
1.4	16QAM	5	0	20.26	20.19	20.24								
1.4	16QAM	5	5	20.24	20.19	20.16								
1.4	64QAM	1	0	20.25	20.15	20.11	22	2						
1.4	64QAM	1	3	20.19	20.13	20.05								
1.4	64QAM	6	0	19.29	19.19	19.30								
1.4	64QAM	6	3	19.17	17.12	17.11								
1.4	256QAM	1	5	17.18	17.15	17.06	19	5						
1.4	256QAM	3	0	17.20	17.20	17.05								
1.4	256QAM	3	3	17.19	17.18	17.10								
1.4	256QAM	3	3	17.16	17.12	17.09								
1.4	256QAM	3	3	17.14	17.12	17.05	19	5						
1.4	256QAM	3	3	17.19	17.18	17.10								
1.4	256QAM	3	3	17.16	17.12	17.09								
1.4	256QAM	3	3	17.17	17.12	17.09								

Band 25 Ant 1 EC12										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq. 1800	Power Middle Ch / Freq. 1880	Power High Ch / Freq. 1900	Turn-up time (sec)	MPR (dB)		
Channel										
1800 1880 1900										
20	QPSK	1	0	22.30	22.33	22.26	24	0		
20	QPSK	1	49	22.18	22.22	22.19				
20	QPSK	1	99	22.26	22.17	22.15				
20	QPSK	50	0	21.25	21.30	21.22				
20	QPSK	50	24	21.24	21.19	21.28	23	1		
20	QPSK	50	50	21.27	21.18	21.10				
20	QPSK	100	0	21.26	21.32	21.21				
20	16QAM	1	0	21.28	21.29	21.28				
20	16QAM	1	49	21.12	21.14	21.20	23	1		
20	16QAM	1	99	21.18	21.26	21.21				
20	16QAM	50	24	20.27	20.33	20.31				
20	16QAM	50	50	20.28	20.31	20.16				
20	16QAM	100	0	20.35	20.32	20.34	22	2		
20	64QAM	1	0	20.31	20.25	20.28				
20	64QAM	1	49	20.27	20.25	20.19				
20	64QAM	50	0	19.31	19.37	19.35				
20	64QAM	50	24	19.29	19.26	19.27	21	3		
20	64QAM	100	0	19.31	19.35	19.33				
20	256QAM	1	49	17.27	17.41	17.29				
20	256QAM	1	99	17.25	17.41	17.25				
20	256QAM	50	0	17.22	17.32	17.13	19	5		
20	256QAM	50	24	17.33	17.33	17.28				
20	256QAM	50	50	17.27	17.30	17.26				
20	256QAM	100	0	17.19	17.16	17.19				
Channel							Turn-up time (sec)	MPR (dB)		
1807.5 1880 1907.5										
15	QPSK	1	0	22.27	22.23	22.15	24	0		
15	QPSK	1	37	22.07	22.20	22.10				
15	QPSK	1	74	22.21	22.12	22.07				
15	QPSK	36	0	21.14	21.31	21.12				
15	QPSK	36	19	21.14	21.15	21.25	23	1		
15	QPSK	36	39	21.25	21.05	21.02				
15	QPSK	75	0	21.19	21.18	21.11				
15	16QAM	1	0	21.15	21.16	21.04				
15	16QAM	1	37	21.04	21.09	21.11	23	1		
15	16QAM	1	74	21.27	21.17	21.19				
15	16QAM	36	20	20.16	20.24	20.24				
15	16QAM	36	39	20.35	20.17	20.17				
15	16QAM	75	0	20.33	20.34	20.28	22	2		
15	64QAM	1	0	20.22	20.20	20.16				
15	64QAM	1	37	20.15	20.24	20.28				
15	64QAM	1	74	20.23	20.25	20.25				
15	64QAM	36	0	19.18	19.30	19.26	21	3		
15	64QAM	36	19	19.20	19.25	19.24				
15	64QAM	36	39	19.22	19.05	19.05				
15	64QAM	75	0	19.27	19.31	19.21				
15	256QAM	1	37	17.20	17.17	17.13	19	5		
15	256QAM	1	74	17.11	17.26	17.01				
15	256QAM	36	20	17.23	17.26	17.23				
15	256QAM	36	39	17.16	17.26	17.15				
Channel							Turn-up time (sec)	MPR (dB)		
1855 1885 1915										
10	QPSK	1	0	22.22	22.26	22.15	24	0		
10	QPSK	1	25	22.15	22.19	22.15				
10	QPSK	1	49	22.16	22.08	22.07				
10	QPSK	25	0	21.23	21.24	21.24				
10	QPSK	25	12	21.14	21.13	21.18	23	1		
10	QPSK	25	25	21.15	21.08	21.06				
10	QPSK	50	0	21.19	21.22	21.14				
10	16QAM	1	0	21.18	21.09	21.05				
10	16QAM	1	25	21.02	21.05	21.09	23	1		
10	16QAM	1	49	21.12	21.16	21.11				
10	16QAM	25	0	20.21	20.30	20.26				
10	16QAM	25	12	20.13	20.23	20.28				
10	16QAM	50	0	20.22	20.32	20.28	22	2		
10	16QAM	50	25	20.28	20.19	20.18				
10	64QAM	1	0	20.15	20.15	20.09				
10	64QAM	1	49	20.25	20.36	20.25				
10	64QAM	25	0	19.18	19.24	19.27	21	3		
10	64QAM	25	12	19.20	19.16	19.16				
10	64QAM	25	25	19.14	19.10	19.13				
10	64QAM	50	0	19.27	19.25	19.29				
10	256QAM	1	49	17.13	17.20	17.11	19	5		
10	256QAM	1	25	17.23	17.16	17.07				
10	256QAM	1	49	17.11	17.25	17.01				
10	256QAM	25	0	17.21	17.27	17.21				
10	256QAM	25	12	17.26	17.28	17.21	19	5		
10	256QAM	25	25	17.24	17.21	17.16				
10	256QAM	50	0	17.14	17.12	17.11				
Channel							Turn-up time (sec)	MPR (dB)		
1865 1894 1906										
5	QPSK	1	0	22.17	22.22	22.15	24	0		
5	QPSK	1	12	22.15	22.25	22.13				
5	QPSK	1	24	22.22	22.15	22.06				
5	QPSK	12	0	21.20	21.25	21.15				
5	QPSK	12	7	21.17	21.13	21.23	23	1		
5	QPSK	12	13	21.13	21.13	21.08				
5	QPSK	25	0	21.22	21.21	21.07				
5	16QAM	1	0	21.24	21.08	21.12				
5	16QAM	1	12	21.05	21.08	21.18	23	1		
5	16QAM	1	24	21.14	21.22	21.17				
5	16QAM	12	0	20.18	20.38	20.29				
5	16QAM	12	7	20.13	20.20	20.26				
5	16QAM	12	14	20.25	20.21	20.07	22	2		
5	16QAM	25	0	20.21	20.29	20.24				
5	64QAM	1	0	20.28	20.25	20.16				
5	64QAM	1	12	20.22	20.22	20.12				
5	64QAM	1	24	20.23	20.23	20.18	21	3		
5	64QAM	12	0	19.19	19.26	19.26				
5	64QAM	12	7	19.20	19.26	19.27				
5	64QAM	12	14	19.24	19.17	19.14				
5	64QAM	25	0	19.23	19.27	19.21	19	5		
5	256QAM	1	0	17.16	17.31	17.15				
5	256QAM	1	12	17.23	17.18	17.18				
5	256QAM	1	24	17.12	17.30	17.06				
5	256QAM	12	0	17.20	17.32	17.22	19	5		
5	256QAM	12	7	17.29	17.18	17.21				
5	256QAM	12	13	17.23	17.23	17.15				
5	256QAM	25	0	17.14	17.12	17.11				
Channel							Turn-up time (sec)	MPR (dB)		
1894.5 1904 1914										
3	QPSK	1	0	22.18	22.30	22.16	24	0		
3	QPSK	1	12	22.14	22.30	22.11				
3	QPSK	1	24	22.20	22.25	22.10				
3	QPSK	8	0	21.21	21.27	21.11				
3	QPSK	8	7	21.17	21.09	21.20	23	1		
3	QPSK	8	14	21.13	21.12	21.21				
3	QPSK	16	0	21.15	21.30	21.18				
3	16QAM	1	0	21.17	21.17	21.06				
3	16QAM	1	8	21.00	21.01	21.11	23	1		
3	16QAM	1	14	21.08	21.14	21.07				
3	16QAM	8	0	20.18	20.28	20.27				
3	16QAM	8	4	20.12	20.15	20.21				
3	16QAM	8	7	20.27	20.19	20.19	22	2		
3	16QAM	8	14	20.22	20.31	20.24				
3	16QAM	16	0	20.21	20.20	20.18				
3	16QAM	16	8	20.19	20.19	20.18				
3	16QAM	8	0	19.23	19.30	19.29	21	3		
3	16QAM	8	4	19.26	19.22	19.23				
3	16QAM	8	7	19.22	19.12	19.17				
3	16QAM	8	14	19.20	19.26	19.26				
3	16QAM	16	0	17.23	17.31	17.25	19	5		
3	256QAM	1	0	17.25	17.25	17.20				
3	256QAM	1	14	17.10	17.25	17.05				
3	256QAM	1	24	17.22	17.22	17.17				
3	256QAM	16	0	17.24	17.27	17.21	19	5		
3	256QAM	16	8	17.19	17.20	17.17				
3	256QAM	8	7	17.21	17.18	17.24				
Channel							Turn-up time (sec)	MPR (dB)		
1904.5 1914 1924										
1.4	QPSK	1	0	22.20	22.31	22.19	24	0		
1.4	QPSK	1	12	22.14	22.30	22.11				
1.4	QPSK	1	6	22.23	22.07	22.21				
1.4	QPSK	3	0	22.28	22.07	22.21				
1.4	QPSK	3	3	22.16	22.12	22.20	23	1		
1.4	QPSK	3	3	22.18	22.15	22.12				
1.4	QPSK	1	0	21.25	21.17	21.10				
1.4	16QAM	1	3	21.06	21.14	21.07				
1.4	16QAM	1	6	21.05	21.20	21.09	23	1		
1.4	16QAM	3	0	21.21	21.31	21.15				
1.4	16QAM	3	3	21.32	21.31	21.67				
1.4	16QAM	6	0	20.32	20.36	20.30				
1.4	16QAM	6	3	20.34	20.39	20.31	22	2		
1.4	16QAM	6	6	20.28	20.26	20.23				
1.4	16QAM	3	0	20.36	20.33	20.29				
1.4	16QAM	3	3	20.14	20.34	20.21				
1.4	16QAM	6	0	20.22	20.17	20.10	21	3		
1.4	16QAM	6	3	19.40	19.30	19.36				
1.4	16QAM	6	6	19.28	19.28	19.28				
1.4	16QAM	3	0	17.23	17.14	17.21				
1.4	256QAM	1	0	17.24	17.26	17.19	19	5		
1.4	256QAM	1	3	17.24	17.24	17.27				
1.4	256QAM	3	0	17.26	17.19	17.17				
1.4	256QAM	3	3	17.21	17.16	17.23				



Band 2&other PA Ant 4 EC12									
BW [MHz]	Modulation	RS Size	RS Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turnup rate [dB]	MPR (dB)	
Channel									
Frequency [MHz]									
20	QPSK	1	0	16.80	16.75	16.81			
20	QPSK	1	8	16.87	16.82	16.84		17.7	0
20	QPSK	1	99	16.49	16.56	16.43			
20	QPSK	50	0	16.56	16.57	16.55			
20	QPSK	50	24	16.50	16.50	16.51		17.7	0
20	QPSK	50	50	16.47	16.55	16.54			
20	QPSK	100	0	16.52	16.54	16.51			
20	QPSK	100	0	16.58	16.54	16.60			
20	16QAM	1	49	16.42	16.56	16.34		17.7	0
20	16QAM	1	99	16.42	16.52	16.41			
20	16QAM	50	0	16.56	16.54	16.51			
20	16QAM	50	24	16.51	16.52	16.39		17.7	0
20	16QAM	50	50	16.49	16.56	16.51			
20	16QAM	100	0	16.59	16.54	16.44			
20	64QAM	1	0	16.46	16.64	16.47			
20	64QAM	1	49	16.52	16.52	16.40		17.7	0
20	64QAM	50	0	16.50	16.59	16.35			
20	64QAM	50	0	16.50	16.59	16.55			
20	64QAM	24	16.54	16.56	16.46			17.7	0
20	64QAM	50	50	16.53	16.59	16.49			
20	256QAM	1	49	16.41	16.55	16.21		17.7	0
20	256QAM	1	99	16.28	16.39	16.27			
20	256QAM	50	0	16.53	16.59	16.41			
20	256QAM	50	24	16.48	16.34	16.29		17.7	0
20	256QAM	50	50	16.16	16.26	16.19			
20	256QAM	100	0	16.20	16.23	16.29			
Channel									
Frequency [MHz]									
15	QPSK	1	0	16.36	16.33	16.33			
15	QPSK	1	37	16.44	16.45	16.34		17.7	0
15	QPSK	1	74	16.41	16.46	16.34			
15	QPSK	36	0	16.31	16.30	16.32			
15	QPSK	36	0	16.40	16.39	16.39			
15	QPSK	36	99	16.46	16.44	16.53		17.7	0
15	QPSK	75	0	16.41	16.40	16.40			
15	16QAM	1	16.45	16.45	16.38				
15	16QAM	1	37	16.37	16.50	16.23		17.7	0
15	16QAM	1	99	16.39	16.50	16.35			
15	16QAM	36	0	16.56	16.52	16.54			
15	16QAM	36	20	16.44	16.52	16.32		17.7	0
15	16QAM	36	99	16.47	16.49	16.50			
15	16QAM	75	0	16.55	16.46	16.36			
15	64QAM	1	0	16.40	16.54	16.38			
15	64QAM	1	37	16.46	16.50	16.27		17.7	0
15	64QAM	1	74	16.45	16.57	16.32			
15	64QAM	36	0	16.44	16.52	16.55			
15	64QAM	36	20	16.53	16.41	16.36		17.7	0
15	64QAM	36	99	16.45	16.53	16.45			
15	64QAM	75	0	16.55	16.51	16.42			
15	256QAM	1	37	16.33	16.35	16.16		17.7	0
15	256QAM	1	74	16.22	16.33	16.14			
15	256QAM	36	0	16.53	16.57	16.50			
15	256QAM	36	20	16.28	16.27	16.21			
15	256QAM	36	99	16.11	16.20	16.10		17.7	0
15	256QAM	75	0	16.12	16.11	16.21			
Channel									
Frequency [MHz]									
10	QPSK	1	0	16.00	16.00	16.00			
10	QPSK	1	25	16.48	16.46	16.51		17.7	0
10	QPSK	1	49	16.42	16.49	16.40			
10	QPSK	25	0	16.37	16.48	16.50			
10	QPSK	25	12	16.44	16.52	16.46			
10	QPSK	25	25	16.37	16.51	16.42			
10	QPSK	25	49	16.40	16.47	16.53			
10	16QAM	1	0	16.53	16.44	16.36			
10	16QAM	1	25	16.39	16.59	16.27		17.7	0
10	16QAM	25	0	16.58	16.48	16.39			
10	16QAM	25	12	16.45	16.53	16.33		17.7	0
10	16QAM	25	25	16.37	16.47	16.49			
10	16QAM	50	0	16.58	16.49	16.40			
10	64QAM	1	0	16.43	16.64	16.37			
10	64QAM	1	49	16.48	16.49	16.38		17.7	0
10	64QAM	25	0	16.42	16.57	16.50			
10	64QAM	25	12	16.44	16.56	16.44			
10	64QAM	25	25	16.47	16.50	16.48			
10	64QAM	50	0	16.51	16.50	16.51			
10	256QAM	1	25	16.32	16.26	16.17		17.7	0
10	256QAM	1	49	16.16	16.29	16.25			
10	256QAM	25	0	16.51	16.51	16.51			
10	256QAM	25	12	16.36	16.51	16.19		17.7	0
10	256QAM	25	25	16.10	16.20	16.10			
10	256QAM	50	0	16.10	16.20	16.10			
Channel									
Frequency [MHz]									
5	QPSK	1	0	16.00	16.00	16.00			
5	QPSK	1	12	16.42	16.47	16.46		17.7	0
5	QPSK	1	24	16.37	16.45	16.38			
5	QPSK	12	0	16.48	16.47	16.54			
5	QPSK	12	7	16.41	16.58	16.39			
5	QPSK	12	13	16.35	16.45	16.42			
5	16QAM	1	0	16.53	16.44	16.36			
5	16QAM	1	12	16.34	16.50	16.30		17.7	0
5	16QAM	1	24	16.45	16.43	16.34			
5	16QAM	12	0	16.53	16.48	16.57			
5	16QAM	12	7	16.41	16.58	16.34		17.7	0
5	16QAM	12	13	16.31	16.53	16.31			
5	16QAM	25	0	16.54	16.47	16.33			
5	64QAM	1	0	16.44	16.57	16.30			
5	64QAM	1	12	16.47	16.41	16.40		17.7	0
5	64QAM	1	24	16.48	16.41	16.31			
5	64QAM	12	0	16.47	16.54	16.58			
5	64QAM	12	7	16.51	16.58	16.39		17.7	0
5	64QAM	25	0	16.50	16.51	16.49			
5	256QAM	1	12	16.33	16.50	16.34			
5	256QAM	1	12	16.33	16.13	16.10		17.7	0
5	256QAM	1	24	16.23	16.35	16.22			
5	256QAM	12	0	16.50	16.29	16.38			
5	256QAM	12	7	16.31	16.59	16.24		17.7	0
5	256QAM	12	13	16.12	16.16	16.10			
5	256QAM	25	0	16.10	16.17	16.24			
Channel									
Frequency [MHz]									
3	QPSK	1	0	16.57	16.57	16.58			
3	QPSK	1	8	16.50	16.57	16.53		17.7	0
3	QPSK	1	14	16.44	16.56	16.42			
3	QPSK	8	4	16.45	16.56	16.44			
3	QPSK	8	7	16.40	16.57	16.41		17.7	0
3	QPSK	15	0	16.58	16.52	16.51			
3	16QAM	1	0	16.52	16.52	16.55			
3	16QAM	1	8	16.33	16.56	16.25		17.7	0
3	16QAM	1	14	16.34	16.50	16.39			
3	16QAM	8	4	16.48	16.59	16.41			
3	16QAM	8	7	16.39	16.52	16.46		17.7	0
3	16QAM	15	0	16.58	16.43	16.34			
3	64QAM	1	0	16.42	16.54	16.36			
3	64QAM	1	8	16.40	16.49	16.36		17.7	0
3	64QAM	1	14	16.46	16.47	16.39			
3	64QAM	8	4	16.43	16.56	16.39			
3	64QAM	8	7	16.45	16.56	16.40			
3	256QAM	1	8	16.19	16.29	16.29			
3	256QAM	1	8	16.34	16.13	16.14		17.7	0
3	256QAM	8	4	16.23	16.27	16.10			
3	256QAM	8	7	16.23	16.29	16.36			
3	256QAM	8	14	16.26	16.31	16.16		17.7	0
3	256QAM	15	0	16.27	16.28	16.10			
3	256QAM	15	8	16.18	16.17	16.19			
Channel									
Frequency [MHz]									
1.4	QPSK	1	0	16.53	16.54	16.58			
1.4	QPSK	1	3	16.43	16.56	16.53		17.7	0
1.4	QPSK	1	5	16.43	16.53	16.42			
1.4	QPSK	3	0	16.54	16.56	16.50			
1.4	QPSK	3	1	16.48	16.59	16.50			
1.4	QPSK	5	0	16.38	16.45	16.43		17.7	0
1.4	QPSK	5	16.57	16.57	16.58				
1.4	16QAM	1	0	16.55	16.51	16.52			
1.4	16QAM	1	3	16.39	16.59	16.27		17.7	0
1.4	16QAM	1	5	16.35	16.50	16.37			
1.4	16QAM	3	0	16.54	16.59	16.59			
1.4	16QAM	3	0	16.50	16.57	16.50			
1.4	16QAM	3	1	16.51	16.51	16.41		17.7	0
1.4	16QAM	5	0	16.48	16.47	16.43			
1.4	16QAM	5	3	16.45	16.51	16.43		17.7	0
1.4	16QAM	5	5	16.43	16.52	16.38			
1.4	16QAM	3	0	16.52	16.54	16.38			
1.4	16QAM	3	0	16.40	16.59	16.34			
1.4	16QAM	3	1	16.40	16.59	16.55			
1.4	16QAM	5	0	16.51	16.55	16.49		17.7	0
1.4	256QAM	1	5	16.22	16.25	16.10			
1.4	256QAM	1	5	16.20	16.29	16.34			
1.4	256QAM	3	0	16.30	16.33	16.25			
1.4	256QAM	3	1	16.34	16.31	16.14		17.7	0



Band 12 Ant 4 ECI2												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turnup dB (dB)	MPE (dB)				
Channel												
Frequency (MHz)												
10	QPSK	1	0	21.62	21.70	21.63			22.6	0		
10	QPSK	1	25	21.64	21.67	21.60						
10	QPSK	1	49	21.63	21.69	21.61						
10	QPSK	25	0	21.45	21.50	21.45						
10	QPSK	25	12	21.38	21.48	21.43			22.6	0		
10	QPSK	25	25	21.40	21.42	21.48						
10	QPSK	50	0	21.46	21.48	21.43						
10	16QAM	1	0	21.45	21.45	21.46						
10	16QAM	1	25	21.28	21.46	21.35			22.6	0		
10	16QAM	1	49	21.40	21.37	21.38						
10	16QAM	25	0	20.49	20.44	20.49						
10	16QAM	25	12	20.34	20.52	20.37						
10	16QAM	25	25	20.46	20.36	20.46			22	0.6		
10	16QAM	50	0	20.44	20.27	20.37						
10	64QAM	1	0	20.47	20.45	20.48						
10	64QAM	1	25	20.31	20.41	20.32			22	0.6		
10	64QAM	1	49	20.44	20.37	20.43						
10	64QAM	25	0	19.48	19.55	19.41						
10	64QAM	25	12	19.35	19.46	19.45						
10	64QAM	25	25	19.38	19.43	19.33			21	1.6		
10	64QAM	50	0	19.47	19.50	19.39						
10	256QAM	1	0	17.46	17.47	17.46						
10	256QAM	1	25	17.43	17.45	17.46			19	3.6		
10	256QAM	1	49	17.40	17.40	17.42						
10	256QAM	25	0	17.40	17.51	17.43						
10	256QAM	25	12	17.47	17.47	17.49						
10	256QAM	25	25	17.24	17.47	17.35			19	3.6		
10	256QAM	50	0	17.20	17.31	17.30						
Channel												
Frequency (MHz)												
5	QPSK	1	0	21.57	21.68	21.59			22.6	0		
5	QPSK	1	12	21.63	21.61	21.66						
5	QPSK	1	24	21.63	21.61	21.61						
5	QPSK	12	0	21.39	21.47	21.45						
5	QPSK	12	7	21.29	21.45	21.40			22.6	0		
5	QPSK	12	13	21.31	21.43	21.38						
5	QPSK	25	0	21.45	21.39	21.41						
5	16QAM	1	0	21.40	21.35	21.45						
5	16QAM	1	12	21.22	21.35	21.34			22.6	0		
5	16QAM	1	24	21.31	21.32	21.36						
5	16QAM	12	0	20.47	20.36	20.42						
5	16QAM	12	7	20.24	20.49	20.29						
5	16QAM	12	13	20.37	20.51	20.37			22	0.6		
5	16QAM	25	0	20.40	20.39	20.35						
5	64QAM	1	0	20.38	20.42	20.49						
5	64QAM	1	12	20.43	20.36	20.43			22	0.6		
5	64QAM	1	24	20.40	20.35	20.35						
5	64QAM	12	0	19.45	19.46	19.32						
5	64QAM	12	7	19.38	19.48	19.34			21	1.6		
5	64QAM	12	13	19.38	19.35	19.43						
5	64QAM	25	0	19.36	19.48	19.31						
5	256QAM	1	0	17.37	17.43	17.31						
5	256QAM	1	12	17.34	17.41	17.40			19	3.6		
5	256QAM	1	24	17.35	17.52	17.36						
5	256QAM	12	0	17.44	17.44	17.44						
5	256QAM	12	7	17.40	17.41	17.42						
5	256QAM	12	13	17.13	17.38	17.36			19	3.6		
5	256QAM	25	0	17.23	17.34	17.34						
Channel												
Frequency (MHz)												
3	QPSK	1	0	21.54	21.65	21.59			22.6	0		
3	QPSK	1	8	21.61	21.57	21.50						
3	QPSK	1	14	21.58	21.61	21.54						
3	QPSK	8	0	21.37	21.59	21.44						
3	QPSK	8	4	21.33	21.39	21.41			22.6	0		
3	QPSK	8	7	21.31	21.38	21.38						
3	16QAM	1	0	21.43	21.45	21.46						
3	16QAM	1	0	21.35	21.40	21.40						
3	16QAM	1	8	21.28	21.42	21.25			22.6	0		
3	16QAM	8	0	21.30	21.36	21.37						
3	16QAM	8	0	20.49	20.41	20.49						
3	16QAM	8	4	20.26	20.43	20.34						
3	16QAM	8	7	20.43	20.36	20.46			22	0.6		
3	64QAM	15	0	20.39	20.46	20.29						
3	64QAM	1	0	20.45	20.40	20.39						
3	64QAM	1	8	20.32	20.38	20.33						
3	64QAM	1	14	20.35	20.29	20.42			21	1.6		
3	64QAM	8	0	19.47	19.45	19.36						
3	64QAM	8	4	19.29	19.36	19.39						
3	64QAM	8	7	19.38	19.43	19.41						
3	64QAM	15	0	19.36	19.39	19.34			19	3.6		
3	256QAM	1	0	17.47	17.53	17.53						
3	256QAM	1	8	17.33	17.39	17.42						
3	256QAM	1	14	17.41	17.35	17.40						
3	256QAM	8	0	17.40	17.45	17.38						
3	256QAM	8	4	17.47	17.38	17.38			19	3.6		
3	256QAM	8	7	17.17	17.45	17.29						
3	256QAM	15	0	17.26	17.53	17.36						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	21.53	21.63	21.59			22.6	0		
1.4	QPSK	1	3	21.61	21.60	21.60						
1.4	QPSK	1	5	21.62	21.57	21.58						
1.4	QPSK	3	0	21.61	21.61	21.61						
1.4	QPSK	3	1	21.57	21.57	21.53			22.6	0		
1.4	QPSK	3	3	21.52	21.59	21.56						
1.4	QPSK	8	0	21.37	21.39	21.37						
1.4	16QAM	1	0	21.35	21.38	21.43						
1.4	16QAM	1	3	21.19	21.40	21.32			22.6	0		
1.4	16QAM	1	5	21.40	21.27	21.27						
1.4	16QAM	3	0	21.28	21.34	21.29						
1.4	16QAM	3	1	21.24	21.28	21.36						
1.4	16QAM	15	0	21.10	21.36	21.26			22	0.6		
1.4	64QAM	6	0	20.42	20.46	20.32						
1.4	64QAM	1	0	20.44	20.42	20.40						
1.4	64QAM	1	3	20.29	20.37	20.29						
1.4	64QAM	1	5	20.33	20.35	20.36			22	0.6		
1.4	64QAM	3	0	20.37	20.44	20.27						
1.4	64QAM	3	1	20.42	20.40	20.40						
1.4	64QAM	3	3	20.23	20.35	20.26						
1.4	64QAM	6	0	19.44	19.56	19.31			21	1.6		
1.4	256QAM	1	0	17.40	17.44	17.41						
1.4	256QAM	1	3	17.34	17.37	17.39						
1.4	256QAM	1	5	17.40	17.37	17.37						
1.4	256QAM	3	0	17.50	17.40	17.42			19	3.6		
1.4	256QAM	3	1	17.37	17.40	17.40						
1.4	256QAM	3	3	17.25	17.36	17.36						
1.4	256QAM	6	0	17.36	17.57	17.36						

Band 13 Ant 4 ECI2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch/Freq.	Power Mid Ch/Freq.	Power High Ch/Freq.	Turn-up rate (dB)	APR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0		21.45				22.6	0
10	QPSK	1	25		21.34					
10	QPSK	1	49		21.38					
10	QPSK	25	0		21.40					
10	QPSK	25	12		21.34				22.6	0
10	QPSK	25	25		21.36					
10	QPSK	50	0		21.34					
10	16QAM	1	0		21.37				22.6	0
10	16QAM	1	25		21.35					
10	16QAM	1	49		21.26					
10	16QAM	25	0		20.31					
10	16QAM	25	12		20.38				22	0.6
10	16QAM	25	25		20.30					
10	16QAM	50	0		20.30					
10	16QAM	1	0		20.41				22	0.6
10	16QAM	1	25		20.37					
10	16QAM	1	49		20.30					
10	16QAM	25	12		19.45					
10	16QAM	25	12		19.41				21	1.6
10	16QAM	25	25		19.52					
10	16QAM	50	0		19.37					
10	25QAM	1	0		17.42				19	3.6
10	25QAM	1	25		17.39					
10	25QAM	1	49		17.29					
10	25QAM	25	0		17.36					
10	25QAM	25	12		17.42				19	3.6
10	25QAM	25	25		17.31					
10	25QAM	50	0		17.29					
Frequency (MHz)				776.5	782	784.5	Turn-up rate (dB)	APR (dB)		
5	QPSK	1	0		21.37	21.34	21.35		22.6	0
5	QPSK	1	12		21.21	21.28	21.27			
5	QPSK	1	24		21.23	21.40	21.33			
5	QPSK	12	0		21.32	21.35	21.31			
5	QPSK	12	7		21.24	21.33	21.32		22.6	0
5	QPSK	12	19		21.30	21.36	21.33			
5	QPSK	25	0		21.30	21.32	21.33			
5	16QAM	1	0		21.28	21.38	21.35		22.6	0
5	16QAM	1	12		21.21	21.35	21.34			
5	16QAM	1	24		21.30	21.22	21.20			
5	16QAM	12	0		20.41	20.29	20.31			
5	16QAM	12	7		20.43	20.26	20.28		22	0.6
5	16QAM	12	19		20.29	20.23	20.32			
5	16QAM	25	0		20.36	20.33	20.30			
5	25QAM	1	0		19.38	19.38	19.38		22	0.6
5	25QAM	1	12		20.20	20.24	20.14			
5	25QAM	1	24		20.26	20.23	20.27			
5	25QAM	12	7		19.31	19.32	19.33			
5	25QAM	12	7		19.18	19.37	19.38		21	1.6
5	25QAM	12	19		19.27	19.33	19.34			
5	25QAM	25	0		19.36	19.38	19.34			
5	25QAM	1	0		17.36	17.36	17.36		19	3.6
5	25QAM	1	12		17.32	17.42	17.37			
5	25QAM	1	24		17.35	17.34	17.36			
5	25QAM	12	7		17.34	17.40	17.35			
5	25QAM	12	7		17.39	17.39	17.38		19	3.6
5	25QAM	12	19		17.36	17.34	17.34			
5	25QAM	25	0		17.21	17.22	17.27			



Band 25 Ant 4 EC12														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up Init. (sec)	MFR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	16.67	16.70	16.71	17.7	0						
20	QPSK	1	49	16.65	16.66	16.67								
20	QPSK	1	99	16.65	16.74	16.73	17.7	0						
20	QPSK	50	0	16.62	16.77	16.84								
20	QPSK	50	24	16.57	16.72	16.71	17.7	0						
20	QPSK	50	50	16.62	16.54	16.63								
20	QPSK	100	0	16.63	16.70	16.65	17.7	0						
20	16QAM	1	0	16.67	16.69	16.69								
20	16QAM	1	49	16.54	16.63	16.61	17.7	0						
20	16QAM	1	99	16.40	16.53	16.43								
20	16QAM	50	0	16.59	16.70	16.68	17.7	0						
20	16QAM	50	24	16.62	16.69	16.49								
20	16QAM	50	50	16.46	16.68	16.61	17.7	0						
20	16QAM	100	0	16.54	16.66	16.60								
20	64QAM	1	0	16.48	16.64	16.49	17.7	0						
20	64QAM	1	49	16.56	16.52	16.59								
20	64QAM	1	99	16.56	16.61	16.64	17.7	0						
20	64QAM	50	0	16.59	16.60	16.59								
20	64QAM	50	24	16.55	16.58	16.56	17.7	0						
20	64QAM	50	50	16.59	16.71	16.60								
20	256QAM	100	0	16.63	16.72	16.67	17.7	0						
20	256QAM	100	0	16.63	16.72	16.67								
20	256QAM	1	49	16.45	16.55	16.53	17.7	0						
20	256QAM	1	99	16.39	16.43	16.33								
20	256QAM	50	0	16.47	16.42	16.43	17.7	0						
20	256QAM	50	24	16.47	16.42	16.43								
20	256QAM	50	50	16.38	16.39	16.32	17.7	0						
20	256QAM	100	0	16.37	16.39	16.37								
Channel														
Frequency (MHz)														
16	QPSK	1	0	16.64	16.73	16.63	17.7	0						
16	QPSK	1	37	16.55	16.66	16.56								
16	QPSK	1	74	16.59	16.72	16.71	17.7	0						
16	QPSK	36	0	16.61	16.65	16.57								
16	QPSK	36	25	16.52	16.56	16.46	17.7	0						
16	QPSK	36	39	16.55	16.53	16.43								
16	QPSK	75	0	16.61	16.69	16.63	17.7	0						
16	16QAM	1	0	16.48	16.63	16.58								
16	16QAM	1	37	16.53	16.60	16.59	17.7	0						
16	16QAM	1	74	16.39	16.45	16.43								
16	16QAM	36	0	16.62	16.60	16.64	17.7	0						
16	16QAM	36	29	16.56	16.61	16.49								
16	16QAM	36	39	16.55	16.70	16.59	17.7	0						
16	16QAM	75	0	16.61	16.63	16.64								
16	64QAM	1	0	16.40	16.58	16.45	17.7	0						
16	64QAM	1	37	16.54	16.60	16.59								
16	64QAM	1	74	16.53	16.55	16.54	17.7	0						
16	64QAM	36	0	16.57	16.64	16.58								
16	64QAM	36	29	16.51	16.56	16.46	17.7	0						
16	64QAM	36	39	16.55	16.70	16.59								
16	64QAM	75	0	16.61	16.63	16.64	17.7	0						
16	256QAM	1	49	16.36	16.37	16.30								
16	256QAM	1	37	16.46	16.35	16.30	17.7	0						
16	256QAM	1	74	16.32	16.43	16.31								
16	256QAM	36	0	16.62	16.56	16.41	17.7	0						
16	256QAM	36	29	16.47	16.41	16.40								
16	256QAM	36	39	16.19	16.38	16.23	17.7	0						
16	256QAM	75	0	16.34	16.34	16.29								
Channel														
Frequency (MHz)														
20000	QPSK	1	0	16.55	16.60	16.55	17.7	0						
20000	QPSK	1	25	16.60	16.63	16.65								
20000	QPSK	1	49	16.58	16.74	16.64	17.7	0						
20000	QPSK	1	74	16.58	16.63	16.65								
20000	QPSK	25	12	16.56	16.63	16.42	17.7	0						
20000	QPSK	25	25	16.60	16.43	16.45								
20000	QPSK	25	39	16.58	16.53	16.42	17.7	0						
20000	QPSK	75	0	16.47	16.66	16.60								
20000	16QAM	1	0	16.47	16.66	16.60	17.7	0						
20000	16QAM	1	25	16.48	16.60	16.48								
20000	16QAM	1	49	16.53	16.63	16.61	17.7	0						
20000	16QAM	25	0	16.54	16.63	16.61								
20000	16QAM	25	12	16.62	16.64	16.46	17.7	0						
20000	16QAM	25	25	16.60	16.58	16.46								
20000	16QAM	50	0	16.61	16.62	16.59	17.7	0						
20000	16QAM	50	1	16.37	16.56	16.42								
20000	64QAM	1	24	16.50	16.52	16.36	17.7	0						
20000	64QAM	1	49	16.53	16.53	16.39								
20000	64QAM	25	0	16.53	16.56	16.45	17.7	0						
20000	64QAM	25	12	16.43	16.47	16.38								
20000	64QAM	25	25	16.54	16.67	16.55	17.7	0						
20000	64QAM	50	0	16.52	16.68	16.67								
20000	256QAM	1	49	16.38	16.37	16.30	17.7	0						
20000	256QAM	1	25	16.43	16.34	16.25								
20000	256QAM	1	25	16.43	16.34	16.25	17.7	0						
20000	256QAM	1	49	16.34	16.42	16.27								
20000	256QAM	25	0	16.59	16.42	16.35	17.7	0						
20000	256QAM	25	12	16.49	16.33	16.36								
20000	256QAM	25	25	16.26	16.40	16.23	17.7	0						
20000	256QAM	50	0	16.31	16.27	16.26								
Channel														
Frequency (MHz)														
5	QPSK	1	0	16.59	16.77	16.75	17.7	0						
5	QPSK	1	12	16.59	16.66	16.67								
5	QPSK	1	24	16.55	16.66	16.69	17.7	0						
5	QPSK	12	0	16.61	16.77	16.75								
5	QPSK	12	7	16.49	16.68	16.43	17.7	0						
5	QPSK	12	13	16.56	16.50	16.49								
5	QPSK	25	0	16.64	16.67	16.67	17.7	0						
5	QPSK	25	0	16.47	16.63	16.59								
5	16QAM	1	0	16.47	16.63	16.59	17.7	0						
5	16QAM	1	12	16.52	16.64	16.61								
5	16QAM	1	24	16.35	16.45	16.36	17.7	0						
5	16QAM	12	0	16.53	16.66	16.66								
5	16QAM	12	7	16.54	16.65	16.58	17.7	0						
5	16QAM	12	13	16.39	16.62	16.53								
5	16QAM	25	0	16.60	16.67	16.40	17.7	0						
5	16QAM	25	0	16.47	16.62	16.59								
5	64QAM	1	12	16.48	16.42	16.30	17.7	0						
5	64QAM	1	24	16.51	16.49	16.42								
5	64QAM	12	0	16.48	16.53	16.43	17.7	0						
5	64QAM	12	13	16.54	16.47	16.50								
5	256QAM	1	0	16.38	16.35	16.30	17.7	0						
5	256QAM	1	12	16.36	16.35	16.30								
5	256QAM	1	24	16.42	16.43	16.27	17.7	0						
5	256QAM	12	0	16.41	16.41	16.41								
5	256QAM	12	7	16.36	16.41	16.36	17.7	0						
5	256QAM	12	13	16.26	16.31	16.26								
5	256QAM	25	0	16.27	16.26	16.26	17.7	0						
5	256QAM	25	0	16.27	16.26	16.26								
Channel														
Frequency (MHz)														
3	QPSK	1	0	16.57	16.76	16.64	17.7	0						
3	QPSK	1	8	16.63	16.59	16.58								
3	QPSK	1	16	16.62	16.60	16.60	17.7	0						
3	QPSK	8	0	16.56	16.65	16.54								
3	QPSK	8	4	16.54	16.63	16.49	17.7	0						
3	QPSK	8	8	16.49	16.51	16.43								
3	QPSK	15	0	16.51	16.65	16.54	17.7	0						
3	QPSK	15	0	16.57	16.67	16.67								
3	16QAM	1	0	16.49	16.55	16.48	17.7	0						
3	16QAM	1	8	16.51	16.46	16.37								
3	16QAM	1	16	16.52	16.50	16.50	17.7	0						
3	16QAM	8	0	16.52	16.65	16.59								
3	16QAM	8	7	16.34	16.39	16.35	17.7	0						
3	16QAM	8	16	16.62	16.61	16.62								
3	16QAM	15	0	16.38	16.63	16.59	17.7	0						
3	16QAM	15	8	16.62	16.61	16.67								
3	64QAM	1	0	16.46	16.61	16.57	17.7	0						
3	64QAM	1	8	16.56	16.63	16.55								
3	64QAM	8	0	16.45	16.47	16.31	17.7	0						
3	64QAM	8	8	16.58	16.68	16.69								
3	256QAM	1	0	16.36	16.56	16.36	17.7	0						
3	256QAM	1	8	16.42	16.43	16.30								
3	256QAM	1	16	16.37	16.45	16.30	17.7	0						
3	256QAM	8	0	16.35	16.37	16.45								
3	256QAM	8	7	16.49	16.36	16.41	17.7	0						
3	256QAM	8	16	16.24	16.38	16.27								
3	256QAM	15	0	16.26	16.36	16.26	17.7	0						
3	256QAM	15	0	16.26	16.36	16.26								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	16.60	16.75	16.70	17.7	0						
1.4	QPSK	1	8	16.65	16.63	16.63								
1.4	QPSK	1	16	16.62	16.60	16.60	17.7	0						
1.4	QPSK	8	0	16.54	16.65	16.57								
1.4	QPSK	8	4	16.56	16.69	16.54	17.7	0						
1.4	QPSK	8	8	16.48	16.72	16.64								
1.4	QPSK	3	0	16.62	16.64	16.64	17.7	0						
1.4	QPSK	3	8											



Band 38&other PA Ant 1 EC12											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)			
Channel											
				37850	38050	38150					
Frequency (MHz)											
20	QPSK	1	0	22.30	22.50	22.34	24	0			
20	QPSK	1	48	22.46	22.47	22.36					
20	QPSK	1	88	22.57	22.74	22.36					
20	QPSK	50	0	21.38	21.51	21.25					
20	QPSK	50	24	21.48	21.48	21.33	23	1			
20	QPSK	50	48	21.46	21.29	21.40					
20	QPSK	100	0	21.41	21.47	21.26					
20	16QAM	1	0	21.31	21.44	21.25					
20	16QAM	1	48	21.46	21.29	21.40	23	1			
20	16QAM	1	88	21.35	21.39	21.24					
20	16QAM	50	24	20.46	20.42	20.37					
20	16QAM	50	48	20.48	20.43	20.37					
20	16QAM	100	0	20.44	20.39	20.34	22	2			
20	16QAM	100	1	20.52	20.45	20.25					
20	16QAM	1	48	20.46	20.35	20.35					
20	16QAM	1	88	20.35	20.22	20.35					
20	16QAM	50	0	19.35	19.47	19.36	22	2			
20	16QAM	50	24	19.49	19.53	19.37					
20	16QAM	50	48	19.46	19.31	19.31					
20	16QAM	100	0	19.26	19.47	19.26					
20	256QAM	1	0	17.33	17.42	17.32	19	5			
20	256QAM	1	48	17.37	17.33	17.38					
20	256QAM	1	88	17.36	17.31	17.30					
20	256QAM	50	0	17.43	17.37	17.34					
20	256QAM	50	24	17.33	17.29	17.27	19	5			
20	256QAM	50	48	17.37	17.25	17.27					
20	256QAM	100	0	17.30	17.25	17.25					
20	256QAM	100	1	17.35	17.28	17.28					
Channel											
				37850	38050	38150					
Frequency (MHz)											
15	QPSK	1	0	22.33	22.43	22.34	24	0			
15	QPSK	1	37	22.37	22.46	22.26					
15	QPSK	1	74	22.29	22.31	22.30					
15	QPSK	36	0	21.33	21.40	21.18					
15	QPSK	36	20	21.43	21.44	21.42	23	1			
15	QPSK	36	38	21.43	21.28	21.25					
15	QPSK	75	0	21.38	21.42	21.25					
15	QPSK	75	0	21.38	21.42	21.25					
15	16QAM	1	0	21.20	21.33	21.15	23	1			
15	16QAM	1	37	21.43	21.28	21.26					
15	16QAM	1	74	21.35	21.18	21.22					
15	16QAM	36	0	20.38	20.38	20.23					
15	16QAM	36	20	20.45	20.32	20.26	22	2			
15	16QAM	36	38	20.35	20.34	20.26					
15	16QAM	75	0	20.29	20.36	20.22					
15	16QAM	75	0	20.37	20.32	20.25					
15	16QAM	1	37	20.36	20.29	20.32	22	2			
15	16QAM	1	74	20.26	20.15	20.23					
15	16QAM	36	0	19.33	19.37	19.24					
15	16QAM	36	20	19.46	19.51	19.26					
15	256QAM	1	0	17.32	17.40	17.28	19	5			
15	256QAM	1	37	17.35	17.30	17.29					
15	256QAM	1	74	17.30	17.22	17.27					
15	256QAM	36	0	17.39	17.32	17.36					
15	256QAM	36	20	17.42	17.28	17.28	19	5			
15	256QAM	36	38	17.34	17.17	17.15					
15	256QAM	75	0	17.42	17.27	17.19					
15	256QAM	75	0	17.42	17.27	17.19					
Channel											
				37790	38090	38250					
Frequency (MHz)											
10	QPSK	1	0	22.33	22.43	22.34	24	0			
10	QPSK	1	25	22.40	22.46	22.26					
10	QPSK	1	48	22.32	22.23	22.31					
10	QPSK	1	87	22.37	22.34	22.30					
10	QPSK	25	12	21.47	21.35	21.27	23	1			
10	QPSK	25	25	21.30	21.26	21.27					
10	QPSK	25	38	21.43	21.28	21.25					
10	QPSK	25	0	21.22	21.49	21.16					
10	16QAM	1	0	21.22	21.49	21.16	23	1			
10	16QAM	1	25	21.34	21.19	21.28					
10	16QAM	1	48	21.33	21.30	21.18					
10	16QAM	25	0	20.25	20.37	20.22					
10	16QAM	25	12	20.46	20.36	20.24	22	2			
10	16QAM	25	25	20.32	20.34	20.25					
10	16QAM	50	0	20.37	20.40	20.34					
10	16QAM	50	12	20.34	20.40	20.37					
10	16QAM	1	25	20.35	20.29	20.30	22	2			
10	16QAM	1	48	20.22	20.15	20.23					
10	16QAM	25	0	19.29	19.49	19.29					
10	16QAM	25	12	19.39	19.42	19.28					
10	16QAM	25	25	19.38	19.28	19.26	21	3			
10	16QAM	50	0	19.32	19.46	19.27					
10	256QAM	1	0	17.27	17.41	17.25					
10	256QAM	1	25	17.35	17.25	17.34					
10	256QAM	1	48	17.25	17.30	17.24	19	5			
10	256QAM	25	0	17.42	17.34	17.27					
10	256QAM	25	12	17.25	17.28	17.25					
10	256QAM	25	25	17.28	17.22	17.21					
10	256QAM	50	0	17.38	17.31	17.18	19	5			
10	256QAM	50	12	17.35	17.25	17.25					
10	256QAM	50	25	17.32	17.30	17.11					
10	256QAM	50	0	17.32	17.30	17.11					

Band 41&other PA Ant 1 EC12												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)		
Channel												
Frequency (MHz)				38970	40185	40620	41055	41490				
15	QPSK	1	0	22.46	22.43	22.32	22.44	22.47	24	0		
15	QPSK	1	48	22.40	22.47	22.48	22.44	22.42				
15	QPSK	1	88	22.38	22.44	22.45	22.39	22.44				
15	QPSK	50	0	21.51	21.42	21.54	21.39	21.45				
15	QPSK	50	24	21.40	21.50	21.60	21.44	21.41	23	1		
15	QPSK	50	48	21.41	21.45	21.41	21.48	21.38				
15	QPSK	100	0	21.50	21.43	21.51	21.41	21.45				
15	16QAM	1	0	21.45	21.39	21.45	21.35	21.40				
15	16QAM	50	24	20.45	20.53	20.51	20.45	20.40	22	2		
15	16QAM	50	48	20.47	20.43	20.49	20.43	20.37				
15	16QAM	100	0	20.50	20.41	20.49	20.39	20.40				
15	16QAM	100	1	20.43	20.33	20.45	20.35	20.35				
15	64QAM	1	48	20.37	20.46	20.35	20.45	20.48	22	2		
15	64QAM	1	88	20.36	20.46	20.35	20.45	20.35				
15	64QAM	50	0	19.52	19.38	19.54	19.42	19.50				
15	64QAM	50	24	19.45	19.51	19.64	19.42	19.37				
15	256QAM	1	12	17.41	17.48	17.44	17.41	17.48	21	3		
15	256QAM	1	48	17.42	17.48	17.44	17.41	17.43				
15	256QAM	1	88	17.46	17.42	17.40	17.40	17.36				
15	256QAM	50	0	17.48	17.48	17.48	17.48	17.42				
15	256QAM	50	24	17.44	17.35	17.40	17.35	17.44	19	5		
15	256QAM	50	48	17.46	17.44	17.35	17.38	17.44				
15	256QAM	100	0	17.50	17.43	17.50	17.38	17.50				
Channel				38970	40173	40620	41058	41515			Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				22.43	22.43	22.43	22.43	22.43				
15	QPSK	1	0	22.43	22.43	22.43	22.43	22.43	24	0		
15	QPSK	1	48	22.39	22.46	22.39	22.44	22.38				
15	QPSK	1	76	22.33	22.48	22.42	22.39	22.42				
15	QPSK	50	0	21.41	21.30	21.45	21.37	21.45				
15	QPSK	36	20	21.38	21.50	21.39	21.53	21.29	23	1		
15	QPSK	36	56	21.38	21.48	21.48	21.38	21.54				
15	QPSK	75	0	21.47	21.31	21.43	21.31	21.42				
15	16QAM	1	0	21.36	21.36	21.42	21.23	21.37				
15	16QAM	21	37	21.37	21.45	21.37	21.41	21.37	23	1		
15	16QAM	1	74	21.37	21.28	21.19	21.26	21.22				
15	16QAM	36	0	20.51	20.46	20.48	20.42	20.45				
15	16QAM	36	20	20.38	20.34	20.49	20.30	20.38				
15	16QAM	36	36	20.39	20.36	20.25	20.34	20.35	22	2		
15	16QAM	36	56	20.38	20.35	20.25	20.34	20.35				
15	64QAM	1	0	20.34	20.29	20.39	20.21	20.27				
15	64QAM	1	37	20.31	20.41	20.28	20.34	20.31				
15	64QAM	36	0	19.51	19.33	19.47	19.30	19.43	22	2		
15	64QAM	36	20	19.44	19.46	19.44	19.33	19.35				
15	64QAM	36	36	19.45	19.46	19.44	19.33	19.35				
15	64QAM	75	0	19.51	19.37	19.50	19.27	19.34				
15	256QAM	1	12	17.40	17.40	17.39	17.40	17.40	19	5		
15	256QAM	1	74	17.37	17.31	17.53	17.35	17.38				
15	256QAM	1	12	17.38	17.38	17.35	17.35	17.35				
15	256QAM	36	20	17.38	17.28	17.35	17.32	17.42				
15	256QAM	36	56	17.37	17.35	17.34	17.36	17.44	19	5		
15	256QAM	36	74	17.44	17.37	17.31	17.31	17.32				
Channel				38970	40160	40620	41058	41560			Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				22.43	22.43	22.43	22.43	22.43				
15	QPSK	1	25	22.34	22.40	22.38	22.42	22.35	24	0		
15	QPSK	1	49	22.29	22.45	22.41	22.37	22.44				
15	QPSK	25	0	21.41	21.40	21.50	21.25	21.45				
15	QPSK	25	12	21.34	21.42	21.49	21.38	21.33				
15	QPSK	25	25	21.30	21.38	21.45	21.30	21.38	23	1		
15	QPSK	50	0	21.30	21.34	21.41	21.31	21.42				
15	16QAM	1	0	21.37	21.38	21.43	21.31	21.28				
15	16QAM	1	25	21.36	21.42	21.39	21.41	21.40				
15	16QAM	1	49	21.35	21.34	21.21	21.21	21.21	23	1		
15	16QAM	25	0	20.46	20.40	20.40	20.38	20.43				
15	16QAM	25	12	20.42	20.42	20.38	20.42	20.38				
15	16QAM	25	25	20.42	20.43	20.34	20.31	20.23				
15	64QAM	1	0	20.38	20.34	20.46	20.30	20.46	22	2		
15	64QAM	1	0	20.39	20.27	20.38	20.25	20.31				
15	64QAM	1	25	20.37	20.40	20.30	20.40	20.41				
15	64QAM	1	49	20.32	20.43	20.33	20.37	20.31				
15	64QAM	25	0	19.42	19.35	19.45	19.38	19.50	21	3		
15	64QAM	25	12	19.43	19.42	19.40	19.30	19.26				
15	64QAM	25	25	19.31	19.34	19.41	19.36	19.42				
15	64QAM	50	0	19.54	19.34	19.49	19.35	19.34				
15	256QAM	1	25	17.50	17.50	17.50	17.50	17.40	19	5		
15	256QAM	1	26	17.40	17.43	17.42	17.35	17.30				
15	256QAM	1	49	17.37	17.41	17.28	17.35	17.29				
15	256QAM	25	0	17.46	17.38	17.43	17.27	17.38				
15	256QAM	25	12	17.33	17.29	17.36	17.30	17.36	19	5		
15	256QAM	25	25	17.29	17.30	17.31	17.26	17.31				
15	256QAM	50	0	17.29	17.29	17.25	17.35	17.32				
Channel				38970	40160	40620	41058	41565			Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				22.40 <th>22.43<th>22.49<th>22.49<th>22.43</th><th colspan="2"></th></th></th></th>	22.43 <th>22.49<th>22.49<th>22.43</th><th colspan="2"></th></th></th>	22.49 <th>22.49<th>22.43</th><th colspan="2"></th></th>	22.49 <th>22.43</th> <th colspan="2"></th>	22.43				
5	QPSK	1	12	22.29	22.44	22.44	22.40	22.37	24	0		
5	QPSK	1	25	22.26	22.41	22.44	22.37	22.44				
5	QPSK	12	0	21.41	21.38	21.51	21.25	21.38				
5	QPSK	12	7	21.30	21.42	21.48	21.42	21.31				
5	16QAM	1	0	21.39	21.36	21.43	21.30	21.31	23	1		
5	16QAM	1	12	21.37	21.36	21.34	21.41	21.38				
5	16QAM	1	24	21.30	21.36	21.25	21.22	21.28				
5	16QAM	1	25	20.54	20.36	20.46	20.47	20.47				
5	16QAM	12	7	20.45	20.45	20.40	20.31	20.31	22	2		
5	16QAM	12	13	20.42	20.38	20.35	20.30	20.27				
5	16QAM	25	0	20.38	20.32	20.35	20.20	20.46				
5	64QAM	1	0	20.37	20.24	20.25	20.20	20.27				
5	64QAM	1	12	20.25	20.38	20.31	20.37	20.35	22	2		
5	64QAM	1	24	20.25	20.38	20.31	20.37	20.37				
5	64QAM	12	0	19.51	19.34	19.53	19.36	19.38				
5	64QAM	12	13	19.30	19.33	19.41	19.41	19.38				
5	64QAM	25	0	19.49	19.33	19.53	19.35	19.35	21	3		
5	256QAM	1	25	17.47	17.40	17.43	17.27	17.43				
5	256QAM	12	7	17.36	17.44	17.32	17.36	17.30				
5	256QAM	12	13	17.37	17.41	17.23	17.35	17.46				
5	256QAM	12	25	17.31	17.37	17.25	17.35	17.32	19	5		
5	256QAM	12	7	17.36	17.44	17.32	17.36	17.30				
5	256QAM	12	13	17.37	17.41	17.23	17.35	17.46				
5	256QAM	12	25	17.31	17.37	17.25	17.35	17.32				



Band 42 FCC Part27Q Ant 3 EC12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (dBm)	MPR (dB)	
Channel				3474	3664	42990			
Frequency (MHz)				42190	42990	42990			
20	QPSK	1	0	14.98	14.95	14.92	16	0	
20	QPSK	1	48	14.81	14.87	14.82			
20	QPSK	1	96	14.87	14.81	14.74	16	0	
20	QPSK	50	0	14.91	14.97	14.90			
20	QPSK	50	24	14.77	14.88	14.87	16	0	
20	QPSK	50	50	14.89	14.84	14.88			
20	QPSK	100	0	14.89	14.93	14.84	16	0	
20	HQDM	1	0	14.79	14.85	14.83			
20	HQDM	1	48	14.87	14.88	14.82	16	0	
20	HQDM	50	0	14.74	14.73	14.71			
20	HQDM	50	24	14.83	14.86	14.89	16	0	
20	HQDM	50	50	14.81	14.84	14.82			
20	HQDM	50	50	14.83	14.86	14.76	16	0	
20	HQDM	100	0	14.92	14.95	14.87			
20	HQDM	1	0	14.85	14.83	14.85	16	0	
20	HQDM	1	48	14.80	14.81	14.88			
20	HQDM	1	96	14.85	14.84	14.85	16	0	
20	HQDM	50	0	14.92	14.97	14.85			
20	HQDM	50	24	14.75	14.85	14.81	16	0	
20	HQDM	50	50	14.87	14.75	14.81			
20	HQDM	100	0	14.89	14.87	14.94	16	0	
20	25SQDM	1	0	14.89	14.86	14.89			
20	25SQDM	1	48	14.85	14.88	14.89	16	0	
20	25SQDM	1	96	14.81	14.88	14.75			
20	25SQDM	50	0	14.88	14.82	14.89	16	0	
20	25SQDM	50	24	14.78	14.94	14.89			
20	25SQDM	50	50	14.73	14.88	14.87	16	0	
20	25SQDM	100	0	14.88	14.82	14.73			
Channel				42165	42990	43015	Turn-up time (dBm)	MPR (dB)	
Frequency (MHz)				3474.5	3664.5	3647.5			
15	QPSK	1	0	14.92	14.95	14.92	16	0	
15	QPSK	1	37	14.79	14.78	14.74			
15	QPSK	1	74	14.84	14.77	14.83	16	0	
15	QPSK	36	0	14.89	14.87	14.87			
15	QPSK	36	20	14.68	14.87	14.85	16	0	
15	QPSK	36	39	14.77	14.78	14.86			
15	QPSK	75	0	14.79	14.83	14.77	16	0	
15	HQDM	1	0	14.76	14.89	14.77			
15	HQDM	1	37	14.68	14.77	14.68	16	0	
15	HQDM	1	74	14.74	14.72	14.64			
15	HQDM	36	0	14.82	14.87	14.80	16	0	
15	HQDM	36	20	14.74	14.82	14.76			
15	HQDM	36	39	14.87	14.84	14.86	16	0	
15	HQDM	75	0	14.90	14.82	14.77			
15	HQDM	1	0	14.76	14.82	14.85	16	0	
15	HQDM	1	37	14.70	14.89	14.81			
15	HQDM	1	74	14.82	14.74	14.83	16	0	
15	HQDM	36	0	14.88	14.84	14.86			
15	HQDM	36	20	14.69	14.84	14.77	16	0	
15	HQDM	36	39	14.85	14.82	14.74			
15	HQDM	75	0	14.89	14.82	14.90	16	0	
15	25SQDM	1	0	14.81	14.89	14.85			
15	25SQDM	1	37	14.83	14.82	14.83	16	0	
15	25SQDM	1	74	14.78	14.79	14.67			
15	25SQDM	36	0	14.84	14.85	14.89	16	0	
15	25SQDM	36	20	14.75	14.83	14.79			
15	25SQDM	36	39	14.70	14.79	14.80	16	0	
15	25SQDM	75	0	14.78	14.76	14.71			
Channel				42165	42990	43015	Turn-up time (dBm)	MPR (dB)	
Frequency (MHz)				3475	3665	3648			
10	QPSK	1	0	14.94	14.81	14.86	16	0	
10	QPSK	1	25	14.80	14.82	14.81			
10	QPSK	1	49	14.78	14.73	14.69	16	0	
10	QPSK	36	0	14.89	14.83	14.84			
10	QPSK	25	12	14.73	14.89	14.78	16	0	
10	QPSK	25	25	14.88	14.81	14.87			
10	QPSK	50	0	14.79	14.84	14.75	16	0	
10	HQDM	1	0	14.69	14.82	14.75			
10	HQDM	1	25	14.87	14.82	14.74	16	0	
10	HQDM	1	49	14.85	14.81	14.81			
10	HQDM	25	0	14.83	14.84	14.82	16	0	
10	HQDM	25	12	14.75	14.82	14.76			
10	HQDM	25	25	14.90	14.75	14.83	16	0	
10	HQDM	50	0	14.84	14.83	14.87			
10	HQDM	1	0	14.84	14.83	14.81	16	0	
10	HQDM	1	25	14.72	14.80	14.79			
10	HQDM	1	49	14.84	14.79	14.86	16	0	
10	HQDM	25	0	14.82	14.81	14.80			
10	HQDM	25	12	14.66	14.88	14.72	16	0	
10	HQDM	25	25	14.85	14.84	14.78			
10	HQDM	50	0	14.86	14.79	14.88	16	0	
10	25SQDM	1	0	14.85	14.81	14.87			
10	25SQDM	1	25	14.80	14.77	14.89	16	0	
10	25SQDM	1	49	14.77	14.75	14.84			
10	25SQDM	25	0	14.88	14.85	14.79	16	0	
10	25SQDM	25	12	14.70	14.84	14.86			
10	25SQDM	25	25	14.89	14.71	14.85	16	0	
10	25SQDM	50	0	14.87	14.81	14.85			
Channel				3475.5	3665.5	3647.5	Turn-up time (dBm)	MPR (dB)	
Frequency (MHz)				3475.5	3665.5	3647.5			
5	QPSK	1	0	14.94	14.83	14.88	16	0	
5	QPSK	1	12	14.70	14.84	14.72			
5	QPSK	1	24	14.83	14.78	14.85	16	0	
5	QPSK	12	0	14.80	14.89	14.79			
5	QPSK	12	7	14.75	14.77	14.81	16	0	
5	QPSK	12	13	14.80	14.84	14.82			
5	QPSK	25	0	14.77	14.87	14.84	16	0	
5	HQDM	1	0	14.76	14.90	14.80			
5	HQDM	1	12	14.87	14.88	14.79	16	0	
5	HQDM	1	24	14.71	14.72	14.83			
5	HQDM	12	0	14.91	14.98	14.72	16	0	
5	HQDM	12	7	14.78	14.83	14.78			
5	HQDM	12	13	14.82	14.83	14.70	16	0	
5	HQDM	25	0	14.84	14.78	14.77			
5	HQDM	1	0	14.83	14.70	14.80	16	0	
5	HQDM	1	12	14.75	14.80	14.84			
5	HQDM	1	24	14.80	14.77	14.60	16	0	
5	HQDM	12	0	14.81	14.86	14.80			
5	HQDM	12	7	14.73	14.87	14.77	16	0	
5	HQDM	12	13	14.87	14.69	14.79			
5	HQDM	25	0	14.78	14.73	14.83	16	0	
5	25SQDM	1	0	14.87	14.98	14.81			
5	25SQDM	1	12	14.74	14.81	14.83	16	0	
5	25SQDM	1	24	14.80	14.75	14.68			
5	25SQDM	12	0	14.84	14.82	14.85	16	0	
5	25SQDM	12	7	14.71	14.85	14.79			
5	25SQDM	12	13	14.72	14.88	14.81	16	0	
5	25SQDM	25	0	14.82	14.71	14.87			



Band 38&other PA Ant 4 EC12										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel										
Frequency (MHz)				37965	38000	38100				
20	QPSK	1	0	18.47	18.50	18.30		19.7	0	
20	QPSK	1	49	18.39	18.39	18.39				
20	QPSK	1	99	18.40	18.40	18.40				
20	QPSK	50	0	18.47	18.50	18.30				
20	QPSK	50	24	18.46	18.46	18.38		19.7	0	
20	QPSK	50	50	18.41	18.41	18.38				
20	QPSK	100	0	18.44	18.49	18.44				
20	QPSK	100	1	18.42	18.42	18.29		19.7	0	
20	QPSK	100	1	18.40	18.40	18.30				
20	QPSK	50	24	18.26	18.27	18.29				
20	QPSK	50	50	18.40	18.39	18.29		19.7	0	
20	QPSK	100	0	18.36	18.36	18.29				
20	QPSK	100	1	18.34	18.45	18.25				
20	QPSK	100	1	18.38	18.50	18.26		19.7	0	
20	QPSK	50	0	18.36	18.40	18.35				
20	QPSK	50	24	18.31	18.24	18.13		19.7	0	
20	QPSK	50	50	18.45	18.40	18.35				
20	QPSK	100	0	18.31	18.41	18.30				
20	QPSK	100	1	18.30	18.35	18.27				
20	QPSK	100	1	18.27	18.30	18.27		18	1.7	
20	QPSK	50	0	18.35	18.36	18.30				
20	QPSK	50	24	18.26	18.26	18.26				
20	QPSK	50	50	18.34	18.34	18.25		18	1.7	
20	QPSK	100	0	18.26	18.30	18.25				
20	QPSK	100	1	18.24	18.30	18.25				
20	QPSK	100	1	18.20	18.27	18.23		19.7	0	
20	QPSK	50	0	18.25	18.28	18.20				
20	QPSK	50	24	18.16	18.11	18.11		19.7	0	
20	QPSK	50	50	18.25	18.25	18.20				
20	QPSK	100	0	18.27	18.30	18.21				
20	QPSK	100	1	18.43	18.59	18.74		18	1.7	
20	QPSK	100	1	18.47	18.61	18.53				
20	QPSK	100	1	18.40	18.62	18.60				
Channel										
Frequency (MHz)				25715	25715	25715				
5	QPSK	1	0	18.38	18.38	18.37		19.7	0	
5	QPSK	1	25	18.33	18.27	18.31				
5	QPSK	1	49	18.33	18.43	18.31				
5	QPSK	12	0	18.43	18.43	18.38		19.7	0	
5	QPSK	25	12	18.33	18.34	18.16				
5	QPSK	25	25	18.47	18.40	18.35				
5	QPSK	12	0	18.35	18.37	18.23				
5	QPSK	12	7	18.13	18.29	18.26		19.7	0	
5	QPSK	12	13	18.34	18.30	18.26				
5	QPSK	12	19	18.34	18.30	18.16				
5	QPSK	12	25	18.35	18.35	18.26		19.7	0	
5	QPSK	25	0	18.30	18.40	18.24				
5	QPSK	25	12	18.30	18.29	18.26				
5	QPSK	25	25	18.31	18.31	18.16				
5	QPSK	12	0	18.30	18.30	18.26				
5	QPSK	12	7	18.13	18.29	18.26		19.7	0	
5	QPSK	12	13	18.34	18.30	18.16				
5	QPSK	12	19	18.34	18.30	18.16				
5	QPSK	12	25	18.35	18.35	18.26		19.7	0	
5	QPSK	25	0	18.29	18.21	18.17				
5	QPSK	25	12	18.30	18.29	18.26				
5	QPSK	25	25	18.31	18.31	18.16				
5	QPSK	12	0	18.30	18.30	18.26				
5	QPSK	12	7	18.13	18.29	18.26		19.7	0	
5	QPSK	12	13	18.40	18.34	18.25				
5	QPSK	12	19	18.40	18.34	18.25				
5	QPSK	12	25	18.41	18.41	18.30		19.7	0	
5	QPSK	25	0	18.30	18.30	18.26				
5	QPSK	25	12	18.30	18.29	18.26				
5	QPSK	25	25	18.31	18.31	18.16				
5	QPSK	12	0	18.30	18.30	18.26				
5	QPSK	12	7	18.13	18.29	18.26		19.7	0	
5	QPSK	12	13	18.40	18.34	18.25				
5	QPSK	12	19	18.40	18.34	18.25				
5	QPSK	12	25	18.41	18.41	18.30		19.7	0	
5	QPSK	25	0	18.30	18.30	18.26				
5	QPSK	25	12	18.30	18.29	18.26				
5	QPSK	25	25	18.31	18.31	18.16				
5	QPSK	12	0	18.30	18.30	18.26				
5	QPSK	12	7	18.13	18.29	18.26		19.7	0	
5	QPSK	12	13	18.40	18.34	18.25				
5	QPSK	12	19	18.40	18.34	18.25				
5	QPSK	12	25	18.41	18.41	18.30		19.7	0	
5	QPSK	25	0	18.30	18.30	18.26				
5	QPSK	25	12	18.30	18.29	18.26				
5	QPSK	25	25	18.31	18.31	18.16				
5	QPSK	12	0	18.30	18.30	18.26				
5	QPSK	12	7	18.13	18.29	18.26		19.7	0	
5	QPSK	12	13	18.40	18.34	18.25				
5	QPSK	12	19	18.40	18.34	18.25				
5	QPSK	12	25	18.41	18.41	18.30		19.7	0	
5	QPSK	25	0	18.30	18.30	18.26				
5	QPSK	25	12	18.30	18.29	18.26				
5	QPSK	25	25	18.31	18.31	18.16				
5	QPSK	12	0	18.30	18.30	18.26				
5	QPSK	12	7	18.13	18.29	18.26		19.7	0	
5	QPSK	12	13	18.40	18.34	18.25				
5	QPSK	12	19	18.40	18.34	18.25				
5	QPSK	12	25	18.41	18.41	18.30		19.7	0	
5	QPSK	25	0	18.30	18.30	18.26				
5	QPSK	25	12	18.30	18.29	18.26				
5	QPSK	25	25	18.31	18.31	18.16				
5	QPSK	12	0	18.30	18.30	18.26				
5	QPSK	12	7	18.13	18.29	18.26		19.7	0	
5	QPSK	12	13	18.40	18.34	18.25				
5	QPSK	12	19	18.40	18.34	18.25				
5	QPSK	12	25	18.41	18.41	18.30		19.7	0	
5	QPSK	25	0	18.30	18.30	18.26				
5	QPSK	25	12	18.30	18.29	18.26				
5	QPSK	25	25	18.31	18.31	18.16				
5	QPSK	12	0	18.30	18.30	18.26				
5	QPSK	12	7	18.13	18.29	18.26		19.7	0	
5	QPSK	12	13	18.40	18.34	18.25				
5	QPSK	12	19	18.40	18.34	18.25				
5	QPSK	12	25	18.41	18.41	18.30		19.7	0	
5	QPSK	25	0	18.30	18.30	18.26				
5	QPSK	25	12	18.30	18.29	18.26				
5	QPSK	25	25	18.31	18.31	18.16				
5	QPSK	12	0	18.30	18.30	18.26				
5	QPSK	12	7	18.13	18.29	18.26		19.7	0	
5	QPSK	12	13	18.40	18.34	18.25				
5	QPSK	12	19	18.40	18.34	18.25				
5	QPSK	12	25	18.41	18.41	18.30		19.7	0	
5	QPSK	25	0	18.30	18.30	18.26				
5	QPSK	25	12	18.30	18.29	18.26				
5	QPSK	25	25	18.31	18.31	18.16				
5	QPSK	12	0	18.30	18.30	18.26				
5	QPSK	12	7	18.13	18.29	18.26		19.7	0	
5	QPSK	12	13	18.40	18.34	18.25				
5	QPSK	12	19	18.40	18.34	18.25				
5	QPSK	12	25	18.41	18.41	18.30		19.7	0	
5	QPSK	25	0	18.30	18.30	18.26				
5	QPSK	25	12	18.30	18.29	18.26				
5	QPSK	25	25	18.31	18.31	18.16				
5	QPSK	12	0	18.30	18.30	18.26				
5	QPSK	12	7	18.13	18.29	18.26		19.7	0	
5	QPSK	12	13	18.40	18.34	18.25				
5	QPSK	12	19	18.40	18.34	18.25				
5	QPSK	12	25	18.41	18.41	18.30		19.7	0	
5	QPSK	25	0	18.30	18.30	18.26				
5	QPSK	25	12	18.30	18.29	18.26				
5	QPSK	25	25	18.31	18.31	18.16				
5	QPSK	12	0	18.30	18.30	18.26				
5	QPSK	12	7	18.13	18.29	18.26		19.7	0	
5	QPSK	12	13	18.40	18.34	18.25				
5	QPSK	12	19	18.40	18.34	18.25				
5	QPSK	12	25	18.41	18.41	18.30		19.7	0	
5	QPSK	25	0	18.30	18.30	18.26				
5	QPSK	25	12	18.30	18.29	18.26				
5	QPSK	25	25	18.31	18.31	18.16				
5	QPSK	12	0	18.30	18.30	18.26				
5	QPSK	12	7	18.13	18.29	18.26		19.7	0	
5	QPSK	12	13	18.40	18.34	18.25				
5	QPSK	12	19	18.40	18.34	18.25				



Reduced Power Mode for ECI 3

GSM850 Art 3 ECI3		Total Average Power (dBm)			Tx Power		Power Change Power (dBm)			Tx Power	
Rx Channel		4150	4160	4170	Lm0		4150	4160	4170	Lm0	
Frequency (MHz)		834.2	834.4	834.8	834.2		834.4	834.8	834.8	834.8	
GSM 1 Tx Wile		31.72	31.81	31.86	33.50	22.72	22.81	22.86	24.50		
GPRS 1 Tx Wile		31.73	31.88	31.92	33.50	22.73	22.88	22.92	24.50		
GPRS 2 Tx Wile		30.93	30.12	29.59	31.10	24.09	24.12	23.59	25.10		
GPRS 3 Tx Wile		28.61	28.14	28.61	28.30	24.25	24.28	24.27	25.04		
GPRS 4 Tx Wile		28.60	28.83	28.79	28.10	23.80	23.83	23.79	25.10		
EDGE 1 Tx Wile		26.90	26.97	26.94	26.00	17.80	17.87	17.84	18.50		
EDGE 2 Tx Wile		26.93	26.31	26.29	26.00	18.28	18.31	18.29	20.00		
EDGE 3 Tx Wile		23.34	23.39	23.25	24.00	18.05	18.13	18.07	20.24		
EDGE 4 Tx Wile		21.83	21.85	21.78	23.00	18.83	18.85	18.78	20.00		

Base		GSM850 Art 3 ECI3			Tx Power	
Rx Channel		4150	4160	4170	Lm0	
Frequency (MHz)		834.4	834.6	834.8	834.8	
SCPP Rel 00		AMR 12.2Mbps	22.38	22.49	22.44	24.00
SCPP Rel 00		AMR 12.2Mbps	22.40	22.53	22.50	24.00
SCPP Rel 0		HS-CPA Subcar-1	21.50	21.58	21.48	23.00
SCPP Rel 0		HS-CPA Subcar-2	21.49	21.51	21.49	23.00
SCPP Rel 0		HS-CPA Subcar-3	20.98	21.48	21.60	22.50
SCPP Rel 0		HS-CPA Subcar-4	20.94	21.00	20.94	22.50
SCPP Rel 0		DC-HS-CPA Subcar-1	21.50	21.50	21.48	23.00
SCPP Rel 0		DC-HS-CPA Subcar-2	21.44	21.49	21.53	23.00
SCPP Rel 0		DC-HS-CPA Subcar-3	20.94	21.00	21.01	22.50
SCPP Rel 0		DC-HS-CPA Subcar-4	20.98	21.02	21.04	22.50
SCPP Rel 0		HS-CPA Subcar-1	21.50	21.56	21.44	23.00
SCPP Rel 0		HS-CPA Subcar-2	19.51	19.51	19.49	21.00
SCPP Rel 0		HS-CPA Subcar-3	20.95	20.99	20.48	22.00
SCPP Rel 0		HS-CPA Subcar-4	19.85	19.85	19.48	21.00
SCPP Rel 0		HS-CPA Subcar-5	21.54	21.48	21.48	23.00
SCPP Rel 0		HS-CPA HS-CPA Subcar-1	19.85	19.88	19.85	20.95



Band	WCDMA II AM 1 ECR3				WCDMA IV AM 1 ECR3			
	TS Channel	9902	9903	9936	TS Channel	1512	1513	1513
Frequency (MHz)	1920.2	1920	1920.8	(MHz)	1920.2	1920	1920.8	(MHz)
QPSK 1 Tx Min	28.97	29.04	29.02	30.50	19.97	20.04	20.02	21.50
QPSK 2 Tx Min	28.19	28.23	28.20	29.50	20.19	22.23	22.20	23.50
QPSK 3 Tx Min	28.23	28.27	28.24	27.50	21.26	22.31	21.28	23.24
QPSK 4 Tx Min	25.18	25.22	25.18	28.50	22.18	22.22	22.18	23.50
EDGE 1 Tx Min	23.71	23.71	23.64	25.00	18.71	18.71	18.64	18.00
EDGE 2 Tx Min	22.21	22.18	22.23	23.50	18.21	18.18	18.23	17.50
EDGE 3 Tx Min	20.16	20.20	20.16	21.50	17.69	17.69	17.69	17.24
EDGE 4 Tx Min	18.61	18.74	18.68	20.00	15.61	15.74	15.68	17.00

Band	WCDMA II AM 1 ECR3				WCDMA IV AM 1 ECR3			
	TS Channel	9902	9903	9936	TS Channel	1512	1513	1513
TS Channel	9902	9903	9936	(MHz)	1512	1513	1513	(MHz)
Frequency (MHz)	1920.2	1920	1920.8	21.50	20.26	20.31	20.27	21.50
QPSK 1 Tx Min	20.33	20.43	20.33	21.50	20.26	20.31	20.27	21.50
QPSK 2 Tx Min	20.41	20.52	20.45	21.60	20.28	20.44	20.31	21.50
QPSK 3 Tx Min	19.52	19.55	19.52	20.60	19.28	19.42	19.35	20.30
QPSK 4 Tx Min	19.46	19.60	19.39	20.60	19.40	19.41	19.27	20.50
QPSK 5 Tx Min	18.50	18.50	18.50	20.10	18.80	18.80	18.80	19.00
QPSK 6 Tx Min	18.80	18.86	18.89	20.10	18.79	18.89	18.86	18.89
QPSK 7 Tx Min	18.46	18.47	18.47	20.00	18.31	18.47	18.31	20.30
QPSK 8 Tx Min	18.35	18.55	18.48	20.00	18.35	18.35	18.35	20.30
QPSK 9 Tx Min	18.80	18.89	18.89	20.10	18.85	18.87	18.82	19.80
QPSK 10 Tx Min	18.88	19.00	18.90	20.10	18.78	18.89	18.81	19.80
QPSK 11 Tx Min	19.39	19.50	19.41	20.00	19.34	19.53	19.35	20.30
QPSK 12 Tx Min	17.34	17.40	17.32	18.80	17.26	17.27	17.41	18.30
QPSK 13 Tx Min	18.47	18.50	18.54	18.50	18.24	18.33	18.37	18.50
QPSK 14 Tx Min	17.44	17.52	17.50	18.60	17.25	17.51	17.44	18.30
QPSK 15 Tx Min	19.37	19.54	19.54	20.80	19.35	19.35	19.38	20.30
QPSK 16 Tx Min	18.91	17.07	18.92	18.10	18.81	17.03	18.88	17.80



GSM850 Axi 4 ECG		Power Average Power (dBm)			Time-up		Power Average Power (dBm)			Time-up	
Tx Channel		180	180	241	Limit		180	180	241	Limit	
Frequency (MHz)		834.2	834.4	844.8	(dBm)		834.2	834.4	844.8	(dBm)	
GSM 1 Tx site		31.22	31.30	31.21	32.50		22.27	22.30	22.21	23.50	
GPRS 1 Tx site		31.21	31.23	31.15	32.50		22.21	22.23	22.15	23.50	
GPRS 2 Tx site		30.26	30.32	30.25	31.00		24.38	24.32	24.25	25.00	
GPRS 3 Tx site		26.30	26.41	26.30	27.00		24.30	24.35	24.15	24.74	
GPRS 4 Tx site		27.13	27.18	27.15	28.00		24.13	24.18	24.15	25.00	
EDGE 1 Tx site		26.20	26.37	26.31	27.00		17.20	17.23	17.31	18.00	
EDGE 2 Tx site		24.70	24.81	24.70	25.50		18.70	18.81	18.76	19.50	
EDGE 3 Tx site		22.80	22.81	22.72	23.50		18.24	18.59	18.48	19.24	
EDGE 4 Tx site		21.23	21.37	21.23	22.00		18.24	18.37	18.23	19.00	

Band		WCDMA V Axi 4 ECG			Time-up	
Tx Channel		4150	4162	4153	Limit	
Rx Channel		4467	4467	4468	(dBm)	
Frequency (MHz)		2464	2464	2464	(dBm)	
SCPP Rel 9d		AMR 12.2kbit	20.15	20.18	22.00	
SCPP Rel 9d		RMDC 12.2kbit	22.25	22.26	22.18	
SCPP Rel 8		HS-PA Subcar-1	21.10	21.27	21.18	
SCPP Rel 8		HS-PA Subcar-2	21.10	21.25	21.10	
SCPP Rel 8		HS-PA Subcar-3	20.72	20.70	20.65	
SCPP Rel 8		HS-PA Subcar-4	20.69	20.66	20.70	
SCPP Rel 8		DC-HSPA Subcar-1	21.21	21.20	21.18	
SCPP Rel 8		DC-HSPA Subcar-2	21.25	21.30	21.21	
SCPP Rel 8		DC-HSPA Subcar-3	20.71	20.75	20.65	
SCPP Rel 8		DC-HSPA Subcar-4	20.71	20.78	20.60	
SCPP Rel 8		HSPA Subcar-1	21.22	21.20	21.19	
SCPP Rel 8		HSPA Subcar-2	19.21	19.25	19.14	
SCPP Rel 8		HSPA Subcar-3	20.52	20.51	20.17	
SCPP Rel 8		HSPA Subcar-4	19.22	19.28	19.24	
SCPP Rel 8		HSPA Subcar-5	21.26	21.22	21.15	
SCPP Rel 7		HSPA2 (12.2kbit) Subcar-1	18.70	18.77	18.63	

Band 5 Ant 0 ECI3														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turnup time (sec)	MPE (dB)						
Channel														
800 806.5 844														
10	QPSK	1	0	22.38	22.42	22.29	24	0						
10	QPSK	1	25	22.26	22.30	22.21								
10	QPSK	1	49	22.33	22.34	22.22								
10	QPSK	25	0	21.53	21.57	21.24								
10	QPSK	25	12	21.30	21.31	21.28	23	1						
10	QPSK	25	25	21.27	21.31	21.24								
10	QPSK	50	0	21.28	21.30	21.26								
10	16QAM	1	0	21.21	21.26	21.14								
10	16QAM	1	25	21.23	21.19	21.19	23	1						
10	16QAM	1	49	21.23	21.18	21.20								
10	16QAM	25	0	20.35	20.39	20.22								
10	16QAM	25	12	20.29	20.35	20.30								
10	16QAM	25	25	20.31	20.36	20.24	22	2						
10	16QAM	50	0	20.34	20.30	20.23								
10	64QAM	1	0	20.15	20.24	20.19								
10	64QAM	1	25	20.24	20.14	20.24								
10	64QAM	1	49	20.20	20.16	20.20	21	3						
10	64QAM	25	0	19.37	19.35	19.26								
10	64QAM	25	12	19.25	19.27	19.24								
10	64QAM	25	25	19.33	19.29	19.30								
10	64QAM	50	0	19.33	19.31	19.24	19	5						
10	256QAM	1	0	17.36	17.42	17.21								
10	256QAM	1	25	17.28	17.30	17.27								
10	256QAM	1	49	17.23	17.32	17.21								
10	256QAM	25	0	17.26	17.28	17.24								
10	256QAM	25	12	17.22	17.28	17.11								
10	256QAM	25	25	17.20	17.29	17.17								
10	256QAM	50	0	17.22	17.23	17.18	19	5						
Channel														
20415 20425 20435 20445														
5	QPSK	1	0	22.28	22.37	22.28					24	0		
5	QPSK	1	12	22.17	22.28	22.13								
5	QPSK	1	24	22.22	22.25	22.08								
5	QPSK	12	0	21.26	21.30	21.12								
5	QPSK	12	7	21.19	21.18	21.20	23	1						
5	QPSK	12	13	21.15	21.28	21.19								
5	QPSK	25	0	21.25	21.23	21.23								
5	16QAM	1	0	21.09	21.16	21.02								
5	16QAM	1	12	21.11	21.12	21.12	23	1						
5	16QAM	1	24	21.19	21.09	21.18								
5	16QAM	12	0	20.23	20.32	20.08								
5	16QAM	12	7	20.18	20.22	20.24								
5	16QAM	12	13	20.30	20.24	20.12	22	2						
5	16QAM	25	0	20.23	20.25	20.10								
5	64QAM	1	0	20.13	20.13	20.08								
5	64QAM	1	12	20.15	20.20	20.18								
5	64QAM	1	24	20.07	20.11	20.13	21	3						
5	64QAM	12	0	19.24	19.29	19.22								
5	64QAM	12	13	19.26	19.23	19.21								
5	64QAM	12	13	19.29	19.25	19.25								
5	64QAM	25	0	19.29	19.20	19.17	19	5						
5	256QAM	1	0	17.25	17.25	17.25								
5	256QAM	1	12	17.19	17.19	17.24								
5	256QAM	1	24	17.14	17.24	17.15								
5	256QAM	12	0	17.26	17.21	17.24	19	5						
5	256QAM	12	7	17.09	17.14	17.06								
5	256QAM	12	13	17.21	17.07	17.07								
5	256QAM	25	0	17.20	17.20	17.12								
Channel														
20415 20425 20435 20445														
3	QPSK	1	0	22.25	22.35	22.25	24	0						
3	QPSK	1	8	22.13	22.25	22.16								
3	QPSK	1	14	22.22	22.29	22.16								
3	QPSK	8	0	21.23	21.26	21.19								
3	QPSK	8	4	21.16	21.28	21.16	23	1						
3	QPSK	8	7	21.14	21.26	21.19								
3	16QAM	1	0	21.24	21.24	21.18								
3	16QAM	1	0	21.12	21.21	21.09								
3	16QAM	1	8	21.11	21.15	21.06	23	1						
3	16QAM	1	14	21.18	21.13	21.09								
3	16QAM	8	0	20.32	20.33	20.19								
3	16QAM	8	4	20.24	20.29	20.27								
3	16QAM	8	7	20.35	20.21	20.12	22	2						
3	16QAM	15	0	20.29	20.24	20.10								
3	64QAM	1	0	20.04	20.19	20.11								
3	64QAM	1	8	20.17	20.01	20.14								
3	64QAM	1	14	20.09	20.09	20.16	21	3						
3	64QAM	8	0	19.28	19.30	19.17								
3	64QAM	8	4	19.10	19.14	19.15								
3	64QAM	8	7	19.27	19.19	19.21								
3	64QAM	15	0	19.30	19.26	19.22	19	5						
3	256QAM	1	0	17.34	17.26	17.12								
3	256QAM	1	8	17.20	17.22	17.26								
3	256QAM	1	14	17.16	17.25	17.11								
3	256QAM	8	0	17.14	17.17	17.13	19	5						
3	256QAM	8	4	17.15	17.22	17.06								
3	256QAM	8	7	17.26	17.18	17.11								
3	256QAM	15	0	17.27	17.21	17.07								
Channel														
20407 20428 20443														
1.4	QPSK	1	0	22.35	22.35	22.25	24	0						
1.4	QPSK	1	3	22.15	22.30	22.15								
1.4	QPSK	1	5	22.26	22.20	22.15								
1.4	QPSK	3	0	22.20	22.30	22.14								
1.4	QPSK	3	1	22.05	22.24	22.09	23	1						
1.4	QPSK	3	3	22.14	22.13	22.05								
1.4	QPSK	6	0	21.04	21.25	21.13								
1.4	16QAM	1	0	21.14	21.16	21.04								
1.4	16QAM	1	3	21.16	21.16	21.10	23	1						
1.4	16QAM	1	6	21.14	21.12	21.16								
1.4	16QAM	3	0	21.18	21.19	21.06								
1.4	16QAM	3	1	21.06	21.07	21.01								
1.4	16QAM	3	3	21.09	21.10	21.05	22	2						
1.4	16QAM	6	0	20.25	20.30	20.20								
1.4	64QAM	1	0	20.08	20.20	20.06								
1.4	64QAM	1	3	20.21	20.10	20.10								
1.4	64QAM	1	5	20.14	20.07	20.17	22	2						
1.4	64QAM	3	0	20.22	20.21	20.14								
1.4	64QAM	3	1	20.01	20.07	20.03								
1.4	64QAM	3	3	20.08	20.04	20.03								
1.4	64QAM	6	0	19.23	19.21	19.14	21	3						
1.4	256QAM	1	0	17.24	17.29	17.13								
1.4	256QAM	1	3	17.20	17.19	17.14								
1.4	256QAM	1	5	17.11	17.25	17.19								
1.4	256QAM	3	0	17.24	17.25	17.18	19	5						
1.4	256QAM	3	1	17.13	17.19	17.05								
1.4	256QAM	3		17.06	17.09	17.06	19	5						
1.4	256QAM	6	0	17.25	17.15	17.05								

Band 17 Ant 0 EC13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up (mHz)	MPE (dB)		
Channel										
				709	710	711				
10	QPSK	1	0	22.19	22.20	22.22	24	0		
10	QPSK	1	26	22.12	22.19	22.11				
10	QPSK	1	49	22.16	22.22	22.09				
10	QPSK	25	0	21.26	21.30	21.22				
10	QPSK	25	12	21.11	21.13	21.18	23	1		
10	QPSK	25	25	21.07	21.21	21.12				
10	QPSK	50	0	21.16	21.26	21.16				
10	16QAM	1	0	21.29	21.29	21.14				
10	16QAM	1	26	21.09	21.09	21.02	23	1		
10	16QAM	1	49	21.04	21.15	21.08				
10	16QAM	25	0	20.38	20.37	20.35				
10	16QAM	25	12	20.10	20.20	20.03				
10	16QAM	25	25	20.07	20.15	20.16	22	2		
10	16QAM	50	0	20.22	20.27	20.13				
10	64QAM	1	0	20.19	20.20	20.08				
10	64QAM	1	26	20.03	20.07	20.09				
10	64QAM	1	49	20.07	20.15	20.05	21	3		
10	64QAM	25	0	19.22	19.34	19.24				
10	64QAM	25	12	19.04	19.05	19.16				
10	64QAM	25	25	19.20	19.16	19.11				
10	64QAM	50	0	19.19	19.34	19.16	19	5		
10	256QAM	1	0	17.22	17.27	17.27				
10	256QAM	1	26	17.13	17.04	17.11				
10	256QAM	1	49	17.13	17.16	17.14				
10	256QAM	25	0	17.12	17.20	17.26	19	5		
10	256QAM	25	12	17.26	17.29	17.03				
10	256QAM	25	25	17.17	17.00	17.01				
10	256QAM	50	0	17.07	17.10	17.05				
Channel										
				706.5	710	713.5	Tune-up (mHz)	MPE (dB)		
5	QPSK	1	0	22.18	22.18	22.15	24	0		
5	QPSK	1	12	22.06	22.16	22.10				
5	QPSK	1	24	22.14	22.11	22.10				
5	QPSK	12	0	21.22	21.25	21.19				
5	QPSK	12	7	21.01	21.10	21.12	23	1		
5	QPSK	12	13	21.08	21.14	21.09				
5	QPSK	25	0	21.11	21.16	21.13				
5	16QAM	1	0	21.22	21.27	21.05				
5	16QAM	1	12	21.08	21.14	21.13	23	1		
5	16QAM	1	24	21.22	21.04	21.10				
5	16QAM	12	0	20.36	20.23	20.26				
5	16QAM	12	7	20.11	20.13	20.02				
5	16QAM	12	13	20.51	20.14	20.06	22	2		
5	16QAM	25	0	20.20	20.28	20.09				
5	64QAM	1	0	20.09	20.17	20.01				
5	64QAM	1	12	21.13	20.09	20.01				
5	64QAM	1	24	20.06	20.05	20.01	21	3		
5	64QAM	12	0	19.15	19.35	19.19				
5	64QAM	12	7	19.03	19.10	19.05				
5	64QAM	12	13	19.12	19.15	19.05				
5	64QAM	25	0	19.16	19.26	19.14	19	5		
5	256QAM	1	0	17.17	17.26	17.23				
5	256QAM	1	12	17.07	17.07	17.12				
5	256QAM	1	24	17.08	17.06	17.12				
5	256QAM	12	0	17.04	17.24	17.16	19	5		
5	256QAM	12	7	17.21	17.19	17.07				
5	256QAM	12	13	17.14	17.24	17.12				
5	256QAM	25	0	17.08	17.11	17.12				

Band 26 Ant 0 EC13												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up freq. (dBm)	MPE (dB)				
Channel												
				26765	26865	26965						
15	QPSK	1	0	22.44	22.53	22.35	24	0				
15	QPSK	1	37	22.33	22.41	22.28						
15	QPSK	1	74	22.40	22.42	22.27						
15	QPSK	36	0	21.35	21.48	21.37						
15	QPSK	36	20	21.43	21.40	21.37	23	1				
15	QPSK	36	36	21.35	21.35	21.28						
15	QPSK	75	0	21.40	21.41	21.34						
15	16QAM	1	0	21.25	21.29	21.25						
15	16QAM	1	37	21.31	21.28	21.31	23	1				
15	16QAM	1	74	21.33	21.24	21.23						
15	16QAM	36	0	20.46	20.48	20.28						
15	16QAM	36	20	20.34	20.38	20.34						
15	16QAM	36	36	20.24	20.38	20.24	22	2				
15	16QAM	75	0	20.37	20.48	20.33						
15	64QAM	1	0	20.18	20.30	20.21						
15	64QAM	1	37	20.37	20.16	20.33						
15	64QAM	1	74	20.22	20.28	20.30	21	3				
15	64QAM	36	0	19.40	19.38	19.27						
15	64QAM	36	20	19.27	19.33	19.24						
15	64QAM	36	36	19.46	19.35	19.43						
15	64QAM	75	0	19.42	19.35	19.26	19	5				
15	256QAM	1	0	17.41	17.50	17.25						
15	256QAM	1	37	17.42	17.38	17.28						
15	256QAM	1	74	17.27	17.41	17.26						
15	256QAM	36	0	17.32	17.43	17.28						
15	256QAM	36	20	17.25	17.41	17.13	19	5				
15	256QAM	36	36	17.34	17.22	17.22						
15	256QAM	75	0	17.34	17.31	17.23						
Channel												
				26765	26865	26965			Tune-up freq. (dBm)	MPE (dB)		
10	QPSK	1	0	22.30	22.39	22.31	24	0				
10	QPSK	1	26	22.24	22.38	22.14						
10	QPSK	1	49	22.31	22.34	22.29						
10	QPSK	25	0	21.25	21.44	21.33						
10	QPSK	25	12	21.39	21.30	21.24	23	1				
10	QPSK	25	25	21.29	21.29	21.15						
10	QPSK	50	0	21.34	21.39	21.31						
10	16QAM	1	0	21.16	21.17	21.15						
10	16QAM	1	25	21.25	21.16	21.25	23	1				
10	16QAM	1	49	21.30	21.13	21.13						
10	16QAM	25	0	20.40	20.37	20.24						
10	16QAM	25	12	20.22	20.30	20.31						
10	16QAM	25	25	20.36	20.30	20.26	22	2				
10	16QAM	50	0	20.25	20.43	20.30						
10	64QAM	1	0	20.10	20.18	20.22						
10	64QAM	1	26	20.31	20.03	20.24						
10	64QAM	1	49	20.19	20.17	20.35	21	3				
10	64QAM	25	0	19.27	19.27	19.35						
10	64QAM	25	12	19.16	19.39	19.24						
10	64QAM	25	25	19.37	19.24	19.17						
10	64QAM	50	0	19.33	19.22	19.34	19	5				
10	256QAM	1	0	17.34	17.45	17.16						
10	256QAM	1	26	17.38	17.25	17.28						
10	256QAM	1	49	17.22	17.41	17.21						
10	256QAM	25	0	17.17	17.39	17.07						
10	256QAM	25	12	17.12	17.37	17.07	19	5				
10	256QAM	25	25	17.24	17.22	17.22						
10	256QAM	50	0	17.20	17.21	17.17						
Channel												
				26715	26815	26915			Tune-up freq. (dBm)	MPE (dB)		
5	QPSK	1	0	22.35	22.48	22.23	24	0				
5	QPSK	1	12	22.24	22.38	22.16						
5	QPSK	1	25	22.36	22.36	22.29						
5	QPSK	12	0	21.32	21.46	21.33						
5	QPSK	12	6	21.40	21.29	21.24	23	1				
5	QPSK	12	12	21.30	21.30	21.17						
5	QPSK	25	0	21.29	21.35	21.25						
5	16QAM	1	0	21.19	21.20	21.18						
5	16QAM	1	6	21.25	21.21	21.19	23	1				
5	16QAM	1	12	21.24	21.14	21.11						
5	16QAM	12	0	20.41	20.37	20.24						
5	16QAM	12	6	20.28	20.32	20.25						
5	16QAM	12	13	20.31	20.27	20.25	22	2				
5	16QAM	25	0	20.34	20.35	20.24						
5	16QAM	25	6	19.28	19.28	19.27						
5	16QAM	25	12	20.29	20.13	20.28						
5	16QAM	1	24	20.13	20.21	20.27	21	3				
5	16QAM	1	24	19.33	19.33	19.33						
5	16QAM	12	7	19.23	19.22	19.23						
5	16QAM	12	13	19.39	19.23	19.33						
5	16QAM	1	12	19.28	19.28	19.32	19	5				
5	16QAM	1	12	17.28	17.48	17.21						
5	16QAM	1	12	17.33	17.35	17.38						
5	16QAM	1	12	17.35	17.35	17.35						
5	16QAM	1	12	17.19	17.35	17.26	19	5				
5	16QAM	1	12	17.19	17.32	17.07						
5	16QAM	1	12	17.19	17.32	17.07						
5	16QAM	25	0	17.26	17.28	17.15						
Channel												
				26765	26865	26965	Tune-up freq. (dBm)	MPE (dB)				
3	QPSK	1	0	22.34	22.48	22.25	24	0				
3	QPSK	1	8	22.26	22.32	22.22						
3	QPSK	1	14	22.27	22.31	22.27						
3	QPSK	8	0	21.30	21.38	21.27						
3	QPSK	8	4	21.39	21.36	21.30	23	1				
3	QPSK	8	4	21.33	21.35	21.28						
3	QPSK	15	0	21.33	21.38	21.28						
3	16QAM	1	0	21.21	21.22	21.21						
3	16QAM	1	8	21.27	21.21	21.21	23	1				
3	16QAM	1	14	21.28	21.21	21.21						
3	16QAM	8	0	20.43	20.40	20.21						
3	16QAM	8	4	20.35	20.37	20.25						
3	16QAM	8	8	20.35	20.34	20.22	21	3				
3	16QAM	15	0	20.26	20.39	20.23						
3	16QAM	15	8	19.16	19.16	19.16						
3	16QAM	1	8	20.29	20.10	20.21						
3	16QAM	1	14	20.09	20.22	20.22	21	3				
3	16QAM	1	14	19.29	19.30	19.28						
3	16QAM	8	4	19.24	19.23	19.25						
3	16QAM	8	7	19.36	19.27	19.35						
3	16QAM	8	8	19.35	19.25	19.35	19	5				
3	16QAM	1	8	17.29	17.44	17.21						
3	16QAM	1	8	17.32	17.29	17.28						
3	16QAM	1	8	17.35	17.35	17.35						
3	16QAM	8	0	17.30	17.31	17.28	19	5				
3	16QAM	8	4	17.13	17.38	17.08						
3	16QAM	8	8	17.23	17.29	17.29						
3	16QAM	15	0	17.30	17.19	17.19						
Channel												
				26697	26797	26897	Tune-up freq. (dBm)	MPE (dB)				
1.4	QPSK	1	0	22.39	22.42	22.38	24	0				
1.4	QPSK	1	0	22.20	22.43	22.22						
1.4	QPSK	1	0	22.30	22.30	22.23						
1.4	QPSK	3	0	22.38	22.38	22.29						
1.4	QPSK	3	0	22.09	22.34	22.21	23	1				
1.4	QPSK	3	0	22.23	22.16	22.29						
1.4	QPSK	3	0	21.38	21.38	21.29						
1.4	QPSK	1	0	21.20	21.27	21.21						
1.4	16QAM	1	0	21.24	21.22	21.21	23	1				
1.4	16QAM	1	0	21.16	21.17	21.24						
1.4	16QAM	3	0	21.28	21.29	21.21						
1.4	16QAM	3	0	21.08	21.10	21.18						
1.4	16QAM	3	0	21.16	21.17	21.18	22	2				
1.4	16QAM	6	0	20.29	20.33	20.23						
1.4	16QAM	3	0	20.24	20.24	20.24						
1.4	16QAM	3	0	20.27	20.14	20.16						
1.4	16QAM	1	6	20.18	20.10	20.26	22	2				
1.4	16QAM	1	6	20.24	20.24	20.24						
1.4	16QAM	3	0	20.10	20.10	20.26						
1.4	16QAM	3	0	20.11	20.09	20.26						
1.4	16QAM	6	0	19.30	19.27	19.27	21	3				
1.4	16QAM	6	0	17.35	17.32	17.21						
1.4	16QAM	1	6	17.31	17.18	17.27						
1.4	16QAM	1	6	17.27	17.27	17.27						
1.4	16QAM	3	0	17.31	17.34	17.24	19	5				
1.4	16QAM	3	0	17.20	17.30	17.13						
1.4	16QAM	3	0	17.23	17.23	17.23						
1.4	16QAM	6	0	17.33	17.23	17.15						

Band 2&other PA Ant 1 EC13												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-on time (sec)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	20.87	20.72	20.60	21.8	0				
20	QPSK	1	48	20.80	20.68	20.51						
20	QPSK	1	96	20.66	20.53	20.47						
20	QPSK	50	0	20.68	20.70	20.68						
20	QPSK	50	24	20.57	20.62	20.58	21.8	0				
20	QPSK	50	50	20.66	20.68	20.47						
20	QPSK	100	0	20.66	20.69	20.61						
20	16QAM	1	0	20.71	20.67	20.59						
20	16QAM	1	48	20.52	20.53	20.65	21.8	0				
20	16QAM	1	99	20.84	20.64	20.57						
20	16QAM	1	99	20.21	20.36	20.26						
20	16QAM	50	24	20.19	20.25	20.23						
20	16QAM	50	50	20.27	20.25	20.07	21.8	0				
20	16QAM	100	0	20.25	20.27	20.26						
20	64QAM	1	0	20.28	20.19	20.21						
20	64QAM	1	49	20.17	20.21	20.16						
20	64QAM	1	99	20.20	20.21	20.16	21.8	0				
20	64QAM	50	0	19.21	19.24	19.30						
20	64QAM	50	24	19.25	19.15	19.21						
20	64QAM	50	50	19.17	19.28	19.30						
20	256QAM	1	0	17.31	17.36	17.30	19	2.8				
20	256QAM	1	48	17.28	17.24	17.22						
20	256QAM	1	99	17.28	17.22	17.05						
20	256QAM	50	24	17.24	17.28	17.27						
20	256QAM	50	24	17.27	17.25	17.19	19	2.8				
20	256QAM	50	50	17.27	17.19	17.17						
20	256QAM	100	0	17.18	17.13	17.14						
Channel												
Frequency (MHz)												
15	QPSK	1	0	19.67	19.60	19.55	21.8	0				
15	QPSK	1	48	20.85	20.71	20.59						
15	QPSK	1	99	20.56	20.59	20.59						
15	QPSK	1	74	20.67	20.48	20.45						
15	QPSK	36	0	20.58	20.60	20.62	21.8	0				
15	QPSK	36	36	20.47	20.62	20.56						
15	QPSK	36	36	20.61	20.69	20.49						
15	16QAM	75	0	20.69	20.67	20.51						
15	16QAM	1	0	20.60	20.62	20.51	21.8	0				
15	16QAM	1	37	20.43	20.60	20.49						
15	16QAM	1	74	20.67	20.49	20.45						
15	16QAM	36	0	20.12	20.37	20.25						
15	16QAM	36	20	20.15	20.24	20.23	21.8	0				
15	16QAM	36	36	20.22	20.27	20.25						
15	16QAM	75	0	20.22	20.27	20.25						
15	64QAM	1	0	20.24	20.18	20.14						
15	64QAM	1	37	20.13	20.13	20.14	21.8	0				
15	64QAM	1	74	20.12	20.15	20.14						
15	64QAM	36	0	19.14	19.32	19.30						
15	64QAM	36	36	19.14	19.32	19.30						
15	64QAM	36	36	19.11	19.13	19.17	21	0.8				
15	64QAM	75	0	19.30	19.26	19.27						
15	256QAM	1	37	17.25	17.26	17.19						
15	256QAM	1	74	17.15	17.18	17.04						
15	256QAM	36	0	17.25	17.26	17.25	19	2.8				
15	256QAM	36	20	17.20	17.24	17.13						
15	256QAM	36	36	17.16	17.18	17.08						
15	256QAM	75	0	17.11	17.18	17.08						
Channel												
Frequency (MHz)												
10	QPSK	1	0	20.48	20.43	20.40	21.8	0				
10	QPSK	1	25	20.57	20.64	20.50						
10	QPSK	1	48	20.65	20.52	20.45						
10	QPSK	25	0	20.64	20.67	20.63						
10	QPSK	25	12	20.54	20.51	20.48	21.8	0				
10	QPSK	25	25	20.69	20.65	20.44						
10	QPSK	50	0	20.61	20.61	20.59						
10	16QAM	1	0	20.65	20.59	20.52						
10	16QAM	1	25	20.40	20.58	20.59	21.8	0				
10	16QAM	1	48	20.54	20.49	20.46						
10	16QAM	25	0	20.14	20.28	20.22						
10	16QAM	25	12	20.19	20.23	20.12						
10	16QAM	50	0	20.18	20.25	20.16	21.8	0				
10	16QAM	50	0	20.20	20.22	20.24						
10	64QAM	1	0	20.19	20.10	20.21						
10	64QAM	1	25	20.12	20.13	20.12						
10	64QAM	1	48	20.16	20.16	20.08	21.8	0				
10	64QAM	25	0	19.21	19.25	19.23						
10	64QAM	25	12	19.18	19.09	19.12						
10	64QAM	25	25	19.15	19.07	19.14						
10	64QAM	50	0	19.22	19.22	19.17	19	2.8				
10	256QAM	1	48	17.23	17.23	17.15						
10	256QAM	1	25	17.23	17.15	17.15						
10	256QAM	1	48	17.18	17.20	17.06						
10	256QAM	25	12	17.25	17.18	17.11	19	2.8				
10	256QAM	25	25	17.10	17.11	17.11						
10	256QAM	50	0	17.14	17.11	17.13						
Channel												
Frequency (MHz)												
5	QPSK	1	0	20.58	20.31	20.24	21.8	0				
5	QPSK	1	12	20.51	20.50	20.50						
5	QPSK	1	24	20.62	20.43	20.42						
5	QPSK	12	0	20.68	20.41	20.58						
5	QPSK	12	7	20.53	20.58	20.54	21.8	0				
5	QPSK	12	13	20.63	20.64	20.38						
5	QPSK	25	0	20.54	20.61	20.58						
5	16QAM	1	0	20.60	20.68	20.49						
5	16QAM	1	12	20.46	20.60	20.52	21.8	0				
5	16QAM	1	25	20.57	20.53	20.48						
5	16QAM	12	0	20.21	20.31	20.19						
5	16QAM	12	7	20.13	20.25	20.20						
5	16QAM	12	13	20.25	20.13	20.03	21.8	0				
5	16QAM	25	0	20.22	20.20	20.23						
5	16QAM	1	0	20.29	20.16	20.13						
5	16QAM	1	14	20.18	20.25	20.14						
5	64QAM	1	24	20.13	20.19	20.12	21.8	0				
5	64QAM	12	0	19.17	19.31	19.25						
5	64QAM	12	7	19.18	19.13	19.13						
5	64QAM	12	13	19.18	19.18	19.13						
5	64QAM	25	0	19.26	19.19	19.28	21	0.8				
5	64QAM	15	0	17.21	17.32	17.19						
5	256QAM	1	12	17.21	17.12	17.12						
5	256QAM	1	24	17.20	17.17	17.02						
5	256QAM	12	0	17.23	17.17	17.22	19	2.8				
5	256QAM	12	12	17.27	17.14	17.15						
5	256QAM	12	13	17.23	17.13	17.15						
5	256QAM	25	0	17.17	17.06	17.05						
Channel												
Frequency (MHz)												
3	QPSK	1	0	19.51	19.66	19.63	21.8	0				
3	QPSK	1	8	20.80	20.62	20.57						
3	QPSK	1	8	20.49	20.65	20.51						
3	QPSK	1	24	20.87	20.63	20.61						
3	QPSK	8	0	20.58	20.60	20.57	21.8	0				
3	QPSK	8	8	20.63	20.61	20.49						
3	QPSK	8	8	20.60	20.68	20.50						
3	QPSK	16	0	20.56	20.67	20.60						
3	16QAM	1	0	20.61	20.67	20.54	21.8	0				
3	16QAM	1	8	20.51	20.66	20.59						
3	16QAM	1	14	20.63	20.57	20.52						
3	16QAM	8	0	20.21	20.36	20.17						
3	16QAM	8	8	20.12	20.35	20.19	21.8	0				
3	16QAM	8	7	20.19	20.21	20.03						
3	16QAM	16	0	20.25	20.22	20.13						
3	16QAM	1	0	20.28	20.12	20.14						
3	64QAM	1	8	20.07	20.21	20.06	21.8	0				
3	64QAM	1	16	20.18	20.13	20.05						
3	64QAM	8	4	19.18	19.16	19.11						
3	64QAM	8	13	19.13	19.13	19.15						
3	64QAM	15	0	19.23	19.21	19.29	21	0.8				
3	256QAM	1	0	17.22	17.28	17.16						
3	256QAM	1	16	17.15	17.17	17.03						
3	256QAM	1	14	17.17	17.20	17.00						
3	256QAM	8	0	17.17	17.20	17.12	19	2.8				
3	256QAM	8	8	17.23	17.13	17.15						
3	256QAM	8	7	17.10	17.13	17.12						
3	256QAM	15	0	17.07	17.05	17.07						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	20.58	20.65	20.48	21.8	0				
1.4	QPSK	1	8	20.87	20.63	20.54						
1.4	QPSK	1	8	20.58	20.49	20.44						
1.4	QPSK	3	0	20.61	20.67	20.53						
1.4	QPSK	3	0	20.58	20.65	20.50	21.8	0				
1.4	QPSK	3	3	20.82	20.44	20.39						
1.4	QPSK	3	3	20.59	20.63	20.51						
1.4	16QAM	1	0	20.87	20.63	20.52						
1.4	16QAM	1	3	20.56	20.57	20.44	21.8	0				
1.4	16QAM	1	5	20.59	20.65	20.52						
1.4	16QAM	3	0	20.61	20.67	20.54						
1.4	16QAM	3	3	20.28	20.37	20.15						
1.4	16QAM	1	0	20.24	20.28	20.14	21.8	0				
1.4	16QAM	1	3	20.07	20.19	20.11						
1.4	16QAM	1	3	20.26	20.19	20.24						
1.4	16QAM	3	3	19.19	19.23	19.18						
1.4	64QAM	6	0	19.20	19.19	19.30	21	0.8				
1.4	64QAM	6	3	17.15	17.23	17.15						
1.4	64QAM	1	0	17.19	17.13	17.11						
1.4	64QAM	1	3	17.18	17.15	17.06						
1.4	256QAM	3	3	17.20	17.12	17.09	19	2.8				
1.4	256QAM	3	3	17.16	17.12	17.09						
1.4	256QAM	3	3	17.14	17.12	17.03						
1.4	256Q											

Band 25 Ant 1 EC13											Band 66&other PA Ant 1 EC13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up time (secs)	MPR (dB)			BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up time (secs)	MPR (dB)		
Channel											Channel										
1800 1880 1900											1800 1880 1900										
20	QPSK	1	0	20.73	20.64	20.78	21.8	0			20	QPSK	1	0	21.45	21.05	21.48	22.2	0		
20	QPSK	1	49	20.64	20.75	20.87					20	QPSK	1	49	21.26	21.06	21.44				
20	QPSK	1	99	20.77	20.67	20.80					20	QPSK	1	99	21.45	21.05	21.43				
20	QPSK	50	0	20.74	20.73	20.71					20	QPSK	50	0	21.28	21.43	21.29				
20	QPSK	50	24	20.69	20.62	20.73	21.8	0			20	QPSK	50	24	21.29	21.46	21.30	22.2	0		
20	QPSK	50	50	20.68	20.67	20.66					20	QPSK	50	50	21.41	21.39	21.24				
20	QPSK	100	0	20.74	20.75	20.63					20	QPSK	100	0	21.27	21.33	21.27				
20	16QAM	1	0	20.79	20.76	20.83					20	16QAM	1	0	21.40	21.35	21.23				
20	16QAM	1	49	20.60	20.50	20.65	21.8	0			20	16QAM	1	49	21.29	21.28	21.21	22.2	0		
20	16QAM	1	99	20.60	20.76	20.68					20	16QAM	1	99	21.26	21.21	21.26				
20	16QAM	50	0	20.27	20.30	20.33					20	16QAM	50	0	21.29	21.37	21.23				
20	16QAM	50	24	20.25	20.25	20.31					20	16QAM	50	24	20.26	20.41	20.36				
20	16QAM	50	50	20.38	20.31	20.76	21.8	0			20	16QAM	50	50	20.34	20.31	20.26	22	0.2		
20	16QAM	100	0	20.35	20.31	20.34					20	16QAM	100	0	20.32	20.30	20.31				
20	64QAM	1	0	20.31	20.25	20.29					20	64QAM	1	0	20.19	20.29	20.22				
20	64QAM	1	49	20.27	20.28	20.19					20	64QAM	1	49	20.33	20.32	20.36				
20	64QAM	1	99	20.28	20.35	20.28	21	0.8			20	64QAM	1	99	20.26	20.38	20.26	21	1.2		
20	64QAM	50	0	19.31	19.27	19.30					20	64QAM	50	0	19.26	19.41	19.26				
20	64QAM	50	24	19.29	19.26	19.27					20	64QAM	50	24	19.27	19.36	19.26				
20	64QAM	100	0	19.28	19.30	19.17					20	64QAM	100	0	19.26	19.36	19.23				
20	64QAM	100	0	19.31	19.35	19.33	19	2.8			20	256QAM	1	0	19.30	19.37	19.31	19	3.2		
20	256QAM	1	0	17.27	17.41	17.23					20	256QAM	1	0	17.32	17.44	17.21				
20	256QAM	1	49	17.21	17.25	17.25					20	256QAM	1	49	17.46	17.41	17.31				
20	256QAM	1	99	17.22	17.30	17.13					20	256QAM	1	99	17.30	17.30	17.24				
20	256QAM	50	0	17.23	17.23	17.29	19	2.8			20	256QAM	50	0	17.23	17.38	17.31	19	3.2		
20	256QAM	50	24	17.33	17.32	17.28					20	256QAM	50	24	17.20	17.38	17.22				
20	256QAM	50	50	17.27	17.30	17.28					20	256QAM	50	50	17.34	17.40	17.31				
20	256QAM	100	0	17.19	17.18	17.19					20	256QAM	100	0	17.27	17.23	17.26				
Channel											Channel										
1807.5 1880 1907.5											1807.5 1880 1907.5										
15	QPSK	1	0	20.71	20.70	20.72	21.8	0			15	QPSK	1	0	21.15	21.68	21.75	22.2	0		
15	QPSK	1	37	20.69	20.70	20.67					15	QPSK	1	37	21.47	21.48	21.43				
15	QPSK	1	74	20.73	20.62	20.68					15	QPSK	1	74	21.41	21.46	21.42				
15	QPSK	36	0	20.68	20.68	20.68					15	QPSK	36	0	21.16	21.36	21.28				
15	QPSK	36	20	20.68	20.65	20.62	21.8	0			15	QPSK	36	20	21.38	21.31	21.27	22.2	0		
15	QPSK	36	39	20.58	20.50	20.48					15	QPSK	36	39	21.21	21.20	21.13				
15	QPSK	75	0	20.73	20.74	20.61					15	QPSK	75	0	21.16	21.33	21.16				
15	16QAM	1	0	20.73	20.62	20.53					15	16QAM	1	0	21.17	21.38	21.15				
15	16QAM	1	37	20.50	20.48	20.61	21.8	0			15	16QAM	1	37	20.20	21.30	21.27	22.2	0		
15	16QAM	1	74	17.27	17.41	17.29					15	16QAM	1	74	21.22	21.16	21.19				
15	16QAM	36	0	20.20	20.33	20.20					15	16QAM	36	0	20.44	20.41	20.17				
15	16QAM	36	20	20.16	20.24	20.24					15	16QAM	36	20	20.14	20.30	20.36				
15	16QAM	75	0	20.33	20.34	20.28	21.8	0			15	16QAM	75	0	20.23	20.31	20.22	22	0.2		
15	16QAM	75	25	20.38	20.17	20.11					15	16QAM	75	25	20.23	20.28	20.18				
15	64QAM	1	0	20.22	20.20	20.16					15	64QAM	1	0	20.09	20.28	20.13				
15	64QAM	1	37	20.15	20.20	20.16					15	64QAM	1	37	20.11	20.20	20.13				
15	64QAM	1	74	20.23	20.25	20.25	21	0.8			15	64QAM	1	74	20.20	20.20	20.21	21	6.2		
15	64QAM	36	0	19.18	19.30	19.26					15	64QAM	36	0	19.26	19.36	19.25				
15	64QAM	36	20	19.20	19.25	19.24					15	64QAM	36	20	19.24	19.28	19.23				
15	64QAM	36	39	19.22	19.05	19.05					15	64QAM	36	39	19.24	19.24	19.21				
15	64QAM	75	0	19.27	19.31	19.21	19	2.8			15	64QAM	75	0	19.26	19.33	19.24	19	3.2		
15	256QAM	1	37	17.20	17.11	17.13					15	256QAM	1	37	17.29	17.36	17.21				
15	256QAM	1	74	17.11	17.26	17.01					15	256QAM	1	74	17.30	17.20	17.15				
15	256QAM	36	0	17.22	17.26	17.21					15	256QAM	36	0	17.20	17.26	17.21				
15	256QAM	36	20	17.28	17.19	17.23	19	2.8			15	256QAM	36	20	17.18	17.23	17.16	19	3.2		
15	256QAM	36	39	17.16	17.28	17.15					15	256QAM	36	39	17.20	17.33	17.19				
15	256QAM	75	0	17.05	17.11	17.12					15	256QAM	75	0	17.08	17.21	17.07				
Channel											Channel										
18090 18090 18090											18090 18090 18090										
10	QPSK	1	0	20.73	20.70	20.78	21.8	0			10	QPSK	1	0	21.15	21.68	21.75	22.2	0		
10	QPSK	1	25	20.54	20.70	20.56					10	QPSK	1	25	21.42	21.44	21.48				
10	QPSK	1	49	20.72	20.58	20.57					10	QPSK	1	49	21.42	21.46	21.43				
10	QPSK	25	0	20.65	20.70	20.68					10	QPSK	25	0	21.28	21.35	21.28				
10	QPSK	25	13	20.66	20.60	20.67	21.8	0			10	QPSK	25	13	21.21	21.33	21.28	22.2	0		
10	QPSK	25	25	20.67	20.63	20.64					10	QPSK	25	25	21.24	21.26	21.21				
10	QPSK	50	0	20.73	20.72	20.64					10	QPSK	50	0	21.35	21.37	21.21				
10	16QAM	1	0	20.72	20.60	20.61					10	16QAM	1	0	21.10	21.26	21.21				
10	16QAM	1	25	20.58	20.47	20.63	21.8	0			10	16QAM	1	25	21.26	21.33	21.23	22.2	0		
10	16QAM	1	49	20.52	20.67	20.56					10	16QAM	1	49	21.21	21.21	21.14				
10	16QAM	25	0	20.21	20.30	20.28					10	16QAM	25	0	20.26	20.37	20.26				
10	16QAM	25	13	20.13	20.23	20.28					10	16QAM	25	13	20.23	20.36	20.38				
10	16QAM	50	0	20.22	20.32	20.28	21.8	0			10	16QAM	50	0	20.21	20.39	20.23	22	0.2		
10	16QAM	50	25	20.28	20.18	20.18					10	16QAM	50	25	20.07	20.21	20.09				
10	64QAM	1	0	20.15	20.15	20.08					10	64QAM	1	0	20.07	20.21	20.09				
10	64QAM	1	49	20.25	20.38	20.25					10	64QAM	1	49	20.23	20.18	20.21				
10	64QAM	25	0	19.18	19.24	19.27	21	0.8			10	64QAM	25	0	19.26	19.26	19.29	21	1.2		
10	64QAM	25	13	19.18	19.16	19.16					10	64QAM	25	13	19.22	19.34	19.26				
10	64QAM	25	25	19.14	19.10	19.13					10	64QAM	25	25	19.21	19.23	19.11				
10	64QAM	50	0	19.27	19.25	19.29					10	64QAM	50	0	19.27	19.34	19.27				
10	256QAM	1	49	17.13	17.20	17.11	19	2.8			10	256QAM	1	49	17.23	17.31	17.28	19	3.2		
10	256QAM	1	25	17.23	17.16	17.07					10	256QAM	1	25	17.26	17.28	17.21				
10	256QAM	1	49	17.11	17.25	17.01					10	256QAM	1	49	17.17	17.44	17.27				
10	256QAM	25	0	17.21	17.27	17.21					10	256QAM	25	0	17.18	17.35	17.29				
10	256QAM	25	12	17.26	17.28	17.21	19	2.8			10	256QAM	25	12	17.14	17.23	17.18	19	3.2		
10	256QAM	25	25	17.24	17.21	17.16					10	256QAM	25	25	17.28	17.27	17.22				



Band 2&other PA Ant 4 EC13												
BW [MHz]	Modulation	RIS Size	RIS Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turnup rate [dB]	MPR (dB)				
Channel												
Frequency [MHz]												
20	QPSK	1	0	16.80	16.75	16.81			17.7	0		
20	QPSK	1	8	16.81	16.77	16.83						
20	QPSK	1	99	16.49	16.96	16.43			17.7	0		
20	QPSK	50	0	16.56	16.87	16.65						
20	QPSK	50	24	16.50	16.80	16.51			17.7	0		
20	QPSK	50	50	16.47	16.93	16.54						
20	QPSK	100	0	16.52	16.84	16.61			17.7	0		
20	QPSK	100	50	16.58	16.84	16.60						
20	16QAM	1	49	16.42	16.96	16.34			17.7	0		
20	16QAM	1	99	16.42	16.82	16.41						
20	16QAM	50	0	16.59	16.94	16.61			17.7	0		
20	16QAM	50	24	16.51	16.92	16.53						
20	16QAM	50	50	16.49	16.96	16.51			17.7	0		
20	16QAM	100	0	16.59	16.94	16.44						
20	64QAM	1	0	16.46	16.94	16.47			17.7	0		
20	64QAM	1	49	16.52	16.92	16.46						
20	64QAM	50	0	16.50	16.98	16.50			17.7	0		
20	64QAM	50	24	16.54	16.96	16.46						
20	64QAM	50	50	16.59	16.94	16.50			17.7	0		
20	64QAM	100	0	16.61	16.92	16.51						
20	256QAM	1	49	16.41	16.25	16.21			17.7	0		
20	256QAM	1	99	16.28	16.39	16.27						
20	256QAM	50	24	16.40	16.34	16.29			17.7	0		
20	256QAM	50	50	16.16	16.26	16.19						
20	256QAM	100	0	16.20	16.23	16.20						
Channel												
Frequency [MHz]												
15	QPSK	1	0	16.36	16.83	16.33			17.7	0		
15	QPSK	1	37	16.44	16.85	16.34						
15	QPSK	1	74	16.41	16.46	16.34			17.7	0		
15	QPSK	36	0	16.31	16.80	16.40						
15	QPSK	36	36	16.40	16.90	16.39			17.7	0		
15	QPSK	36	99	16.46	16.44	16.53						
15	QPSK	75	0	16.37	16.83	16.35			17.7	0		
15	QPSK	75	0	16.44	16.85	16.38						
15	16QAM	1	37	16.37	16.93	16.23			17.7	0		
15	16QAM	1	99	16.39	16.80	16.35						
15	16QAM	36	0	16.56	16.82	16.54			17.7	0		
15	16QAM	36	20	16.44	16.52	16.32						
15	16QAM	36	99	16.53	16.89	16.35			17.7	0		
15	16QAM	75	0	16.55	16.46	16.36						
15	64QAM	1	0	16.40	16.84	16.38			17.7	0		
15	64QAM	1	49	16.44	16.80	16.37						
15	64QAM	1	74	16.45	16.47	16.32			17.7	0		
15	64QAM	36	0	16.44	16.52	16.35						
15	64QAM	36	20	16.52	16.41	16.41			17.7	0		
15	64QAM	36	99	16.45	16.53	16.45						
15	64QAM	75	0	16.55	16.51	16.42			17.7	0		
15	64QAM	75	0	16.53	16.58	16.48						
15	256QAM	1	37	16.33	16.16	16.20			17.7	0		
15	256QAM	1	74	16.22	16.33	16.14						
15	256QAM	36	17	16.33	16.34	16.36			17.7	0		
15	256QAM	36	20	16.38	16.27	16.21						
15	256QAM	36	99	16.11	16.20	16.10			17.7	0		
15	256QAM	75	0	16.12	16.11	16.12						
Channel												
Frequency [MHz]												
10	QPSK	1	0	16.00	16.00	16.00			17.7	0		
10	QPSK	1	25	16.48	16.46	16.51						
10	QPSK	1	49	16.42	16.49	16.40			17.7	0		
10	QPSK	25	0	16.48	16.47	16.49						
10	QPSK	25	12	16.44	16.52	16.46			17.7	0		
10	QPSK	25	25	16.37	16.51	16.42						
10	QPSK	25	49	16.42	16.47	16.53			17.7	0		
10	16QAM	1	0	16.53	16.44	16.58						
10	16QAM	1	25	16.39	16.59	16.27			17.7	0		
10	16QAM	1	49	16.48	16.41	16.31						
10	16QAM	25	0	16.51	16.60	16.54			17.7	0		
10	16QAM	25	12	16.45	16.53	16.43						
10	16QAM	25	25	16.47	16.50	16.48			17.7	0		
10	16QAM	25	49	16.58	16.49	16.40						
10	64QAM	1	0	16.42	16.64	16.37			17.7	0		
10	64QAM	1	49	16.48	16.49	16.38						
10	64QAM	1	49	16.48	16.41	16.31			17.7	0		
10	64QAM	25	0	16.42	16.57	16.60						
10	64QAM	25	12	16.44	16.26	16.44			17.7	0		
10	64QAM	25	25	16.47	16.50	16.48						
10	64QAM	50	0	16.51	16.60	16.51			17.7	0		
10	64QAM	50	12	16.30	16.20	16.17						
10	256QAM	1	49	16.16	16.20	16.15			17.7	0		
10	256QAM	25	25	16.10	16.20	16.19						
10	256QAM	50	0	16.10	16.20	16.16						
Channel												
Frequency [MHz]												
5	QPSK	1	0	16.00	16.00	16.00			17.7	0		
5	QPSK	1	12	16.42	16.47	16.46						
5	QPSK	1	24	16.37	16.45	16.38			17.7	0		
5	QPSK	12	0	16.48	16.47	16.54						
5	QPSK	12	7	16.41	16.58	16.39			17.7	0		
5	QPSK	12	13	16.35	16.45	16.42						
5	QPSK	12	25	16.53	16.44	16.40			17.7	0		
5	16QAM	1	0	16.53	16.48	16.56						
5	16QAM	1	12	16.34	16.60	16.30			17.7	0		
5	16QAM	1	24	16.45	16.43	16.34						
5	16QAM	12	0	16.43	16.65	16.37			17.7	0		
5	16QAM	12	7	16.41	16.68	16.34						
5	16QAM	12	13	16.31	16.53	16.41			17.7	0		
5	16QAM	12	25	16.54	16.47	16.33						
5	16QAM	25	0	16.44	16.47	16.33			17.7	0		
5	16QAM	25	7	16.47	16.41	16.40						
5	64QAM	1	24	16.48	16.41	16.31			17.7	0		
5	64QAM	12	0	16.47	16.44	16.38						
5	64QAM	12	7	16.51	16.58	16.47			17.7	0		
5	64QAM	12	13	16.45	16.51	16.49						
5	64QAM	25	0	16.50	16.51	16.49			17.7	0		
5	64QAM	25	13	16.33	16.20	16.34						
5	256QAM	1	12	16.33	16.13	16.10			17.7	0		
5	256QAM	1	24	16.23	16.16	16.22						
5	256QAM	12	13	16.30	16.29	16.38			17.7	0		
5	256QAM	12	7	16.31	16.29	16.24						
5	256QAM	12	13	16.12	16.16	16.10			17.7	0		
5	256QAM	25	0	16.16	16.17	16.24						
Channel												
Frequency [MHz]												
3	QPSK	1	0	16.57	16.57	16.58			17.7	0		
3	QPSK	1	8	16.50	16.67	16.53						
3	QPSK	1	14	16.44	16.66	16.46			17.7	0		
3	QPSK	8	4	16.45	16.67	16.41						
3	QPSK	8	7	16.40	16.51	16.53			17.7	0		
3	QPSK	15	0	16.58	16.52	16.51						
3	16QAM	1	0	16.52	16.62	16.55			17.7	0		
3	16QAM	1	8	16.33	16.56	16.25						
3	16QAM	1	14	16.34	16.58	16.39			17.7	0		
3	16QAM	8	4	16.46	16.60	16.31						
3	16QAM	8	7	16.41	16.50	16.49			17.7	0		
3	16QAM	15	0	16.58	16.43	16.34						
3	16QAM	15	8	16.52	16.44	16.43			17.7	0		
3	16QAM	15	14	16.30	16.55	16.34						
3	64QAM	1	0	16.43	16.56	16.39			17.7	0		
3	64QAM	1	8	16.49	16.54	16.36						
3	64QAM	1	14	16.46	16.49	16.35			17.7	0		
3	64QAM	8	4	16.43	16.56	16.39						
3	64QAM	8	7	16.40	16.46	16.44			17.7	0		
3	64QAM	15	0	16.58	16.52	16.50						
3	64QAM	15	8	16.52	16.47	16.46			17.7	0		
3	64QAM	15	14	16.28	16.37	16.19						
3	256QAM	1	0	16.23	16.29	16.26			17.7	0		
3	256QAM	1	8	16.20	16.26	16.23						
3	256QAM	8	7	16.21	16.18	16.20			17.7	0		
3	256QAM	15	0	16.18	16.17	16.16						
Channel												
Frequency [MHz]												
1.4	QPSK	1	0	16.63	16.64	16.68			17.7	0		
1.4	QPSK	1	8	16.64	16.63	16.66						
1.4	QPSK	1	14	16.44	16.66	16.46			17.7	0		
1.4	QPSK	14	0	16.43	16.53	16.42						
1.4	QPSK	3	4	16.54	16.66	16.62			17.7	0		
1.4	QPSK	3	7	16.48	16.58	16.49						
1.4	QPSK	3	13	16.45	16.45	16.45			17.7	0		
1.4	QPSK	3	15	16.55	16.67	16.56						
1.4	16QAM	1	0	16.60	16.51	16.62			17.7	0		
1.4	16QAM	1	3	16.39	16.59	16.39						
1.4	16QAM	1	4	16.35	16.59	16.37			17.7	0		
1.4	16QAM	3	0	16.54	16.56	16.56						
1.4	16QAM	3	1	16.44	16.56	16.44			17.7	0		
1.4	16QAM	3	3	16.32	16.51	16.41						
1.4	16QAM	3	7	16.40	16.47	16.47			17.7	0		
1.4	16QAM	3	15	16.44	16.52	16.58						
1.4	16QAM	3	15	16.42	16.58	16.46						

Band 12 Ant 4 EC13														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turnup time (secs)	MPE (dB)						
Channel														
Frequency (MHz)														
10	QPSK	1	0	22.47	22.43	22.48	24	0						
10	QPSK	1	25	22.44	22.48	22.44								
10	QPSK	1	49	22.44	22.43	22.44								
10	QPSK	25	0	21.45	21.50	21.45								
10	QPSK	25	12	21.38	21.48	21.43	23	1						
10	QPSK	25	25	21.40	21.42	21.48								
10	QPSK	50	0	21.46	21.46	21.43								
10	16QAM	1	0	21.45	21.45	21.46								
10	16QAM	1	25	21.28	21.46	21.35	23	1						
10	16QAM	1	49	21.40	21.37	21.38								
10	16QAM	25	0	20.49	20.44	20.49								
10	16QAM	25	12	20.34	20.52	20.37								
10	16QAM	25	25	20.46	20.36	20.46	22	2						
10	16QAM	50	0	20.44	20.27	20.37								
10	64QAM	1	0	20.47	20.45	20.48								
10	64QAM	1	25	20.31	20.41	20.32								
10	64QAM	1	49	20.44	20.37	20.43	22	2						
10	64QAM	25	0	19.48	19.55	19.41								
10	64QAM	25	12	19.35	19.46	19.45								
10	64QAM	25	25	19.38	19.43	19.32								
10	64QAM	50	0	19.47	19.50	19.39	21	3						
10	256QAM	1	0	17.46	17.47	17.46								
10	256QAM	1	25	17.43	17.45	17.46								
10	256QAM	1	49	17.40	17.40	17.42								
10	256QAM	25	0	17.36	17.45	17.43	19	5						
10	256QAM	25	12	17.47	17.47	17.49								
10	256QAM	25	25	17.24	17.47	17.35								
10	256QAM	50	0	17.20	17.31	17.30								
Channel														
Frequency (MHz)														
5	QPSK	1	0	22.38	22.45	22.40	24	0						
5	QPSK	1	12	22.36	22.46	22.37								
5	QPSK	1	24	22.36	22.42	22.42								
5	QPSK	12	0	21.39	21.47	21.43								
5	QPSK	12	7	21.29	21.45	21.40	23	1						
5	QPSK	12	13	21.31	21.43	21.38								
5	QPSK	25	0	21.45	21.39	21.41								
5	16QAM	1	0	21.40	21.35	21.45								
5	16QAM	1	12	21.22	21.35	21.34	23	1						
5	16QAM	1	24	21.31	21.32	21.36								
5	16QAM	12	0	20.47	20.36	20.42								
5	16QAM	12	7	20.24	20.49	20.29								
5	16QAM	12	13	19.40	19.51	19.43	22	2						
5	16QAM	25	0	20.40	20.39	20.35								
5	64QAM	1	0	20.38	20.42	20.49								
5	64QAM	1	12	19.33	19.38	19.34								
5	64QAM	1	24	20.40	20.35	20.35	21	3						
5	64QAM	12	0	19.45	19.46	19.32								
5	64QAM	12	7	19.40	19.51	19.44								
5	64QAM	12	13	19.38	19.35	19.43								
5	64QAM	25	0	19.38	19.48	19.31	19	5						
5	256QAM	1	0	17.37	17.43	17.31								
5	256QAM	1	12	17.34	17.41	17.40								
5	256QAM	1	24	17.40	17.32	17.36								
5	256QAM	12	0	17.44	17.50	17.33	19	5						
5	256QAM	12	7	17.40	17.41	17.42								
5	256QAM	12	13	17.13	17.38	17.36								
5	256QAM	25	0	17.33	17.38	17.34								
Channel														
Frequency (MHz)														
3	QPSK	1	0	22.43	22.48	22.42	24	0						
3	QPSK	1	8	22.37	22.35	22.39								
3	QPSK	1	14	22.37	22.41	22.34								
3	QPSK	8	0	21.37	21.59	21.44								
3	QPSK	8	4	21.33	21.39	21.41	23	1						
3	QPSK	8	7	21.31	21.38	21.38								
3	16QAM	1	0	21.43	21.45	21.44								
3	16QAM	1	0	21.35	21.40	21.40								
3	16QAM	1	8	21.28	21.42	21.25	22	2						
3	16QAM	8	0	20.49	20.41	20.49								
3	16QAM	8	4	20.26	20.43	20.34								
3	16QAM	8	7	20.43	20.36	20.46								
3	64QAM	1	0	20.39	20.46	20.29	21	3						
3	64QAM	1	0	20.45	20.40	20.39								
3	64QAM	1	8	20.32	20.38	20.33								
3	64QAM	1	14	20.35	20.29	20.42								
3	64QAM	8	0	19.47	19.45	19.36	19	5						
3	64QAM	8	4	19.20	19.36	19.36								
3	64QAM	8	7	19.38	19.43	19.41								
3	64QAM	15	0	19.36	19.39	19.34								
3	256QAM	1	0	17.47	17.32	17.33	19	5						
3	256QAM	1	8	17.33	17.39	17.42								
3	256QAM	1	14	17.41	17.35	17.40								
3	256QAM	8	0	17.40	17.45	17.36								
3	256QAM	8	4	17.47	17.38	17.38	19	5						
3	256QAM	8	7	17.17	17.45	17.29								
3	256QAM	15	0	17.26	17.33	17.36								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	22.41	22.44	22.39	24	0						
1.4	QPSK	1	3	22.35	22.36	22.38								
1.4	QPSK	1	5	22.41	22.40	22.45								
1.4	QPSK	3	0	22.35	22.36	22.33								
1.4	QPSK	3	1	22.28	22.33	22.30	23	1						
1.4	QPSK	3	3	22.31	22.41	22.35								
1.4	QPSK	8	0	21.37	21.39	21.37								
1.4	16QAM	1	0	21.35	21.38	21.43								
1.4	16QAM	1	3	21.19	21.40	21.32	23	1						
1.4	16QAM	1	5	21.40	21.27	21.27								
1.4	16QAM	3	0	21.28	21.34	21.29								
1.4	16QAM	3	1	21.24	21.28	21.36								
1.4	16QAM	10	3	21.10	21.36	21.26	22	2						
1.4	16QAM	6	0	20.42	20.46	20.32								
1.4	64QAM	1	0	20.44	20.42	20.40								
1.4	64QAM	1	3	20.29	20.37	20.29								
1.4	64QAM	1	5	20.33	20.35	20.36	22	2						
1.4	64QAM	3	0	20.37	20.44	20.27								
1.4	64QAM	3	1	20.42	20.40	20.40								
1.4	64QAM	3	3	20.23	20.35	20.26								
1.4	64QAM	6	0	19.44	19.50	19.31	21	3						
1.4	256QAM	1	0	17.40	17.44	17.41								
1.4	256QAM	1	3	17.34	17.37	17.39								
1.4	256QAM	1	5	17.40	17.37	17.37								
1.4	256QAM	3	0	17.50	17.40	17.42	19	5						
1.4	256QAM	3	1	17.37	17.40	17.40								
1.4	256QAM	3	3	17.25	17.36	17.35								
1.4	256QAM	6	0	17.36	17.37	17.36								



Band 25 Ant 4 EC13												
BW (MHz)	Modulation	RIS Size	RF Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turnup Init. (dB)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	16.67	16.70	16.71			17.7	0		
20	QPSK	1	49	16.65	16.69	16.66						
20	QPSK	1	99	16.65	16.69	16.66			17.7	0		
20	QPSK	50	0	16.62	16.77	16.64						
20	QPSK	50	24	16.57	16.72	16.61			17.7	0		
20	QPSK	50	50	16.62	16.64	16.83						
20	QPSK	100	0	16.63	16.70	16.85			17.7	0		
20	QPSK	100	0	16.57	16.69	16.89						
20	16QAM	1	49	16.54	16.63	16.81			17.7	0		
20	16QAM	1	99	16.40	16.53	16.43						
20	16QAM	50	0	16.63	16.70	16.88			17.7	0		
20	16QAM	50	24	16.62	16.69	16.46						
20	16QAM	100	0	16.48	16.64	16.49			17.7	0		
20	16QAM	1	49	16.56	16.52	16.59						
20	16QAM	50	99	16.56	16.61	16.64			17.7	0		
20	16QAM	50	0	16.59	16.60	16.59						
20	16QAM	50	24	16.55	16.58	16.56			17.7	0		
20	16QAM	50	50	16.46	16.66	16.61						
20	16QAM	100	0	16.63	16.72	16.67			17.7	0		
20	16QAM	100	0	16.45	16.45	16.33						
20	256QAM	1	49	16.45	16.45	16.33			17.7	0		
20	256QAM	1	99	16.39	16.43	16.33						
20	256QAM	50	0	16.45	16.42	16.47			17.7	0		
20	256QAM	50	24	16.47	16.42	16.43						
20	256QAM	50	50	16.26	16.39	16.32			17.7	0		
20	256QAM	100	0	16.37	16.39	16.32						
Channel												
Frequency (MHz)												
18	QPSK	1	0	16.67	16.70	16.71			17.7	0		
18	QPSK	1	37	16.64	16.73	16.81						
18	QPSK	1	74	16.59	16.72	16.71			17.7	0		
18	QPSK	36	0	16.61	16.65	16.57						
18	QPSK	36	25	16.52	16.66	16.66			17.7	0		
18	QPSK	36	39	16.55	16.53	16.43						
18	QPSK	75	0	16.61	16.69	16.63			17.7	0		
18	16QAM	1	0	16.48	16.63	16.58						
18	16QAM	1	37	16.53	16.60	16.59			17.7	0		
18	16QAM	1	74	16.39	16.54	16.43						
18	16QAM	36	0	16.62	16.60	16.64			17.7	0		
18	16QAM	36	20	16.56	16.61	16.49						
18	16QAM	36	39	16.55	16.58	16.59			17.7	0		
18	16QAM	75	0	16.55	16.58	16.59						
18	16QAM	1	0	16.40	16.58	16.45			17.7	0		
18	16QAM	1	37	16.39	16.52	16.42						
18	16QAM	1	74	16.53	16.55	16.34			17.7	0		
18	16QAM	36	0	16.57	16.64	16.58						
18	16QAM	36	20	16.51	16.56	16.49			17.7	0		
18	16QAM	36	39	16.55	16.70	16.59						
18	16QAM	75	0	16.51	16.63	16.64			17.7	0		
18	16QAM	1	0	16.36	16.52	16.36						
18	256QAM	1	37	16.46	16.38	16.30			17.7	0		
18	256QAM	1	74	16.32	16.43	16.31						
18	256QAM	50	0	16.47	16.42	16.41			17.7	0		
18	256QAM	50	24	16.42	16.41	16.40						
18	256QAM	36	39	16.19	16.38	16.23			17.7	0		
18	256QAM	75	0	16.34	16.34	16.29						
Channel												
Frequency (MHz)												
20000	QPSK	1	0	16.55	16.60	16.70			17.7	0		
20000	QPSK	1	25	16.60	16.63	16.65						
20000	QPSK	1	49	16.58	16.74	16.64			17.7	0		
20000	QPSK	1	99	16.58	16.74	16.64						
20000	QPSK	25	12	16.56	16.63	16.42			17.7	0		
20000	QPSK	25	25	16.60	16.43	16.45						
20000	QPSK	25	39	16.60	16.43	16.45			17.7	0		
20000	QPSK	75	0	16.47	16.66	16.60						
20000	16QAM	1	0	16.47	16.66	16.60			17.7	0		
20000	16QAM	1	26	16.46	16.60	16.48						
20000	16QAM	1	49	16.31	16.52	16.31			17.7	0		
20000	16QAM	25	0	16.54	16.63	16.61						
20000	16QAM	25	12	16.62	16.64	16.46			17.7	0		
20000	16QAM	25	12	16.54	16.58	16.46						
20000	16QAM	50	0	16.61	16.62	16.39			17.7	0		
20000	16QAM	1	0	16.37	16.56	16.42						
20000	16QAM	1	24	16.53	16.52	16.36			17.7	0		
20000	16QAM	1	49	16.53	16.53	16.39						
20000	16QAM	25	0	16.53	16.56	16.46			17.7	0		
20000	16QAM	25	12	16.43	16.57	16.56						
20000	16QAM	25	25	16.54	16.67	16.56			17.7	0		
20000	16QAM	50	0	16.52	16.66	16.67						
20000	256QAM	1	49	16.39	16.47	16.36			17.7	0		
20000	256QAM	1	26	16.53	16.34	16.25						
20000	256QAM	1	49	16.34	16.42	16.27			17.7	0		
20000	256QAM	25	0	16.39	16.42	16.31						
20000	256QAM	25	12	16.49	16.33	16.36			17.7	0		
20000	256QAM	25	25	16.26	16.40	16.29						
20000	256QAM	50	0	16.31	16.27	16.36			17.7	0		
20000	256QAM	50	0	16.31	16.27	16.36						
Channel												
Frequency (MHz)												
20000	QPSK	1	0	16.55	16.60	16.70			17.7	0		
20000	QPSK	1	12	16.59	16.66	16.57						
20000	QPSK	1	24	16.55	16.66	16.70			17.7	0		
20000	QPSK	12	0	16.51	16.67	16.67						
20000	QPSK	12	7	16.49	16.66	16.43			17.7	0		
20000	QPSK	12	13	16.56	16.50	16.49						
20000	QPSK	26	16.1	16.48	16.67	16.57			17.7	0		
20000	16QAM	1	0	16.47	16.63	16.59						
20000	16QAM	1	12	16.44	16.52	16.41			17.7	0		
20000	16QAM	1	24	16.35	16.54	16.36						
20000	16QAM	12	0	16.53	16.66	16.66			17.7	0		
20000	16QAM	12	7	16.54	16.65	16.38						
20000	16QAM	12	13	16.39	16.45	16.33			17.7	0		
20000	16QAM	25	0	16.60	16.67	16.40						
20000	16QAM	1	0	16.47	16.62	16.39			17.7	0		
20000	16QAM	1	12	16.48	16.42	16.39						
20000	16QAM	1	24	16.51	16.49	16.32			17.7	0		
20000	16QAM	12	0	16.48	16.53	16.48						
20000	16QAM	12	7	16.54	16.63	16.38			17.7	0		
20000	16QAM	12	13	16.39	16.45	16.33						
20000	16QAM	25	0	16.60	16.67	16.40			17.7	0		
20000	16QAM	1	0	16.47	16.62	16.39						
20000	16QAM	1	12	16.48	16.42	16.39			17.7	0		
20000	16QAM	1	24	16.51	16.49	16.32						
20000	16QAM	12	0	16.48	16.53	16.48			17.7	0		
20000	16QAM	12	7	16.54	16.63	16.38						
20000	16QAM	12	13	16.39	16.45	16.33			17.7	0		
20000	16QAM	25	0	16.60	16.67	16.40						
20000	16QAM	1	0	16.47	16.62	16.39			17.7	0		
20000	16QAM	1	12	16.48	16.42	16.39						
20000	16QAM	1	24	16.51	16.49	16.32			17.7	0		
20000	16QAM	12	0	16.48	16.53	16.48						
20000	16QAM	12	7	16.54	16.63	16.38			17.7	0		
20000	16QAM	12	13	16.39	16.45	16.33						
20000	16QAM	25	0	16.60	16.67	16.40			17.7	0		
20000	16QAM	1	0	16.47	16.62	16.39						
20000	16QAM	1	12	16.48	16.42	16.39			17.7	0		
20000	16QAM	1	24	16.51	16.49	16.32						
20000	16QAM	12	0	16.48	16.53	16.48			17.7	0		
20000	16QAM	12	7	16.54	16.63	16.38						
20000	16QAM	12	13	16.39	16.45	16.33			17.7	0		
20000	16QAM	25	0	16.60	16.67	16.40						
20000	16QAM	1	0	16.47	16.62	16.39			17.7	0		
20000	16QAM	1	12	16.48	16.42	16.39						
20000	16QAM	1	24	16.51	16.49	16.32			17.7	0		
20000	16QAM	12	0	16.48	16.53	16.48						
20000	16QAM	12	7	16.54	16.63	16.38			17.7	0		
20000	16QAM	12	13	16.39	16.45	16.33						
20000	16QAM	25	0	16.60	16.67	16.40			17.7	0		
20000	16QAM	1	0	16.47	16.62	16.39						
20000	16QAM	1	12	16.48	16.42	16.39			17.7	0		
20000	16QAM	1	24	16.51	16.49	16.32						
20000	16QAM	12	0	16.48	16.53	16.48			17.7	0		
20000	16QAM	12	7	16.54	16.63	16.38						
20000	16QAM	12	13	16.39	16.45	16.33			17.7	0		
20000	16QAM	25	0	16.60	16.67	16.40						
20000	16QAM	1	0	16.47	16.62	16.39			17.7	0		
20000	16QAM	1	12	16.48	16.42	16.39						
20000	16QAM	1	24	16.51	16.49	16.32			17.7	0		
20000	16QAM	12	0	16.48	16.53	16.48						
20000	16QAM	12	7	16.54	16.63	16.38			17.7	0		
20000	16QAM	12	13									



Band 38&other PA Ant 1 EC13										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				37965	38050	38160				
20	QPSK	1	0	21.44	21.52	21.50	22.8	0		
20	QPSK	1	48	21.36	21.45	21.40				
20	QPSK	1	96	21.35	21.31	21.30				
20	QPSK	50	0	21.38	21.45	21.35				
20	QPSK	50	24	21.38	21.41	21.36	22.8	0		
20	QPSK	50	48	21.31	21.37	21.31				
20	16QAM	1	0	21.25	21.28	21.28				
20	16QAM	1	48	21.31	21.37	21.31	22.8	0		
20	16QAM	1	96	21.20	21.35	21.20				
20	16QAM	50	24	20.48	20.60	20.58				
20	16QAM	50	48	20.58	20.61	20.46				
20	16QAM	50	50	20.69	20.65	20.55	22	0.8		
20	16QAM	100	0	20.69	20.58	20.63				
20	16QAM	1	0	20.55	20.55	20.55				
20	16QAM	1	48	20.52	20.58	20.58				
20	16QAM	1	96	20.47	20.53	20.53	22	0.8		
20	16QAM	50	0	19.52	19.53	19.57				
20	16QAM	50	24	19.52	19.55	19.55				
20	16QAM	50	50	19.57	19.54	19.55				
20	16QAM	100	0	19.48	19.72	19.48	21	1.8		
20	25QAM	1	0	17.53	17.59	17.60				
20	25QAM	1	48	17.55	17.55	17.55				
20	25QAM	1	96	17.56	17.64	17.55				
20	25QAM	36	0	17.57	17.67	17.55	19	3.8		
20	25QAM	36	20	17.43	17.51	17.44				
20	25QAM	50	24	17.52	17.47	17.52				
20	25QAM	50	50	17.52	17.47	17.52				
Channel				37925	38050	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				37925	38050	38175				
15	QPSK	1	0	21.31	21.42	21.32	22.8	0		
15	QPSK	1	37	21.31	21.32	21.34				
15	QPSK	1	74	21.29	21.23	21.29				
15	QPSK	36	0	21.29	21.44	21.29				
15	QPSK	36	20	21.31	21.29	21.26	22.8	0		
15	QPSK	36	36	21.25	21.31	21.31				
15	QPSK	75	0	21.25	21.33	21.19				
15	16QAM	1	0	21.16	21.23	21.23	22.8	0		
15	16QAM	1	37	21.27	21.24	21.23				
15	16QAM	1	74	21.18	21.24	21.18				
15	16QAM	36	0	20.39	20.59	20.46				
15	16QAM	36	20	20.52	20.52	20.52	22	0.8		
15	16QAM	36	36	20.63	20.53	20.51				
15	16QAM	75	0	20.54	20.43	20.59				
15	16QAM	75	0	19.47	19.57	19.47				
15	16QAM	1	37	20.58	20.52	20.30	22	0.8		
15	16QAM	1	74	20.43	20.42	20.29				
15	16QAM	36	0	19.47	19.57	19.47				
15	16QAM	36	20	19.51	19.47	19.47				
15	16QAM	75	0	19.45	19.70	19.45	19	3.8		
15	25QAM	1	0	17.42	17.49	17.56				
15	25QAM	1	37	17.51	17.43	17.43				
15	25QAM	1	74	17.51	17.53	17.52				
15	25QAM	36	0	17.50	17.58	17.46	19	3.8		
15	25QAM	36	20	17.43	17.45	17.45				
15	25QAM	36	36	17.39	17.44	17.41				
15	25QAM	75	0	17.36	17.49	17.41				
Channel										
Frequency (MHz)				37960 <th>38050</th> <th>38050<th>Tune-up limit (dBm)</th><th>MPR (dB)</th><td colspan="2"></td></th>	38050	38050 <th>Tune-up limit (dBm)</th> <th>MPR (dB)</th> <td colspan="2"></td>	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	0	21.23	21.24	21.23	22.8	0		
10	QPSK	1	25	21.23	21.28	21.28				
10	QPSK	1	48	21.27	21.25	21.25				
10	QPSK	25	0	21.23	21.23	21.23				
10	QPSK	25	12	21.35	21.34	21.31	22.8	0		
10	QPSK	25	25	21.29	21.33	21.28				
10	HQAM	1	0	21.23	21.23	21.23				
10	HQAM	1	25	21.21	21.15	21.12				
10	HQAM	1	48	21.12	21.33	21.09	22.8	0		
10	HQAM	25	0	20.37	20.60	20.53				
10	HQAM	25	12	20.43	20.42	20.40				
10	HQAM	25	25	20.58	20.50	20.45				
10	HQAM	50	0	20.46	20.44	20.59	22	0.8		
10	HQAM	50	25	20.46	20.46	20.46				
10	HQAM	1	0	20.32	20.46	20.41				
10	HQAM	1	25	20.47	20.49	20.34				
10	HQAM	1	48	20.37	20.48	20.35	22	0.8		
10	HQAM	25	0	19.41	19.54	19.47				
10	HQAM	25	12	19.39	19.48	19.46				
10	HQAM	25	25	19.51	19.47	19.55				
10	HQAM	50	0	19.35	19.68	19.41	21	1.8		
10	25QAM	1	0	17.44	17.45	17.50				
10	25QAM	1	48	17.43	17.55	17.43				
10	25QAM	1	96	17.43	17.55	17.52				
10	25QAM	25	0	17.45	17.55	17.52	19	3.8		
10	25QAM	25	12	17.43	17.47	17.46				
10	25QAM	25	25	17.49	17.42	17.47				
10	25QAM	50	0	17.34	17.43	17.47				
Channel										
Frequency (MHz)				37975 <th>38050</th> <th>38025<th>Tune-up limit (dBm)</th><th>MPR (dB)</th><td colspan="2"></td></th>	38050	38025 <th>Tune-up limit (dBm)</th> <th>MPR (dB)</th> <td colspan="2"></td>	Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	0	21.30	21.43	21.25	22.8	0		
5	QPSK	1	12	21.31	21.40	21.30				
5	QPSK	1	24	21.32	21.39	21.31				
5	QPSK	12	0	21.31	21.33	21.39				
5	QPSK	12	7	21.33	21.32	21.31	22.8	0		
5	QPSK	12	13	21.23	21.22	21.31				
5	QPSK	25	0	21.19	21.25	21.25				
5	HQAM	1	0	21.19	21.25	21.25				
5	HQAM	1	12	21.23	21.24	21.19	22.8	0		
5	HQAM	1	24	21.07	21.24	21.09				
5	HQAM	12	0	20.45	20.44	20.45				
5	HQAM	12	7	20.50	20.42	20.37				
5	HQAM	12	13	20.60	20.58	20.53	22	0.8		
5	HQAM	25	0	20.53	20.53	20.58				
5	HQAM	25	1	20.33	20.46	20.39				
5	HQAM	12	7	20.47	20.53	20.27				
5	HQAM	1	24	20.40	20.49	20.21	22	0.8		
5	HQAM	12	0	19.58	19.52	19.37				
5	HQAM	12	7	19.60	19.49	19.45				
5	HQAM	12	13	19.50	19.46	19.45				
5	HQAM	1	0	17.51	17.48	17.55	19	3.8		
5	25QAM	1	12	17.49	17.47	17.50				
5	25QAM	1	24	17.48	17.54	17.50				
5	25QAM	12	0	17.51	17.60	17.60				
5	25QAM	12	7	17.41	17.49	17.41	19	3.8		
5	25QAM	12	13	17.42	17.43	17.41				
5	25QAM	25	0	17.47	17.57	17.54				
5	25QAM	25	13	17.47	17.40	17.47				



Band 42 FCC Part27Q Ant 3 ECi3												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (min)	MPR (dB)				
Channel				42190	42290	42390						
Frequency (MHz)				3479	3490	3499						
20	QPSK	1	0	18.32	18.37	18.35	19.6	0				
20	QPSK	1	48	18.23	18.31	18.26						
20	QPSK	1	96	18.26	18.27	18.17						
20	QPSK	50	0	18.32	18.35	18.34						
20	QPSK	50	24	18.23	18.38	18.25	19.6	0				
20	QPSK	50	50	18.31	18.22	18.17						
20	QPSK	100	0	18.30	18.32	18.31						
20	HQAM	1	0	18.21	18.26	18.23						
20	HQAM	1	48	18.17	18.25	18.24	19.6	0				
20	HQAM	1	96	18.31	18.19	18.14						
20	HQAM	50	0	18.32	18.35	18.29						
20	HQAM	50	24	18.20	18.31	18.22						
20	HQAM	50	50	18.35	18.26	18.09	19.6	0				
20	HQAM	100	0	18.26	18.24	18.25						
20	HQAM	1	0	18.17	18.25	18.25						
20	HQAM	1	48	18.18	18.27	18.23						
20	HQAM	1	96	18.31	18.23	18.19	19.6	0				
20	HQAM	50	0	18.33	18.35	18.34						
20	HQAM	50	24	18.20	18.31	18.22						
20	HQAM	50	50	18.34	18.27	18.19						
20	HQAM	100	0	18.30	18.38	18.35	19	0.6				
20	256QAM	1	0	17.35	17.39	17.33						
20	256QAM	1	48	17.27	17.24	17.28						
20	256QAM	1	96	17.27	17.27	17.17						
20	256QAM	50	0	17.28	17.34	17.28	19	0.6				
20	256QAM	50	24	17.25	17.34	17.29						
20	256QAM	50	50	17.17	17.23	17.28						
20	256QAM	100	0	17.31	17.29	17.14						
Channel				42195	42290	42395	Turn-up time (min)	MPR (dB)				
Frequency (MHz)				3479.5	3490	3492.5						
15	QPSK	1	0	18.21	18.35	18.30	19.6	0				
15	QPSK	1	37	18.23	18.28	18.17						
15	QPSK	1	74	18.25	18.25	18.14						
15	QPSK	36	0	18.27	18.34	18.31						
15	QPSK	36	20	18.12	18.22	18.25	19.6	0				
15	QPSK	36	39	18.30	18.18	18.12						
15	QPSK	75	0	18.22	18.23	18.24						
15	HQAM	1	0	18.18	18.18	18.15						
15	HQAM	1	37	18.11	18.23	18.21	19.6	0				
15	HQAM	1	74	18.24	18.10	18.14						
15	HQAM	36	0	18.28	18.35	18.24						
15	HQAM	36	20	18.14	18.29	18.15						
15	HQAM	36	39	18.23	18.12	18.11	19.6	0				
15	HQAM	75	0	18.35	18.25	18.25						
15	256QAM	1	0	17.35	17.29	17.23						
15	256QAM	1	37	17.22	17.15	17.27						
15	256QAM	1	74	17.27	17.24	17.11	19	0.6				
15	256QAM	36	0	17.28	17.31	17.23						
15	256QAM	36	20	17.21	17.29	17.25						
15	256QAM	36	39	17.16	17.18	17.24						
15	256QAM	75	0	17.21	17.16	17.13	19	0.6				
15	256QAM	75	0	17.21	17.16	17.13						
Channel				42340	42390	42440			Turn-up time (min)	MPR (dB)		
Frequency (MHz)				3495	3500	3505						
10	QPSK	1	0	18.28	18.38	18.28	19.6	0				
10	QPSK	1	25	18.14	18.22	18.20						
10	QPSK	1	49	18.15	18.21	18.13						
10	QPSK	36	0	18.27	18.31	18.25						
10	QPSK	25	12	18.12	18.21	18.20	19.6	0				
10	QPSK	25	25	18.23	18.13	18.15						
10	QPSK	50	0	18.21	18.22	18.22						
10	HQAM	1	0	18.17	18.14	18.14						
10	HQAM	1	25	18.11	18.17	18.24	19.6	0				
10	HQAM	1	49	18.20	18.04	18.05						
10	HQAM	25	0	18.30	18.32	18.25						
10	HQAM	25	12	18.23	18.25	18.21						
10	HQAM	25	25	18.33	18.13	18.05	19.6	0				
10	HQAM	50	0	18.19	18.28	18.28						
10	HQAM	1	0	18.12	18.13	18.16						
10	HQAM	1	25	18.22	18.21	18.15						
10	HQAM	1	49	18.22	18.20	18.15	19.6	0				
10	HQAM	25	0	18.24	18.31	18.25						
10	HQAM	25	12	18.12	18.28	18.16						
10	HQAM	25	25	18.31	18.22	18.11						
10	HQAM	50	0	18.33	18.28	18.27	19.6	0				
10	HQAM	25	0	17.23	17.28	17.33						
10	256QAM	1	25	17.17	17.18	17.27						
10	256QAM	1	49	17.24	17.15	17.06						
10	256QAM	25	0	17.19	17.34	17.18	19.6	0				
10	256QAM	25	12	17.21	17.24	17.17						
10	256QAM	25	25	17.17	17.13	17.25						
10	256QAM	50	0	17.21	17.18	17.19						
Channel				42415	42500	42585	Turn-up time (min)	MPR (dB)				
Frequency (MHz)				3492.5	3508	3517.5						
5	QPSK	1	0	18.29	18.35	18.24	19.6	0				
5	QPSK	1	12	18.12	18.25	18.24						
5	QPSK	1	24	18.23	18.23	18.09						
5	QPSK	12	0	18.21	18.26	18.25						
5	QPSK	12	7	18.12	18.25	18.18	19.6	0				
5	QPSK	12	13	18.24	18.11	18.12						
5	QPSK	25	0	18.20	18.31	18.22						
5	HQAM	1	0	18.15	18.19	18.13						
5	HQAM	1	12	18.17	18.19	18.21	19.6	0				
5	HQAM	1	24	18.22	18.13	18.08						
5	HQAM	12	0	18.35	18.29	18.21						
5	HQAM	12	7	18.20	18.24	18.22						
5	HQAM	12	13	18.27	18.22	18.01	19.6	0				
5	HQAM	25	0	18.23	18.38	18.28						
5	HQAM	1	0	18.08	18.25	18.14						
5	HQAM	1	12	18.09	18.19	18.17						
5	HQAM	1	24	18.26	18.19	18.17	19.6	0				
5	HQAM	12	0	18.23	18.29	18.30						
5	HQAM	12	7	18.14	18.27	18.20						
5	HQAM	12	13	18.28	18.21	18.15						
5	HQAM	25	0	18.36	18.34	18.35	19.6	0				
5	256QAM	1	0	17.28	17.28	17.21						
5	256QAM	1	12	17.22	17.21	17.23						
5	256QAM	1	24	17.22	17.25	17.13						
5	256QAM	12	0	17.22	17.28	17.24	19	0.6				
5	256QAM	12	7	17.16	17.34	17.19						
5	256QAM	12	13	17.08	17.13	17.24						
5	256QAM	25	0	17.21	17.18	17.11						

Band 38&other PA Ant 4 EC13									
BW (MHz)	Modulation	RB Size	RB Offset	Power (mW) CC1/Freq	Power (mW) CC2/Freq	Power (mW) CC3/Freq	Turn-up test (dBm)	MPE (dB)	
Channel									
Frequency (MHz)				37850	38000	38150			
20	QPSK	1	0	18.07	18.12	18.17			
20	QPSK	1	49	18.00	18.02	17.98	19.3	0	
20	QPSK	1	96	18.00	17.99	18.00			
20	QPSK	50	0	18.00	18.00	17.92			
20	QPSK	50	24	18.13	18.08	18.00			
20	QPSK	50	48	18.00	18.00	18.00	19.3	0	
20	QPSK	100	0	18.04	18.02	18.01			
20	16QAM	1	0	18.11	18.05	18.04			
20	16QAM	1	49	17.93	17.97	17.94	19.3	0	
20	16QAM	1	96	18.00	17.99	18.00			
20	16QAM	50	0	17.93	18.04	17.84			
20	16QAM	50	24	17.97	17.98	17.97			
20	16QAM	50	48	18.06	17.99	17.86	19.3	0	
20	16QAM	100	0	17.98	18.11	17.89			
20	16QAM	100	24	18.00	18.00	17.95			
20	64QAM	1	40	17.85	17.94	17.82	19.3	0	
20	64QAM	1	80	17.85	17.85	17.85			
20	64QAM	50	0	17.94	17.99	17.79			
20	64QAM	50	24	18.01	18.00	17.89	19.3	0	
20	64QAM	50	48	18.00	17.99	17.83			
20	64QAM	100	0	18.08	18.02	17.92			
20	256QAM	1	0	18.84	18.76	18.69			
20	256QAM	1	49	18.84	18.77	18.68	18	1.3	
20	256QAM	1	96	18.76	18.67	18.54			
20	256QAM	50	24	18.87	18.86	18.84			
20	256QAM	50	48	18.73	18.74	18.60	18	1.3	
20	256QAM	50	96	18.83	18.77	18.68			
20	256QAM	100	0	18.83	18.77	18.68			
Channel									
Frequency (MHz)				37850	38000	38150	Turn-up test (dBm)	MPE (dB)	
Frequency (MHz)				21275	21300	21325			
18	QPSK	1	0	17.83	17.83	17.83			
18	QPSK	1	37	17.82	17.80	17.81	19.3	0	
18	QPSK	1	74	17.99	17.96	17.91			
18	QPSK	36	0	18.00	18.00	17.93			
18	QPSK	36	18	18.01	17.98	18.01	19.3	0	
18	QPSK	36	37	17.99	17.99	17.99			
18	QPSK	75	0	17.95	18.00	17.91			
18	16QAM	1	0	17.97	18.00	17.97			
18	16QAM	1	37	17.82	17.82	17.82	19.3	0	
18	16QAM	1	74	17.91	17.81	17.94			
18	16QAM	36	0	17.84	18.00	17.82			
18	16QAM	36	18	17.83	17.83	17.74			
18	16QAM	36	36	18.00	18.07	17.87	19.3	0	
18	16QAM	75	0	17.93	18.03	17.79			
18	64QAM	1	0	17.77	17.86	17.80			
18	64QAM	1	37	17.71	17.83	17.69	19.3	0	
18	64QAM	1	74	17.86	17.86	17.86			
18	64QAM	36	0	17.80	17.93	17.71			
18	64QAM	36	18	17.88	17.87	17.81			
18	64QAM	36	36	17.80	17.80	17.81	19.3	0	
18	64QAM	75	0	17.82	17.97	17.85			
18	256QAM	1	0	18.81	18.66	18.70			
18	256QAM	1	49	18.81	18.75	18.69	18	1.3	
18	256QAM	1	96	18.70	18.61	18.50			
18	256QAM	50	24	18.90	18.86	18.82			
18	256QAM	50	36	18.87	18.79	18.63	18	1.3	
18	256QAM	50	48	18.73	18.67	18.58			
Channel									
Frequency (MHz)				37850	38000	38150	Turn-up test (dBm)	MPE (dB)	
Frequency (MHz)				21275	21300	21325			
10	QPSK	1	0	17.83	17.83	17.83			
10	QPSK	1	26	17.80	17.87	17.92	19.3	0	
10	QPSK	1	46	18.01	17.90	17.99			
10	QPSK	25	0	18.00	18.12	17.92			
10	QPSK	25	12	18.02	17.99	18.01			
10	QPSK	25	25	18.00	18.00	17.95			
10	QPSK	50	0	17.98	18.04	17.93			
10	16QAM	1	0	18.02	17.88	17.81			
10	16QAM	1	26	17.82	17.87	17.83	19.3	0	
10	16QAM	1	46	17.88	17.87	17.88			
10	16QAM	25	0	17.83	17.87	17.73			
10	16QAM	25	12	17.85	17.88	17.73	19.3	0	
10	16QAM	25	25	17.89	17.88	17.73			
10	16QAM	50	0	17.88	18.01	17.74			
10	64QAM	1	0	17.77	17.86	17.82			
10	64QAM	1	26	17.75	17.84	17.71	19.3	0	
10	64QAM	1	46	17.86	17.86	17.86			
10	64QAM	25	0	17.80	17.87	17.64			
10	64QAM	25	12	17.99	18.01	17.85	19.3	0	
10	64QAM	25	25	18.03	17.99	17.81			
10	64QAM	50	0	18.06	17.90	17.92			
10	256QAM	1	0	18.81	18.64	18.70			
10	256QAM	1	26	18.83	18.67	18.65	18	1.3	
10	256QAM	1	46	18.72	18.64	18.72			
10	256QAM	25	0	18.80	18.70	18.60			
10	256QAM	25	12	18.81	18.74	18.68	18	1.3	
10	256QAM	25	25	18.81	18.63	18.62			
10	256QAM	50	0	18.77	18.67	18.60			
Channel									
Frequency (MHz)				37750	38000	38250	Turn-up test (dBm)	MPE (dB)	
Frequency (MHz)				21275	21300	21375			
18	QPSK	1	12	17.88	17.82	17.88			
18	QPSK	1	26	17.95	17.80	17.93			
18	QPSK	12	0	18.00	18.00	17.92			
18	QPSK	12	7	17.96	17.96	17.96	19.3	0	
18	QPSK	12	13	17.96	17.96	17.81			
18	QPSK	25	0	18.00	18.00	17.90			
18	16QAM	1	0	18.06	18.02	17.96			
18	16QAM	1	24	17.87	17.81	17.83	19.3	0	
18	16QAM	12	0	17.88	17.91	17.75			
18	16QAM	12	12	17.87	17.87	17.77			
18	16QAM	12	13	17.84	17.87	17.81	19.3	0	
18	16QAM	25	0	17.91	18.01	17.80			
18	64QAM	1	0	17.77	17.86	17.82			
18	64QAM	1	12	17.74	17.89	17.76	19.3	0	
18	64QAM	1	24	17.86	17.86	17.86			
18	64QAM	12	0	17.83	17.83	17.72			
18	64QAM	12	7	17.87	17.91	17.79	19.3	0	
18	64QAM	12	12	17.87	17.87	17.78			
18	64QAM	25	0	18.05	17.98	17.87			
18	256QAM	1	0	18.77	18.72	18.63			
18	256QAM	1	12	18.81	18.74	18.64	18	1.3	
18	256QAM	1	24	18.69	18.62	18.57			
18	256QAM	12	0	18.70	18.74	18.67			
18	256QAM	12	12	18.80	18.73	18.68	18	1.3	
18	256QAM	12	13	18.69	18.64	18.47			
18	256QAM	25	0	18.77	18.70	18.60			

Band 41&other PA Ant 4 EC13										
SW (MHz)	Modulation	RIS Size	RIS Offset	Power (W) (dBm)	Power (W) (dBm)	Power (W) (dBm)	Power (W) (dBm)	Power (W) (dBm)	Power (W) (dBm)	MPR (dB)
Channel										
Frequency (MHz)										
39750 40185 40600 41060 41560 41960										
Turn-up limit (dBm)										
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Band 41 HPUE A57 ECI3											
BRW (MHz)	Modulation	RIS Size	RR Offset	Power (W)	Power (W) Ch. 1 / Ch. 2	Power (W) Ch. 1 / Ch. 2	Power (W) Ch. 1 / Ch. 2	Power (W) Ch. 1 / Ch. 2	Power (W) Ch. 1 / Ch. 2	Turn-up limit (dBm)	MPE (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	19.76	19.76	19.76	19.76	19.76	19.76	20.9	0
20	QPSK	1	49	19.69	19.69	19.70	19.73	19.68	19.70	20.9	0
20	QPSK	1	99	19.65	19.74	19.76	19.71	19.60	19.60	20.9	0
20	QPSK	50	19	19.69	19.71	19.69	19.71	19.67	19.71	20.9	0
20	QPSK	50	24	19.66	19.71	19.74	19.72	19.61	19.61	20.9	0
20	QPSK	100	0	19.65	19.65	19.65	19.65	19.65	19.65	20.9	0
20	QPSK	100	0	19.70	19.73	19.71	19.63	19.70	19.70	20.9	0
20	16QAM	1	0	19.67	19.65	19.69	19.68	19.68	19.68	20.9	0
20	16QAM	1	49	19.63	19.66	19.67	19.67	19.67	19.67	20.9	0
20	16QAM	1	99	19.61	19.69	19.63	19.62	19.48	19.48	20.9	0
20	16QAM	50	0	19.68	19.60	19.74	19.57	19.58	19.58	20.9	0
20	16QAM	50	24	19.68	19.59	19.69	19.64	19.47	19.47	20.9	0
20	16QAM	50	50	19.48	19.60	19.68	19.61	19.51	19.51	20.9	0
20	16QAM	100	0	19.68	19.64	19.66	19.52	19.62	19.62	20.9	0
20	16QAM	100	0	19.63	19.75	19.67	19.70	19.59	19.59	20.9	0
20	16QAM	1	49	19.61	19.62	19.70	19.69	19.58	19.58	20.9	0
20	16QAM	1	99	19.57	19.67	19.61	19.57	19.44	19.44	20.9	0
20	64QAM	50	0	19.57	19.50	19.69	19.57	19.52	19.52	20.9	0
20	64QAM	50	0	19.63	19.67	19.68	19.60	19.54	19.54	20.9	0
20	64QAM	50	24	19.67	19.63	19.67	19.63	19.67	19.67	20.9	0
20	64QAM	100	0	19.59	19.64	19.66	19.51	19.59	19.59	20.9	0
20	256QAM	1	0	19.63	19.67	19.69	19.71	19.64	19.64	20.9	0
20	256QAM	1	49	19.67	19.69	19.67	19.70	19.63	19.63	20.9	0
20	256QAM	1	99	19.54	19.72	19.70	19.67	19.49	19.49	20.9	0
20	256QAM	50	0	19.64	19.66	19.66	19.54	19.65	19.65	20.9	0
20	256QAM	50	24	19.62	19.62	19.62	19.62	19.59	19.59	20.9	0
20	256QAM	50	50	19.60	19.58	19.65	19.60	19.51	19.51	20.9	0
20	256QAM	100	0	19.58	19.73	19.66	19.60	19.55	19.55	20.9	0
Channel											
Frequency (MHz)											
15	QPSK	1	0	19.73	19.73	19.69	19.73	19.73	19.73	20.9	0
15	QPSK	1	37	19.55	19.64	19.63	19.63	19.64	19.64	21	0
15	QPSK	1	74	19.60	19.62	19.68	19.67	19.58	19.58	20.9	0
15	QPSK	50	19	19.58	19.63	19.67	19.67	19.63	19.63	20.9	0
15	QPSK	50	20	19.59	19.65	19.64	19.65	19.52	19.52	20.9	0
15	QPSK	50	25	19.58	19.64	19.63	19.64	19.51	19.51	20.9	0
15	QPSK	75	0	19.57	19.61	19.72	19.55	19.59	19.59	20.9	0
15	16QAM	1	0	19.61	19.59	19.60	19.55	19.54	19.54	20.9	0
15	16QAM	1	37	19.47	19.63	19.63	19.63	19.63	19.63	20.9	0
15	16QAM	1	74	19.57	19.67	19.52	19.57	19.34	19.34	20.9	0
15	16QAM	36	0	19.58	19.63	19.61	19.43	19.54	19.54	20.9	0
15	16QAM	36	12	19.47	19.63	19.63	19.63	19.63	19.63	20.9	0
15	16QAM	36	39	19.42	19.54	19.63	19.58	19.52	19.52	20.9	0
15	16QAM	75	0	19.57	19.59	19.64	19.59	19.53	19.53	20.9	0
15	16QAM	75	0	19.53	19.70	19.63	19.64	19.44	19.44	20.9	0
15	64QAM	1	37	19.59	19.48	19.64	19.61	19.47	19.47	20.9	0
15	64QAM	1	74	19.44	19.44	19.64	19.64	19.44	19.44	20.9	0
15	64QAM	36	0	19.49	19.54	19.62	19.50	19.59	19.59	20.9	0
15	64QAM	36	20	19.37	19.58	19.66	19.53	19.42	19.42	20.9	0
15	64QAM	36	25	19.32	19.59	19.65	19.52	19.43	19.43	20.9	0
15	64QAM	75	0	19.50	19.61	19.57	19.46	19.55	19.55	20.9	0
15	256QAM	1	0	19.58	19.56	19.66	19.67	19.52	19.52	20.9	0
15	256QAM	1	37	19.58	19.63	19.67	19.67	19.63	19.63	20.9	0
15	256QAM	1	74	19.45	19.59	19.59	19.56	19.39	19.39	20.9	0
15	256QAM	36	0	19.52	19.56	19.67	19.40	19.53	19.53	20.9	0
15	256QAM	36	12	19.48	19.48	19.65	19.65	19.48	19.48	20.9	0
15	256QAM	36	39	19.50	19.50	19.53	19.53	19.53	19.53	20.9	0
15	256QAM	75	0	19.52	19.48	19.63	19.57	19.53	19.53	20.9	0
Channel											
Frequency (MHz)											
10	QPSK	1	0	19.72	19.72	19.73	19.67	19.73	19.73	20.9	0
10	QPSK	1	25	19.63	19.66	19.69	19.65	19.59	19.59	21	0
10	QPSK	1	49	19.56	19.70	19.66	19.57	19.50	19.50	20.9	0
10	QPSK	1	99	19.55	19.68	19.67	19.62	19.50	19.50	20.9	0
10	QPSK	25	12	19.62	19.57	19.71	19.67	19.48	19.48	20.9	0
10	QPSK	25	12	19.62	19.57	19.71	19.67	19.48	19.48	20.9	0
10	QPSK	50	0	19.60	19.64	19.63	19.56	19.63	19.63	20.9	0
10	16QAM	1	0	19.65	19.58	19.63	19.63	19.52	19.52	20.9	0
10	16QAM	1	25	19.63	19.64	19.63	19.63	19.53	19.53	20.9	0
10	16QAM	1	49	19.51	19.63	19.59	19.56	19.39	19.39	20.9	0
10	16QAM	25	0	19.52	19.54	19.62	19.55	19.51	19.51	20.9	0
10	16QAM	25	12	19.51	19.63	19.63	19.63	19.53	19.53	20.9	0
10	16QAM	25	25	19.36	19.47	19.63	19.57	19.56	19.56	20.9	0
10	16QAM	50	0	19.62	19.54	19.64	19.59	19.53	19.53	20.9	0
10	16QAM	50	0	19.57	19.64	19.64	19.54	19.54	19.54	20.9	0
10	64QAM	1	25	19.53	19.64	19.64	19.54	19.54	19.54	20.9	0
10	64QAM	25	0	19.44	19.50	19.50	19.50	19.50	19.50	20.9	0
10	64QAM	25	12	19.43	19.54	19.59	19.58	19.41	19.41	20.9	0
10	64QAM	25	25	19.43	19.50	19.59	19.47	19.40	19.40	20.9	0
10	64QAM	50	0	19.53	19.54	19.53	19.44	19.44	19.44	20.9	0
10	256QAM	1	0	19.59	19.56	19.65	19.67	19.57	19.57	20.9	0
10	256QAM	1	25	19.58	19.60	19.67	19.67	19.60	19.60	20.9	0
10	256QAM	1	49	19.52	19.62	19.69	19.57	19.39	19.39	20.9	0
10	256QAM	25	0	19.55	19.56	19.67	19.43	19.58	19.58	20.9	0
10	256QAM	25	12	19.55	19.56	19.65	19.54	19.47	19.47	20.9	0
10	256QAM	25	25	19.50	19.51	19.58	19.40	19.43	19.43	20.9	0
10	256QAM	50	0	19.48	19.48	19.54	19.52	19.58	19.58	20.9	0
10	256QAM	50	12	19.43	19.43	19.53	19.53	19.43	19.43	20.9	0
Channel											
Frequency (MHz)											
5	QPSK	1	0	19.69	19.69	19.66	19.69	19.69	19.69	20.9	0
5	QPSK	1	12	19.59	19.68	19.66	19.64	19.58	19.58	21	0
5	QPSK	1	24	19.57	19.68	19.65	19.67	19.48	19.48	20.9	0
5	QPSK	12	0	19.67	19.68	19.65	19.67	19.62	19.62	20.9	0
5	QPSK	12	7	19.62	19.59	19.67	19.69	19.51	19.51	20.9	0
5	QPSK	12	13	19.60	19.52	19.62	19.56	19.59	19.59	20.9	0
5	QPSK	12	19	19.52	19.66	19.62	19.54	19.57	19.57	20.9	0
5	16QAM	1	0	19.64	19.58	19.59	19.57	19.47	19.47	20.9	0
5	16QAM	1	12	19.53	19.67	19.63	19.63	19.53	19.53	20.9	0
5	16QAM	1	24	19.59	19.57	19.59	19.54	19.43	19.43	20.9	0
5	16QAM	12	0	19.58	19.49	19.64	19.51	19.56	19.56	20.9	0
5	16QAM	12	7	19.48	19.51	19.63	19.63	19.48	19.48	20.9	0
5	16QAM	12	13	19.39	19.54	19.64	19.57	19.58	19.58	20.9	0
5	16QAM	25	0	19.59	19.50	19.56	19.48	19.51	19.51	20.9	0
5	16QAM	25	12	19.52	19.66	19.62	19.54	19.57	19.57	20.9	0
5	64QAM	1	12	19.54	19.55	19.61	19.62	19.56	19.56	20.9	0
5	64QAM	12	0	19.48	19.48	19.54	19.54	19.48	19.48	20.9	0
5	64QAM	12	0	19.53	19.48	19.58	19.48	19.58	19.58	20.9	0
5	64QAM	12	7	19.43	19.56	19.63	19.47	19.41	19.41	20.9	0
5	64QAM	12	14	19.48	19.51	19.64	19.64	19.48	19.48	20.9	0
5	64QAM	25	0	19.54	19.52	19.59	19.45	19.47	19.47	20.9	0
5	256QAM	1	0	19.51	19.56	19.67	19.68	19.50	19.50	20.9	0
5	256QAM	1	12	19.55	19.57	19.66	19.66	19.56	19.56	20.9	0
5	256QAM	1	24	19.40	19.62	19.64	19.63	19.47	19.47	20.9	0
5	256QAM	12	0	19.52	19.56	19.66	19.48	19.56	19.56	20.9	0
5	256QAM	12	7	19.48	19.51	19.64	19.64	19.48	19.48	20.9	0
5	256QAM	12	13	19.57	19.43	19.55	19.48	19.47	19.47	20.9	0
5	256QAM	25	0	19.53	19.43	19.55	19.46	19.44	19.44	20.	



Reduced Power Mode for ECI6

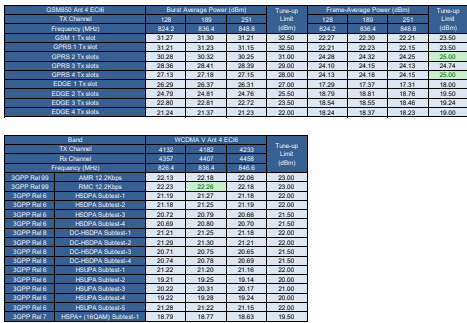
GSM850 RA-0 ECI6	Ratd Average Power (dBm)			Turn-up Limit (dBm)	Power-Change Power (dBm)			Turn-up Limit (dBm)
	RA Channel	854.2	854.4	854.8	854.2	854.4	854.8	
OFDM 1 Tx Mode		31.72	31.91	31.89	33.00	22.72	22.81	24.50
OFDM 3 Tx Mode		31.72	31.88	31.82	33.00	22.72	22.88	24.50
OFDM 3 Tx Mode		30.95	30.99	30.92	30.00	24.05	24.99	24.02
OFDM 3 Tx Mode		30.05	29.13	28.15	30.00	24.05	24.87	24.94
OFDM 4 Tx Mode		27.72	27.87	27.82	29.00	24.70	24.87	24.82
EDGE 1 Tx Mode		26.85	26.87	26.84	28.00	17.80	17.87	17.84
EDGE 3 Tx Mode		26.28	26.31	26.30	28.00	18.29	18.31	18.29
EDGE 3 Tx Mode		23.34	23.39	23.23	24.00	19.05	19.13	19.07
EDGE 4 Tx Mode		22.83	21.85	21.79	23.00	18.83	18.85	19.79

RA Channel	HSPA+ RA-0 ECI6			Turn-up Limit (dBm)
	4192	4192	4239	
Frequency (MHz)	854.2	854.4	854.8	
SCPP Rel 99	AMR 12.7kbps	22.38	22.49	24.00
SCPP Rel 99	AMR 12.7kbps	22.40	22.53	24.00
SCPP Rel 6	HSPA Subcar-1	21.00	21.50	21.48
SCPP Rel 6	HSPA Subcar-2	21.00	21.52	21.49
SCPP Rel 6	HSPA Subcar-3	20.98	21.08	21.02
SCPP Rel 6	HSPA Subcar-4	20.84	21.05	20.94
SCPP Rel 6	DC-HSPA Subcar-1	21.00	21.50	21.48
SCPP Rel 6	DC-HSPA Subcar-2	21.44	21.49	21.53
SCPP Rel 6	DC-HSPA Subcar-3	20.24	21.00	21.01
SCPP Rel 6	DC-HSPA Subcar-4	20.08	21.05	21.04
SCPP Rel 6	HSPA Subcar-1	21.55	21.56	21.47
SCPP Rel 6	HSPA Subcar-2	19.53	19.51	19.49
SCPP Rel 6	HSPA Subcar-3	20.50	20.59	20.48
SCPP Rel 6	HSPA Subcar-4	19.45	19.45	19.45
SCPP Rel 6	HSPA Subcar-5	21.54	21.48	21.48
SCPP Rel 6	HSPA+ HSDPA Subcar-1	18.90	19.00	20.90



Band		Band Average Power (dBm)			Tune-up Limit		
Tx Channel		9652	9661	9668	9652	9661	9668
Frequency (MHz)		1900.2	1900	1900.8	1900.2	1900	1900.8
QRM 1 Tx side		28.28	28.17	28.08	28.10	28.28	28.08
QRM 1 Tx side		28.87	28.64	28.02	30.58	18.87	28.04
QPM 2 Tx side		28.18	28.23	28.20	28.58	22.18	22.23
QPM 3 Tx side		28.32	28.27	28.34	27.88	27.85	27.88
QPM 4 Tx side		25.18	25.22	25.18	28.50	22.18	22.22
EDGE 1 Tx side		23.71	23.71	23.68	28.00	14.71	14.71
EDGE 2 Tx side		22.21	22.18	22.23	23.58	18.21	18.23
EDGE 3 Tx side		25.78	25.36	26.78	27.58	18.88	18.88
EDGE 4 Tx side		18.81	18.74	18.68	20.00	15.81	15.74

Band		WCDMA II A/T ECH			WCDMA IV A/T ECH		
Tx Channel		9852	9860	9858	1532	1533	1533
Rx Channel		9862	9860	9858	1537	1538	1538
Frequency (MHz)		1900.2	1900	1900.8	1900.2	1900	1900.8
ISPP Rel 9d		21.33	21.50	21.38	22.78	21.55	21.43
ISPP Rel 9d		21.47	21.54	21.51	22.70	21.38	21.48
ISPP Rel 8		20.58	20.48	20.60	21.70	20.32	20.57
ISPP Rel 8		20.48	20.82	20.50	21.70	20.44	20.48
ISPP Rel 8		19.88	20.11	20.02	21.30	18.83	19.88
ISPP Rel 8		20.60	20.42	19.97	21.28	18.83	18.88
ISPP Rel 8		20.47	20.46	20.21	21.70	20.45	20.45
ISPP Rel 8		20.55	20.53	20.41	21.70	20.35	20.42
ISPP Rel 8		20.58	20.07	20.03	21.20	18.88	18.88
ISPP Rel 8		19.83	20.04	19.88	21.30	19.80	19.80
ISPP Rel 8		20.48	20.55	20.51	21.70	20.34	20.52
ISPP Rel 8		19.38	19.47	19.38	19.70	18.82	18.88
ISPP Rel 8		19.55	19.50	19.58	20.70	19.58	19.58
ISPP Rel 8		18.44	18.58	18.53	19.70	18.23	18.53
ISPP Rel 8		20.51	20.55	20.58	21.70	20.43	20.40
ISPP Rel 7		17.86	18.14	18.01	19.20	17.87	18.01



Band 5 Ant 0 ECI6														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	APR3 (dB)						
Channel														
800 806.5 844														
10	QPSK	1	0	22.38	22.42	22.29	24	0						
10	QPSK	1	25	22.28	22.33	22.22								
10	QPSK	1	49	22.33	22.34	22.22								
10	QPSK	25	0	21.33	21.37	21.24								
10	QPSK	25	12	21.30	21.31	21.28	23	1						
10	QPSK	25	25	21.27	21.31	21.24								
10	QPSK	50	0	21.28	21.30	21.26								
10	16QAM	1	0	21.21	21.26	21.14								
10	16QAM	1	25	21.23	21.19	21.19	23	1						
10	16QAM	1	49	21.23	21.18	21.20								
10	16QAM	25	0	20.35	20.39	20.22								
10	16QAM	25	12	20.29	20.35	20.30								
10	16QAM	25	25	20.31	20.30	20.24	22	2						
10	16QAM	50	0	20.34	20.30	20.23								
10	64QAM	1	0	20.15	20.24	20.19								
10	64QAM	1	25	20.24	20.14	20.24								
10	64QAM	1	49	20.20	20.16	20.20	21	3						
10	64QAM	25	0	19.37	19.35	19.26								
10	64QAM	25	12	19.25	19.27	19.24								
10	64QAM	25	25	19.33	19.29	19.30								
10	64QAM	50	0	19.33	19.31	19.24	19	5						
10	256QAM	1	0	17.36	17.42	17.21								
10	256QAM	1	25	17.28	17.30	17.27								
10	256QAM	1	49	17.23	17.32	17.21								
10	256QAM	12	0	17.26	17.24	17.24	19	5						
10	256QAM	25	12	17.22	17.28	17.11								
10	256QAM	25	25	17.20	17.20	17.17								
10	256QAM	50	0	17.22	17.23	17.18								
Channel														
20415 20425 20435														
5	QPSK	1	0	22.25	22.37	22.28	24	0						
5	QPSK	1	12	22.17	22.28	22.13								
5	QPSK	1	24	22.22	22.25	22.08								
5	QPSK	12	0	21.28	21.30	21.12								
5	QPSK	12	7	21.19	21.18	21.20	23	1						
5	QPSK	12	13	21.15	21.28	21.19								
5	QPSK	25	0	21.25	21.23	21.23								
5	16QAM	1	0	21.09	21.16	21.02								
5	16QAM	1	12	21.11	21.12	21.12	23	1						
5	16QAM	1	24	21.19	21.09	21.18								
5	16QAM	12	0	20.23	20.32	20.08								
5	16QAM	12	7	20.18	20.22	20.24								
5	16QAM	12	13	20.30	20.24	20.12	22	2						
5	16QAM	25	0	20.23	20.25	20.10								
5	64QAM	1	0	20.13	20.13	20.08								
5	64QAM	1	12	20.15	20.20	20.18								
5	64QAM	1	24	20.07	20.11	20.13	21	3						
5	64QAM	12	0	19.24	19.29	19.22								
5	64QAM	12	13	19.26	19.23	19.23								
5	64QAM	12	13	19.29	19.25	19.25								
5	64QAM	25	0	19.29	19.20	19.17	19	5						
5	256QAM	1	0	17.26	17.25	17.25								
5	256QAM	1	12	17.19	17.18	17.24								
5	256QAM	1	24	17.14	17.24	17.15								
5	256QAM	12	0	17.26	17.24	17.24	19	5						
5	256QAM	12	7	17.09	17.14	17.06								
5	256QAM	12	13	17.21	17.07	17.07								
5	256QAM	25	0	17.20	17.20	17.12								
Channel														
20415 20425 20435														
3	QPSK	1	0	22.25	22.35	22.25	24	0						
3	QPSK	1	8	22.13	22.25	22.15								
3	QPSK	1	14	22.22	22.29	22.16								
3	QPSK	8	0	21.23	21.26	21.18								
3	QPSK	8	4	21.16	21.28	21.15	23	1						
3	QPSK	8	7	21.14	21.26	21.19								
3	16QAM	1	0	21.04	21.10	21.00								
3	16QAM	1	8	21.12	21.21	21.09								
3	16QAM	1	8	21.11	21.15	21.06	23	1						
3	16QAM	1	14	21.18	21.13	21.09								
3	16QAM	8	0	20.32	20.33	20.19								
3	16QAM	8	4	20.24	20.29	20.27								
3	16QAM	8	7	20.35	20.31	20.12	22	2						
3	16QAM	15	0	20.29	20.24	20.10								
3	64QAM	1	0	20.04	20.19	20.11								
3	64QAM	1	8	20.17	20.01	20.14								
3	64QAM	1	14	20.09	20.09	20.18	21	3						
3	64QAM	8	0	19.28	19.30	19.17								
3	64QAM	8	4	19.10	19.14	19.15								
3	64QAM	8	7	19.27	19.19	19.21								
3	64QAM	15	0	19.30	19.26	19.22	19	5						
3	256QAM	1	0	17.34	17.26	17.1								
3	256QAM	1	8	17.20	17.22	17.26								
3	256QAM	1	14	17.16	17.25	17.11								
3	256QAM	8	0	17.14	17.17	17.13	19	5						
3	256QAM	8	4	17.15	17.22	17.06								
3	256QAM	8	7	17.26	17.18	17.11								
3	256QAM	15	0	17.27	17.21	17.07								
Channel														
20407 20428 20443														
1.4	QPSK	1	0	22.35	22.35	22.25	24	0						
1.4	QPSK	1	3	22.15	22.30	22.15								
1.4	QPSK	1	5	22.26	22.20	22.15								
1.4	QPSK	3	0	22.20	22.30	22.14								
1.4	QPSK	3	1	22.05	22.24	22.09	23	1						
1.4	QPSK	3	3	22.14	22.13	22.05								
1.4	QPSK	8	0	21.04	21.25	21.13								
1.4	16QAM	1	0	21.14	21.16	21.04								
1.4	16QAM	1	3	21.16	21.16	21.10	23	1						
1.4	16QAM	1	5	21.14	21.12	21.16								
1.4	16QAM	3	0	21.18	21.19	21.06								
1.4	16QAM	3	1	21.06	21.07	21.01								
1.4	16QAM	3	3	21.09	21.10	21.05	22	2						
1.4	16QAM	6	0	20.25	20.30	20.20								
1.4	64QAM	1	0	20.08	20.20	20.06								
1.4	64QAM	1	3	20.21	20.10	20.10								
1.4	64QAM	1	5	20.14	20.07	20.17	22	2						
1.4	64QAM	3	0	20.22	20.21	20.14								
1.4	64QAM	3	1	20.01	20.07	20.03								
1.4	64QAM	3	3	20.08	20.04	20.03								
1.4	64QAM	6	0	19.23	19.21	19.14	21	3						
1.4	256QAM	1	0	17.24	17.29	17.13								
1.4	256QAM	1	3	17.20	17.19	17.14								
1.4	256QAM	1	5	17.11	17.25	17.19								
1.4	256QAM	3	0	17.24	17.25	17.18	19	5						
1.4	256QAM	3	1	17.13	17.19	17.05								
1.4	256QAM	3	3	17.1	17.09	17.04								
1.4	256QAM	6	0	17.25	17.15	17.05	19	5						

Band 17 Ant 0 EC16												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up (mHz)	MPE (dB)				
Channel												
Frequency (MHz)				709	710	711						
10	QPSK	1	0	22.19	22.20	22.22	24	0				
10	QPSK	1	26	22.12	22.19	22.11						
10	QPSK	1	49	22.16	22.22	22.09						
10	QPSK	25	0	21.26	21.30	21.22	23	1				
10	QPSK	25	12	21.11	21.13	21.18						
10	QPSK	25	25	21.07	21.21	21.12						
10	QPSK	50	0	21.16	21.26	21.16	23	1				
10	16QAM	1	0	21.29	21.29	21.14						
10	16QAM	1	26	21.09	21.09	21.02						
10	16QAM	1	49	21.04	21.15	21.08	22	2				
10	16QAM	25	0	20.38	20.37	20.35						
10	16QAM	25	12	20.10	20.20	20.03						
10	16QAM	25	25	20.07	20.15	20.16	21	3				
10	16QAM	50	0	20.22	20.27	20.13						
10	64QAM	1	0	20.19	20.20	20.08						
10	64QAM	1	26	20.03	20.07	20.09	22	2				
10	64QAM	1	49	20.07	20.15	20.05						
10	64QAM	25	0	19.22	19.34	19.24						
10	64QAM	25	12	19.04	19.05	19.16	21	3				
10	64QAM	25	25	19.20	19.16	19.11						
10	64QAM	50	0	19.19	19.34	19.16						
10	256QAM	1	0	17.22	17.27	17.27	19	5				
10	256QAM	1	26	17.13	17.04	17.11						
10	256QAM	1	49	17.13	17.16	17.14						
10	256QAM	25	0	17.12	17.32	17.25	19	5				
10	256QAM	25	12	17.26	17.28	17.03						
10	256QAM	25	25	17.17	17.00	17.01						
10	256QAM	50	0	17.07	17.16	17.05						
Channel												
Frequency (MHz)				706.5	710	713.5			Tune-up (mHz)	MPE (dB)		
5	QPSK	1	0	22.18	22.18	22.15	24	0				
5	QPSK	1	12	22.06	22.16	22.10						
5	QPSK	1	24	22.14	22.11	22.10						
5	QPSK	12	0	21.22	21.25	21.19	23	1				
5	QPSK	12	7	21.01	21.10	21.12						
5	QPSK	12	13	21.08	21.14	21.09						
5	QPSK	25	0	21.11	21.16	21.13	23	1				
5	16QAM	1	0	21.22	21.27	21.05						
5	16QAM	1	12	21.08	21.14	21.13						
5	16QAM	1	24	21.22	21.04	21.08	22	2				
5	16QAM	12	0	20.36	20.23	20.26						
5	16QAM	12	7	20.11	20.13	20.02						
5	16QAM	12	13	20.51	20.14	20.06	21	3				
5	16QAM	25	0	20.20	20.28	20.09						
5	64QAM	1	0	20.09	20.17	20.01						
5	64QAM	1	12	21.13	20.09	20.01	22	2				
5	64QAM	1	24	20.06	20.05	20.01						
5	64QAM	12	7	19.03	19.15	19.05						
5	64QAM	12	13	19.12	19.15	19.05	19	5				
5	64QAM	25	0	19.16	19.26	19.14						
5	256QAM	1	0	17.17	17.26	17.25						
5	256QAM	1	12	17.07	17.07	17.12						
5	256QAM	1	24	17.08	17.06	17.12	19	5				
5	256QAM	12	0	17.04	17.24	17.16						
5	256QAM	12	7	17.21	17.18	17.07						
5	256QAM	12	13	17.14	17.24	17.12						
5	256QAM	25	0	17.08	17.11	17.12						

Band 26 Ant 0 EC16													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up (mHz)	MPE (dB)					
Channel													
Frequency (MHz)				821.5	831.5	841.5							
15	QPSK	1	0	22.44	22.53	22.35	24	0					
15	QPSK	1	37	22.33	22.41	22.28							
15	QPSK	1	74	22.40	22.42	22.27							
15	QPSK	36	0	21.36	21.48	21.37	23	1					
15	QPSK	36	20	21.43	21.40	21.37							
15	QPSK	36	36	21.35	21.35	21.28							
15	QPSK	75	0	21.40	21.41	21.34	23	1					
15	16QAM	1	0	21.25	21.29	21.25							
15	16QAM	1	37	21.31	21.28	21.31							
15	16QAM	1	74	21.33	21.24	21.23	22	2					
15	16QAM	36	0	20.46	20.48	20.28							
15	16QAM	36	20	20.32	20.38	20.36							
15	16QAM	36	36	20.24	20.38	20.24	21	3					
15	16QAM	75	0	20.37	20.48	20.24							
15	64QAM	1	0	20.18	20.30	20.21							
15	64QAM	1	37	20.37	20.16	20.33	22	2					
15	64QAM	1	74	20.22	20.28	20.30							
15	64QAM	36	0	19.40	19.38	19.27							
15	64QAM	36	20	19.27	19.33	19.24	21	3					
15	64QAM	36	36	19.46	19.35	19.43							
15	64QAM	75	0	19.42	19.35	19.26							
15	256QAM	1	0	17.41	17.50	17.25	19	5					
15	256QAM	1	37	17.42	17.38	17.28							
15	256QAM	1	74	17.27	17.41	17.26							
15	256QAM	36	0	17.32	17.43	17.28	19	5					
15	256QAM	36	20	17.25	17.41	17.13							
15	256QAM	36	36	17.34	17.22	17.22							
15	256QAM	75	0	17.24	17.31	17.23							
Channel													
Frequency (MHz)				819	831.5	844	Tune-up (mHz)	MPE (dB)					
10	QPSK	1	0	22.30	22.39	22.31	24	0					
10	QPSK	1	26	22.24	22.38	22.14							
10	QPSK	1	49	22.31	22.34	22.29							
10	QPSK	25	0	21.20	21.44	21.33	23	1					
10	QPSK	25	12	21.39	21.30	21.24							
10	QPSK	25	25	21.29	21.29	21.15							
10	QPSK	50	0	21.34	21.39	21.31	23	1					
10	16QAM	1	0	21.16	21.17	21.16							
10	16QAM	1	25	21.25	21.16	21.25							
10	16QAM	1	49	21.30	21.13	21.13	22	2					
10	16QAM	25	0	20.40	20.37	20.24							
10	16QAM	25	12	20.22	20.30	20.31							
10	16QAM	25	25	20.36	20.30	20.26	21	3					
10	16QAM	50	0	20.25	20.43	20.30							
10	64QAM	1	0	20.10	20.18	20.22							
10	64QAM	1	26	20.31	20.09	20.24	22	2					
10	64QAM	1	49	20.19	20.17	20.35							
10	64QAM	25	0	19.27	19.27	19.35							
10	64QAM	25	12	19.16	19.39	19.24	21	3					
10	64QAM	25	25	19.27	19.35	19.24	19	5					
10	64QAM	25	26	19.37	19.24	19.37	19	5					
10	64QAM	25	49	19.33	19.27	19.35	19	5					
10	256QAM	1	0	17.34	17.45	17.16	19	5					
10	256QAM	1	26	17.38	17.25	17.28							
10	256QAM	1	49	17.42	17.35	17.26							
10	256QAM	25	0	17.19	17.39	17.07							
10	256QAM	25	12	17.12	17.39	17.07							
10	256QAM	25	25	17.22	17.35	17.07	19	5					
10	256QAM	50	0	17.20	17.21	17.17	19	5					
Channel													
Frequency (MHz)				2617.5	2626.5	2635.5	Tune-up (mHz)	MPE (dB)					
5	QPSK	1	0	22.36	22.48	22.23	24	0					
5	QPSK	1	12	22.24	22.38	22.16							
5	QPSK	1	24	22.31	22.36	22.18							
5	QPSK	12	0	21.32	21.36	21.25	23	1					
5	QPSK	12	6	21.40	21.29	21.28							
5	QPSK	12	12	21.37	21.37	21.25							
5	QPSK	25	0	21.29	21.35	21.25	23	1					
5	16QAM	1	0	21.19	21.28	21.18							
5	16QAM	1	12	21.25	21.25	21.18							
5	16QAM	1	24	21.24	21.14	21.11	22	2					
5	16QAM	12	0	20.41	20.37	20.24							
5	16QAM	12	6	20.38	20.28	20.25							
5	16QAM	12	13	20.31	20.27	20.27	21	3					
5	16QAM	25	0	20.34	20.38	20.24							
5	16QAM	25	6	20.35	20.34	20.25							
5	16QAM	25	13	20.29	20.13	20.28	22	2					
5	16QAM	1	0	20.23	20.13	20.28							
5	64QAM	1	24	20.13	20.21	20.27							
5	64QAM	1	12	20.23	20.13	20.23	21	3					
5	64QAM	12	7	19.23	19.22	19.23							
5	64QAM	12	13	19.19	19.23	19.33							
5	64QAM	1	0	19.30	19.20	19.23	21	3					
5	64QAM	1	6	19.28	19.27	19.25							
5	64QAM	1	12	19.26	19.27	19.25							
5	256QAM	1	0	17.28	17.45	17.21	19	5					
5	256QAM	1	12	17.33	17.35	17.38							
5	256QAM	1	24	17.33	17.33	17.38							
5	256QAM	12	0	17.19	17.35	17.25							
5	256QAM	12	7	17.19	17.32	17.07							
5	256QAM	12	13	17.20	17.35	17.07	19	5					
5	256QAM	25	0	17.26	17.27	17.15	19	5					
Channel													
Frequency (MHz)				2667.5	2666.5	2665.5	Tune-up (mHz)	MPE (dB)					
3	QPSK	1	0	22.34	22.46	22.25	24	0					
3	QPSK	1	8	22.26	22.32	22.22							
3	QPSK	1	14	22.27	22.31	22.24							
3	QPSK	8	0	21.30	21.38	21.27	23	1					
3	QPSK	8	4	21.38	21.35	21.26							
3	QPSK	8	7	21.33	21.29	21.26							
3	16QAM	1	0	21.21	21.29	21.21	23	1					
3	16QAM	1	8	21.27	21.21	21.21							
3	16QAM	1	14	21.25	21.21	21.21							
3	16QAM	8	0	20.43	20.40	20.21	22	2					
3	16QAM	8	4	20.38	20.36	20.29							
3	16QAM	8	7	20.35	20.34	20.25							
3	16QAM	16	0	20.26	20.39	20.23	22	2					
3	16QAM	1	0	20.08	20.16	20.22							
3	16QAM	1	8	20.29	20.10	20.21							
3	64QAM	1	0	20.09	20.22	20.22	21	3					
3	64QAM	1	8	19.33	19.33	19.29							
3	64QAM	1	14	19.24	19.23	19.29							
3	64QAM	16	0	19.36	19.27	19.35	21	3					
3	64QAM	1	0	19.31	19.26	19.26							
3	64QAM	1	8	19.28	19.26	19.26							
3	256QAM	1	0	17.28	17.44	17.21	19	5					
3	256QAM	1	8	17.32	17.29	17.25							
3	256QAM	1	14	17.16	17.36	17.21							
3	256QAM	16	0	17.26	17.30	17.25							
3	256QAM	8	4	17.13	17.38	17.08							
3	256QAM	8	7	17.24	17.29	17.21	19	5					
3	256QAM	15	0	17.30	17.19	17.25	19	5					
Channel													
Frequency (MHz)				2667.5	2666.5	2665.5	Tune-up (mHz)	MPE (dB)					
1.4	QPSK	1	0	22.27	22.42	22.30	24	0					
1.4	QPSK	1	8	22.20	22.43	22.25							
1.4	QPSK	1	16	22.30	22.30	22.23							
1.4	QPSK	3	0	21.33	21.38	21.27	23	1					
1.4	QPSK	3	8	21.29	21.34	21.21							
1.4	QPSK	3	16	21.23	21.38	21.23							
1.4	16QAM	1	0	21.20	21.27	21.15	23	1					
1.4	16QAM	1	8	21.24	21.22	21.17							
1.4	16QAM	1	16	21.18	21.18	21.24							
1.4	16QAM	3	0	21.28	21.28	21.17	22	2					
1.4	16QAM	3	8	21.16	21.17	21.15							
1.4	16QAM	3	16	20.29	20.30	20.23							
1.4	16QAM	1	0	20.18	20.34	20.13	22	2					
1.4	16QAM	1	8	20.27	20.28	20.23							
1.4	16QAM	1	16	20.18	20.10	20.26							
1.4	16QAM	3	0	20.35	20.34	20.26	22	2					
1.4	16QAM	3	8	20.30	20.34	20.26							
1.4	16QAM	3	16	20.11	20.09	20.15							
1.4	64QAM	1	0	19.28	19.33	19.21	21	3					
1.4	64QAM	1	8	19.37	19.21	19.21							
1.4	64QAM	1	16	19.27	19.28	19.21							
1.4	256QAM	1	0	17.22	17.27	17.23	19	5					
1.4	256QAM	1	8	17.25	17.24	17.24							
1.4	256QAM	1	16	17.20	17.30	17.13							
1.4	256QAM	3	0	17.20	17.30	17.13							
1.4	256QAM	3	8	17.22	17.23	17.14							
1.4	256QAM	3	16	17.23	17.23	17.15	19	5					

Band 2&other PA Ant 1 EC16														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-on time (ms)	MPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	21.26	21.28	21.15	22.6	0						
20	QPSK	1	48	21.02	21.12	21.05								
20	QPSK	1	96	21.18	21.08	21.02								
20	QPSK	50	0	21.22	21.27	21.21								
20	QPSK	50	24	21.15	21.14	21.18	22.6	0						
20	QPSK	50	50	21.18	21.16	21.05								
20	QPSK	100	0	21.20	21.25	21.20								
20	QPSK	100	0	21.22	21.19	21.12								
20	16QAM	1	48	21.10	21.11	21.15	22.6	0						
20	16QAM	1	96	21.17	21.14	21.11								
20	16QAM	50	0	20.21	20.26	20.23								
20	16QAM	50	24	20.19	20.25	20.27								
20	16QAM	50	50	20.27	20.25	20.27	22	0.6						
20	16QAM	100	0	20.25	20.27	20.25								
20	16QAM	1	0	20.28	20.19	20.21								
20	16QAM	1	48	20.17	20.21	20.16								
20	16QAM	1	96	20.20	20.21	20.15	21	1.6						
20	16QAM	50	0	19.21	19.24	19.30								
20	16QAM	50	24	19.25	19.15	19.21								
20	16QAM	50	50	19.18	19.15	19.16								
20	16QAM	100	0	19.31	19.28	19.30	19	3.6						
20	16QAM	1	48	17.28	17.36	17.32								
20	16QAM	1	99	17.19	17.22	17.05								
20	16QAM	1	99	17.24	17.25	17.19								
20	16QAM	50	24	17.27	17.25	17.19	19	3.6						
20	16QAM	50	24	17.27	17.25	17.19								
20	16QAM	50	50	17.16	17.19	17.17								
20	16QAM	100	0	17.18	17.19	17.14								
Channel														
Frequency (MHz)														
15	QPSK	1	0	19.75	19.80	19.105	22.6	0						
15	QPSK	1	48	20.22	21.23	21.04								
15	QPSK	1	96	20.97	21.06	21.10								
15	QPSK	1	74	21.08	20.96	20.93								
15	QPSK	36	0	21.15	21.20	21.13	22.6	0						
15	QPSK	36	36	21.05	21.08	21.16								
15	QPSK	36	36	21.17	21.14	21.03								
15	QPSK	75	0	21.19	21.17	21.15								
15	16QAM	1	0	21.14	21.11	21.12	22.6	0						
15	16QAM	1	37	21.00	21.02	21.14								
15	16QAM	1	74	21.06	21.07	21.02								
15	16QAM	36	0	20.12	20.37	20.25								
15	16QAM	36	20	20.15	20.24	20.23	22	0.6						
15	16QAM	36	36	20.18	20.25	20.26								
15	16QAM	75	0	20.22	20.27	20.25								
15	16QAM	1	0	20.24	20.15	20.14								
15	16QAM	1	37	20.13	20.15	20.14	22	0.6						
15	16QAM	1	74	20.12	20.15	20.14								
15	16QAM	36	0	19.14	19.22	19.30								
15	16QAM	36	20	19.14	19.22	19.30								
15	16QAM	36	36	19.11	19.13	19.17	21	1.6						
15	16QAM	75	0	19.30	19.26	19.27								
15	16QAM	1	37	17.25	17.18	17.19								
15	16QAM	1	74	17.15	17.18	17.04								
15	16QAM	36	20	17.28	17.26	17.18	19	3.6						
15	16QAM	36	20	17.20	17.24	17.13								
15	16QAM	36	36	17.16	17.18	17.08								
15	16QAM	75	0	17.11	17.12	17.08								
Channel														
Frequency (MHz)														
10	QPSK	1	0	19.65	19.65	19.05	22.6	0						
10	QPSK	1	25	21.01	21.08	21.11								
10	QPSK	1	48	21.15	20.96	20.96								
10	QPSK	1	21	21.04	21.11	21.07								
10	QPSK	25	12	21.08	21.05	21.13	22.6	0						
10	QPSK	25	25	21.10	21.08	21.00								
10	QPSK	100	0	21.08	21.10	21.05								
10	16QAM	1	0	21.10	21.10	21.11								
10	16QAM	1	25	21.06	21.11	21.08	22.6	0						
10	16QAM	1	48	21.08	21.11	21.00								
10	16QAM	25	0	20.14	20.28	20.22								
10	16QAM	25	12	20.19	20.23	20.19								
10	16QAM	50	0	20.18	20.25	20.26	22	0.6						
10	16QAM	50	0	20.20	20.22	20.24								
10	16QAM	1	0	20.19	20.15	20.21								
10	16QAM	1	0	20.12	20.13	20.12								
10	16QAM	1	48	20.16	20.16	20.06	21	1.6						
10	16QAM	25	0	19.21	19.25	19.23								
10	16QAM	25	12	19.18	19.09	19.11								
10	16QAM	25	25	19.15	19.07	19.14								
10	16QAM	50	0	19.22	19.22	19.27	19	3.6						
10	16QAM	1	48	17.23	17.25	17.18								
10	16QAM	1	25	17.23	17.15	17.15								
10	16QAM	1	48	17.15	17.18	17.06								
Channel														
Frequency (MHz)														
5	QPSK	1	0	19.25	19.25	19.15	22.6	0						
5	QPSK	1	12	21.00	21.03	21.14								
5	QPSK	1	24	21.17	20.97	20.95								
5	QPSK	12	0	21.18	21.12	21.16								
5	QPSK	12	7	21.09	21.08	21.05	22.6	0						
5	QPSK	12	13	21.14	21.13	21.03								
5	QPSK	25	0	21.15	21.13	21.16								
5	QPSK	25	0	21.15	21.13	21.16								
5	16QAM	1	0	21.20	21.14	21.04	22.6	0						
5	16QAM	1	12	21.01	21.03	21.08								
5	16QAM	1	24	21.11	21.14	21.08								
5	16QAM	12	0	20.21	20.31	20.19								
5	16QAM	12	7	20.13	20.25	20.19	22	0.6						
5	16QAM	12	13	20.25	20.13	20.03								
5	16QAM	25	0	20.22	20.20	20.23								
5	16QAM	25	0	20.22	20.20	20.23								
5	16QAM	1	0	20.29	20.16	20.13	22	0.6						
5	16QAM	1	12	20.18	20.20	20.11								
5	16QAM	1	24	20.13	20.19	20.12								
5	16QAM	12	0	19.17	19.31	19.25								
5	16QAM	12	7	19.18	19.13	19.19	21	1.6						
5	16QAM	12	13	19.18	19.15	19.13								
5	16QAM	25	0	19.26	19.19	19.28								
5	16QAM	25	0	19.26	19.19	19.28								
5	16QAM	1	0	17.21	17.32	17.19	19	3.6						
5	16QAM	1	12	17.21	17.12	17.12								
5	16QAM	1	24	17.20	17.19	17.02								
5	16QAM	12	9	17.23	17.17	17.22	19	3.6						
5	16QAM	12	9	17.27	17.17	17.17								
5	16QAM	12	13	17.10	17.13	17.15								
5	16QAM	25	0	17.17	17.06	17.06								
Channel														
Frequency (MHz)														
3	QPSK	1	0	21.21	21.27	21.06	22.6	0						
3	QPSK	1	12	21.06	21.02	21.09								
3	QPSK	1	24	21.08	20.96	20.97								
3	QPSK	8	0	21.20	21.26	21.19								
3	QPSK	8	4	21.08	21.04	21.16	22.6	0						
3	QPSK	8	4	21.16	21.08	21.04								
3	QPSK	15	0	21.13	21.17	21.18								
3	QPSK	15	0	21.12	21.17	21.18								
3	16QAM	1	0	21.09	21.08	21.09	22.6	0						
3	16QAM	1	14	21.08	21.07	21.08								
3	16QAM	1	28	21.21	21.17	21.17								
3	16QAM	8	0	20.12	20.20	20.19								
3	16QAM	8	7	20.19	20.21	20.03	22	0.6						
3	16QAM	15	0	20.35	20.23	20.25								
3	16QAM	1	0	20.28	20.12	20.14								
3	16QAM	1	8	20.07	20.21	20.08								
3	16QAM	15	0	19.18	19.13	19.20	21	1.6						
3	16QAM	8	4	19.16	19.15	19.11								
3	16QAM	8	4	19.13	19.13	19.13								
3	16QAM	8	4	19.23	19.21	19.29								
3	16QAM	1	0	17.22	17.28	17.16	19	3.6						
3	16QAM	1	8	17.25	17.23	17.13								
3	16QAM	1	14	17.17	17.20	17.09								
3	16QAM	8	7	17.10	17.13	17.12	19	3.6						
3	16QAM	8	7	17.12	17.13	17.12								
3	16QAM	15	0	17.16	17.06	17.07								
3	16QAM	15	0	17.14	17.12	17.09								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	21.24	21.24	21.12	22.6	0						
1.4	QPSK	1	48	21.07	21.06	21.07								
1.4	QPSK	1	96	21.16	20.96	20.91								
1.4	QPSK	3	0	21.25	21.20	21.15								
1.4	QPSK	3	3	21.21	21.19	21.14	22.6	0						
1.4	QPSK	3	3	21.16	20.96	20.91								
1.4	QPSK	3	3	21.21	21.22	21.11								
1.4	QPSK	6	0	21.22	21.22	21.11								
1.4	16QAM	1	0	21.11	21.11	21.12	22.6	0						
1.4	16QAM	1	3	21.27	21.19	21.17								
1.4	16QAM	3	3	21.08	21.12	21.04								
1.4	16QAM	3	3	21.15	20.95	20.91								
1.4	16QAM	3	3	21.27	21.17	21.00	22	0.6						
1.4	16QAM	6	0	20.24	20.08	20.14								
1.4	16QAM	3	3	20.07	20.11	20.11								
1.4	16QAM	3	3	20.21	20.20	20.11								
1.4	16QAM	6	0	20.28	20.19	20.24	22	0.6						
1.4	16QAM	6	0	20.19	20.19	20.16								
1.4	16QAM	3	3	20.10	20.13	20.12								
1.4	16QAM	6	0	20.29	19.15	19.30								
1.4	16QAM	6	0	19.15	19.15	19.15	21	1.6						
1.4	16QAM	6	0	19.17	19.13	19.11								
1.4	16QAM	6	0	19.20	19.19	19.20								
1.4	16QAM	6	0											

Band 25 Ant 1 EC16														
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up (mW)	MPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	21.27	21.27	21.28	22.6	0						
20	QPSK	1	49	21.16	21.27	21.22								
20	QPSK	1	99	21.06	21.17	21.12								
20	QPSK	50	0	21.25	21.30	21.22								
20	QPSK	50	24	21.24	21.19	21.28	22.6	0						
20	QPSK	50	50	21.27	21.18	21.10								
20	QPSK	100	0	21.28	21.30	21.21								
20	16QAM	1	0	21.28	21.29	21.28								
20	16QAM	1	49	21.12	21.10	21.20	22.6	0						
20	16QAM	1	99	21.18	21.26	21.21								
20	16QAM	50	0	20.27	20.30	20.33								
20	16QAM	50	24	20.25	20.29	20.33								
20	16QAM	50	50	20.28	20.31	20.16	22	0.6						
20	16QAM	100	0	20.35	20.37	20.34								
20	64QAM	1	0	20.31	20.29	20.28								
20	64QAM	1	49	20.27	20.25	20.19								
20	64QAM	1	99	20.28	20.34	20.28	22	0.6						
20	64QAM	50	0	19.31	19.27	19.30								
20	64QAM	50	24	19.29	19.26	19.27								
20	64QAM	50	50	19.28	19.30	19.17								
20	256QAM	1	49	17.37	17.41	17.29	19	3.6						
20	256QAM	1	99	17.22	17.30	17.13								
20	256QAM	50	0	17.33	17.30	17.28								
20	256QAM	50	24	17.33	17.30	17.28								
20	256QAM	50	50	17.27	17.30	17.28	19	3.6						
20	256QAM	100	0	17.19	17.16	17.19								
Channel														
Frequency (MHz)														
15	QPSK	1	0	18.15	18.00	18.07.5	22.6	0						
15	QPSK	1	37	21.15	21.30	21.18								
15	QPSK	1	74	21.12	21.11	21.12								
15	QPSK	36	0	21.14	21.31	21.12								
15	QPSK	36	24	21.14	21.11	21.29	22.6	0						
15	QPSK	36	39	21.25	21.09	21.02								
15	QPSK	75	0	21.19	21.18	21.17								
15	16QAM	1	0	21.15	21.16	21.04								
15	16QAM	1	37	21.04	21.09	21.11	22.6	0						
15	16QAM	1	74	21.04	21.11	21.09								
15	16QAM	36	0	20.20	20.34	20.24								
15	16QAM	36	24	20.16	20.34	20.24								
15	16QAM	36	39	20.23	20.29	20.28	22	0.6						
15	16QAM	75	0	20.33	20.34	20.28								
15	64QAM	1	0	20.22	20.20	20.18								
15	64QAM	1	37	20.15	20.24	20.28								
15	64QAM	1	74	20.23	20.25	20.25	21	1.6						
15	64QAM	36	0	19.18	19.30	19.26								
15	64QAM	36	24	19.20	19.29	19.24								
15	64QAM	36	39	19.22	19.05	19.09								
15	64QAM	75	0	19.27	19.31	19.21	19	3.6						
15	256QAM	1	37	17.29	17.31	17.13								
15	256QAM	1	74	17.11	17.26	17.01								
15	256QAM	36	0	17.32	17.28	17.21								
15	256QAM	36	24	17.28	17.19	17.23	19	3.6						
15	256QAM	36	39	17.16	17.28	17.15								
15	256QAM	75	0	17.65	17.11	17.12								
Channel														
Frequency (MHz)														
10	QPSK	1	0	21.25	21.27	21.12			22.6	0				
10	QPSK	1	25	21.10	21.13	21.10								
10	QPSK	1	49	21.12	21.08	21.11								
10	QPSK	25	0	21.23	21.24	21.09								
10	QPSK	25	12	21.14	21.13	21.18	22.6	0						
10	QPSK	25	19	21.15	21.08	21.06								
10	QPSK	50	0	21.19	21.22	21.14								
10	16QAM	1	0	21.18	21.09	21.05								
10	16QAM	1	25	21.02	21.05	21.09	22.6	0						
10	16QAM	1	49	21.12	21.08	21.11								
10	16QAM	25	0	20.21	20.30	20.28								
10	16QAM	25	12	20.13	20.23	20.28								
10	16QAM	50	0	20.22	20.32	20.28	22	0.6						
10	16QAM	50	12	20.26	20.31	20.30								
10	64QAM	1	0	20.28	20.19	20.18								
10	64QAM	1	25	20.15	20.15	20.28								
10	64QAM	1	49	20.25	20.30	20.25	21	1.6						
10	64QAM	25	0	19.18	19.24	19.18								
10	64QAM	25	12	19.25	19.16	19.18								
10	64QAM	25	19	19.14	19.10	19.13								
10	64QAM	50	0	19.27	19.25	19.29	19	3.6						
10	256QAM	1	49	17.13	17.20	17.11								
10	256QAM	1	25	17.23	17.16	17.07								
10	256QAM	1	49	17.11	17.20	17.01								
10	256QAM	25	0	17.21	17.27	17.21	19	3.6						
10	256QAM	25	12	17.26	17.28	17.21								
10	256QAM	25	19	17.24	17.21	17.18								
10	256QAM	50	0	17.14	17.13	17.07								
Channel														
Frequency (MHz)														
5	QPSK	1	0	21.26	21.26	21.25	22.6	0						
5	QPSK	1	12	21.09	21.16	21.20								
5	QPSK	1	24	21.12	21.15	21.04								
5	QPSK	12	0	21.20	21.20	21.16								
5	QPSK	12	7	21.17	21.10	21.23	22.6	0						
5	QPSK	12	13	21.13	21.13	21.08								
5	QPSK	25	0	21.22	21.21	21.07								
5	16QAM	1	0	21.24	21.08	21.12								
5	16QAM	1	12	21.05	21.08	21.18	22.6	0						
5	16QAM	1	24	21.14	21.22	21.17								
5	16QAM	12	0	20.18	20.38	20.29								
5	16QAM	12	7	20.13	20.20	20.26								
5	16QAM	12	14	20.25	20.21	20.07	22	0.6						
5	16QAM	25	0	20.21	20.29	20.24								
5	64QAM	1	0	20.28	20.20	20.16								
5	64QAM	1	12	20.22	20.25	20.12								
5	64QAM	1	24	20.23	20.23	20.18	21	1.6						
5	64QAM	12	0	19.19	19.26	19.26								
5	64QAM	12	7	19.20	19.26	19.27								
5	64QAM	12	14	19.24	19.17	19.24								
5	64QAM	25	0	19.23	19.27	19.21	19	3.6						
5	256QAM	1	1	17.16	17.15	17.15								
5	256QAM	1	12	17.23	17.18	17.18								
5	256QAM	1	24	17.12	17.30	17.08								
5	256QAM	12	0	17.20	17.22	17.22	19	3.6						
5	256QAM	12	7	17.25	17.28	17.21								
5	256QAM	12	13	17.23	17.21	17.18								
5	256QAM	25	0	17.14	17.12	17.11								
Channel														
Frequency (MHz)														
3	QPSK	1	0	21.19	21.20	21.21	22.6	0						
3	QPSK	1	12	21.12	21.21	21.15								
3	QPSK	1	24	21.15	21.18	21.12								
3	QPSK	1	36	21.12	21.11	21.11								
3	QPSK	3	0	21.21	21.27	21.21	22.6	0						
3	QPSK	3	12	21.11	21.22	21.20								
3	QPSK	3	24	21.17	21.09	21.03								
3	QPSK	36	0	21.15	21.30	21.18								
3	16QAM	1	0	21.19	21.17	21.06	22.6	0						
3	16QAM	1	12	21.08	21.17	21.18								
3	16QAM	1	24	21.11	21.22	21.17								
3	16QAM	3	0	20.21	20.30	20.21								
3	16QAM	3	12	20.19	20.39	20.30	22	0.6						
3	16QAM	3	24	20.18	20.28	20.28								
3	16QAM	36	0	19.23	19.30	19.17								
3	64QAM	1	0	19.23	19.22	19.23								
3	64QAM	1	12	19.23	19.22	19.23	21	1.6						
3	64QAM	1	24	19.23	19.22	19.23								
3	64QAM	3	0	18.26	18.32	18.29								
3	64QAM	3	12	18.29	18.27	18.27								
3	64QAM	3	24	18.29	18.27	18.27	19	3.6						
3	256QAM	1	0	17.23	17.21	17.21								
3	256QAM	1	12	17.25	17.22	17.21								
3	256QAM	1	24	17.12	17.25	17.11								
3	256QAM	3	0	17.20	17.25	17.25	19	3.6						
3	256QAM	3	12	17.23	17.22	17.22								
3	256QAM	3	24	17.22	17.20	17.20								
3	256QAM	36	0	17.19	17.20	17.17								
3	256QAM	36	12	17.21	17.18	17.24								
3	256QAM	36	24	17.20	17.17	17.17								
3	256QAM	36	36	17.17	17.17	17.17								
3	256QAM	36	48	17.21	17.19	17.23								



Band 2&other PA Ant 4 EC16												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turnup rate (dB)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	17.74	17.68	17.76			10	0		
20	QPSK	1	8	17.74	17.68	17.76						
20	QPSK	1	99	17.65	17.63	17.62			10	0		
20	QPSK	50	0	17.71	17.67	17.79						
20	QPSK	50	24	17.63	17.65	17.68			10	0		
20	QPSK	50	50	17.68	17.76	17.68						
20	16QAM	1	49	17.62	17.76	17.49			10	0		
20	16QAM	1	99	17.65	17.71	17.62						
20	16QAM	50	0	17.73	17.79	17.65			10	0		
20	16QAM	50	24	17.59	17.79	17.60						
20	16QAM	50	50	17.64	17.71	17.72			10	0		
20	16QAM	100	0	17.61	17.79	17.63						
20	64QAM	1	0	17.62	17.77	17.66			10	0		
20	64QAM	1	49	17.64	17.62	17.58						
20	64QAM	50	0	17.65	17.62	17.49			10	0		
20	64QAM	50	24	17.64	17.79	17.57						
20	64QAM	50	50	17.70	17.79	17.68			10	0		
20	64QAM	100	0	17.63	17.65	17.69						
20	256QAM	1	49	16.38	16.40	16.39			18	1		
20	256QAM	1	99	16.28	16.34	16.27						
20	256QAM	50	24	16.30	16.31	16.30			18	1		
20	256QAM	50	50	16.34	16.29	16.29						
20	256QAM	100	0	16.16	16.26	16.16			18	1		
20	256QAM	100	0	16.17	16.25	16.17						
Channel												
Frequency (MHz)												
15	QPSK	1	0	17.68	17.68	17.76			10	0		
15	QPSK	1	37	17.53	17.63	17.66						
15	QPSK	1	74	17.58	17.72	17.68			10	0		
15	QPSK	36	0	17.59	17.62	17.77						
15	QPSK	36	20	17.65	17.63	17.66			10	0		
15	QPSK	36	50	17.59	17.73	17.64						
15	16QAM	1	37	17.58	17.68	17.61			10	0		
15	16QAM	1	74	17.55	17.55	17.49						
15	16QAM	36	0	17.63	17.65	17.72			10	0		
15	16QAM	36	20	17.63	17.71	17.67						
15	16QAM	36	50	17.75	17.75	17.67			10	0		
15	64QAM	1	0	17.58	17.67	17.64						
15	64QAM	1	37	17.58	17.67	17.64			10	0		
15	64QAM	1	74	17.55	17.55	17.49						
15	64QAM	36	0	17.63	17.65	17.72			10	0		
15	64QAM	36	20	17.63	17.71	17.67						
15	64QAM	36	50	17.75	17.75	17.67			10	0		
15	64QAM	75	0	17.58	17.67	17.64						
15	64QAM	75	0	17.58	17.67	17.64			10	0		
15	256QAM	1	37	16.33	16.35	16.30						
15	256QAM	1	74	16.22	16.35	16.24			18	1		
15	256QAM	36	20	16.36	16.37	16.36						
15	256QAM	36	50	16.31	16.32	16.31			18	1		
15	256QAM	75	0	16.30	16.30	16.30						
Channel												
Frequency (MHz)												
10	QPSK	1	0	17.62	17.60	17.73			10	0		
10	QPSK	1	25	17.53	17.63	17.66						
10	QPSK	1	49	17.63	17.71	17.67			10	0		
10	QPSK	50	0	17.63	17.63	17.76						
10	QPSK	25	12	17.63	17.74	17.66			10	0		
10	QPSK	25	25	17.62	17.72	17.61						
10	QPSK	50	0	17.63	17.69	17.73			10	0		
10	16QAM	1	0	17.70	17.62	17.79						
10	16QAM	1	25	17.48	17.73	17.49			10	0		
10	16QAM	1	49	17.63	17.67	17.64						
10	16QAM	25	0	17.67	17.73	17.64			10	0		
10	16QAM	25	12	17.57	17.74	17.50						
10	16QAM	25	25	17.64	17.66	17.71			10	0		
10	16QAM	50	0	17.79	17.77	17.68						
10	64QAM	1	0	17.61	17.76	17.67			10	0		
10	64QAM	1	25	17.58	17.65	17.68						
10	64QAM	1	49	17.61	17.55	17.48			10	0		
10	64QAM	25	0	17.65	17.65	17.70						
10	64QAM	25	12	17.64	17.73	17.66			10	0		
10	64QAM	25	25	17.66	17.68	17.58						
10	64QAM	50	0	17.79	17.65	17.61			18	1		
10	256QAM	1	25	16.32	16.26	16.17						
10	256QAM	1	49	16.36	16.29	16.20			18	1		
10	256QAM	25	12	16.30	16.31	16.30						
10	256QAM	25	25	16.30	16.32	16.31			18	1		
10	256QAM	50	0	16.30	16.30	16.30						
Channel												
Frequency (MHz)												
5	QPSK	1	0	17.67	17.63	17.73			10	0		
5	QPSK	1	8	17.55	17.66	17.60						
5	QPSK	1	14	17.58	17.79	17.58			10	0		
5	QPSK	8	17.66	17.64	17.64							
5	QPSK	8	4	17.54	17.63	17.67			10	0		
5	QPSK	8	7	17.66	17.73	17.66						
5	QPSK	12	7	17.73	17.72	17.64			10	0		
5	16QAM	1	0	17.71	17.69	17.80						
5	16QAM	1	8	17.61	17.72	17.59			10	0		
5	16QAM	1	14	17.60	17.61	17.60						
5	16QAM	8	4	17.68	17.68	17.60			10	0		
5	16QAM	8	7	17.60	17.62	17.61						
5	16QAM	16	0	17.72	17.74	17.60			10	0		
5	64QAM	1	0	17.67	17.66	17.60						
5	64QAM	1	8	17.60	17.63	17.49			10	0		
5	64QAM	1	14	17.60	17.64	17.79						
5	64QAM	8	4	17.62	17.64	17.36			18	1		
5	256QAM	1	0	16.36	16.29	16.26						
5	256QAM	1	8	16.34	16.13	16.14			18	1		
5	256QAM	8	4	16.29	16.27	16.30						
5	256QAM	8	7	16.23	16.29	16.36			18	1		
5	256QAM	8	14	16.26	16.31	16.16						
5	256QAM	16	0	16.27	16.28	16.30			18	1		
5	256QAM	16	8	16.16	16.17	16.16						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	17.59	17.66	17.69			10	0		
1.4	QPSK	1	3	17.52	17.66	17.67						
1.4	QPSK	3	0	17.59	17.77	17.61			10	0		
1.4	QPSK	3	17.66	17.66	17.63							
1.4	QPSK	3	1	17.53	17.60	17.56			10	0		
1.4	QPSK	3	17.67	17.70	17.67							
1.4	16QAM	1	0	17.71	17.79	17.67			10	0		
1.4	16QAM	1	3	17.61	17.72	17.59						
1.4	16QAM	3	0	17.60	17.61	17.60			10	0		
1.4	16QAM	3	17.60	17.62	17.61							
1.4	16QAM	6	0	17.72	17.74	17.60			10	0		
1.4	16QAM	6	3	17.60	17.62	17.61						
1.4	16QAM	12	0	17.72	17.74	17.60			10	0		
1.4	16QAM	12	3	17.65	17.62	17.58						

Band 12 Ant 4 ECI6														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Tune-up Unit (dB)	MPE (dB)						
Channel														
Frequency (MHz)														
10	QPSK	1	0	22.47	22.43	22.48	24	0						
10	QPSK	1	25	22.44	22.48	22.44								
10	QPSK	1	49	22.44	22.43	22.44								
10	QPSK	25	0	21.45	21.50	21.45								
10	QPSK	25	12	21.38	21.48	21.43	23	1						
10	QPSK	25	25	21.40	21.42	21.48								
10	QPSK	50	0	21.46	21.46	21.43								
10	16QAM	1	0	21.45	21.45	21.46								
10	16QAM	1	25	21.28	21.45	21.35	23	1						
10	16QAM	1	49	21.40	21.37	21.38								
10	16QAM	25	0	20.49	20.44	20.49								
10	16QAM	25	12	20.34	20.52	20.37								
10	16QAM	25	25	20.46	20.36	20.46	22	2						
10	16QAM	50	0	20.44	20.27	20.37								
10	64QAM	1	0	20.47	20.45	20.48								
10	64QAM	1	25	20.31	20.41	20.32								
10	64QAM	1	49	20.44	20.37	20.43	22	2						
10	64QAM	25	0	19.48	19.55	19.41								
10	64QAM	25	12	19.35	19.46	19.45								
10	64QAM	25	25	19.38	19.43	19.32								
10	64QAM	50	0	19.47	19.50	19.39	21	3						
10	256QAM	1	0	17.46	17.47	17.46								
10	256QAM	1	25	17.43	17.45	17.46								
10	256QAM	1	49	17.40	17.40	17.42								
10	256QAM	25	0	17.40	17.41	17.43	19	5						
10	256QAM	25	12	17.47	17.47	17.49								
10	256QAM	25	25	17.24	17.47	17.35								
10	256QAM	50	0	17.20	17.31	17.32								
Channel														
Frequency (MHz)														
5	QPSK	1	0	22.38	22.40	22.40	24	0						
5	QPSK	1	12	22.36	22.46	22.37								
5	QPSK	1	24	22.36	22.42	22.42								
5	QPSK	12	0	21.39	21.47	21.45								
5	QPSK	12	7	21.29	21.45	21.40	23	1						
5	QPSK	12	13	21.31	21.43	21.38								
5	QPSK	25	0	21.45	21.39	21.41								
5	16QAM	1	0	21.40	21.35	21.45								
5	16QAM	1	12	21.22	21.35	21.34	23	1						
5	16QAM	1	24	21.31	21.32	21.36								
5	16QAM	12	0	20.47	20.36	20.42								
5	16QAM	12	7	20.24	20.49	20.29								
5	16QAM	12	13	20.37	20.35	20.37	22	2						
5	16QAM	25	0	20.40	20.39	20.35								
5	64QAM	1	0	20.38	20.42	20.49								
5	64QAM	1	12	20.33	20.39	20.35								
5	64QAM	1	24	20.40	20.35	20.35	21	3						
5	64QAM	12	0	19.45	19.46	19.32								
5	64QAM	12	7	19.40	19.51	19.44								
5	64QAM	12	13	19.38	19.35	19.43								
5	64QAM	25	0	19.38	19.48	19.31	19	5						
5	256QAM	1	0	17.37	17.43	17.31								
5	256QAM	1	12	17.34	17.41	17.40								
5	256QAM	1	24	17.41	17.32	17.36								
5	256QAM	12	0	17.44	17.50	17.33	19	5						
5	256QAM	12	7	17.40	17.41	17.42								
5	256QAM	12	13	17.13	17.38	17.36								
5	256QAM	25	0	17.33	17.34	17.34								
Channel														
Frequency (MHz)														
3	QPSK	1	0	22.43	22.48	22.42	24	0						
3	QPSK	1	8	22.37	22.35	22.39								
3	QPSK	1	14	22.37	22.41	22.34								
3	QPSK	8	0	21.37	21.59	21.44								
3	QPSK	8	4	21.33	21.39	21.41	23	1						
3	QPSK	8	7	21.31	21.38	21.38								
3	16QAM	1	0	21.43	21.45	21.44								
3	16QAM	1	0	21.35	21.40	21.40								
3	16QAM	1	8	21.28	21.42	21.25	23	1						
3	16QAM	8	0	20.49	20.41	20.49								
3	16QAM	8	4	20.26	20.43	20.34								
3	16QAM	8	7	20.43	20.36	20.46								
3	64QAM	1	0	20.39	20.46	20.29	22	2						
3	64QAM	1	0	20.45	20.40	20.39								
3	64QAM	1	8	20.32	20.38	20.33								
3	64QAM	1	14	20.35	20.29	20.42								
3	64QAM	8	0	19.47	19.45	19.36	21	3						
3	64QAM	8	4	19.20	19.36	19.36								
3	64QAM	8	7	19.38	19.43	19.41								
3	64QAM	15	0	19.36	19.39	19.34								
3	256QAM	1	0	17.47	17.32	17.33	19	5						
3	256QAM	1	8	17.33	17.39	17.42								
3	256QAM	1	14	17.41	17.35	17.40								
3	256QAM	8	0	17.40	17.45	17.36								
3	256QAM	8	4	17.47	17.38	17.36	19	5						
3	256QAM	8	7	17.17	17.45	17.29								
3	256QAM	15	0	17.26	17.33	17.36								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	22.41	22.44	22.39	24	0						
1.4	QPSK	1	3	22.35	22.36	22.38								
1.4	QPSK	1	5	22.41	22.40	22.45								
1.4	QPSK	3	0	22.35	22.37	22.29								
1.4	QPSK	3	1	22.28	22.33	22.30	23	1						
1.4	QPSK	3	3	22.31	22.41	22.35								
1.4	QPSK	8	0	21.37	21.39	21.37								
1.4	16QAM	1	0	21.35	21.38	21.43								
1.4	16QAM	1	3	21.19	21.40	21.32	23	1						
1.4	16QAM	1	5	21.40	21.27	21.27								
1.4	16QAM	3	0	21.28	21.34	21.29								
1.4	16QAM	3	1	21.24	21.28	21.36								
1.4	16QAM	15	0	21.10	21.36	21.26	22	2						
1.4	16QAM	6	0	20.42	20.46	20.32								
1.4	64QAM	1	0	20.44	20.42	20.40								
1.4	64QAM	1	3	20.29	20.37	20.29								
1.4	64QAM	1	5	20.33	20.35	20.36	22	2						
1.4	64QAM	3	0	20.37	20.44	20.27								
1.4	64QAM	3	1	20.42	20.40	20.40								
1.4	64QAM	3	3	20.23	20.35	20.26								
1.4	64QAM	6	0	19.44	19.50	19.31	21	3						
1.4	256QAM	1	0	17.40	17.44	17.41								
1.4	256QAM	1	3	17.34	17.37	17.39								
1.4	256QAM	1	5	17.40	17.37	17.37								
1.4	256QAM	3	0	17.50	17.40	17.42	19	5						
1.4	256QAM	3	1	17.37	17.40	17.40								
1.4	256QAM	3	3	17.25	17.36	17.35								
1.4	256QAM	6	0	17.36	17.37	17.36								



Band 25 Ant 4 ECI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turnup time (sec)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	17.84	17.84	17.87			
20	QPSK	1	49	17.65	17.79	17.81	19	0	
20	QPSK	1	99	17.80	17.85	17.75			
20	QPSK	50	0	17.91	17.92	17.90			
20	QPSK	50	24	17.80	17.89	17.74	19	0	
20	QPSK	50	50	17.79	17.77	17.79			
20	QPSK	100	0	17.86	17.91	17.87			
20	16QAM	1	0	17.77	17.80	17.78			
20	16QAM	1	49	17.77	17.82	17.85	19	0	
20	16QAM	1	99	17.68	17.77	17.65			
20	16QAM	50	0	17.80	17.80	17.80			
20	16QAM	50	24	17.82	17.87	17.70	19	0	
20	16QAM	50	50	17.75	17.87	17.82			
20	16QAM	100	0	17.80	17.80	17.75			
20	64QAM	1	0	17.73	17.90	17.77			
20	64QAM	1	49	17.80	17.81	17.86	19	0	
20	64QAM	1	99	17.78	17.81	17.80			
20	64QAM	50	0	17.80	17.84	17.80			
20	64QAM	50	24	17.80	17.85	17.70	19	0	
20	64QAM	50	50	17.80	17.80	17.79			
20	256QAM	1	0	16.45	16.35	16.35	18	1	
20	256QAM	1	49	16.45	16.42	16.47			
20	256QAM	1	99	16.30	16.43	16.33			
20	256QAM	50	0	16.30	16.43	16.33			
20	256QAM	50	24	16.47	16.42	16.43	18	1	
20	256QAM	50	50	16.26	16.39	16.32			
20	256QAM	100	0	16.37	16.37	16.37			
Channel									
Frequency (MHz)									
16	QPSK	1	0	18.07	18.00	18.07			
15	QPSK	1	37	17.89	17.88	17.72	19	0	
15	QPSK	1	74	17.80	17.85	17.70			
15	QPSK	36	0	17.80	17.85	17.86			
15	QPSK	36	25	17.69	17.81	17.79	19	0	
15	QPSK	36	39	17.68	17.70	17.76			
15	QPSK	75	0	17.75	17.80	17.77			
15	16QAM	1	0	17.68	17.84	17.84			
15	16QAM	1	37	17.76	17.77	17.59	19	0	
15	16QAM	1	74	17.63	17.67	17.63			
15	16QAM	36	0	17.78	17.82	17.71			
15	16QAM	36	25	17.70	17.83	17.70	19	0	
15	16QAM	36	39	17.61	17.67	17.67			
15	16QAM	75	0	17.71	17.77	17.68			
15	64QAM	1	0	17.69	17.86	17.74	19	0	
15	64QAM	1	37	17.71	17.77	17.68			
15	64QAM	1	74	17.77	17.75	17.57			
15	64QAM	36	0	17.74	17.80	17.69	19	0	
15	64QAM	36	25	17.65	17.83	17.64			
15	64QAM	36	39	17.76	17.75	17.59			
15	64QAM	75	0	17.79	17.87	17.81			
15	256QAM	1	0	16.36	16.46	16.36	18	1	
15	256QAM	1	37	16.46	16.36	16.30			
15	256QAM	1	74	16.32	16.43	16.31			
15	256QAM	50	0	16.32	16.43	16.31			
15	256QAM	50	24	16.42	16.41	16.40	18	1	
15	256QAM	50	39	16.19	16.38	16.23			
15	256QAM	75	0	16.34	16.34	16.34			
Channel									
Frequency (MHz)									
16	QPSK	1	0	18.07	18.00	18.07			
15	QPSK	1	37	17.89	17.88	17.72	19	0	
15	QPSK	1	74	17.80	17.85	17.70			
15	QPSK	36	0	17.80	17.85	17.86			
15	QPSK	36	25	17.69	17.81	17.79	19	0	
15	QPSK	36	39	17.68	17.70	17.76			
15	QPSK	75	0	17.75	17.80	17.77			
15	16QAM	1	0	17.68	17.84	17.84			
15	16QAM	1	37	17.76	17.77	17.59	19	0	
15	16QAM	1	74	17.63	17.67	17.63			
15	16QAM	36	0	17.78	17.82	17.71			
15	16QAM	36	25	17.70	17.83	17.70	19	0	
15	16QAM	36	39	17.61	17.67	17.67			
15	16QAM	75	0	17.71	17.77	17.68			
15	64QAM	1	0	17.69	17.86	17.74	19	0	
15	64QAM	1	37	17.71	17.77	17.68			
15	64QAM	1	74	17.77	17.75	17.57			
15	64QAM	36	0	17.74	17.80	17.69	19	0	
15	64QAM	36	25	17.65	17.83	17.64			
15	64QAM	36	39	17.76	17.75	17.59			
15	64QAM	75	0	17.79	17.87	17.81			
15	256QAM	1	0	16.36	16.46	16.36	18	1	
15	256QAM	1	37	16.46	16.36	16.30			
15	256QAM	1	74	16.32	16.43	16.31			
15	256QAM	50	0	16.32	16.43	16.31			
15	256QAM	50	24	16.42	16.41	16.40	18	1	
15	256QAM	50	39	16.19	16.38	16.23			
15	256QAM	75	0	16.34	16.34	16.34			
Channel									
Frequency (MHz)									
16	QPSK	1	0	18.07	18.00	18.07			
15	QPSK	1	37	17.89	17.88	17.72	19	0	
15	QPSK	1	74	17.80	17.85	17.70			
15	QPSK	36	0	17.80	17.85	17.86			
15	QPSK	36	25	17.69	17.81	17.79	19	0	
15	QPSK	36	39	17.68	17.70	17.76			
15	QPSK	75	0	17.75	17.80	17.77			
15	16QAM	1	0	17.68	17.84	17.84			
15	16QAM	1	37	17.76	17.77	17.59	19	0	
15	16QAM	1	74	17.63	17.67	17.63			
15	16QAM	36	0	17.78	17.82	17.71			
15	16QAM	36	25	17.70	17.83	17.70	19	0	
15	16QAM	36	39	17.61	17.67	17.67			
15	16QAM	75	0	17.71	17.77	17.68			
15	64QAM	1	0	17.69	17.86	17.74	19	0	
15	64QAM	1	37	17.71	17.77	17.68			
15	64QAM	1	74	17.77	17.75	17.57			
15	64QAM	36	0	17.74	17.80	17.69	19	0	
15	64QAM	36	25	17.65	17.83	17.64			
15	64QAM	36	39	17.76	17.75	17.59			
15	64QAM	75	0	17.79	17.87	17.81			
15	256QAM	1	0	16.36	16.46	16.36	18	1	
15	256QAM	1	37	16.46	16.36	16.30			
15	256QAM	1	74	16.32	16.43	16.31			
15	256QAM	50	0	16.32	16.43	16.31			
15	256QAM	50	24	16.42	16.41	16.40	18	1	
15	256QAM	50	39	16.19	16.38	16.23			
15	256QAM	75	0	16.34	16.34	16.34			



Band 38&other PA Ant 1 ECI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)				37850	38050	38150			
20	QPSK	1	0	20.98	21.04	20.96	22.3	0	
20	QPSK	1	48	20.97	21.00	20.91			
20	QPSK	1	88	20.98	20.92	20.96			
20	QPSK	50	0	20.98	21.03	20.92	22.3	0	
20	QPSK	50	24	21.01	21.02	20.91			
20	QPSK	50	48	20.94	20.92	20.96			
20	QPSK	100	0	20.99	21.01	20.98	22.3	0	
20	QPSK	100	1	20.94	21.03	20.76			
20	QPSK	100	1	20.94	20.93	20.97			
20	QPSK	50	24	20.48	20.43	20.32	22	0.3	
20	QPSK	50	48	20.48	20.43	20.37			
20	QPSK	50	50	20.49	20.39	20.34			
20	QPSK	100	0	20.36	20.42	20.27	22	0.3	
20	QPSK	100	1	20.32	20.33	20.31			
20	QPSK	100	1	20.46	20.33	20.35			
20	QPSK	50	0	19.36	19.47	19.33	21	1.3	
20	QPSK	50	50	19.46	19.33	19.37			
20	QPSK	50	50	19.46	19.31	19.35			
20	QPSK	100	0	19.26	19.47	19.37	19	3.3	
20	QPSK	100	1	17.33	17.42	17.32			
20	QPSK	100	1	17.46	17.33	17.38			
20	QPSK	50	0	17.36	17.31	17.30	19	3.3	
20	QPSK	50	0	17.43	17.37	17.36			
20	QPSK	50	24	17.33	17.29	17.27			
20	QPSK	50	50	17.37	17.25	17.27	19	3.3	
20	QPSK	50	50	17.37	17.25	17.27			
20	QPSK	100	0	17.30	17.32	17.29			
20	QPSK	100	0	17.30	17.32	17.29			
Channel									
Frequency (MHz)				37850	38050	38150	Tune-up limit (dBm)	MFR (dB)	
15	QPSK	1	0	20.97	20.94	20.92	22.3	0	
15	QPSK	1	37	20.96	20.96	20.86			
15	QPSK	1	74	20.79	20.82	20.88			
15	QPSK	36	0	20.85	21.00	20.84	22.3	0	
15	QPSK	36	20	20.98	20.94	20.88			
15	QPSK	36	36	20.99	20.89	20.78			
15	QPSK	75	0	20.99	20.89	20.78	22.3	0	
15	QPSK	75	0	20.99	20.89	20.78			
15	QPSK	75	0	20.99	20.89	20.78			
15	QPSK	1	0	20.78	20.58	20.68	22.3	0	
15	QPSK	1	74	20.93	20.62	20.68			
15	QPSK	1	74	20.93	20.62	20.68			
15	QPSK	36	0	20.38	20.38	20.23	22	0.3	
15	QPSK	36	36	20.35	20.34	20.29			
15	QPSK	36	36	20.35	20.34	20.29			
15	QPSK	75	0	20.29	20.36	20.22	22	0.3	
15	QPSK	75	0	20.27	20.32	20.22			
15	QPSK	75	0	20.27	20.32	20.22			
15	QPSK	1	37	20.36	20.29	20.23	21	1.3	
15	QPSK	1	74	20.26	20.13	20.23			
15	QPSK	1	74	20.26	20.13	20.23			
15	QPSK	36	0	19.33	19.37	19.34	19	3.3	
15	QPSK	36	20	19.46	19.31	19.28			
15	QPSK	36	36	19.32	19.46	19.27			
15	QPSK	75	0	19.15	19.43	19.23	19	3.3	
15	QPSK	75	0	17.42	17.40	17.28			
15	QPSK	75	0	17.42	17.40	17.28			
15	QPSK	1	74	17.30	17.32	17.27	19	3.3	
15	QPSK	1	74	17.30	17.32	17.27			
15	QPSK	1	74	17.30	17.32	17.27			
15	QPSK	36	36	17.37	17.32	17.36	19	3.3	
15	QPSK	36	36	17.37	17.32	17.36			
15	QPSK	36	36	17.37	17.32	17.36			
15	QPSK	75	0	17.42	17.37	17.15	19	3.3	
15	QPSK	75	0	17.42	17.37	17.15			
15	QPSK	75	0	17.42	17.37	17.15			
15	QPSK	75	0	17.42	17.37	17.15			
Channel									
Frequency (MHz)				37850	38050	38150	Tune-up limit (dBm)	MFR (dB)	
5	QPSK	1	0	20.87	20.99	20.84	22.3	0	
5	QPSK	1	25	20.93	20.96	20.82			
5	QPSK	1	48	20.94	20.81	20.88			
5	QPSK	12	0	20.85	20.92	20.86	22.3	0	
5	QPSK	12	7	21.01	21.02	20.85			
5	QPSK	12	13	20.90	20.94	20.88			
5	QPSK	25	0	20.94	20.85	20.87	22.3	0	
5	QPSK	25	0	20.94	20.85	20.87			
5	QPSK	25	0	20.94	20.85	20.87			
5	QPSK	1	0	20.84	20.94	20.68	22.3	0	
5	QPSK	1	25	20.94	20.83	20.84			
5	QPSK	1	48	20.92	20.83	20.68			
5	QPSK	12	0	20.25	20.36	20.22	22	0.3	
5	QPSK	12	7	20.46	20.36	20.25			
5	QPSK	12	13	20.46	20.36	20.25			
5	QPSK	25	0	20.37	20.40	20.24	22	0.3	
5	QPSK	25	0	20.37	20.40	20.24			
5	QPSK	25	0	20.37	20.40	20.24			
5	QPSK	1	0	19.26	19.40	19.26	21	1.3	
5	QPSK	1	25	19.36	19.42	19.28			
5	QPSK	1	48	19.32	19.46	19.27			
5	QPSK	12	0	17.27	17.41	17.25	19	3.3	
5	QPSK	12	7	17.36	17.25	17.34			
5	QPSK	12	13	17.25	17.28	17.25			
5	QPSK	25	0	17.42	17.34	17.27	19	3.3	
5	QPSK	25	0	17.42	17.34	17.27			
5	QPSK	25	0	17.42	17.34	17.27			
5	QPSK	1	0	17.35	17.35	17.25	19	3.3	
5	QPSK	1	25	17.28	17.32	17.25			
5	QPSK	1	48	17.32	17.30	17.25			
5	QPSK	12	0	17.37	17.37	17.25	19	3.3	
5	QPSK	12	7	17.37	17.37	17.25			
5	QPSK	12	13	17.37	17.37	17.25			
5	QPSK	25	0	17.32	17.30	17.25	19	3.3	
5	QPSK	25	0	17.32	17.30	17.25			
5	QPSK	25	0	17.32	17.30	17.25			

Band 41&other PA Ant 1 ECI6											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Mid Ch / Freq	Power High Ch / Freq	Power High Mid Ch / Freq	Tune-up limit (dBm)	MPE (dB)		
Channel											
Frequency (MHz)				38950	40185	40620	41005	41480			
20	QPSK	1	0	20.97	21.00	20.92	21.00	20.99	22.3	0	
20	QPSK	1	48	20.98	21.05	21.04	20.97	20.98			
20	QPSK	1	88	20.99	20.90	20.96	20.91	20.91			
20	QPSK	50	0	20.90	20.97	21.03	20.99	20.98	22.3	0	
20	QPSK	50	24	21.00	21.02	21.01	21.08	20.93			
20	QPSK	50	48	20.98	20.95	20.97	20.98	20.98			
20	QPSK	100	0	20.97	21.00	20.98	20.96	20.96	22.3	0	
20	16QAM	1	0	20.96	20.97	20.98	20.88	20.91			
20	16QAM	1	48	20.97	21.02	20.89	20.99	21.01			
20	16QAM	1	96	20.98	21.00	20.90	20.98	20.94	22	0.3	
20	16QAM	50	0	20.55	20.47	20.49	20.43	20.38			
20	16QAM	50	24	20.56	20.53	20.49	20.41	20.40			
20	16QAM	50	48	20.44	20.48	20.38	20.37	20.31	22	0.3	
20	16QAM	100	0	20.37	20.41	20.34	20.36	20.36			
20	16QAM	100	1	20.43	20.33	20.43	20.35	20.35			
20	16QAM	1	48	20.37	20.46	20.35	20.45	20.46	22	0.3	
20	16QAM	50	0	20.36	20.38	20.35	20.32	20.35			
20	16QAM	50	50	19.32	19.38	19.54	19.42	19.50			
20	16QAM	50	24	19.45	19.51	19.54	19.42	19.37	21	1.3	
20	16QAM	50	48	19.37	19.42	19.42	19.41	19.43			
20	16QAM	100	0	19.36	19.37	19.54	19.38	19.44			
20	256QAM	1	0	17.51	17.41	17.54	17.38	17.46	19	3.3	
20	256QAM	1	48	17.46	17.46	17.44	17.43	17.46			
20	256QAM	1	88	17.46	17.42	17.40	17.40	17.38			
20	256QAM	50	0	17.44	17.36	17.40	17.35	17.43	19	3.3	
20	256QAM	50	24	17.44	17.35	17.40	17.36	17.44			
20	256QAM	50	48	17.43	17.41	17.35	17.38	17.47			
20	256QAM	100	0	17.37	17.41	17.35	17.38	17.47	19	3.3	
20	256QAM	100	1	17.42	17.37	17.44	17.33	17.42			
Channel											
Frequency (MHz)				39725	40173	40626	41060	41616			
15	QPSK	1	0	20.94	20.93	20.93	20.97	20.98	22	0	
15	QPSK	1	37	20.89	21.04	21.04	20.88	20.89			
15	QPSK	1	74	20.81	20.91	21.06	20.80	20.89			
15	QPSK	50	0	20.78	20.93	21.03	20.89	20.91	22.3	0	
15	QPSK	50	20	20.92	21.00	20.96	20.91	20.88			
15	QPSK	50	40	20.92	20.90	20.98	20.86	20.90			
15	QPSK	75	0	20.90	20.90	20.98	20.86	20.92	22.3	0	
15	16QAM	1	0	20.83	20.89	20.87	20.77	20.83			
15	16QAM	1	37	20.86	20.98	20.99	20.78	20.83			
15	16QAM	1	74	20.87	20.89	20.84	20.82	20.82	22	0.3	
15	16QAM	50	0	20.51	20.48	20.46	20.42	20.43			
15	16QAM	50	20	20.38	20.43	20.43	20.39	20.40			
15	16QAM	50	36	20.48	20.36	20.25	20.34	20.35	22	0.3	
15	16QAM	75	0	20.36	20.38	20.35	20.26	20.37			
15	16QAM	75	1	20.34	20.29	20.39	20.24	20.27			
15	16QAM	1	37	20.31	20.41	20.28	20.34	20.43	22	0.3	
15	16QAM	1	74	20.32	20.33	20.29	20.29	20.34			
15	16QAM	36	0	19.31	19.36	19.47	19.32	19.43			
15	16QAM	36	20	19.44	19.45	19.44	19.33	19.33	21	1.3	
15	16QAM	36	40	19.38	19.38	19.38	19.41	19.33			
15	16QAM	75	0	19.51	19.37	19.50	19.37	19.34			
15	256QAM	1	0	17.43	17.30	17.52	17.37	17.46	19	3.3	
15	256QAM	1	37	17.40	17.37	17.40	17.40	17.34			
15	256QAM	1	74	17.37	17.31	17.50	17.35	17.35			
15	256QAM	50	0	17.36	17.26	17.40	17.25	17.36	19	3.3	
15	256QAM	50	20	17.38	17.28	17.35	17.25	17.42			
15	256QAM	50	36	17.37	17.35	17.34	17.38	17.44			
15	256QAM	100	0	17.34	17.37	17.34	17.33	17.33	19	3.3	
Channel											
Frequency (MHz)				40610	40160	40626	41060	41616			
5	QPSK	1	0	20.93	21.04	20.93	20.97	20.97	22	0	
5	QPSK	1	25	20.97	20.97	21.02	20.98	20.98			
5	QPSK	1	48	20.83	20.84	20.94	20.91	20.92			
5	QPSK	12	0	20.84	20.94	20.94	20.88	20.91	22.3	0	
5	QPSK	12	12	20.89	20.93	20.94	20.95	20.88			
5	QPSK	12	24	20.88	20.93	20.94	20.96	20.82			
5	QPSK	50	0	20.91	20.93	20.92	20.93	20.94	22.3	0	
5	16QAM	1	0	20.90	20.87	20.94	20.84	20.89			
5	16QAM	1	24	20.95	20.94	20.94	20.86	20.91			
5	16QAM	1	48	20.94	20.94	20.89	20.82	20.72	22	0.3	
5	16QAM	25	0	20.48	20.38	20.40	20.38	20.43			
5	16QAM	25	12	20.42	20.42	20.40	20.38	20.43			
5	16QAM	25	24	20.40	20.43	20.34	20.31	20.28	22	0.3	
5	16QAM	50	0	20.36	20.38	20.34	20.32	20.46			
5	16QAM	50	12	20.38	20.27	20.33	20.26	20.31			
5	16QAM	1	25	20.37	20.40	20.30	20.40	20.41	22	0.3	
5	16QAM	1	24	20.32	20.33	20.33	20.23	20.31			
5	16QAM	25	0	19.42	19.35	19.45	19.38	19.50			
5	16QAM	25	12	19.43	19.42	19.42	19.30	19.26	21	1.3	
5	16QAM	25	24	19.43	19.43	19.45	19.30	19.42			
5	16QAM	50	0	19.34	19.34	19.49	19.30	19.34			
5	256QAM	1	0	17.39	17.38	17.46	17.26	17.40	19	3.3	
5	256QAM	1	12	17.42	17.39	17.46	17.46	17.34			
5	256QAM	1	48	17.37	17.41	17.28	17.35	17.29			
5	256QAM	12	0	17.35	17.35	17.35	17.26	17.34	19	3.3	
5	256QAM	12	12	17.33	17.29	17.36	17.20	17.36			
5	256QAM	12	24	17.28	17.38	17.31	17.29	17.41			
5	256QAM	25	0	17.32	17.37	17.25	17.30	17.36	19	3.3	
5	256QAM	25	12	17.31	17.37	17.25	17.30	17.36			
5	256QAM	25	24	17.31	17.37	17.25	17.30	17.36			
Channel											
Frequency (MHz)				39675	40148	40626	41060	41665			
5	QPSK	1	0	20.93	21.04	20.93	20.97	20.97	22	0	
5	QPSK	1	12	20.90	20.96	21.03	20.96	20.98			
5	QPSK	1	24	20.88	20.96	21.03	20.91	20.92			
5	QPSK	12	0	20.84	20.93	21.03	20.88	20.91	22.3	0	
5	QPSK	12	7	20.89	20.93	21.08	20.87	20.97			
5	QPSK	12	17	20.92	20.94	20.99	20.99	20.91			
5	QPSK	25	0	20.91	20.93	20.92	20.93	20.94	22.3	0	
5	16QAM	1	0	20.90	20.87	20.94	20.84	20.89			
5	16QAM	1	12	20.95	20.94	20.94	20.86	20.91			
5	16QAM	1	24	20.91	20.93	20.89	20.78	20.77	22	0.3	
5	16QAM	12	0	20.34	20.38	20.44	20.42	20.47			
5	16QAM	12	12	20.42	20.42	20.40	20.38	20.41			
5	16QAM	12	13	20.32	20.38	20.35	20.30	20.27	22	0.3	
5	16QAM	25	0	20.36	20.38	20.34	20.29	20.46			
5	16QAM	25	12	20.37	20.24	20.45	20.26	20.37			
5	16QAM	1	12	20.35	20.38	20.31	20.37	20.35	22	0.3	
5	16QAM	1	24	20.32	20.33	20.33	20.23	20.31			
5	16QAM	12	0	19.31	19.34	19.53	19.30	19.38			
5	16QAM	12	7	19.35	19.46	19.45	19.36	19.31	21	1.3	
5	16QAM	12	13	19.41	19.41	19.45	19.30	19.46			
5	16QAM	25	0	19.48	19.33	19.53	19.32	19.31			
5	256QAM	1	0	17.47	17.40	17.49	17.31	17.46	19	3.3	
5	256QAM	1	12	17.46	17.41	17.35	17.41	17.37			
5	256QAM	1	24	17.35	17.52	17.38	17.30	17.28			
5	256QAM	12	0	17.46	17.40	17.46	17.29	17.37	19	3.3	
5	256QAM	12	7	17.38	17.25	17.35	17.26	17.37			
5	256QAM	12	13	17.37	17.41	17.23	17.35	17.46			



Band 42 FCC Part27Q Ant 3 ECi6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)	
Channel				3440	3490	3590			
Frequency (MHz)				42190	42990	43990			
20	QPSK	1	0	22.08	22.10	22.02	22.9	0	
20	QPSK	1	48	21.84	21.88	21.80			
20	QPSK	1	96	22.00	21.98	21.98			
20	QPSK	50	0	22.03	22.03	22.02	22.9	0	
20	QPSK	50	24	21.99	22.08	21.96			
20	QPSK	50	48	21.98	21.88	21.92			
20	QPSK	100	0	22.04	22.05	22.00	22.9	0	
20	HQAM	1	0	21.88	22.03	21.94			
20	HQAM	1	48	21.87	21.88	22.01			
20	HQAM	50	0	21.98	21.88	21.78	22	0.9	
20	HQAM	50	24	20.36	20.36	20.29			
20	HQAM	50	48	20.35	20.30	20.30			
20	HQAM	50	50	20.30	20.27	20.12	22	0.9	
20	HQAM	100	0	20.29	20.32	20.17			
20	HQAM	1	0	20.22	20.27	20.25			
20	HQAM	1	48	20.18	20.28	20.25	21	1.9	
20	HQAM	1	96	20.35	20.33	20.13			
20	HQAM	50	0	19.37	19.43	19.32			
20	HQAM	50	24	19.20	19.32	19.22	19	3.9	
20	HQAM	50	50	19.34	19.22	19.19			
20	HQAM	100	0	19.37	19.30	19.32			
20	256QAM	1	0	17.35	17.39	17.33	19	3.9	
20	256QAM	1	48	17.27	17.24	17.28			
20	256QAM	1	96	17.27	17.27	17.17			
20	256QAM	50	0	17.28	17.34	17.28	19	3.9	
20	256QAM	50	24	17.25	17.34	17.29			
20	256QAM	50	50	17.17	17.23	17.28			
20	256QAM	100	0	17.31	17.29	17.14			
Channel				34165	34590	35015	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3417.5	3505	3547.5			
15	QPSK	1	0	22.03	22.02	21.87	22.9	0	
15	QPSK	1	37	21.84	21.89	21.82			
15	QPSK	1	74	21.82	21.87	21.84			
15	QPSK	36	0	21.09	21.88	21.88	22.9	0	
15	QPSK	36	20	21.88	21.97	21.89			
15	QPSK	36	40	21.89	21.78	21.73			
15	QPSK	75	0	21.97	21.99	21.98	22.9	0	
15	HQAM	1	0	21.36	21.94	21.92			
15	HQAM	1	37	21.71	21.88	21.97			
15	HQAM	1	74	21.87	21.85	21.72	22	0.9	
15	HQAM	36	0	20.34	20.24	20.29			
15	HQAM	36	20	20.19	20.22	20.18			
15	HQAM	36	39	20.28	20.26	20.07	22	0.9	
15	HQAM	75	0	20.18	20.32	20.19			
15	HQAM	1	0	20.15	20.22	20.18			
15	HQAM	1	37	20.18	20.19	20.17	21	1.9	
15	HQAM	36	0	20.32	20.16	20.11			
15	HQAM	36	39	19.35	19.34	19.22			
15	HQAM	36	75	19.32	19.17	19.14	19	3.9	
15	HQAM	75	0	19.27	19.25	19.20			
15	256QAM	1	0	17.35	17.29	17.23			
15	256QAM	1	37	17.22	17.15	17.27	19	3.9	
15	256QAM	1	74	17.27	17.24	17.11			
15	256QAM	36	0	17.28	17.31	17.23			
15	256QAM	36	20	17.21	17.29	17.25	19	3.9	
15	256QAM	36	39	17.16	17.18	17.24			
15	256QAM	75	0	17.31	17.16	17.13			
Channel				34140	34565	35000	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3415	3505	3545			
10	QPSK	1	0	22.09	22.07	21.86	22.9	0	
10	QPSK	1	25	21.91	21.90	21.80			
10	QPSK	1	49	21.97	21.83	21.83			
10	QPSK	36	0	21.96	22.01	21.98	22.9	0	
10	QPSK	25	12	21.89	21.98	21.91			
10	QPSK	25	25	21.89	21.81	21.78			
10	QPSK	50	0	21.98	21.88	21.98	22.9	0	
10	HQAM	1	0	21.92	22.03	21.84			
10	HQAM	1	25	21.82	21.80	21.96			
10	HQAM	1	49	21.92	21.87	21.77	22	0.9	
10	HQAM	25	0	20.34	20.30	20.24			
10	HQAM	25	12	20.18	20.21	20.24			
10	HQAM	25	25	20.24	20.35	20.09	22	0.9	
10	HQAM	50	0	20.24	20.25	20.23			
10	HQAM	1	0	20.14	20.23	20.24			
10	HQAM	1	25	20.14	20.21	20.20	22	0.9	
10	HQAM	1	49	20.27	20.15	20.01			
10	HQAM	25	0	19.28	19.39	19.24			
10	HQAM	25	12	19.09	19.23	19.18	21	1.9	
10	HQAM	25	25	19.24	19.19	19.15			
10	HQAM	50	0	19.35	19.20	19.21			
10	256QAM	1	0	17.23	17.28	17.33	19	3.9	
10	256QAM	1	25	17.17	17.16	17.27			
10	256QAM	1	49	17.24	17.15	17.05			
10	256QAM	25	0	17.19	17.34	17.18	19	3.9	
10	256QAM	25	12	17.21	17.24	17.17			
10	256QAM	25	25	17.17	17.13	17.25			
10	256QAM	50	0	17.21	17.18	17.19			
Channel				34115	34540	35075	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3412.5	3508	3547.5			
5	QPSK	1	0	21.97	22.05	21.89	22.9	0	
5	QPSK	1	12	21.91	21.89	21.84			
5	QPSK	1	24	21.85	21.90	21.81			
5	QPSK	12	0	21.99	22.02	21.92	22.9	0	
5	QPSK	12	7	21.88	21.95	21.89			
5	QPSK	12	13	21.86	21.78	21.79			
5	QPSK	25	0	21.94	22.01	21.94	22.9	0	
5	HQAM	1	0	21.95	21.99	21.88			
5	HQAM	1	12	21.77	21.85	21.89			
5	HQAM	1	24	21.93	21.88	21.73	22	0.9	
5	HQAM	12	0	20.29	20.24	20.28			
5	HQAM	12	7	20.18	20.22	20.25			
5	HQAM	12	13	20.28	20.18	20.08	22	0.9	
5	HQAM	25	0	20.20	20.28	20.20			
5	HQAM	1	0	20.19	20.16	20.19			
5	HQAM	1	12	20.08	20.21	20.16	21	1.9	
5	HQAM	12	0	19.38	19.24	19.22			
5	HQAM	12	7	19.15	19.21	19.18			
5	HQAM	12	13	19.24	19.13	19.08	19	3.9	
5	HQAM	25	0	19.16	19.27	19.28			
5	256QAM	1	0	17.28	17.28	17.21			
5	256QAM	1	12	17.22	17.17	17.23	19	3.9	
5	256QAM	1	24	17.22	17.25	17.13			
5	256QAM	12	0	17.20	17.30	17.24			
5	256QAM	12	7	17.16	17.24	17.19	19	3.9	
5	256QAM	12	13	17.08	17.13	17.24			
5	256QAM	25	0	17.25	17.17	17.11			



Band 38&other PA Ant 4 ECI6										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Peak Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				37865	38050	38160				
20	QPSK	1	0	18.77	18.85	18.94	20.1	0		
20	QPSK	1	48	18.85	18.79	18.64				
20	QPSK	1	96	18.72	18.78	18.78				
20	QPSK	50	0	18.72	18.54	18.77				
20	QPSK	50	24	18.68	18.76	18.72				
20	QPSK	50	48	18.50	18.57	18.70				
20	QPSK	100	0	18.74	18.79	18.72				
20	HQAM	1	0	18.62	18.63	18.65	20.1	0		
20	HQAM	1	48	18.50	18.57	18.76				
20	HQAM	1	96	18.64	18.62	18.64				
20	HQAM	50	0	18.63	18.70	18.76				
20	HQAM	50	24	18.58	18.65	18.65				
20	HQAM	50	48	18.73	18.60	18.77	20.1	0		
20	HQAM	100	0	18.75	18.77	18.77				
20	BAGAM	1	0	18.53	18.54	18.61				
20	BAGAM	1	48	18.58	18.65	18.60				
20	BAGAM	1	96	18.55	18.52	18.58				
20	BAGAM	50	0	18.43	18.49	18.42				
20	BAGAM	50	24	18.42	18.46	18.29				
20	BAGAM	50	50	18.42	18.41	18.50				
20	BAGAM	100	0	18.51	18.51	18.48				
20	25SSDAM	1	0	18.48	18.61	18.42				
20	25SSDAM	1	48	18.54	18.59	18.45				
20	25SSDAM	1	96	18.48	18.38	18.38	18	2.1		
20	25SSDAM	50	0	18.50	18.62	18.46				
20	25SSDAM	50	24	18.28	18.42	18.38				
20	25SSDAM	50	50	18.28	18.40	18.31				
20	25SSDAM	100	0	18.27	18.27	18.27				
Channel										
Frequency (MHz)				37865	38050	38175	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	18.71	18.55	18.72				
15	QPSK	1	37	18.82	18.69	18.61	20.1	0		
15	QPSK	1	74	18.63	18.72	18.73				
15	QPSK	36	0	18.60	18.60	18.67				
15	QPSK	36	20	18.57	18.64	18.63				
15	QPSK	75	0	18.69	18.69	18.69	20.1	0		
15	QPSK	75	0	18.73	18.71	18.68				
15	HQAM	1	0	18.61	18.55	18.62				
15	HQAM	1	37	18.43	18.61	18.65	20.1	0		
15	HQAM	1	74	18.62	18.54	18.55				
15	HQAM	36	0	18.59	18.60	18.72				
15	HQAM	36	20	18.52	18.59	18.59	20.1	0		
15	HQAM	36	36	18.69	18.74	18.73				
15	HQAM	75	0	18.70	18.76	18.72				
15	HQAM	75	0	18.50	18.62	18.61				
15	BAGAM	1	37	18.56	18.62	18.51	20.1	0		
15	BAGAM	36	0	18.51	18.53	18.68				
15	BAGAM	36	20	18.38	18.39	18.34				
15	BAGAM	36	20	18.38	18.43	18.28	20	0.1		
15	BAGAM	75	0	18.46	18.46	18.46				
15	BAGAM	75	0	18.45	18.41	18.45				
15	25SSDAM	1	0	18.38	18.54	18.36				
15	25SSDAM	1	37	18.50	18.50	18.50	18	2.1		
15	25SSDAM	1	74	18.42	18.57	18.38				
15	25SSDAM	36	0	18.39	18.44	18.38				
15	25SSDAM	36	20	18.35	18.42	18.35				
15	25SSDAM	36	36	18.20	18.36	18.30				
15	25SSDAM	75	0	18.52	18.38	18.38				
15	25SSDAM	75	0	18.49	18.38	18.38				
Channel										
Frequency (MHz)				37865	38050	38225	Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	0	18.67	18.75	18.76				
5	QPSK	1	12	18.64	18.72	18.60	20.1	0		
5	QPSK	1	24	18.63	18.72	18.61				
5	QPSK	12	0	18.69	18.74	18.69				
5	QPSK	12	7	18.60	18.72	18.64	20.1	0		
5	QPSK	12	13	18.64	18.75	18.70				
5	QPSK	25	0	18.66	18.74	18.67				
5	HQAM	1	0	18.52	18.53	18.55				
5	HQAM	1	12	18.48	18.76	18.54	20.1	0		
5	HQAM	1	24	18.55	18.67	18.61				
5	HQAM	12	0	18.62	18.78	18.75				
5	HQAM	12	7	18.55	18.59	18.65	20.1	0		
5	HQAM	12	13	18.68	18.78	18.66				
5	HQAM	25	0	18.73	18.76	18.69				
5	BAGAM	1	0	18.47	18.36	18.62	20.1	0		
5	BAGAM	1	24	18.41	18.44	18.38				
5	BAGAM	12	0	18.37	18.49	18.52				
5	BAGAM	12	7	18.42	18.38	18.35	20	0.1		
5	BAGAM	12	13	18.38	18.34	18.49				
5	BAGAM	25	0	18.41	18.44	18.38				
5	25SSDAM	1	0	18.38	18.57	18.42				
5	25SSDAM	1	12	18.43	18.48	18.35	18	2.1		
5	25SSDAM	1	24	18.47	18.20	18.28				
5	25SSDAM	12	0	18.42	18.48	18.36				
5	25SSDAM	12	7	18.29	18.32	18.29				
5	25SSDAM	12	13	18.17	18.20	18.27	18	2.1		
5	25SSDAM	25	0	18.17	18.39	18.27				

Band 41&other PA Ant 4 ECI6											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Peak Ch / Freq	Power Peak Ch / Freq	Power Peak Ch / Freq	Power Peak Ch / Freq	Turn-up limit (dBm)	MPR (dB)
Channel											
Frequency (MHz)				39790	40185	40620	41055	41490			
5	QPSK	1	0	18.96	18.99	18.96	18.93	18.99	18.99	20.1	0
5	QPSK	1	48	18.86	18.88	19.04	18.85	18.94	18.94		
5	QPSK	1	96	18.90	18.90	18.90	18.90	18.90	18.90		
5	QPSK	50	0	19.01	19.05	19.04	19.02	19.03	19.03		
5	QPSK	50	24	18.85	18.90	19.03	18.84	18.97	18.97	20.1	0
5	QPSK	100	0	19.06	19.10	19.09	19.07	19.08	19.08		
5	16QAM	1	0	18.98	18.99	18.98	18.82	18.91	18.91		
5	16QAM	1	48	18.71	18.77	18.88	18.62	18.72	18.72	20.1	0
5	16QAM	1	96	18.86	18.82	18.95	18.90	18.93	18.93		
5	16QAM	50	0	19.04	19.03	19.01	19.00	19.00	19.00		
5	16QAM	50	24	18.83	18.86	19.02	18.81	18.89	18.89	20.1	0
5	16QAM	50	120	18.93	18.88	18.91	18.91	18.91	18.91		
5	16QAM	100	0	19.02	19.04	19.00	19.01	19.06	19.06		
5	16QAM	100	24	18.87	18.90	18.93	18.88	18.92	18.92	20.1	0
5	64QAM	1	48	18.63	18.76	19.04	18.68	18.89	18.89		
5	64QAM	1	96	18.76	18.76	18.86	18.69	18.81	18.81		
5	64QAM	50	0	19.02	19.00	18.91	19.07	19.05	19.05		
5	64QAM	50	24	18.48	18.52	18.64	18.47	18.59	18.59	20.1	0
5	64QAM	50	120	18.92	18.86	18.89	18.89	18.91	18.91		
5	64QAM	100	0	19.07	19.02	18.98	18.66	19.01	19.01		
5	256QAM	1	0	19.02	19.07	18.99	18.69	19.08	19.08		
5	256QAM	1	48	18.52	18.57	18.69	18.69	18.54	18.54	20.1	0
5	256QAM	1	96	18.72	18.73	18.83	18.68	18.80	18.80		
5	256QAM	1	50	18.45	18.55	18.52	18.54	18.67	18.67	20.1	0
5	256QAM	50	0	19.09	19.06	19.06	18.92	19.04	19.04		
5	256QAM	50	24	18.53	18.64	18.53	18.47	18.51	18.51	20.1	0
5	256QAM	50	120	18.99	18.93	18.93	18.65	19.08	19.08		
5	256QAM	100	0	19.05	19.03	19.03	19.03	19.03	19.03		
Channel											
Frequency (MHz)				39790	40173	40620	41058	41515			
5	QPSK	1	0	18.93	18.93	18.93	18.93	18.93	18.93	Turn-up limit (dBm)	MPR (dB)
5	QPSK	1	37	18.78	18.83	18.99	18.88	18.98	18.98		
5	QPSK	1	74	18.90	18.97	18.99	18.99	18.98	18.98		
5	QPSK	1	111	18.93	18.93	18.98	18.98	18.98	18.98		
5	QPSK	38	20	18.73	18.84	18.91	18.78	18.90	18.90	20.1	0
5	QPSK	38	58	18.83	18.88	18.98	18.88	18.93	18.93		
5	QPSK	75	0	18.86	18.91	18.95	18.91	18.79	18.79		
5	16QAM	1	0	19.04	19.71	18.97	18.93	18.93	18.93		
5	16QAM	1	37	18.70	18.74	18.84	18.82	18.84	18.84	20.1	0
5	16QAM	1	74	18.81	18.81	18.91	18.92	18.92	18.92		
5	16QAM	38	0	18.93	19.00	19.02	19.00	19.03	19.03		
5	16QAM	38	111	18.72	18.78	18.88	18.78	18.89	18.89	20.1	0
5	16QAM	38	150	18.97	19.00	19.04	18.99	19.01	19.01		
5	16QAM	75	0	19.00	19.78	19.04	18.99	19.01	19.01		
5	64QAM	1	0	18.93	18.90	18.93	18.94	18.96	18.96		
5	64QAM	1	37	18.53	18.55	19.02	18.96	18.98	18.98		
5	64QAM	1	74	18.83	18.86	18.96	18.88	18.95	18.95	20.1	0
5	64QAM	38	0	18.49	18.60	18.61	18.56	18.54	18.54		
5	64QAM	38	120	18.97	19.00	19.01	18.96	19.00	19.00		
5	64QAM	38	150	18.94	18.98	19.01	18.96	19.02	19.02	20.1	0
5	64QAM	75	0	19.04	19.53	19.04	18.98	19.09	19.09		
5	256QAM	1	0	19.04	19.04	19.04	18.98	19.04	19.04		
5	256QAM	1	37	18.48	18.62	18.63	18.55	18.46	18.46	20.1	0
5	256QAM	1	74	18.37	18.46	18.41	18.55	18.58	18.58		
5	256QAM	1	111	18.67	18.74	18.80	18.74	18.82	18.82	20.1	0
5	256QAM	38	20	18.53	18.58	18.56	18.50	18.64	18.67		
5	256QAM	38	58	18.63	18.68	18.69	18.63	18.65	18.65	20.1	0
5	256QAM	75	0	19.03	19.43	19.41	19.03	19.53	19.53		
Channel											
Frequency (MHz)				39790	40160	40620	41058	41540			
5	QPSK	1	0	18.93	18.93	18.93	18.93	18.93	18.93	Turn-up limit (dBm)	MPR (dB)
5	QPSK	1	25	18.78	18.76	18.98	18.95	18.91	18.91		
5	QPSK	1	50	18.88	18.88	19.01	18.98	18.98	18.98	20.1	0
5	QPSK	25	0	18.95	18.91	18.96	18.95	18.95	18.95		
5	QPSK	25	12	18.80	18.89	19.00	18.86	19.03	19.03	20.1	0
5	QPSK	25	25	18.96	19.00	19.00	18.96	19.00	19.00		
5	QPSK	50	0	19.00	19.00	18.99	19.01	18.97	18.97		
5	16QAM	1	0	19.03	19.72	18.91	18.79	18.80	18.80		
5	16QAM	1	25	18.87	18.74	18.98	18.87	18.91	18.91	20.1	0
5	16QAM	1	48	18.78	18.81	18.92	18.88	18.91	18.91		
5	16QAM	1	75	18.90	18.96	19.01	18.99	18.98	18.98		
5	16QAM	25	12	18.75	18.74	18.85	18.65	18.74	18.74	20.1	0
5	16QAM	25	25	18.89	18.86	18.97	18.88	18.95	18.95		
5	16QAM	50	0	19.04	19.04	18.97	18.98	19.00	19.00		
5	64QAM	1	0	18.89	18.79	18.83	18.82	18.87	18.87		
5	64QAM	1	25	18.59	18.65	19.04	18.86	18.90	18.90	20.1	0
5	64QAM	1	48	18.63	18.73	18.88	18.80	18.83	18.83		
5	64QAM	25	0	19.00	19.01	18.94	18.94	18.90	18.90		
5	64QAM	25	12	18.48	18.49	18.63	18.41	18.49	18.49	20.1	0
5	64QAM	25	25	18.44	18.50	18.59	18.46	18.52	18.52		
5	64QAM	50	0	19.06	19.00	18.92	18.65	19.00	19.00		
5	64QAM	50	12	18.49	18.46	18.57	18.45	18.49	18.49	20.1	0
5	256QAM	1	25	18.47	18.45	18.53	18.50	18.52	18.52		
5	256QAM	1	48	18.44	18.51	18.45	18.53	18.62	18.62	20.1	0
5	256QAM	1	75	18.44	18.47	18.50	18.50	18.52	18.52		
5	256QAM	25	12	18.44	18.34	18.48	18.40	18.49	18.49	20.1	0
5	256QAM	25	25	18.27	18.31	18.45	18.43	18.45	18.45		
5	256QAM	50	0	19.04	19.00	18.98	18.67	19.00	19.00		
Channel											
Frequency (MHz)				39790	40146	40620	41058	41565			
5	QPSK	1	0	18.93	18.93	18.93	18.93	18.93	18.93	Turn-up limit (dBm)	MPR (dB)
5	QPSK	1	12	18.62	18.64	19.00	18.88	18.91	18.91		
5	QPSK	1	24	18.67	18.67	18.99	18.87	18.90	18.90	20.1	0
5	QPSK	12	0	19.02	19.07	19.03	18.91	19.02	19.02		
5	QPSK	12	7	18.83	18.83	18.95	18.84	18.88	18.88	20.1	0
5	QPSK	12	14	18.88	18.79	18.98	18.87	18.93	18.93		
5	QPSK	25	0	19.00	19.06	19.01	18.91	19.01	19.01		
5	QPSK	25	12	18.88	18.76	18.92	18.79	18.82	18.82	20.1	0
5	QPSK	1	12	18.80	18.74	18.83	18.78	18.80	18.80		
5	16QAM	1	24	18.63	18.76	18.85	18.68	18.84	18.84		
5	16QAM	1	48	18.56	18.62	18.80	18.65	18.82	18.82	20.1	0
5	16QAM	12	7	18.73	18.77	18.95	18.83	18.96	18.96	20.1	0
5	16QAM	12	13	18.62	18.84	18.91	18.80	18.97	18.97		
5	64QAM	1	0	19.02	19.02	18.92	18.82	19.01	19.01		
5	64QAM	1	12	18.88	18.70	19.01	18.82	18.89	18.89	20.1	0
5	64QAM	1	24	18.83	18.72	18.94	18.80	18.87	18.87		
5	64QAM	12	0	18.46	18.54	18.59	18.59	18.60	18.60		
5	64QAM	12	7	18.47	18.41	18.53	18.45	18.50	18.50	20.1	0
5	64QAM	12	13	18.42	18.43	18.53	18.48	18.54	18.54		
5	64QAM	25	0	19.07	19.00	18.49	18.91	18.91	18.91		
5	256QAM	1	12	18.45	18.50	18.46	18.52	18.46	18.46	20.1	0
5	256QAM	1	24	18.43	18.48	18.46	18.53	18.48	18.48		
5	256QAM	12	0	19.04	19.06	18.98	18.67	19.04	19.04		
5	256QAM	12	7	18.49	18.41	18.51	18.36	18.46	18.46	20.1	0



Reduced Power Mode for ECI 7

GSM900 AND G ECI7		Rx Channel			Tx Channel		Tx Channel		
TX Channel		158	160	161	162		163	164	165
Frequency (MHz)		834.2	836.4	838.6	840		842.2	844.4	846.6
GSM 1 Tx min		31.72	31.81	31.86	33.35		22.72	22.81	22.86
GSM 1 Tx max		31.73	31.88	31.92	33.36		22.73	22.88	22.92
GPRS 2 Tx min		30.99	30.12	29.98	31.10		24.09	24.12	24.98
GPRS 2 Tx max		30.91	28.64	28.93	29.90		24.25	24.28	24.27
GPRS 4 Tx min		28.80	28.83	28.79	28.10		23.80	23.83	23.78
EDGE 1 Tx min		26.90	26.87	26.94	26.10		17.80	17.87	17.84
EDGE 2 Tx min		25.28	25.31	25.29	26.50		18.28	18.31	18.29
EDGE 3 Tx min		23.34	23.39	23.33	24.00		18.08	18.13	18.07
EDGE 4 Tx min		21.83	21.85	21.79	23.00		16.83	16.85	16.78

Band		HSPA V. AN G ECI7			Tx Channel		Tx Channel		
TX Channel		4182	4182	4203	4203		4203	4203	4203
Rx Channel		4203	4203	4203	4203		4203	4203	4203
Frequency (MHz)		836.4	836.4	840.6	840.6		840.6	840.6	840.6
SCPP Rel 99		AWR 12.3600	22.38	22.49	22.44		24.00	24.00	24.00
SCPP Rel 99		RAW 12.3600	22.49	22.53	22.50		24.00	24.00	24.00
SCPP Rel 8		HSPA Subcar-1	21.50	21.50	21.48		23.00	23.00	23.00
SCPP Rel 8		HSPA Subcar-2	21.40	21.52	21.49		22.00	22.00	22.00
SCPP Rel 8		HSPA Subcar-3	20.95	21.08	21.02		22.85	22.85	22.85
SCPP Rel 8		HSPA Subcar-4	20.94	21.05	20.94		22.85	22.85	22.85
SCPP Rel 8		DC-HSPA Subcar-1	21.10	21.10	21.08		23.00	23.00	23.00
SCPP Rel 8		DC-HSPA Subcar-2	21.44	21.49	21.53		23.00	23.00	23.00
SCPP Rel 8		DC-HSPA Subcar-3	20.84	21.09	21.01		22.50	22.50	22.50
SCPP Rel 8		DC-HSPA Subcar-4	20.98	21.05	21.04		22.50	22.50	22.50
SCPP Rel 8		HSPA Subcar-1	21.50	21.50	21.47		22.00	22.00	22.00
SCPP Rel 8		HSPA Subcar-2	19.53	19.51	19.49		21.00	21.00	21.00
SCPP Rel 8		HSPA Subcar-3	20.50	20.59	20.48		22.00	22.00	22.00
SCPP Rel 8		HSPA Subcar-4	19.85	19.55	19.46		21.00	21.00	21.00
SCPP Rel 8		HSPA Subcar-5	21.54	21.48	21.48		23.00	23.00	23.00
SCPP Rel 7		HSPA V. TSP-MU Subcar-1	19.85	19.05	19.05		20.00	20.00	20.00

Band	WCDMA I/Aw T EC/7			Tune-up Limit	WCDMA IV/Aw T EC/7			Tune-up Limit
	TS Channel	9902	9903		TS Channel	9902	9903	
Frequency (MHz)	1890.2	1890	1890.8	(dBm)	1890.2	1890	1890.8	(dBm)
QPSK 1 Tx Min	20.59	20.28	20.10	20.28	19.59	20.27	20.10	21.50
QPSK 1 Tx Max	20.87	20.04	20.02	30.00	19.87	20.04	20.02	21.80
QPSK 2 Tx Min	20.22	20.20	20.24	27.70	20.22	20.20	20.24	21.70
QPSK 3 Tx Min	20.41	20.40	20.37	26.00	20.10	20.27	20.11	21.44
QPSK 4 Tx Min	23.80	23.62	23.58	24.75	20.80	20.62	20.58	21.75
EDGE 1 Tx Min	20.71	20.71	20.84	20.00	19.71	19.71	19.84	18.00
EDGE 2 Tx Min	22.21	22.10	22.23	23.00	18.21	18.18	18.23	17.00
EDGE 3 Tx Min	20.16	20.22	20.19	21.00	15.69	15.69	15.69	17.24
EDGE 4 Tx Min	18.81	18.74	18.68	20.00	15.81	15.74	15.68	17.00

Band	WCDMA II/Aw T EC/7			Tune-up Limit	WCDMA IV/Aw T EC/7			Tune-up Limit
	TS Channel	9902	9903		TS Channel	9902	9903	
Frequency (MHz)	1890.2	1890	1890.8	(dBm)	1890.2	1890	1890.8	(dBm)
QPSK 1 Tx Min	18.78	18.00	18.80	20.10	18.78	18.00	18.70	20.30
QPSK 2 Tx Min	18.87	19.00	18.88	20.10	18.82	19.04	18.90	20.30
QPSK 3 Tx Min	17.03	17.07	17.08	18.10	17.84	17.88	17.82	19.30
QPSK 4 Tx Min	17.03	17.00	17.85	18.10	17.88	17.88	17.80	19.30
QPSK 5 Tx Min	17.03	17.00	17.40	18.00	17.40	17.20	17.44	18.20
QPSK 6 Tx Min	17.42	17.48	17.41	18.00	17.42	17.01	17.33	18.80
QPSK 7 Tx Min	17.80	17.87	17.85	18.10	17.84	17.86	17.90	18.30
QPSK 8 Tx Min	17.85	17.91	17.88	18.10	17.88	17.87	17.90	18.30
QPSK 9 Tx Min	17.44	17.43	17.50	18.00	17.30	17.39	17.37	18.80
QPSK 10 Tx Min	17.33	17.50	17.37	18.00	17.30	17.49	17.40	18.00
QPSK 11 Tx Min	17.80	18.00	17.91	18.10	17.88	18.04	17.80	19.30
QPSK 12 Tx Min	18.21	18.00	18.63	17.10	18.08	18.00	18.08	17.30
QPSK 13 Tx Min	18.07	18.08	18.08	18.10	18.70	18.02	18.05	18.30
QPSK 14 Tx Min	15.04	15.08	15.04	17.10	15.70	16.04	15.98	17.30
QPSK 15 Tx Min	17.79	17.97	17.84	18.10	17.91	17.85	17.90	19.30
QPSK 16 Tx Min	15.37	15.45	15.44	18.00	15.37	15.46	15.44	18.80



GSM850 Airtel 4 ECOT	Power Average Power (dBm)			Turn-up Limit	Frame change Power (dBm)			Turn-up Limit
	Tx Channel	198	199	201	198	199	201	
Frequency (MHz)		854.2	856.4	858.6	854.2	856.4	858.6	859.0
QPSK 1 Tx rate		17.27	17.10	17.27	22.23	22.30	22.23	23.10
QPSK 1 Tx rate		31.21	31.23	31.15	32.40	22.21	22.23	22.15
QPSK 2 Tx rate		30.28	30.32	30.25	31.00	24.26	24.32	24.25
QPSK 3 Tx rate		29.36	29.41	29.30	29.00	24.15	24.16	24.15
QPSK 4 Tx rate		27.13	27.18	27.15	28.00	24.13	24.18	24.15
EDGE 1 Tx rate		20.20	20.37	20.31	27.00	17.20	17.37	17.31
EDGE 2 Tx rate		24.79	24.81	24.79	25.50	18.70	18.81	18.70
EDGE 3 Tx rate		22.86	22.91	22.72	21.50	18.50	18.55	18.40
EDGE 4 Tx rate		21.24	21.37	21.23	22.00	18.24	18.37	18.23

Band	WCDMA V.Air 4 ECOT			Turn-up Limit
	Tx Channel	4150	4160	4155
Frequency (MHz)		4507	4497	4498
SCPP Rel 99	AMR 12.2kbit	21.33	21.40	21.20
SCPP Rel 99	RMC 12.2kbit	21.41	21.44	21.37
SCPP Rel 8	HSPA Subcar-1	20.43	20.51	20.53
SCPP Rel 8	HSPA Subcar-2	20.34	20.40	20.36
SCPP Rel 8	HSPA Subcar-3	19.86	19.91	19.88
SCPP Rel 8	HSPA Subcar-4	19.85	19.96	19.94
SCPP Rel 8	DC-HSPA Subcar-1	20.47	20.51	20.22
SCPP Rel 8	DC-HSPA Subcar-2	20.45	20.53	20.42
SCPP Rel 8	DC-HSPA Subcar-3	19.85	19.99	19.81
SCPP Rel 8	DC-HSPA Subcar-4	19.83	19.96	19.93
SCPP Rel 8	HSPA Subcar-1	20.47	20.59	20.59
SCPP Rel 8	HSPA Subcar-2	19.36	19.47	19.30
SCPP Rel 8	HSPA Subcar-3	19.37	19.53	19.38
SCPP Rel 8	HSPA Subcar-4	18.44	18.51	18.40
SCPP Rel 8	HSPA Subcar-5	20.43	20.59	20.50
SCPP Rel 7	HSPA2 (HSPA) Subcar-1	17.86	18.00	17.81

Band 5 Ant 0 ECI7														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	APR (dB)						
Channel 800 806.5 844														
10	QPSK	1	0	22.38	22.42	22.29	24	0						
10	QPSK	1	25	22.26	22.30	22.21								
10	QPSK	1	49	22.33	22.34	22.22								
10	QPSK	25	0	21.33	21.37	21.24								
10	QPSK	25	12	21.30	21.31	21.28	23	1						
10	QPSK	25	25	21.27	21.31	21.24								
10	QPSK	50	0	21.28	21.30	21.26								
10	16QAM	1	0	21.21	21.26	21.14								
10	16QAM	1	25	21.23	21.19	21.19	23	1						
10	16QAM	1	49	21.23	21.18	21.20								
10	16QAM	25	0	20.35	20.39	20.22								
10	16QAM	25	12	20.29	20.35	20.30								
10	16QAM	25	25	20.31	20.36	20.24	22	2						
10	16QAM	50	0	20.34	20.30	20.23								
10	64QAM	1	0	20.15	20.24	20.19								
10	64QAM	1	25	20.24	20.14	20.24								
10	64QAM	1	49	20.20	20.16	20.20	21	3						
10	64QAM	25	0	19.37	19.35	19.26								
10	64QAM	25	12	19.25	19.27	19.24								
10	64QAM	25	25	19.33	19.29	19.30								
10	64QAM	50	0	19.33	19.31	19.24	19	5						
10	256QAM	1	0	17.36	17.42	17.21								
10	256QAM	1	25	17.28	17.30	17.27								
10	256QAM	1	49	17.23	17.32	17.21								
10	256QAM	25	0	17.26	17.31	17.24								
10	256QAM	25	12	17.22	17.28	17.11								
10	256QAM	25	25	17.20	17.29	17.17								
10	256QAM	50	0	17.22	17.23	17.18	19	5						
Channel 20415 20425 20435														
800 806.5 844														
5	QPSK	1	0	22.26	22.37	22.28	24	0						
5	QPSK	1	12	22.17	22.28	22.13								
5	QPSK	1	24	22.22	22.25	22.08								
5	QPSK	12	0	21.26	21.30	21.12								
5	QPSK	12	7	21.19	21.18	21.20	23	1						
5	QPSK	12	13	21.15	21.28	21.19								
5	QPSK	25	0	21.25	21.23	21.23								
5	16QAM	1	0	21.09	21.16	21.02								
5	16QAM	1	12	21.11	21.12	21.12	23	1						
5	16QAM	1	24	21.19	21.09	21.18								
5	16QAM	12	0	20.23	20.32	20.08								
5	16QAM	12	7	20.18	20.22	20.24								
5	16QAM	12	13	20.30	20.24	20.12	22	2						
5	16QAM	25	0	20.23	20.25	20.10								
5	64QAM	1	0	20.13	20.13	20.08								
5	64QAM	1	12	20.15	20.20	20.10								
5	64QAM	1	24	20.07	20.11	20.13	22	2						
5	64QAM	12	0	19.24	19.29	19.22								
5	64QAM	12	13	19.26	19.23	19.21								
5	64QAM	12	13	19.29	19.25	19.28								
5	64QAM	25	0	19.29	19.20	19.17	21	3						
5	256QAM	1	0	17.25	17.25	17.25								
5	256QAM	1	12	17.19	17.19	17.24								
5	256QAM	1	24	17.14	17.24	17.15								
5	256QAM	12	0	17.17	17.17	17.17	19	5						
5	256QAM	12	7	17.09	17.14	17.06								
5	256QAM	12	13	17.21	17.07	17.07								
5	256QAM	25	0	17.20	17.20	17.12								
Channel 20415 20425 20435														
800 806.5 844														
3	QPSK	1	0	22.25	22.25	22.25	24	0						
3	QPSK	1	8	22.13	22.25	22.16								
3	QPSK	1	14	22.22	22.29	22.16								
3	QPSK	8	0	21.23	21.24	21.19								
3	QPSK	8	4	21.16	21.26	21.16	23	1						
3	QPSK	8	7	21.14	21.26	21.19								
3	16QAM	1	0	21.24	21.24	21.18								
3	16QAM	1	0	21.12	21.21	21.08								
3	16QAM	1	8	21.11	21.15	21.06	23	1						
3	16QAM	1	14	21.18	21.12	21.09								
3	16QAM	8	0	20.32	20.33	20.19								
3	16QAM	8	4	20.24	20.29	20.27								
3	16QAM	8	7	20.35	20.21	20.12	22	2						
3	16QAM	15	0	20.29	20.24	20.10								
3	64QAM	1	0	20.04	20.19	20.11								
3	64QAM	1	8	20.17	20.01	20.14								
3	64QAM	1	14	20.09	20.09	20.16	21	3						
3	64QAM	8	0	19.28	19.33	19.17								
3	64QAM	8	4	19.19	19.14	19.15								
3	64QAM	8	7	19.27	19.19	19.21								
3	64QAM	15	0	19.30	19.26	19.22	19	5						
3	256QAM	1	0	17.34	17.38	17.12								
3	256QAM	1	8	17.20	17.22	17.26								
3	256QAM	1	14	17.16	17.25	17.11								
3	256QAM	8	0	17.14	17.17	17.13	19	5						
3	256QAM	8	4	17.15	17.22	17.06								
3	256QAM	8	7	17.26	17.18	17.11								
3	256QAM	15	0	17.27	17.21	17.07								
Channel 20407 20428 20443														
800 806.5 844														
1.4	QPSK	1	0	22.35	22.35	22.25	24	0						
1.4	QPSK	1	3	22.15	22.30	22.15								
1.4	QPSK	1	5	22.26	22.20	22.15								
1.4	QPSK	3	0	22.20	22.30	22.14								
1.4	QPSK	3	1	22.05	22.24	22.09	23	1						
1.4	QPSK	3	3	22.14	22.13	22.05								
1.4	QPSK	6	0	21.04	21.25	21.13								
1.4	16QAM	1	0	21.14	21.16	21.04								
1.4	16QAM	1	3	21.16	21.16	21.10	23	1						
1.4	16QAM	1	6	21.14	21.12	21.16								
1.4	16QAM	3	0	21.18	21.19	21.06								
1.4	16QAM	3	1	21.06	21.07	21.01								
1.4	16QAM	3	3	21.09	21.10	21.05	22	2						
1.4	16QAM	6	0	20.25	20.30	20.20								
1.4	64QAM	1	0	20.08	20.20	20.06								
1.4	64QAM	1	3	20.21	20.10	20.10								
1.4	64QAM	1	5	20.14	20.07	20.17	22	2						
1.4	64QAM	3	0	20.22	20.21	20.14								
1.4	64QAM	3	1	20.01	20.07	20.03								
1.4	64QAM	3	3	20.08	20.04	20.03								
1.4	64QAM	6	0	19.23	19.21	19.14	21	3						
1.4	256QAM	1	0	17.24	17.29	17.13								
1.4	256QAM	1	3	17.20	17.19	17.14								
1.4	256QAM	1	5	17.11	17.25	17.19								
1.4	256QAM	3	0	17.24	17.25	17.18	19	5						
1.4	256QAM	3	1	17.13	17.18	17.06	19	5						
1.4	256QAM	3	3	17.26	17.19	17.11								
1.4	256QAM	6	0	17.25	17.15	17.05								

Band 17 Ant 0 EC17										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up (mHz)	MPE (dB)		
Channel										
Frequency (MHz)				705	710	711				
15	QPSK	1	0	22.19	22.25	22.22	24	0		
15	QPSK	1	25	22.12	22.19	22.11				
15	QPSK	1	49	22.16	22.22	22.09				
15	QPSK	25	0	21.26	21.30	21.22	23	1		
15	QPSK	25	12	21.11	21.13	21.18				
15	QPSK	25	25	21.07	21.21	21.12				
15	QPSK	50	0	21.16	21.26	21.16	23	1		
15	16QAM	1	0	21.28	21.29	21.14				
15	16QAM	1	25	21.09	21.09	21.02				
15	16QAM	1	49	21.04	21.15	21.08	22	2		
15	16QAM	25	0	20.38	20.37	20.35				
15	16QAM	25	12	20.10	20.20	20.03				
15	16QAM	25	25	20.07	20.15	20.16	21	3		
15	16QAM	50	0	20.22	20.27	20.13				
15	64QAM	1	0	20.19	20.20	20.08				
15	64QAM	1	25	20.03	20.07	20.09	22	2		
15	64QAM	1	49	20.07	20.15	20.05				
15	64QAM	25	0	19.22	19.34	19.24				
15	64QAM	25	12	19.04	19.05	19.16	21	3		
15	64QAM	25	25	19.20	19.16	19.11				
15	64QAM	50	0	19.19	19.34	19.16				
15	256QAM	1	0	17.22	17.27	17.27	19	5		
15	256QAM	1	25	17.13	17.04	17.11				
15	256QAM	1	49	17.13	17.16	17.14				
15	256QAM	25	0	17.12	17.32	17.25	19	5		
15	256QAM	25	12	17.26	17.28	17.03				
15	256QAM	25	25	17.17	17.00	17.01				
15	256QAM	50	0	16.97	17.16	16.98				
Channel										
Frequency (MHz)				706.5	710	713.5	Tune-up (mHz)	MPE (dB)		
5	QPSK	1	0	22.18	22.18	22.15	24	0		
5	QPSK	1	12	22.06	22.16	22.10				
5	QPSK	1	24	22.14	22.11	22.10				
5	QPSK	12	0	21.22	21.26	21.19	23	1		
5	QPSK	12	7	21.01	21.10	21.12				
5	QPSK	12	13	21.08	21.14	21.09				
5	QPSK	25	0	21.11	21.16	21.13	23	1		
5	16QAM	1	0	21.22	21.27	21.05				
5	16QAM	1	12	21.08	21.14	21.13				
5	16QAM	1	24	21.22	21.04	21.08	22	2		
5	16QAM	12	0	20.36	20.23	20.26				
5	16QAM	12	7	20.11	20.13	20.02				
5	16QAM	12	13	20.51	20.14	20.06	21	3		
5	16QAM	25	0	20.20	20.28	20.09				
5	64QAM	1	0	20.09	20.17	20.01				
5	64QAM	1	12	21.13	20.09	20.01	22	2		
5	64QAM	1	24	20.06	20.05	20.01				
5	64QAM	12	0	19.15	19.35	19.19				
5	64QAM	12	7	19.03	19.15	19.05	21	3		
5	64QAM	12	13	19.12	19.15	19.05				
5	64QAM	25	0	19.16	19.26	19.14				
5	256QAM	1	0	17.17	17.26	17.25	19	5		
5	256QAM	1	12	17.07	17.07	17.12				
5	256QAM	1	24	17.08	17.06	17.12				
5	256QAM	12	0	17.04	17.24	17.16	19	5		
5	256QAM	12	7	17.21	17.19	17.12				
5	256QAM	12	13	17.14	17.24	17.12				
5	256QAM	25	0	17.08	17.11	17.12				

Band 26 Ant 0 EC17											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up (mHz)	MPE (dB)			
Channel											
Frequency (MHz)				815.5	831.5	841.5					
15	QPSK	1	0	22.44	22.53	22.35	24	0			
15	QPSK	1	37	22.33	22.41	22.28					
15	QPSK	1	74	22.40	22.42	22.27					
15	QPSK	36	0	21.36	21.48	21.37	23	1			
15	QPSK	36	20	21.43	21.40	21.37					
15	QPSK	36	36	21.35	21.35	21.28					
15	QPSK	75	0	21.40	21.41	21.34	23	1			
15	16QAM	1	0	21.25	21.29	21.25					
15	16QAM	1	37	21.31	21.28	21.31					
15	16QAM	1	74	21.33	21.24	21.23	22	2			
15	16QAM	36	0	20.46	20.48	20.28					
15	16QAM	36	20	20.32	20.38	20.36					
15	16QAM	36	36	20.24	20.38	20.24	21	3			
15	16QAM	75	0	20.37	20.48	20.24					
15	64QAM	1	0	20.18	20.30	20.21					
15	64QAM	1	37	20.37	20.16	20.33	22	2			
15	64QAM	1	74	20.22	20.28	20.30					
15	64QAM	36	0	19.40	19.38	19.27					
15	64QAM	36	20	19.27	19.33	19.24	21	3			
15	64QAM	36	36	19.46	19.35	19.43					
15	64QAM	75	0	19.42	19.35	19.26					
15	256QAM	1	0	17.41	17.57	17.25	19	5			
15	256QAM	1	37	17.42	17.38	17.28					
15	256QAM	1	74	17.27	17.41	17.26					
15	256QAM	36	0	17.32	17.43	17.28	19	5			
15	256QAM	36	20	17.25	17.41	17.13					
15	256QAM	36	36	17.34	17.22	17.22					
15	256QAM	75	0	17.24	17.31	17.23					
Channel											
Frequency (MHz)				819	831.5	844	Tune-up (mHz)	MPE (dB)			
10	QPSK	1	0	22.30	22.39	22.31	24	0			
10	QPSK	1	25	22.24	22.38	22.14					
10	QPSK	1	49	22.31	22.34	22.29					
10	QPSK	25	0	21.25	21.44	21.33	23	1			
10	QPSK	25	12	21.39	21.30	21.24					
10	QPSK	25	25	21.29	21.29	21.15					
10	QPSK	50	0	21.34	21.39	21.31	23	1			
10	16QAM	1	0	21.16	21.17	21.15					
10	16QAM	1	25	21.25	21.16	21.25					
10	16QAM	1	49	21.30	21.13	21.13	22	2			
10	16QAM	25	0	20.40	20.37	20.24					
10	16QAM	25	12	20.22	20.30	20.31					
10	16QAM	25	25	20.36	20.30	20.26	21	3			
10	16QAM	50	0	20.25	20.43	20.30					
10	64QAM	1	0	20.10	20.18	20.22					
10	64QAM	1	25	20.31	20.09	20.24	22	2			
10	64QAM	1	49	20.19	20.17	20.35					
10	64QAM	25	0	19.27	19.27	19.35					
10	64QAM	25	12	19.16	19.36	19.24	21	3			
10	64QAM	25	25	19.37	19.24	19.37					
10	64QAM	50	0	19.24	19.33	19.24					
10	256QAM	1	0	17.34	17.45	17.25	19	5			
10	256QAM	1	25	17.38	17.26	17.28					
10	256QAM	1	49	17.23	17.36	17.27					
10	256QAM	36	0	17.25	17.36	17.25	19	5			
10	256QAM	36	20	17.18	17.32	17.18					
10	256QAM	36	36	17.24	17.22	17.22					
10	256QAM	75	0	17.12	17.19	17.17					
10	256QAM	75	12	17.21	17.16	17.16					
Channel											
Frequency (MHz)				815.5	831.5	841.5	Tune-up (mHz)	MPE (dB)			
5	QPSK	1	0	22.35	22.48	22.23	24	0			
5	QPSK	1	12	22.24	22.38	22.16					
5	QPSK	1	24	22.31	22.34	22.29					
5	QPSK	12	0	21.32	21.36	21.26	23	1			
5	QPSK	12	7	21.40	21.29	21.28					
5	QPSK	12	14	21.28	21.33	21.24					
5	QPSK	25	0	21.29	21.35	21.25	23	1			
5	16QAM	1	0	21.19	21.26	21.18					
5	16QAM	1	12	21.28	21.19	21.28					
5	16QAM	1	24	21.34	21.14	21.11	22	2			
5	16QAM	12	0	20.41	20.37	20.24					
5	16QAM	12	7	20.25	20.32	20.33					
5	16QAM	12	14	20.31	20.27	20.28	21	3			
5	16QAM	25	0	20.34	20.35	20.24					
5	16QAM	25	7	20.22	20.33	20.34					
5	16QAM	25	14	20.36	20.30	20.26	22	2			
5	16QAM	50	0	20.29	20.13	20.28					
5	64QAM	1	0	20.13	20.21	20.27					
5	64QAM	1	12	20.23	20.13	20.27	21	3			
5	64QAM	12	7	19.23	19.22	19.33					
5	64QAM	12	14	19.39	19.23	19.33					
5	64QAM	25	0	19.28	19.28	19.28	19	5			
5	64QAM	25	7	19.33	19.35	19.36					
5	64QAM	25	14	19.28	19.33	19.33					
5	256QAM	1	0	17.15	17.36	17.26	19	5			
5	256QAM	1	12	17.30	17.25	17.28					
5	256QAM	1	24	17.19	17.32	17.27					
5	256QAM	36	0	17.26	17.32	17.16	19	5			
5	256QAM	36	12	17.18	17.31	17.18					
5	256QAM	36	24	17.26	17.22	17.22					
Channel											
Frequency (MHz)				815.5	831.5	841.5	Tune-up (mHz)		MPE (dB)		
3	QPSK	1	0	22.34	22.46	22.25	24	0			
3	QPSK	1	8	22.26	22.32	22.22					
3	QPSK	1	16	22.31	22.31	22.23					
3	QPSK	8	0	21.35	21.35	21.26	23	1			
3	QPSK	8	4	21.39	21.35	21.34					
3	QPSK	8	8	21.28	21.33	21.24					
3	QPSK	15	0	21.33	21.39	21.28	23	1			
3	16QAM	1	0	21.21	21.22	21.21					
3	16QAM	1	8	21.21	21.21	21.19					
3	16QAM	1	16	21.29	21.21	21.19	22	2			
3	16QAM	8	0	20.43	20.40	20.21					
3	16QAM	8	4	20.38	20.39	20.28					
3	16QAM	8	7	20.35	20.34	20.22	21	3			
3	16QAM	15	0	20.26	20.39	20.23					
3	64QAM	1	0	20.10	20.16	20.21					
3	64QAM	1	8	20.29	20.10	20.31	22	2			
3	64QAM	1	16	20.09	20.22	20.22					
3	64QAM	8	0	19.28	19.30	19.28					
3	64QAM	8	4	19.24	19.23	19.35	21	3			
3	64QAM	8	7	19.36	19.27	19.35					
3	64QAM	15	0	19.25	19.28	19.28					
3	256QAM	1	0	17.29	17.44	17.21	19	5			
3	256QAM	1	8	17.32	17.29	17.26					
3	256QAM	1	16	17.25	17.35	17.24					
3	256QAM	8	0	17.30	17.31	17.20	19	5			
3	256QAM	8	4	17.13	17.38	17.08					
3	256QAM	8	7	17.27	17.33	17.16					
3	256QAM	15	0	17.30	17.18	17.20					
Channel											
Frequency (MHz)				26097	26095	27033	Tune-up (mHz)	MPE (dB)			
1.4	QPSK	1	0	22.36	22.42	22.28	24	0			
1.4	QPSK	1	0	22.20	22.45	22.25					
1.4	QPSK	1	0	22.50	22.30	22.23					
1.4	QPSK	1	0	22.38	22.38	22.21	23	1			
1.4	QPSK	3	0	22.09	22.34	22.21					
1.4	QPSK	3	0	22.23	22.40	22.21					
1.4	QPSK	3	0	21.30	21.38	21.25	23	1			
1.4	16QAM	1	0	21.20	21.27	21.15					
1.4	16QAM	1	0	21.22	21.27	21.15					
1.4	16QAM	3	0	21.18	21.18	21.24	22	2			
1.4	16QAM	3	0	21.28	21.29	21.17					
1.4	16QAM	3	0	21.10	21.18	21.13					
1.4	16QAM	6	0	20.29	20.33	20.23	22	2			
1.4	16QAM	6	0	20.34	20.34	20.24					
1.4	16QAM	6	0	20.27	20.14	20.19					
1.4	16QAM	1	0	20.18	20.10	20.26	22	2			
1.4	16QAM	3	0	20.24	20.26	20.26					
1.4	16QAM	3	0	20.10	20.16	20.20					
1.4	64QAM	3	0	20.11	20.09	20.19	21	3			
1.4	64QAM	6	0	19.28	19.28	19.21					
1.4	64QAM	6	0	17.35	17.32	17.21					
1.4	256QAM	1	0	17.31	17.18	17.27	19	5			
1.4	256QAM	1	0	17.20	17.27	17.27					
1.4	256QAM	3	0	17.31	17.34	17.24					
1.4	256QAM	1	0	17.20	17.30	17.19	19	5			
1.4	256QAM	1	0	17.22	17.23	17.14					
1.4	256QAM	3	0	17.33	17.23	17.19					



Band 2&other PA Ant 1 EC17										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-up (ms)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.23	18.20	18.14	19.5	0		
20	QPSK	1	49	18.15	18.12	18.06				
20	QPSK	1	99	18.17	18.15	18.12				
20	QPSK	50	0	18.24	18.20	18.22				
20	QPSK	50	24	18.18	18.13	18.11	19.5	0		
20	QPSK	50	50	18.22	18.13	18.11				
20	QPSK	100	0	18.25	18.22	18.21				
20	16QAM	100	0	18.21	18.22	18.07				
20	16QAM	1	49	18.13	18.13	18.10	19.5	0		
20	16QAM	1	99	18.22	18.10	18.08				
20	16QAM	1	99	18.23	18.24	18.20				
20	16QAM	50	24	18.18	18.22	18.23				
20	16QAM	50	50	18.23	18.26	18.09	19.5	0		
20	16QAM	100	0	18.20	18.24	18.20				
20	16QAM	1	0	18.27	18.21	18.17				
20	16QAM	1	49	18.12	18.22	18.18				
20	16QAM	1	99	18.19	18.19	18.10	19.5	0		
20	16QAM	50	0	18.19	18.20	18.26				
20	16QAM	50	24	18.29	18.16	18.23				
20	16QAM	100	0	18.25	18.22	18.16				
20	256QAM	1	49	17.28	17.14	17.18	19	0.5		
20	256QAM	1	99	17.19	17.22	17.05				
20	256QAM	50	24	17.22	17.24	17.27				
20	256QAM	50	24	17.27	17.25	17.19				
20	256QAM	50	50	17.16	17.19	17.17	19	0.5		
20	256QAM	100	0	17.18	17.19	17.14				
Channel				18697	18698	19165	Turn-up (ms)	MPR (dB)		
Frequency (MHz)										
15	QPSK	1	0	18.17	18.26	18.03	19.5	0		
15	QPSK	1	49	18.08	18.21	18.09				
15	QPSK	1	74	18.14	18.04	18.05				
15	QPSK	36	0	18.14	18.10	18.22				
15	QPSK	36	20	18.07	18.09	18.07	19.5	0		
15	QPSK	36	39	18.17	18.09	18.01				
15	QPSK	75	0	18.13	18.26	18.05				
15	16QAM	1	0	18.12	18.12	17.96				
15	16QAM	1	37	18.08	18.10	18.01	19.5	0		
15	16QAM	1	74	18.17	18.21	18.02				
15	16QAM	36	0	18.16	18.16	18.29				
15	16QAM	36	20	18.06	18.21	18.17				
15	16QAM	36	39	18.24	18.20	18.02	19.5	0		
15	16QAM	75	0	18.21	18.20	18.20				
15	16QAM	1	0	18.27	18.21	18.17				
15	16QAM	1	37	18.08	18.10	18.02				
15	16QAM	1	74	18.14	18.17	18.01	19.5	0		
15	16QAM	36	0	18.18	18.22	18.25				
15	16QAM	36	20	18.21	18.20	18.20				
15	16QAM	36	39	18.02	18.15	18.09				
15	16QAM	75	0	18.23	18.20	18.29	19	0.5		
15	256QAM	1	37	17.25	17.18	17.19				
15	256QAM	1	74	17.15	17.18	17.04				
15	256QAM	36	20	17.20	17.24	17.13				
15	256QAM	36	39	17.16	17.18	17.08	19	0.5		
15	256QAM	75	0	17.11	17.12	17.08				
Channel				18699	18699	19166	Turn-up (ms)	MPR (dB)		
Frequency (MHz)										
10	QPSK	1	0	18.05	18.07	18.10	19.5	0		
10	QPSK	1	25	18.03	18.14	18.04				
10	QPSK	1	49	18.06	18.13	18.06				
10	QPSK	25	25	18.07	18.06	18.13				
10	QPSK	25	12	18.05	18.12	18.04	19.5	0		
10	QPSK	25	25	18.22	18.07	18.02				
10	QPSK	25	39	18.07	18.09	18.14				
10	16QAM	1	0	18.20	18.15	17.99				
10	16QAM	1	25	18.09	18.01	18.02	19.5	0		
10	16QAM	1	49	18.13	18.08	18.01				
10	16QAM	25	0	18.11	18.24	18.18				
10	16QAM	25	12	18.12	18.20	18.20				
10	16QAM	25	12	18.18	18.20	18.24	19.5	0		
10	16QAM	50	0	18.17	18.18	18.24				
10	16QAM	1	0	18.25	18.16	18.19				
10	16QAM	1	49	18.05	18.15	18.08				
10	16QAM	1	49	18.12	18.18	18.08	19.5	0		
10	16QAM	25	0	18.16	18.21	18.23				
10	16QAM	25	12	18.21	18.20	18.24				
10	16QAM	25	25	18.08	18.17	18.10				
10	16QAM	50	0	18.14	18.28	18.26	19	0.5		
10	256QAM	1	25	17.23	17.20	17.17				
10	256QAM	1	25	17.23	17.15	17.15				
10	256QAM	1	49	17.18	17.17	17.05				
10	256QAM	25	12	17.25	17.18	17.11	19	0.5		
10	256QAM	25	25	17.10	17.11	17.11				
10	256QAM	50	0	17.14	17.11	17.13				
Channel				18692	18692	19175	Turn-up (ms)	MPR (dB)		
Frequency (MHz)										
5	QPSK	1	0	18.15	18.26	18.06	19.5	0		
5	QPSK	1	12	18.05	18.13	18.07				
5	QPSK	1	24	18.07	18.05	18.12				
5	QPSK	12	0	18.15	18.13	18.08				
5	QPSK	12	7	18.14	18.02	18.05	19.5	0		
5	QPSK	12	13	18.22	18.03	18.01				
5	QPSK	25	0	18.08	18.13	18.04				
5	16QAM	1	0	18.13	18.17	18.08				
5	16QAM	1	12	18.07	18.07	17.94	19.5	0		
5	16QAM	1	12	18.15	18.03	18.06				
5	16QAM	12	0	18.15	18.21	18.18				
5	16QAM	12	7	18.13	18.10	18.21				
5	16QAM	12	0	18.14	18.15	18.04	19.5	0		
5	16QAM	25	0	18.28	18.22	18.20				
5	16QAM	1	0	18.20	18.16	18.10				
5	16QAM	1	12	18.03	18.15	18.05				
5	16QAM	1	24	18.14	18.12	17.99	19.5	0		
5	16QAM	12	0	18.17	18.19	18.23				
5	16QAM	12	7	18.20	18.07	18.21				
5	16QAM	12	13	18.08	18.17	18.12				
5	16QAM	25	0	18.22	18.24	18.29	19	0.5		
5	256QAM	1	0	17.21	17.26	17.19				
5	256QAM	1	12	17.21	17.12	17.12				
5	256QAM	1	24	17.20	17.19	17.02				
5	256QAM	12	0	17.23	17.17	17.22	19	0.5		
5	256QAM	12	7	17.27	17.18	17.15				
5	256QAM	12	13	17.19	17.15	17.15				
5	256QAM	25	0	17.19	17.06	17.05				
Channel				18697	18698	19163	Turn-up (ms)	MPR (dB)		
Frequency (MHz)										
3	QPSK	1	0	18.22	18.24	18.05	19.5	0		
3	QPSK	1	5	18.10	18.21	18.04				
3	QPSK	1	14	18.15	18.10	18.01				
3	QPSK	8	0	18.22	18.14	18.14				
3	QPSK	8	7	18.13	18.02	18.02	19.5	0		
3	QPSK	8	7	18.14	18.02	18.09				
3	QPSK	15	0	18.22	18.24	18.16				
3	QPSK	15	7	18.11	18.15	18.15				
3	QPSK	1	8	18.07	18.06	17.96	19.5	0		
3	QPSK	1	14	18.10	18.01	18.07				
3	QPSK	8	0	18.18	18.15	18.22				
3	QPSK	8	7	18.22	18.17	18.17				
3	QPSK	1	8	18.18	18.15	18.15	19.5	0		
3	QPSK	8	7	18.22	18.16	18.12				
3	QPSK	1	8	18.06	18.22	18.18				
3	QPSK	8	7	18.22	18.17	18.17				
3	QPSK	1	8	18.06	18.15	18.15	19.5	0		
3	QPSK	8	7	18.07	18.16	18.16				
3	QPSK	1	8	18.16	18.21	18.25				
3	QPSK	8	7	18.19	18.13	18.13				
3	QPSK	1	8	18.10	18.21	18.21	19.5	0		
3	QPSK	8	7	18.20	18.12	18.12				
3	QPSK	1	8	18.20	18.22	18.20				
3	QPSK	17	0	17.25	17.03	17.03				
3	256QAM	1	14	17.17	17.20	17.00	19	0.5		
3	256QAM	1	14	17.17	17.22	17.00				
3	256QAM	1	17	17.17	17.13	17.01				
3	256QAM	8	7	17.25	17.20	17.00				
3	256QAM	8	7	17.25	17.17	17.00	19	0.5		
3	256QAM	8	7	17.25	17.17	17.00				
3	256QAM	8	7	17.19	17.13	17.01				
3	256QAM	8	7	17.16	17.13	17.00				
Channel				18697	18697	19163	Turn-up (ms)	MPR (dB)		
Frequency (MHz)										
1.4	QPSK	1	0	18.14	18.24	18.04	19.5	0		
1.4	QPSK	1	3	18.04	18.16	18.04				
1.4	QPSK	1	5	18.15	18.10	18.06				
1.4	QPSK	3	0	18.15	18.10	18.07				
1.4	QPSK	3	3	18.13	18.12	18.07	19.5	0		
1.4	QPSK	3	3	18.13	18.12	18.10				
1.4	QPSK	3	5	18.14	18.13	18.05				
1.4	16QAM	1	3	18.08	18.05	17.94				
1.4	16QAM	1	3	18.17	18.03	18.02	19.5	0		
1.4	16QAM	3	0	18.18	18.18	18.23				
1.4	16QAM	3	1	18.11	18.15	18.16				
1.4	16QAM	6	0	18.22	18.23	18.27				
1.4	16QAM	1	3	18.15	18.16	18.07	19.5	0		
1.4	16QAM	3	3	18.17	18.23	18.21				
1.4	16QAM	3	5	18.17	18.22	18.21				
1.4	16QAM	6	0	18.11	18.19	18.04				
1.4	16QAM	3	3	18.14	18.22	18.20	19.5	0		
1.4	16QAM	3	5	17.15	17.20	17.00				
1.4	16QAM	1	3	17.19	17.13	17.01				
1.4	16QAM	1	3	17.16	17.16	17.00				
1.4	256QAM	3	1	17.20	17.12	17.00	19	0.5		
1.4	256QAM	3	1	17.19	17.10	17.00				
1.4	256QAM	3	1	17.17	17.12	17.00				
1.4	256QAM	3	1	17.14	17.12	17.00				

Band 25 Ant 1 EC17												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up (dB)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	18.30	18.30	18.34	19.5	0				
20	QPSK	1	49	18.21	18.33	18.21						
20	QPSK	1	99	18.27	18.18	18.17						
20	QPSK	50	0	18.24	18.31	18.26						
20	QPSK	50	24	18.21	18.25	18.23						
20	QPSK	50	50	18.27	18.18	18.16	19.5	0				
20	QPSK	100	0	18.27	18.31	18.16						
20	16QAM	1	0	18.27	18.17	18.15						
20	16QAM	1	49	18.16	18.11	18.26						
20	16QAM	1	99	18.13	18.30	18.21						
20	16QAM	50	0	18.22	18.30	18.33	19.5	0				
20	16QAM	50	24	18.30	18.30	18.27						
20	16QAM	50	50	18.19	18.25	18.16						
20	16QAM	100	0	18.30	18.30	18.30						
20	64QAM	1	0	18.24	18.20	18.32						
20	64QAM	1	49	18.23	18.30	18.14	19.5	0				
20	64QAM	1	99	18.34	18.20	18.30						
20	64QAM	50	0	18.30	18.30	18.29						
20	64QAM	50	24	18.25	18.24	18.37						
20	64QAM	50	50	18.30	18.16	18.17						
20	256QAM	1	49	17.37	17.41	17.29	19	0.5				
20	256QAM	1	99	17.22	17.30	17.13						
20	256QAM	50	24	17.33	17.30	17.28						
20	256QAM	50	24	17.33	17.30	17.28						
20	256QAM	50	50	17.27	17.30	17.28						
20	256QAM	100	0	17.27	17.30	17.28	19	0.5				
Channel												
Frequency (MHz)												
18	QPSK	1	0	18.23	18.30	18.23	19.5	0				
18	QPSK	1	37	18.11	18.30	18.10						
18	QPSK	1	74	18.16	18.10	18.17						
18	QPSK	36	0	18.15	18.28	18.22						
18	QPSK	36	20	18.12	18.12	18.18						
18	QPSK	36	39	18.27	18.10	18.03	19.5	0				
18	QPSK	75	0	18.19	18.22	18.18						
18	16QAM	1	0	18.22	18.08	18.06						
18	16QAM	1	37	18.08	18.07	18.19						
18	16QAM	1	74	18.04	18.21	18.21						
18	16QAM	36	0	18.15	18.28	18.24	19.5	0				
18	16QAM	36	20	18.20	18.22	18.22						
18	16QAM	36	39	18.33	18.20	18.24						
18	16QAM	75	0	18.22	18.28	18.30						
18	64QAM	1	0	18.20	18.30	18.22						
18	64QAM	1	37	18.13	18.20	18.24	18.5	0				
18	64QAM	1	74	18.32	18.24	18.26						
18	64QAM	36	0	18.28	18.27	18.26						
18	64QAM	36	20	18.33	18.20	18.24						
18	64QAM	36	39	18.28	18.08	18.09						
18	256QAM	1	37	17.20	17.31	17.13	19	0.5				
18	256QAM	1	74	17.11	17.28	17.01						
18	256QAM	36	0	17.23	17.30	17.21						
18	256QAM	36	20	17.28	17.19	17.23						
18	256QAM	36	39	17.16	17.28	17.15						
18	256QAM	75	0	17.05	17.11	17.12	19	0.5				
Channel												
Frequency (MHz)												
18	QPSK	1	0	18.18	18.30	18.18	19.5	0				
18	QPSK	1	25	18.20	18.33	18.19						
18	QPSK	1	49	18.26	18.13	18.09						
18	QPSK	25	0	18.22	18.27	18.17						
18	QPSK	25	13	18.17	18.20	18.11						
18	QPSK	25	25	18.24	18.11	18.06	19.5	0				
18	QPSK	50	0	18.22	18.20	18.14						
18	16QAM	1	0	18.23	18.10	18.08						
18	16QAM	1	25	18.07	18.02	18.20						
18	16QAM	1	49	18.02	18.28	18.15						
18	16QAM	25	0	18.10	18.20	18.23	19.5	0				
18	16QAM	25	13	18.23	18.27	18.22						
18	16QAM	25	25	18.27	18.20	18.22						
18	16QAM	50	0	18.30	18.30	18.24						
18	64QAM	1	0	18.13	18.20	18.28						
18	64QAM	1	37	18.11	18.30	18.10	18.5	0				
18	64QAM	1	49	18.38	18.34	18.22						
18	64QAM	25	0	18.28	18.28	18.28						
18	64QAM	25	13	18.20	18.15	18.25						
18	64QAM	25	25	18.30	18.12	18.12						
18	64QAM	50	0	18.24	18.18	18.34	19.5	0				
18	256QAM	1	37	17.13	17.30	17.11						
18	256QAM	1	25	17.23	17.16	17.07						
18	256QAM	25	0	17.21	17.20	17.21						
18	256QAM	25	12	17.26	17.28	17.21						
18	256QAM	25	25	17.34	17.21	17.18	19	0.5				
18	256QAM	50	0	17.14	17.12	17.11						
Channel												
Frequency (MHz)												
5	QPSK	1	0	18.23	18.31	18.21	19.5	0				
5	QPSK	1	12	18.17	18.23	18.15						
5	QPSK	1	24	18.16	18.06	18.13						
5	QPSK	12	0	18.23	18.20	18.12						
5	QPSK	12	7	18.14	18.13	18.17						
5	QPSK	12	13	18.16	18.08	18.02	19.5	0				
5	QPSK	25	0	18.23	18.21	18.12						
5	16QAM	1	0	18.18	18.07	18.12						
5	16QAM	1	12	18.08	18.05	18.17						
5	16QAM	1	24	18.10	18.25	18.12						
5	16QAM	12	0	18.12	18.29	18.30	19.5	0				
5	16QAM	12	7	18.30	18.23	18.21						
5	16QAM	12	13	18.33	18.20	18.09						
5	64QAM	1	0	18.20	18.25	18.24						
5	64QAM	1	24	18.13	18.20	18.04						
5	64QAM	1	24	18.29	18.17	18.23	19.5	0				
5	64QAM	12	0	18.30	18.30	18.26						
5	64QAM	12	7	18.23	18.16	18.16						
5	64QAM	12	13	18.20	18.10	18.13						
5	64QAM	25	0	18.22	18.20	18.30						
5	256QAM	1	1	17.06	17.31	17.15	19	0.5				
5	256QAM	1	12	17.23	17.18	17.18						
5	256QAM	1	24	17.12	17.30	17.08						
5	256QAM	12	0	17.20	17.22	17.21						
5	256QAM	12	7	17.29	17.18	17.21						
5	256QAM	12	13	17.23	17.21	17.16	19	0.5				
5	256QAM	25	0	17.14	17.12	17.11						
Channel												
Frequency (MHz)												
3	QPSK	1	0	18.27	18.30	18.18	19.5	0				
3	QPSK	1	8	18.20	18.20	18.15						
3	QPSK	1	14	18.16	18.11	18.07						
3	QPSK	8	0	18.14	18.24	18.16						
3	QPSK	8	4	18.13	18.14	18.16						
3	QPSK	8	7	18.23	18.07	18.03	19.5	0				
3	QPSK	15	0	18.18	18.20	18.10						
3	16QAM	1	0	18.25	18.09	18.09						
3	16QAM	1	8	18.08	18.00	18.24						
3	16QAM	1	14	18.03	18.20	18.18						
3	16QAM	8	0	18.17	18.20	18.27	19.5	0				
3	16QAM	8	4	18.20	18.25	18.24						
3	16QAM	15	0	18.29	18.30	18.11						
3	64QAM	1	0	18.27	18.24	18.25						
3	64QAM	1	8	18.14	18.18	18.20						
3	64QAM	1	8	18.15	18.25	18.17	19.5	0				
3	64QAM	8	4	18.19	18.30	18.21						
3	64QAM	8	4	18.22	18.24	18.18						
3	64QAM	15	0	18.17	18.24	18.16						
3	64QAM	15	8	18.16	18.24	18.16						
3	256QAM	1	1	17.23	17.25	17.21	19	0.5				
3	256QAM	1	8	17.25	17.22	17.17						
3	256QAM	1	14	17.10	17.25	17.07						
3	256QAM	8	4	17.19	17.20	17.17						
3	256QAM	8	7	17.21	17.18	17.24						
3	256QAM	15	0	17.07	17.09	17.10	19	0.5				
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	18.22	18.30	18.14	19.5	0				
1.4	QPSK	1	8	18.13	18.28	18.11						
1.4	QPSK	1	16	18.10	18.10	18.16						
1.4	QPSK	8	0	18.22	18.27	18.28						
1.4	QPSK	8	4	18.14	18.16	18.16						
1.4	QPSK	3	0	18.20	18.16	17.96	19.5	0				
1.4	QPSK	3	3	18.20	18.16	17.96						
1.4	16QAM	1	0	18.22	18.16	18.14						
1.4	16QAM	1	8	18.06	18.01	18.24						
1.4	16QAM	1	16	18.17	18.20	18.11						
1.4	16QAM	3	0	18.14	18.25	18.27	19.5	0				
1.4	16QAM	3	3	18.26	18.28	18.27						
1.4	16QAM	3	8	18.22	18.23	18.23						
1.4	16QAM	8	0	18.26	18.27	18.21						
1.4	16QAM	8	4	18.14	18.22	18.22						
1.4	16QAM	1	0	18.22	18.28	18.21	19.5	0				
1.4	16QAM	1	8	18.17	18.14	18.27						
1.4	16QAM	1	16	18.20	18.28	18.21						
1.4	16QAM	3	0	18.30	18.29	18.30						
1.4	16QAM	3	8	18.19	18.14	18.30						
1.4	16QAM	8	0	18.25	18.15	18.08	19.5	0				
1.4	16QAM	8	4	18.25	18.15	18.08						
1.4	16QAM	15	0	18.20	18.26	18.30						
1.4	16QAM	15	8	18.23	18.23	18.23						
1.4	16QAM	15	16	18.23	18.23	18.23						
1.4	256QAM	1	1	17.23	17.14	17.21	19	0.5				
1.4	256QAM	1	8	17.24	17.26	17.19						
1.4	256QAM	1	16	17.23	17.24	17.21						
1.4	256QAM	8	4	17.23	17.19	17.28						
1.4	256QAM	8	7	17.27	17.17	17.23						
1.4	256QAM	15	0	17.21	17.19	17.23	19	0.5				



Band 2&other PA Ant 4 EC17														
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Hsp Ch./Freq.	Power Hsp Ch./Freq.	Turnup Time (sec)	MPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	12.88	13.00	12.88			14.3	0				
20	QPSK	1	8	12.78	12.84	12.80								
20	QPSK	1	99	12.81	12.88	12.81								
20	QPSK	50	0	12.92	12.96	12.99			14.3	0				
20	QPSK	50	24	12.80	12.84	12.88								
20	QPSK	50	50	12.85	12.88	12.81								
20	16QAM	1	49	12.70	12.84	12.87			14.3	0				
20	16QAM	1	99	12.71	12.73	12.66								
20	16QAM	50	0	12.80	12.80	12.89			14.3	0				
20	16QAM	50	24	12.74	12.90	12.82								
20	16QAM	50	50	12.68	12.86	12.80			14.3	0				
20	16QAM	100	0	12.90	12.88	12.80								
20	64QAM	1	0	12.71	12.87	12.86			14.3	0				
20	64QAM	1	49	12.81	12.85	12.83								
20	64QAM	50	0	12.81	12.88	12.82			14.3	0				
20	64QAM	50	24	12.83	12.81	12.72								
20	64QAM	100	0	12.90	12.88	12.80			14.3	0				
20	64QAM	100	0	12.98	12.86	12.86								
20	256QAM	1	49	12.84	12.77	12.71			14.3	0				
20	256QAM	1	99	12.84	12.89	12.77								
20	256QAM	50	0	12.80	12.87	12.82			14.3	0				
20	256QAM	50	24	12.92	12.84	12.83								
20	256QAM	100	0	12.87	12.75	12.65			14.3	0				
20	256QAM	100	0	12.79	12.82	12.79								
Channel														
Frequency (MHz)														
15	QPSK	1	0	12.84	12.92	12.79			14.3	0				
15	QPSK	1	8	12.78	12.79	12.73								
15	QPSK	1	74	12.73	12.87	12.78			14.3	0				
15	QPSK	36	0	12.81	12.86	12.78								
15	QPSK	36	20	12.78	12.87	12.68			14.3	0				
15	QPSK	36	99	12.77	12.88	12.79								
15	16QAM	75	0	12.81	12.86	12.85			14.3	0				
15	16QAM	75	0	12.78	12.80	12.86								
15	16QAM	1	37	12.86	12.77	12.55			14.3	0				
15	16QAM	1	8	12.76	12.88	12.85								
15	16QAM	36	0	12.78	12.89	12.88			14.3	0				
15	16QAM	36	20	12.72	12.83	12.50								
15	16QAM	75	0	12.84	12.81	12.72			14.3	0				
15	64QAM	1	0	12.70	12.86	12.75								
15	64QAM	1	24	12.74	12.78	12.84			14.3	0				
15	64QAM	1	74	12.75	12.85	12.51								
15	64QAM	36	0	12.60	12.81	12.74			14.3	0				
15	64QAM	36	20	12.78	12.83	12.74								
15	64QAM	36	99	12.75	12.75	12.75			14.3	0				
15	64QAM	36	99	12.75	12.75	12.75								
15	64QAM	75	0	12.81	12.84	12.82			14.3	0				
15	64QAM	75	0	12.80	12.80	12.80								
15	256QAM	1	37	12.85	12.77	12.67			14.3	0				
15	256QAM	1	74	12.77	12.83	12.72								
15	256QAM	36	0	12.78	12.75	12.66			14.3	0				
15	256QAM	36	20	12.84	12.78	12.72								
15	256QAM	36	99	12.67	12.68	12.62			14.3	0				
15	256QAM	36	99	12.68	12.72	12.67								
Channel														
Frequency (MHz)														
10	QPSK	1	0	12.80	12.84	12.83			14.3	0				
10	QPSK	1	25	12.87	12.78	12.73								
10	QPSK	1	49	12.80	12.86	12.79			14.3	0				
10	QPSK	25	0	12.80	12.87	12.79								
10	QPSK	25	12	12.78	12.87	12.68			14.3	0				
10	QPSK	25	25	12.82	12.85	12.74								
10	16QAM	1	0	12.71	12.88	12.83			14.3	0				
10	16QAM	1	25	12.63	12.78	12.62								
10	16QAM	25	0	12.78	12.89	12.78			14.3	0				
10	16QAM	25	12	12.73	12.88	12.62								
10	16QAM	25	12	12.78	12.78	12.78			14.3	0				
10	16QAM	50	0	12.83	12.75	12.70								
10	64QAM	1	0	12.60	12.80	12.70			14.3	0				
10	64QAM	1	25	12.71	12.78	12.65								
10	64QAM	1	49	12.73	12.67	12.56			14.3	0				
10	64QAM	25	0	12.69	12.73	12.63								
10	64QAM	25	12	12.71	12.89	12.66			14.3	0				
10	64QAM	25	25	12.76	12.84	12.80								
10	64QAM	50	0	12.91	12.81	12.79			14.3	0				
10	256QAM	1	25	12.71	12.82	12.65								
10	256QAM	1	25	12.85	12.72	12.63			14.3	0				
10	256QAM	49	12	12.75	12.86	12.66								
10	256QAM	25	0	12.80	12.71	12.68			14.3	0				
10	256QAM	25	25	12.87	12.76	12.58								
10	256QAM	50	0	12.78	12.71	12.77			14.3	0				
Channel														
Frequency (MHz)														
5	QPSK	1	0	12.80	12.87	12.83			14.3	0				
5	QPSK	1	8	12.76	12.83	12.78								
5	QPSK	1	14	12.80	12.80	12.71			14.3	0				
5	QPSK	8	0	12.86	12.81	12.85								
5	QPSK	8	4	12.88	12.86	12.72			14.3	0				
5	QPSK	7	0	12.80	12.87	12.79								
5	16QAM	1	0	12.70	12.81	12.80			14.3	0				
5	16QAM	1	8	12.70	12.73	12.68								
5	16QAM	1	14	12.76	12.88	12.58			14.3	0				
5	16QAM	8	4	12.72	12.84	12.60								
5	16QAM	8	12	12.66	12.72	12.70			14.3	0				
5	16QAM	16	0	12.80	12.78	12.73								
5	64QAM	1	0	12.71	12.86	12.76			14.3	0				
5	64QAM	1	8	12.72	12.81	12.66								
5	64QAM	1	14	12.77	12.65	12.52			14.3	0				
5	64QAM	8	0	12.67	12.81	12.75								
5	64QAM	8	4	12.74	12.88	12.87			14.3	0				
5	64QAM	8	7	12.72	12.76	12.74								
5	256QAM	1	0	12.77	12.86	12.82			14.3	0				
5	256QAM	1	8	12.89	12.67	12.60								
5	256QAM	7	0	12.75	12.89	12.80			14.3	0				
5	256QAM	8	4	12.75	12.77	12.84								
5	256QAM	16	0	12.73	12.85	12.67			14.3	0				
5	256QAM	16	0	12.73	12.85	12.67								
5	256QAM	1	14	12.78	12.78	12.68			14.3	0				
5	256QAM	1	14	12.78	12.78	12.68								
5	256QAM	8	7	12.76	12.77	12.84			14.3	0				
5	256QAM	8	7	12.82	12.66	12.58								
5	256QAM	15	0	12.73	12.85	12.67			14.3	0				
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	12.80	12.86	12.83			14.3	0				
1.4	QPSK	1	8	12.76	12.77	12.73								
1.4	QPSK	1	5	12.76	12.85	12.78			14.3	0				
1.4	QPSK	3	0	12.89	12.80	12.82								
1.4	QPSK	3	3	12.87	12.80	12.82			14.3	0				
1.4	QPSK	3	3	12.76	12.84	12.78								
1.4	QPSK	3	3	12.90	12.84	12.87			14.3	0				
1.4	QPSK	3	3	12.80	12.87	12.80								
1.4	16QAM	1	3	12.81	12.85	12.80			14.3	0				
1.4	16QAM	1	3	12.74	12.86	12.82								
1.4	16QAM	1	3	12.83	12.86	12.82			14.3	0				
1.4	16QAM	3	0	12.81	12.79	12.76								
1.4	16QAM	3	3	12.88	12.77	12.78			14.3	0				
1.4	16QAM	3	3	12.88	12.77	12.78								
1.4	16QAM	3	3	12.68	12.88	12.79			14.3	0				
1.4	16QAM	3	3	12.68	12.88	12.79								
1.4	64QAM	1	0	12.70	12.87	12.80			14.3	0				
1.4	64QAM	1	3	12.72	12.82	12.75								
1.4	64QAM	3	0	12.68	12.80	12.84			14.3	0				
1.4	64QAM	3	3	12.70	12.87	12.80								
1.4	64QAM	3	3	12.74	12.88	12.78			14.3	0				
1.4	64QAM	3	3	12.80	12.87	12.77								
1.4	256QAM	1	3	12.84	12.73	12.71			14.3	0				
1.4	256QAM	1	3	12.78	12.85	12.80								
1.4	256QAM	3	0	12.89	12.76	12.75			14.3	0				
1.4	256QAM	3	3	12.95	12.71	12.59								
1.4	256QAM	3	3	12.88	12.68	12.62			14.3	0				
1.4	256QAM	3	3	12.88	12.68	12.62								

Band 12 Ant 4 EC17										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-up time (secs)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.68	20.70	20.70	21.9	0		
10	QPSK	1	25	20.69	20.69	20.69				
10	QPSK	1	49	20.65	20.67	20.68				
10	QPSK	25	0	20.68	20.74	20.69	21.9	0		
10	QPSK	25	12	20.53	20.63	20.61				
10	QPSK	25	25	20.55	20.64	20.68				
10	QPSK	50	0	20.62	20.67	20.58	21.9	0		
10	16QAM	1	0	20.63	20.67	20.58				
10	16QAM	1	25	20.54	20.69	20.53				
10	16QAM	1	49	20.60	20.58	20.62	21.9	0		
10	16QAM	25	0	20.49	20.44	20.49				
10	16QAM	25	12	20.34	20.52	20.37				
10	16QAM	25	25	20.46	20.36	20.46	21.9	0		
10	16QAM	50	0	20.44	20.47	20.37				
10	64QAM	1	0	20.47	20.45	20.48				
10	64QAM	1	25	20.31	20.41	20.32	21.9	0		
10	64QAM	1	49	20.44	20.37	20.31				
10	64QAM	25	0	19.48	19.55	19.41				
10	64QAM	25	12	18.35	19.46	19.45	21	0.9		
10	64QAM	25	25	19.38	19.43	19.33				
10	64QAM	50	0	19.47	19.50	19.39				
10	256QAM	1	0	17.48	17.47	17.46	19	2.9		
10	256QAM	1	25	17.43	17.45	17.46				
10	256QAM	1	49	17.40	17.40	17.42				
10	256QAM	25	0	17.49	17.51	17.43	19	2.9		
10	256QAM	25	12	17.47	17.47	17.49				
10	256QAM	25	25	17.24	17.47	17.35				
10	256QAM	50	0	17.20	17.43	17.35	19	2.9		
Channel										
Frequency (MHz)				701.5	707.5	713.5				
5	QPSK	1	0	20.68	20.71	20.70	21.9	0		
5	QPSK	1	12	20.58	20.68	20.68				
5	QPSK	1	24	20.61	20.47	20.63				
5	QPSK	12	0	20.59	20.69	20.62	21.9	0		
5	QPSK	12	7	20.45	20.53	20.58				
5	QPSK	12	13	20.52	20.53	20.59				
5	QPSK	25	0	20.62	20.61	20.56	21.9	0		
5	16QAM	1	0	20.62	20.65	20.62				
5	16QAM	1	12	20.45	20.69	20.59				
5	16QAM	1	24	20.53	20.53	20.55	21.9	0		
5	16QAM	12	0	20.47	20.38	20.42				
5	16QAM	12	7	20.24	20.49	20.29				
5	16QAM	12	13	20.37	20.37	20.31	21	0.9		
5	16QAM	25	0	20.40	20.39	20.35				
5	64QAM	1	0	20.38	20.42	20.49				
5	64QAM	1	12	20.43	20.39	20.35	21.9	0		
5	64QAM	1	24	20.40	20.35	20.35				
5	64QAM	12	0	19.45	19.46	19.32				
5	64QAM	12	13	19.37	19.35	19.34	21	0.9		
5	64QAM	12	13	19.38	19.35	19.43				
5	64QAM	25	0	19.40	19.48	19.31				
5	256QAM	1	0	17.32	17.35	17.35	19	2.9		
5	256QAM	1	12	17.34	17.41	17.40				
5	256QAM	1	24	17.35	17.32	17.36				
5	256QAM	12	0	17.44	17.50	17.33	19	2.9		
5	256QAM	12	7	17.40	17.41	17.42				
5	256QAM	12	13	17.13	17.38	17.38				
5	256QAM	25	0	17.28	17.33	17.34	19	2.9		
Channel										
Frequency (MHz)				230.5	236.5	242.5				
3	QPSK	1	0	20.67	20.68	20.63	21.9	0		
3	QPSK	1	8	20.64	20.65	20.59				
3	QPSK	1	14	20.60	20.54	20.60				
3	QPSK	8	0	20.57	20.71	20.57	21.9	0		
3	QPSK	8	4	20.47	20.57	20.54				
3	QPSK	8	7	20.47	20.52	20.60				
3	16QAM	1	0	20.62	20.59	20.58	21.9	0		
3	16QAM	1	0	20.58	20.63	20.59				
3	16QAM	1	8	20.49	20.69	20.50				
3	16QAM	1	14	20.60	20.57	20.57	21.9	0		
3	16QAM	8	0	20.26	20.43	20.34				
3	16QAM	8	7	20.43	20.36	20.45				
3	16QAM	15	0	20.39	20.46	20.29	21.9	0		
3	16QAM	1	0	20.45	20.40	20.39				
3	16QAM	1	8	20.32	20.38	20.33				
3	64QAM	1	14	20.35	20.29	20.42	21	0.9		
3	64QAM	8	0	19.47	19.45	19.36				
3	64QAM	8	4	19.39	19.45	19.36				
3	64QAM	8	7	19.38	19.43	19.41	21	0.9		
3	64QAM	15	0	19.36	19.39	19.34				
3	256QAM	1	0	17.47	17.53	17.53				
3	256QAM	1	8	17.33	17.39	17.42	19	2.9		
3	256QAM	1	14	17.41	17.35	17.40				
3	256QAM	8	0	17.40	17.45	17.36				
3	256QAM	8	4	17.47	17.38	17.36	19	2.9		
3	256QAM	8	7	17.17	17.45	17.29				
3	256QAM	15	0	17.26	17.53	17.36				
Channel										
Frequency (MHz)				230.1	236.5	242.9				
1.4	QPSK	1	0	20.61	20.68	20.70	21.9	0		
1.4	QPSK	1	3	20.66	20.63	20.49				
1.4	QPSK	1	5	20.59	20.46	20.68				
1.4	QPSK	3	0	20.66	20.67	20.68	21.9	0		
1.4	QPSK	3	1	20.53	20.64	20.50				
1.4	QPSK	3	1	20.50	20.58	20.54				
1.4	QPSK	3	3	20.60	20.46	20.51	21.9	0		
1.4	16QAM	1	0	20.54	20.65	20.59				
1.4	16QAM	1	3	20.44	20.60	20.46				
1.4	16QAM	15	0	20.05	20.46	20.38	21.9	0		
1.4	16QAM	3	0	20.56	20.65	20.62				
1.4	16QAM	3	1	20.42	20.58	20.50				
1.4	16QAM	3	3	20.52	20.49	20.50	21.9	0		
1.4	16QAM	6	0	20.42	20.46	20.32				
1.4	64QAM	1	0	20.44	20.42	20.40				
1.4	64QAM	1	3	20.29	20.37	20.29	21.9	0		
1.4	64QAM	1	5	20.33	20.35	20.36				
1.4	64QAM	3	0	20.37	20.44	20.27				
1.4	64QAM	3	1	20.42	20.40	20.40	21	0.9		
1.4	64QAM	3	3	20.23	20.35	20.26				
1.4	64QAM	6	0	18.44	19.06	19.31				
1.4	256QAM	1	0	17.40	17.44	17.41	19	2.9		
1.4	256QAM	1	3	17.34	17.37	17.39	19	2.9		
1.4	256QAM	1	5	17.37	17.37	17.37				
1.4	256QAM	1	7	17.37	17.37	17.37				
1.4	256QAM	3	0	17.50	17.40	17.40	19	2.9		
1.4	256QAM	3	1	17.37	17.45	17.46				
1.4	256QAM	3	3	17.36	17.36	17.36				
1.4	256QAM	6	0	17.38	17.37	17.38	19	2.9		

Band 25 Ant 4 EC17														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	APRS (dB)						
Channel														
26140 26140 26600														
20	QPSK	1	0	13.18	13.26	13.24	14.3	0						
20	QPSK	1	49	13.08	13.21	13.15								
20	QPSK	1	99	13.16	13.18	13.17								
20	QPSK	50	0	13.22	13.27	13.26								
20	QPSK	50	24	13.11	13.22	13.28	14.3	0						
20	QPSK	50	50	13.09	13.16	13.19								
20	QPSK	100	0	13.17	13.24	13.19								
20	16QAM	50	0	13.19	13.27	13.19								
20	16QAM	1	49	13.08	13.24	13.26	14.3	0						
20	16QAM	1	99	13.07	13.06	13.01								
20	16QAM	50	0	13.19	13.24	13.22								
20	16QAM	50	24	13.19	13.25	13.07								
20	16QAM	50	50	13.10	13.23	13.26	14.3	0						
20	16QAM	100	0	13.18	13.19	13.07								
20	64QAM	1	0	13.13	13.22	13.12								
20	64QAM	1	49	13.19	13.14	13.01								
20	64QAM	50	0	13.03	13.15	13.26	14.3	0						
20	64QAM	50	0	13.13	13.23	13.23								
20	64QAM	50	24	13.16	13.24	13.08								
20	64QAM	50	50	13.17	13.20	13.08								
20	256QAM	100	0	13.25	13.24	13.20	14.3	0						
20	256QAM	1	49	13.18	13.17	13.15								
20	256QAM	1	99	13.15	13.15	13.05								
20	256QAM	50	24	13.18	13.23	13.18								
20	256QAM	50	50	13.10	13.12	13.06	14.3	0						
20	256QAM	100	0	13.13	13.12	13.06								
20	256QAM	100	0	13.13	13.12	13.06								
20	256QAM	100	0	13.13	13.12	13.06								
Channel														
1807.5 18080 18087.5														
16	QPSK	1	0	13.18	13.25	13.23	14.3	0						
16	QPSK	1	37	13.02	13.09	13.09								
16	QPSK	1	74	13.05	13.08	13.13								
16	QPSK	36	0	13.12	13.22	13.22								
16	QPSK	25	0	13.02	13.14	13.24	14.3	0						
16	QPSK	36	39	13.03	13.07	13.13								
16	QPSK	75	0	13.12	13.19	13.09								
16	16QAM	1	0	13.19	13.24	13.12								
16	16QAM	1	37	12.99	13.20	12.99	14.3	0						
16	16QAM	1	74	13.16	13.24	13.26								
16	16QAM	36	20	13.17	13.23	13.16								
16	16QAM	36	39	13.14	13.15	13.01								
16	16QAM	75	0	13.10	13.18	13.03	14.3	0						
16	64QAM	1	0	13.07	13.19	13.10								
16	64QAM	1	37	13.01	13.07	13.07								
16	64QAM	1	74	13.03	13.05	13.01								
16	64QAM	36	0	13.03	13.11	13.19	14.3	0						
16	64QAM	36	20	13.06	13.13	13.06								
16	64QAM	36	39	13.06	13.10	13.05								
16	64QAM	75	0	13.13	13.13	13.13								
16	256QAM	1	0	13.16	13.24	13.24	14.3	0						
16	256QAM	1	37	13.08	13.10	13.06								
16	256QAM	1	74	13.10	13.07	13.09								
16	256QAM	36	20	13.10	13.12	13.10								
16	256QAM	36	39	13.09	13.12	13.10	14.3	0						
16	256QAM	75	0	13.07	13.06	13.09								
16	256QAM	75	0	13.06	13.05	13.09								
16	256QAM	75	0	13.06	13.05	13.09								
Channel														
26090 26090 26660														
16	QPSK	1	0	13.05	13.09	13.10	14.3	0						
16	QPSK	1	25	13.02	13.20	13.08								
16	QPSK	1	49	13.16	13.16	13.17								
16	QPSK	12	0	13.12	13.16	13.16								
16	QPSK	25	12	13.07	13.20	12.95	14.3	0						
16	QPSK	25	26	12.98	13.08	13.19								
16	QPSK	80	0	13.16	13.16	13.16								
16	16QAM	1	0	13.17	13.16	13.14								
16	16QAM	1	26	13.01	13.12	12.93	14.3	0						
16	16QAM	1	49	13.09	13.26	13.26								
16	16QAM	25	0	13.14	13.12	13.09								
16	16QAM	25	12	13.14	13.22	12.99								
16	16QAM	50	0	13.00	13.18	13.03	14.3	0						
16	64QAM	1	0	13.06	13.19	13.09								
16	64QAM	1	24	13.04	13.09	13.06								
16	64QAM	1	49	13.04	13.09	12.89								
16	64QAM	25	0	13.06	13.13	13.12	14.3	0						
16	64QAM	25	12	13.05	13.16	13.09								
16	64QAM	25	26	13.06	13.16	13.09								
16	64QAM	50	0	13.24	13.20	13.10								
16	256QAM	1	0	13.12	13.12	13.11	14.3	0						
16	256QAM	1	26	13.13	13.06	13.15								
16	256QAM	1	26	13.13	13.06	13.15								
16	256QAM	1	26	13.13	13.06	13.15								
16	256QAM	12	0	13.13	13.14	13.11	14.3	0						
16	256QAM	25	25	12.91	13.06	13.06								
16	256QAM	25	0	13.04	13.01	13.11								
16	256QAM	25	0	13.04	13.01	13.11								
Channel														
26065 26065 26665														
5	QPSK	1	0	13.15	13.26	13.26	14.3	0						
5	QPSK	1	12	12.95	13.14	13.05								
5	QPSK	1	24	13.06	13.14	13.10								
5	QPSK	12	0	13.12	13.16	13.16								
5	QPSK	12	7	13.04	13.14	12.96	14.3	0						
5	QPSK	12	13	13.00	13.08	13.19								
5	QPSK	26	0	13.13	13.13	13.11								
5	16QAM	1	0	13.19	13.21	13.12								
5	16QAM	1	12	13.02	13.17	12.88	14.3	0						
5	16QAM	1	24	13.04	13.09	13.06								
5	16QAM	12	0	13.17	13.20	13.14								
5	16QAM	12	7	13.09	13.19	12.98								
5	16QAM	12	13	13.04	13.12	13.09	14.3	0						
5	16QAM	25	0	13.09	13.16	13.09								
5	64QAM	1	0	13.11	13.17	13.10								
5	64QAM	1	12	13.13	13.09	12.97								
5	64QAM	1	24	13.09	13.04	13.20	14.3	0						
5	64QAM	12	0	13.05	13.17	13.14								
5	64QAM	12	7	13.06	13.20	12.97								
5	64QAM	12	13	13.11	13.13	13.03								
5	64QAM	26	0	13.23	13.12	13.09	14.3	0						
5	256QAM	1	0	13.17	13.23	13.18								
5	256QAM	1	12	13.13	13.06	13.07	14.3	0						
5	256QAM	1	24	13.04	13.13	13.04								
5	256QAM	12	0	13.11	13.16	13.19								
5	256QAM	12	7	13.09	13.17	13.12								
5	256QAM	26	0	13.21	13.08	13.16	14.3	0						
5	256QAM	26	0	13.21	13.08	13.16								
Channel														
26665 26665 26665														
3	QPSK	1	0	13.08	13.22	13.20	14.3	0						
3	QPSK	1	8	12.94	13.09	13.11								
3	QPSK	1	16	13.11	13.11	13.11								
3	QPSK	8	0	13.12	13.26	13.26								
3	QPSK	8	4	13.10	13.21	13.29	14.3	0						
3	QPSK	8	12	13.05	13.18	13.17								
3	QPSK	16	0	13.17	13.19	13.17								
3	16QAM	1	0	13.17	13.26	13.20								
3	16QAM	1	8	13.08	13.23	13.28	14.3	0						
3	16QAM	1	16	13.10	13.10	13.10								
3	16QAM	8	0	13.16	13.22	13.21								
3	16QAM	8	4	13.13	13.23	13.28								
3	16QAM	8	7	13.01	13.21	13.23	14.3	0						
3	16QAM	16	0	13.12	13.07	13.07								
3	16QAM	16	8	13.12	13.17	13.16								
3	16QAM	16	8	13.08	13.08	12.95								
3	16QAM	1	16	13.02	13.10	13.09	14.3	0						
3	16QAM	1	32	13.04	13.12	13.12								
3	16QAM	8	4	13.16	13.20	13.20								
3	16QAM	8	16	13.19	13.20	13.19								
3	16QAM	16	0	13.19	13.21	13.12	14.3	0						
3	256QAM	1	0	13.18	13.17	13.09								
3	256QAM	1	32	13.20	13.20	13.03								
3	256QAM	1	16	13.19	13.08	13.03								
3	256QAM	8	0	13.09	13.19	13.20	14.3	0						
3	256QAM	8	8	13.22	13.13	13.01								
3	256QAM	8	7	12.99	13.01	12.99								
3	256QAM	16	0	13.00	13.01	13.01								
Channel														
18067.5 18067.5 18043.5														
1.4	QPSK	1	0	13.17	13.20	13.19	14.3	0						
1.4	QPSK	1	4	13.14	13.22	13.20								
1.4	QPSK	1	12	13.14	13.10	13.14								
1.4	QPSK	3	0	13.20	13.19	13.16								
1.4	QPSK	3	0	13.20	13.19	13.16	14.3	0						
1.4	QPSK	3	0	13.20	13.19	13.16								
1.4	QPSK	3	0	13.20	13.19	13.16								
1.4	QPSK	3	0	13.20	13.19	13.16								
1.4	QPSK	6	0	13.16	13.21	13.15	14.3	0						
1.4	QPSK	6	0	13.16	13.21	13.15								
1.4	QPSK	6	0	13.16	13.21	13.15								
1.4	QPSK	6	0	13.16	13.21	13.15								
1.4	16QAM	1	0	13.03	13.17	12.96	14.3	0						
1.4	16QAM	1	5	13.02	13.03	12.89								
1.4	16QAM	1	10	13.02	13.03	12.89								
1.4	16QAM	1	15	13.02	13.03	12.89								
1.4	16QAM	3	0	13.09	13.20	12.99	14.3	0						
1.4	16QAM	3	0	13.13	13.12	13.09								
1.4	16QAM	3	0	13.13	13.13	13.13								
1.4	16QAM	3	0	13.13	13.13									



Band 38&other PA Ant 1 EC17										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Frsq.	Power High Ch / Frsq.	Power Low Ch / Frsq.	Power High Ch / Frsq.	Tune-up limit (dBm)	MFR (dB)	
Channel										
Frequency (MHz)				37950	38050	38150				
20	QPSK	1	0	20.44	20.52	20.47		21.7	0	
20	QPSK	1	49	20.54	20.56	20.46				
20	QPSK	1	99	20.40	20.50	20.41				
20	QPSK	50	0	20.42	20.50	20.34				
20	QPSK	50	24	20.52	20.46	20.37		21.7	0	
20	QPSK	50	50	20.40	20.48	20.35				
20	QPSK	100	0	20.40	20.53	20.34				
20	HQAM	1	0	20.43	20.52	20.31		21.7	0	
20	HQAM	1	49	20.53	20.41	20.31				
20	HQAM	1	99	20.39	20.49	20.29				
20	HQAM	50	24	20.61	20.56	20.43		21.7	0	
20	HQAM	50	50	20.50	20.58	20.40				
20	HQAM	50	50	20.50	20.41	20.40				
20	HQAM	100	0	20.38	20.52	20.32		21.7	0	
20	HQAM	1	49	20.48	20.41	20.36		21.7	0	
20	HQAM	1	99	20.30	20.35	20.34				
20	HQAM	50	0	19.36	19.47	19.38				
20	HQAM	50	24	19.49	19.53	19.37		21	0.7	
20	HQAM	50	50	19.46	19.51	19.33				
20	HQAM	100	0	19.26	19.47	19.26				
20	256QAM	1	0	17.33	17.42	17.32		19	2.7	
20	256QAM	1	49	17.43	17.53	17.38				
20	256QAM	1	99	17.36	17.51	17.30				
20	256QAM	50	0	17.43	17.57	17.36				
20	256QAM	50	24	17.53	17.29	17.27		19	2.7	
20	256QAM	50	50	17.37	17.25	17.27				
20	256QAM	100	0	17.30	17.43	17.29				
Channel										
Frequency (MHz)				37925	38025	38125				
15	QPSK	1	0	20.41	20.53	20.47		21.7	0	
15	QPSK	1	37	20.43	20.58	20.41		21.7	0	
15	QPSK	1	74	20.42	20.38	20.32				
15	QPSK	36	0	20.40	20.50	20.40				
15	QPSK	36	20	20.52	20.46	20.29		21.7	0	
15	QPSK	75	0	20.40	20.44	20.40				
15	HQAM	1	0	20.40	20.50	20.20		21.7	0	
15	HQAM	1	37	20.47	20.33	20.26				
15	HQAM	1	74	20.36	20.43	20.30				
15	HQAM	36	0	20.30	20.46	20.38		21.7	0	
15	HQAM	36	20	20.51	20.50	20.40				
15	HQAM	36	36	20.47	20.40	20.40				
15	HQAM	75	0	20.47	20.44	20.36				
15	HQAM	75	0	20.36	20.51	20.32		21.7	0	
15	HQAM	1	37	20.48	20.34	20.27				
15	HQAM	1	74	20.25	20.37	20.26				
15	HQAM	36	0	19.33	19.37	19.24				
15	HQAM	36	20	19.46	19.51	19.28		21	0.7	
15	HQAM	75	0	19.35	19.37	19.24				
15	256QAM	1	0	17.15	17.43	17.28		19	2.7	
15	256QAM	1	37	17.22	17.40	17.28				
15	256QAM	1	74	17.30	17.52	17.27				
15	256QAM	36	0	17.39	17.52	17.36		19	2.7	
15	256QAM	36	20	17.43	17.24	17.24				
15	256QAM	36	36	17.32	17.17	17.15				
15	256QAM	75	0	17.42	17.27	17.19				
Channel										
Frequency (MHz)				25175	25275	25375				
10	QPSK	1	0	20.41	20.53	20.47		21.7	0	
10	QPSK	1	25	20.51	20.56	20.46				
10	QPSK	1	49	20.34	20.44	20.40				
10	QPSK	25	0	20.40	20.50	20.40				
10	QPSK	25	12	20.42	20.39	20.28		21.7	0	
10	QPSK	25	25	20.41	20.34	20.30				
10	HQAM	1	0	20.38	20.41	20.22		21.7	0	
10	HQAM	1	25	20.49	20.40	20.30				
10	HQAM	1	49	20.35	20.32	20.21				
10	HQAM	25	0	20.40	20.51	20.29		21.7	0	
10	HQAM	25	12	20.57	20.46	20.40				
10	HQAM	25	25	20.38	20.40	20.34		21.7	0	
10	HQAM	50	0	20.40	20.42	20.32				
10	HQAM	50	12	20.53	20.48	20.32				
10	HQAM	50	25	20.47	20.38	20.34		21.7	0	
10	HQAM	1	49	20.26	20.35	20.26				
10	HQAM	25	0	19.20	19.40	19.20		21	0.7	
10	HQAM	25	12	19.39	19.42	19.28				
10	HQAM	25	25	19.38	19.28	19.29				
10	HQAM	50	0	19.32	19.46	19.27				
10	256QAM	1	0	17.27	17.41	17.25		19	2.7	
10	256QAM	1	49	17.35	17.25	17.34				
10	256QAM	1	99	17.25	17.50	17.24				
10	256QAM	25	0	17.42	17.34	17.27				
10	256QAM	25	12	17.45	17.28	17.20		19	2.7	
10	256QAM	25	25	17.28	17.22	17.20				
10	256QAM	50	0	17.38	17.37	17.18				

Band 41&other PA Ant 1 EC17											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Frsq.	Power High Ch / Frsq.	Power Low Ch / Frsq.	Power High Ch / Frsq.	Power Low Ch / Frsq.	Power High Ch / Frsq.	Tune-up limit (dBm)	MFR (dB)
Channel											
Frequency (MHz)				39750	40185	40620	41058	41540			
20	QPSK	1	0	20.54	20.53	20.55	20.54	20.59			
20	QPSK	1	49	20.53	20.55	20.60	20.51	20.45		21.7	0
20	QPSK	1	99	20.48	20.50	20.58	20.49	20.47			
20	QPSK	50	0	20.54	20.54	20.63	20.50	20.53			
20	QPSK	50	24	20.61	20.55	20.57	20.58	20.49		21.7	0
20	QPSK	50	50	20.54	20.61	20.57	20.53	20.53			
20	16QAM	1	0	20.48	20.44	20.58	20.48	20.47			
20	16QAM	1	49	20.57	20.58	20.59	20.53	20.48		21.7	0
20	16QAM	1	99	20.47	20.45	20.54	20.39	20.45			
20	16QAM	50	24	20.69	20.61	20.62	20.56	20.50			
20	16QAM	50	50	20.59	20.56	20.59	20.53	20.48		21.7	0
20	64QAM	1	0	20.47	20.44	20.55	20.43	20.52			
20	64QAM	1	49	20.50	20.59	20.48	20.57	20.53			
20	64QAM	1	99	20.44	20.44	20.40	20.41	20.43			
20	64QAM	50	0	19.52	19.38	19.54	19.42	19.50			
20	64QAM	50	24	19.45	19.51	19.54	19.42	19.37		21	0.7
20	64QAM	50	50	19.37	19.42	19.42	19.41	19.43			
20	64QAM	100	0	19.56	19.37	19.54	19.38	19.44			
20	256QAM	1	0	17.51	17.41	17.54	17.36	17.48			
20	256QAM	1	49	17.41	17.40	17.44	17.43	17.48		21	2.7
20	256QAM	1	99	17.46	17.42	17.40	17.40	17.36			
20	256QAM	50	0	17.48	17.48	17.45	17.38	17.47			
20	256QAM	50	24	17.44	17.35	17.40	17.36	17.44		21	2.7
20	256QAM	50	50	17.40	17.44	17.35	17.38	17.47			
20	256QAM	100	0	17.30	17.40	17.33	17.38	17.30			
Channel											
Frequency (MHz)				39725	40173	40620	41058	41515	Tune-up limit (dBm)	MFR (dB)	
15	QPSK	1	0	20.43	20.43	20.53	20.43	20.42			
15	QPSK	1	37	20.51	20.51	20.59	20.49	20.38		22	0
15	QPSK	1	74	20.40	20.45	20.48	20.46	20.37			
15	QPSK	36	0	20.48	20.42	20.57	20.39	20.47			
15	QPSK	36	20	20.44	20.49	20.55	20.54	20.37		21.7	0
15	QPSK	75	0	20.51	20.49	20.49	20.41	20.40			
15	QPSK	75	0	20.44	20.48	20.49	20.51	20.48			
15	16QAM	1	0	20.39	20.39	20.52	20.44	20.36			
15	16QAM	1	37	20.48	20.43	20.53	20.43	20.38		21.7	0
15	16QAM	1	74	20.39	20.38	20.45	20.27	20.38			
15	16QAM	36	0	20.55	20.61	20.62	20.58	20.58			
15	16QAM	36	20	20.52	20.42	20.58	20.47	20.40			
15	16QAM	36	36	20.49	20.52	20.37	20.50	20.42			
15	16QAM	75	0	20.47	20.43	20.60	20.36	20.40			
15	16QAM	75	0	20.38	20.47	20.39	20.40	20.40			
15	64QAM	1	37	20.48	20.53	20.39	20.50	20.51		21.7	0
15	64QAM	74	0	20.42	20.38	20.35	20.33	20.38			
15	64QAM	36	0	19.51	19.36	19.47	19.32	19.43			
15	64QAM	36	20	19.44	19.45	19.44	19.35	19.35		21	0.7
15	64QAM	75	0	19.51	19.37	19.50	19.37	19.34			
15	256QAM	1	0	17.43	17.30			17.46			
15	256QAM	1	37	17.40	17.44	17.36	17.40	17.34		21	2.7
15	256QAM	1	74	17.37	17.31	17.35	17.35	17.35			
15	256QAM	36	0	17.41	17.41	17.38	17.32	17.50			
15	256QAM	36	20	17.38	17.38	17.35	17.35	17.42		21	2.7
15	256QAM	36	36	17.37	17.35	17.34	17.36	17.44			
15	256QAM	75	0	17.42	17.37	17.41	17.38	17.50			
Channel											
Frequency (MHz)				39700 <th>40160<th>40620<th>41058<th>41540</th><th>Tune-up limit (dBm)</th><th>MFR (dB)</th></th></th></th>	40160 <th>40620<th>41058<th>41540</th><th>Tune-up limit (dBm)</th><th>MFR (dB)</th></th></th>	40620 <th>41058<th>41540</th><th>Tune-up limit (dBm)</th><th>MFR (dB)</th></th>	41058 <th>41540</th> <th>Tune-up limit (dBm)</th> <th>MFR (dB)</th>	41540	Tune-up limit (dBm)	MFR (dB)	
20	QPSK	1	0	20.49	20.49	20.59	20.49	20.58			
20	QPSK	1	25	20.50	20.50	20.57	20.44	20.35		22	0
20	QPSK	1	50	20.49	20.49	20.56	20.44	20.35			
20	QPSK	25	0	20.49	20.47	20.61	20.38	20.45			
20	QPSK	25	12	20.49	20.48	20.48	20.54	20.39		21.7	0
20	QPSK	25	25	20.48	20.45	20.59	20.44	20.34			
20	QPSK	50	0	20.43	20.50	20.59	20.47	20.44			
20	16QAM	1	0	20.40	20.33	20.52	20.42	20.44			
20	16QAM	1	25	20.49	20.45	20.52	20.42	20.42			
20	16QAM	1	49	20.40	20.40	20.46	20.38	20.41			
20	16QAM	25	0	20.55	20.59	20.51	20.47	20.46			
20	16QAM	25	12	20.55	20.49	20.55	20.46	20.46			
20	16QAM	50	0	20.50	20.58	20.42	20.41	20.41			
20	16QAM	50	25	20.50	20.47	20.47	20.41	20.48			
20	64QAM	1	0	20.43	20.35	20.48	20.30	20.43			
20	64QAM	1	25	20.41	20.53	20.43	20.47	20.42		21.7	0
20	64QAM	1	49	20.36	20.33	20.40	20.30	20.43			
20	64QAM	25	0	19.42	19.35	19.45	19.38	19.50			
20	64QAM	25	12	19.43	19.42	19.40	19.30	19.26		21	0.7
20	64QAM	50	0	19.31	19.34	19.41	19.38	19.42			
20	64QAM	50	0	19.54	19.34	19.49	19.35	19.40			
20	64QAM	50	25	19.50	19.39	19.49	19.35	19.40			
20	256QAM	1	25	17.40	17.43	17.42	17.33	17.36		21	2.7
20	256QAM	1	49	17.37	17.41	17.28	17.35	17.29			
20	256QAM	25	0	17.46	17.38	17.46	17.36	17.47			
20	256QAM	25	12	17.33	17.29	17.36	17.30	17.36		21	2.7
20	256QAM	25	25	17.37	17.39	17.31	17.25	17.41			
20	256QAM	50	0	17.29	17.37	17.25	17.31	17.23			
Channel											
Frequency (MHz)				39675 <th>40146<th>40620<th>41058<th>41565</th><th>Tune-up limit (dBm)</th><th>MFR (dB)</th></th></th></th>	40146 <th>40620<th>41058<th>41565</th><th>Tune-up limit (dBm)</th><th>MFR (dB)</th></th></th>	40620 <th>41058<th>41565</th><th>Tune-up limit (dBm)</th><th>MFR (dB)</th></th>	41058 <th>41565</th> <th>Tune-up limit (dBm)</th> <th>MFR (dB)</th>	41565	Tune-up limit (dBm)	MFR (dB)	
5	QPSK	1	0	20.42	20.42	20.63	20.40	20.58			
5	QPSK	1	12	20.44	20.51	20.60	20.45	20.43		22	0
5	QPSK	1	24	20.37	20.46	20.55	20.46	20.43			
5	QPSK	12	0	20.48	20.48	20.61	20.40	20.42			
5	QPSK	12	7	20.43	20.48	20.45	20.46	20.43		21.7	0
5	QPSK	25	0	20.52	20.56	20.58	20.48	20.48			
5	QPSK	25	0	20.43	20.38	20.50	20.44	20.38			
5	16QAM	1	12	20.40	20.51	20.49	20.42	20.42		21.7	0
5	16QAM	1	24	20.41	20.44	20.51	20.32	20.37			
5	16QAM	12	0	20.56	20.58	20.52	20.47	20.51			
5	16QAM	12	7	20.58	20.48	20.54	20.50	20.44		21.7	0
5	16QAM	12	13	20.48	20.55	20.46	20.50	20.32			
5	64QAM	1	25	20.55	20.40	20.52	20.40	20.55		21.7	0
5	64QAM	1	0	20.39	20.33	20.53	20.30	20.50			
5	64QAM	1	12	20.48	20.55	20.41	20.49	20.50			
5	64QAM	1	24	20.43	20.43	20.49	20.38	20.38			
5	64QAM	12	0	19.51	19.34	19.53	19.35	19.38			
5	64QAM	12	7	19.50	19.39	19.49	19.35	19.31		21	0.7
5	64QAM	12	13	19.42	19.35	19.41	19.41	19.32			
5	256QAM	1	0	19.49	19.33	19.53	19.32	19.31			
5	256QAM	1	12	17.42	17.42	17.42	17.37	17.43			
5	256QAM	1	12	17.35	17.44	17.33	17.31	17.29		21	2.7
5	256QAM	1	24	17.35	17.42	17.38	17.35	17.29			
5	256QAM	12	0	17.42	17.40	17.42	17.27	17.47			
5	256QAM	12	7	17.38	17.25	17.38	17.26	17.37		21	2.7
5	256QAM	12	13	17.37	17.41	17.23	17.35	17.46			
5	256QAM	12	25	17.21	17.37	17.25	17.16	17.23			



Band 42 FCC Part27Q Ant 3 ECi7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (dBm)	MPR (dB)	
Channel				3470	3690	42990			
Frequency (MHz)				3470	3690	42990			
20	QPSK	1	0	15.98	15.05	15.94	17	0	
20	QPSK	1	48	15.78	15.88	15.84			
20	QPSK	1	96	15.88	15.80	15.78			
20	QPSK	50	0	15.97	15.00	15.93	17	0	
20	QPSK	50	24	15.85	15.88	15.90			
20	QPSK	50	48	15.87	15.80	15.75			
20	QPSK	100	0	15.89	15.00	15.83	17	0	
20	HQAM	1	0	15.89	15.83	15.88			
20	HQAM	1	48	15.77	15.89	15.80			
20	HQAM	1	96	15.94	15.75	15.74	17	0	
20	HQAM	50	0	15.92	15.88	15.89			
20	HQAM	50	24	15.89	15.85	15.95			
20	HQAM	50	50	15.94	15.82	15.79	17	0	
20	HQAM	100	0	15.95	15.80	15.82			
20	HQAM	1	0	15.77	15.75	15.81			
20	HQAM	1	48	15.80	15.81	15.88	17	0	
20	HQAM	1	96	15.91	15.81	15.77			
20	HQAM	50	0	15.01	15.04	15.93			
20	HQAM	50	24	15.83	15.94	15.83	17	0	
20	HQAM	50	50	15.00	15.82	15.73			
20	HQAM	100	0	15.01	15.88	15.94			
20	256QAM	1	0	15.95	15.02	15.98	17	0	
20	256QAM	1	48	15.84	15.90	15.88			
20	256QAM	1	96	15.92	15.87	15.82			
20	256QAM	50	0	15.84	15.88	15.87	17	0	
20	256QAM	50	24	15.89	15.94	15.94			
20	256QAM	50	50	15.73	15.77	15.87			
20	256QAM	100	0	15.97	15.73	15.74			
Channel				42165	42590	43015	Turn-up time (dBm)	MPR (dB)	
Frequency (MHz)				3472.5	3692	3747.5			
15	QPSK	1	0	15.78	15.02	15.83	17	0	
15	QPSK	1	37	15.76	15.83	15.81			
15	QPSK	1	74	15.78	15.88	15.74			
15	QPSK	36	0	15.88	15.89	15.89	17	0	
15	QPSK	36	20	15.76	15.79	15.89			
15	QPSK	36	39	15.81	15.77	15.88			
15	QPSK	75	0	15.79	15.84	15.79	17	0	
15	HQAM	1	0	15.72	15.82	15.81			
15	HQAM	1	37	15.80	15.84	15.77			
15	HQAM	1	74	15.84	15.77	15.72	17	0	
15	HQAM	36	0	15.89	15.89	15.78			
15	HQAM	36	20	15.77	15.77	15.84			
15	HQAM	36	39	15.90	15.90	15.72	17	0	
15	HQAM	75	0	15.85	15.89	15.89			
15	HQAM	1	0	15.89	15.81	15.70			
15	HQAM	1	37	15.72	15.88	15.75	17	0	
15	HQAM	1	74	15.81	15.77	15.89			
15	HQAM	36	0	15.90	15.86	15.91			
15	HQAM	36	20	15.89	15.87	15.76	17	0	
15	HQAM	36	39	15.91	15.77	15.83			
15	HQAM	75	0	15.93	15.73	15.92			
15	256QAM	1	0	15.88	15.89	15.94	17	0	
15	256QAM	1	37	15.72	15.87	15.75			
15	256QAM	1	74	15.88	15.85	15.77			
15	256QAM	36	0	15.80	15.91	15.92	17	0	
15	256QAM	36	20	15.84	15.89	15.85			
15	256QAM	36	39	15.89	15.74	15.83			
15	256QAM	75	0	15.83	15.86	15.87			
Channel				42160	42590	43005	Turn-up time (dBm)	MPR (dB)	
Frequency (MHz)				3475	3690	3745			
10	QPSK	1	0	15.94	15.88	15.89	17	0	
10	QPSK	1	25	15.89	15.75	15.79			
10	QPSK	1	49	15.77	15.85	15.77			
10	QPSK	25	0	15.96	15.85	15.98	17	0	
10	QPSK	25	12	15.84	15.80	15.79			
10	QPSK	25	25	15.82	15.71	15.67			
10	QPSK	50	0	15.86	15.83	15.80	17	0	
10	HQAM	1	0	15.77	15.89	15.80			
10	HQAM	1	25	15.88	15.84	15.83			
10	HQAM	1	49	15.87	15.68	15.83	17	0	
10	HQAM	25	0	15.88	15.93	15.85			
10	HQAM	25	12	15.82	15.81	15.88			
10	HQAM	25	25	15.89	15.82	15.70	17	0	
10	HQAM	50	0	15.86	15.85	15.88			
10	HQAM	1	0	15.85	15.82	15.79			
10	HQAM	1	25	15.70	15.89	15.78	17	0	
10	HQAM	1	49	15.89	15.72	15.65			
10	HQAM	25	0	15.89	15.80	15.92			
10	HQAM	25	12	15.83	15.90	15.78	17	0	
10	HQAM	25	25	15.99	15.75	15.72			
10	HQAM	50	0	15.92	15.83	15.84			
10	256QAM	1	0	15.87	15.95	15.92	17	0	
10	256QAM	1	25	15.76	15.81	15.94			
10	256QAM	1	49	15.83	15.75	15.81			
10	256QAM	25	0	15.82	15.88	15.88	17	0	
10	256QAM	25	12	15.84	15.84	15.88			
10	256QAM	25	25	15.89	15.77	15.81			
10	256QAM	50	0	15.87	15.73	15.84			
Channel				3471.5	3690	3747.5	Turn-up time (dBm)	MPR (dB)	
Frequency (MHz)				3472.5	3690	3747.5			
5	QPSK	1	0	15.84	15.87	15.90	17	0	
5	QPSK	1	12	15.75	15.81	15.74			
5	QPSK	1	24	15.77	15.81	15.67			
5	QPSK	12	0	15.96	15.89	15.89	17	0	
5	QPSK	12	7	15.81	15.83	15.87			
5	QPSK	12	13	15.82	15.74	15.66			
5	QPSK	25	0	15.77	15.84	15.77	17	0	
5	HQAM	1	0	15.70	15.89	15.83			
5	HQAM	1	12	15.85	15.85	15.82			
5	HQAM	1	24	15.93	15.85	15.71	17	0	
5	HQAM	12	0	15.83	15.94	15.80			
5	HQAM	12	7	15.88	15.82	15.87			
5	HQAM	12	13	15.94	15.80	15.84	17	0	
5	HQAM	25	0	15.77	15.83	15.88			
5	HQAM	1	0	15.75	15.74	15.73			
5	HQAM	1	12	15.75	15.80	15.78	17	0	
5	HQAM	1	24	15.91	15.80	15.61			
5	HQAM	12	0	15.88	15.94	15.83			
5	HQAM	12	7	15.77	15.85	15.72	17	0	
5	HQAM	12	13	15.91	15.72	15.65			
5	HQAM	25	0	15.90	15.83	15.87			
5	256QAM	1	0	15.94	15.98	15.98	17	0	
5	256QAM	1	12	15.75	15.88	15.75			
5	256QAM	1	24	15.83	15.73	15.73			
5	256QAM	12	0	15.79	15.89	15.89	17	0	
5	256QAM	12	7	15.80	15.84	15.89			
5	256QAM	12	13	15.87	15.74	15.77			
5	256QAM	25	0	15.93	15.68	15.83			

Band 38&other PA Ant 4 EC17									
RF B/W	Modulation	RB Size	RB Offset	Power Spectral Density C/I (Frac)	Power Spectral Density P/I (Frac)	Power Spectral Density P/Sp (Frac)	Turn-up test (dBm)	MPE (dB)	
Channel				378650	380000	381500			
Frequency (MHz)									
20	QPSK	1	0	16.79	16.79	16.79	16.84		
20	QPSK	1	40	16.67	16.73	16.65	16.0	0	
20	QPSK	1	80	16.76	16.76	16.76			
20	QPSK	50	0	16.72	16.70	16.74			
20	QPSK	50	24	16.70	16.70	16.78	16.0	0	
20	QPSK	100	0	16.76	16.76	16.76			
20	QPSK	100	0	16.79	16.81	16.76			
20	16QAM	1	0	16.64	16.68	16.71			
20	16QAM	1	40	16.73	16.73	16.63	16.0	0	
20	16QAM	1	80	16.65	16.62	16.70			
20	16QAM	50	0	16.71	16.67	16.80			
20	16QAM	50	24	16.69	16.81	16.75	16.0	0	
20	16QAM	100	0	16.76	16.85	16.76			
20	16QAM	100	0	16.79	16.81	16.76			
20	64QAM	1	0	16.58	16.78	16.61			
20	64QAM	1	40	16.68	16.70	16.61	16.0	0	
20	64QAM	1	80	16.67	16.70	16.76			
20	64QAM	50	0	16.76	16.76	16.69			
20	64QAM	50	24	16.41	16.45	16.33	16.0	0	
20	64QAM	50	48	16.43	16.43	16.53			
20	64QAM	100	0	16.48	16.52	16.53			
20	256QAM	1	0	16.46	16.51	16.42			
20	256QAM	1	40	16.44	16.47	16.45	16.0	0	
20	256QAM	1	80	16.48	16.38	16.38			
20	256QAM	50	0	16.46	16.46	16.46			
20	256QAM	50	24	16.28	16.42	16.30	16.0	0	
20	256QAM	50	48	16.28	16.40	16.31			
20	256QAM	100	0	16.51	16.48	16.48			
Channel				379125	380500	381975	Turn-up test (dBm)	MPE (dB)	
Frequency (MHz)									
15	QPSK	1	0	16.73	16.74	16.73			
15	QPSK	1	37	16.57	16.71	16.60	16.0	0	
15	QPSK	1	74	16.70	16.70	16.70			
15	QPSK	36	0	16.67	16.70	16.71			
15	QPSK	36	20	16.54	16.78	16.69	16.0	0	
15	QPSK	36	40	16.73	16.73	16.71			
15	QPSK	76	0	16.73	16.71	16.74			
15	16QAM	1	0	16.59	16.68	16.61			
15	16QAM	1	37	16.57	16.71	16.67	16.0	0	
15	16QAM	1	74	16.61	16.51	16.61			
15	16QAM	36	0	16.68	16.72	16.77			
15	16QAM	36	20	16.58	16.73	16.48	16.0	0	
15	16QAM	36	40	16.60	16.72	16.65			
15	16QAM	76	0	16.60	16.69	16.73			
15	64QAM	1	0	16.53	16.64	16.64			
15	64QAM	1	37	16.46	16.68	16.51	16.0	0	
15	64QAM	1	74	16.46	16.58	16.72			
15	64QAM	36	0	16.74	16.74	16.64			
15	64QAM	36	20	16.37	16.40	16.27	16.0	0	
15	64QAM	36	40	16.40	16.40	16.40			
15	64QAM	76	0	16.39	16.59	16.59	16.0	0	
15	256QAM	1	0	16.46	16.51	16.42			
15	256QAM	1	37	16.40	16.49	16.39	16.0	0	
15	256QAM	1	74	16.42	16.37	16.38			
15	256QAM	36	0	16.48	16.48	16.48			
15	256QAM	36	20	16.25	16.42	16.30	16.0	0	
15	256QAM	36	40	16.26	16.36	16.30			
15	256QAM	76	0	16.48	16.48	16.48			
Channel				379950	380900	382225	Turn-up test (dBm)	MPE (dB)	
Frequency (MHz)									
5	QPSK	1	0	16.73	16.74	16.73			
5	QPSK	1	25	16.59	16.63	16.59	16.0	0	
5	QPSK	1	50	16.73	16.73	16.73			
5	QPSK	26	0	16.63	16.79	16.68			
5	QPSK	26	12	16.60	16.74	16.72	16.0	0	
5	QPSK	26	25	16.73	16.73	16.71			
5	QPSK	50	0	16.77	16.74	16.72			
5	16QAM	1	0	16.53	16.69	16.65			
5	16QAM	1	25	16.58	16.74	16.69	16.0	0	
5	16QAM	1	50	16.63	16.63	16.79			
5	16QAM	26	0	16.63	16.80	16.69			
5	16QAM	26	12	16.60	16.73	16.71	16.0	0	
5	16QAM	26	25	16.76	16.76	16.72			
5	64QAM	1	0	16.46	16.60	16.58			
5	64QAM	1	25	16.54	16.68	16.54	16.0	0	
5	64QAM	1	50	16.58	16.68	16.68			
5	64QAM	26	0	16.66	16.78	16.59			
5	64QAM	26	12	16.30	16.37	16.24	16.0	0	
5	64QAM	26	25	16.42	16.42	16.41			
5	64QAM	50	0	16.44	16.48	16.44			
5	64QAM	50	0	16.43	16.43	16.40			
5	256QAM	1	25	16.37	16.51	16.45	16.0	0	
5	256QAM	1	49	16.45	16.32	16.30			
5	256QAM	26	0	16.48	16.48	16.45			
5	256QAM	26	12	16.27	16.36	16.30	16.0	0	
5	256QAM	26	25	16.41	16.37	16.30			
5	256QAM	50	0	16.47	16.47	16.45			
Channel				379790	380600	382225	Turn-up test (dBm)	MPE (dB)	
Frequency (MHz)									
5	QPSK	1	0	16.73	16.74	16.73			
5	QPSK	1	12	16.51	16.65	16.60	16.0	0	
5	QPSK	1	25	16.73	16.73	16.73			
5	QPSK	12	0	16.67	16.79	16.72			
5	QPSK	12	7	16.58	16.75	16.77	16.0	0	
5	16QAM	1	0	16.58	16.67	16.67			
5	16QAM	1	12	16.51	16.66	16.66			
5	16QAM	1	25	16.70	16.73	16.67	16.0	0	
5	16QAM	12	0	16.67	16.79	16.72			
5	16QAM	12	7	16.53	16.69	16.71	16.0	0	
5	16QAM	12	13	16.58	16.78	16.64			
5	16QAM	26	0	16.68	16.81	16.68			
5	64QAM	1	0	16.56	16.70	16.55			
5	64QAM	1	12	16.56	16.72	16.67	16.0	0	
5	64QAM	1	25	16.70	16.70	16.70			
5	64QAM	12	0	16.71	16.71	16.60			
5	64QAM	12	7	16.57	16.72	16.59	16.0	0	
5	64QAM	12	13	16.30	16.43	16.31			
5	64QAM	26	0	16.37	16.42	16.43	16.0	0	
5	64QAM	26	7	16.42	16.42	16.43			
5	256QAM	1	12	16.43	16.48	16.35	16.0	0	
5	256QAM	1	24	16.47	16.29	16.28			
5	256QAM	12	0	16.48	16.48	16.38			
5	256QAM	12	7	16.29	16.32	16.29	16.0	0	
5	256QAM	12	13	16.17	16.30	16.27			

Band 41/other PA Ant 4 EC17												
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Power (W)	Power (W)	Power (W)	Power (W)	Power (W)	Power (W)
				40865	40185	40600	41005	41400				
Frequency (MHz)				15.00	15.00	15.00	15.00	15.00				
15 QPSK	1	0	16.78	16.78	16.77	16.77	16.77	16.77	16.77	16.77	16.77	16.77
15 QPSK	1	49	16.79	16.72	16.92	16.82	16.82	16.91	18	0		
15 QPSK	1	98	16.80	16.80	16.80	16.80	16.80	16.80				
15 QPSK	50	0	16.80	16.81	16.80	16.80	16.80	16.82				
15 QPSK	50	24	16.79	16.79	16.89	16.80	16.80	16.80				
15 QPSK	50	49	16.78	16.81	16.80	16.80	16.80	16.84				
15 QPSK	100	0	16.80	16.80	16.80	16.80	16.80	16.81	18	0		
15 16QAM	1	0	16.86	16.71	16.81	16.81	16.81	16.80				
15 16QAM	50	49	16.80	16.80	16.80	16.80	16.80	16.80	16.79	18	0	
15 16QAM	1	99	16.80	16.77	16.86	16.82	16.82	16.82				
15 16QAM	50	0	16.83	16.70	16.85	16.80	16.82	16.83				
15 16QAM	50	24	16.80	16.78	16.93	16.82	16.82	16.80				
15 16QAM	50	49	16.77	16.83	16.93	16.80	16.80	16.80				
15 16QAM	100	0	16.82	16.88	16.93	16.90	16.90	16.90				
15 256QAM	1	0	16.92	16.73	16.99	16.90	16.90	16.90				
15 256QAM	50	0	16.88	16.53	16.93	16.90	16.90	16.90				
15 256QAM	1	99	16.90	16.90	16.92	16.92	16.94	16.97				
15 256QAM	50	0	16.90	16.90	16.90	16.90	16.90	16.90				
15 256QAM	50	24	16.83	16.44	16.93	16.87	16.91	16.91				
15 256QAM	50	49	16.88	16.39	16.93	16.88	16.90	16.90				
Channel				89770	40173	40600	41005	41410	41515	Turn-up limit (dBm)	AMPR (dB)	
Frequency (MHz)				24.63	24.63	24.63	24.63	24.63	24.63			
15 QPSK	1	0	16.78	16.78	16.87	16.81	16.78	16.78	16.82			
15 QPSK	1	37	16.70	16.88	16.89	16.79	16.78	16.78	16.80			
15 QPSK	1	74	16.70	16.88	16.81	16.81	16.80	16.80	16.80			
15 QPSK	1	111	16.70	16.81	16.80	16.80	16.80	16.80	16.80			
15 QPSK	36	0	16.68	16.73	16.82	16.80	16.78	16.78	16.80			
15 QPSK	36	37	16.78	16.80	16.77	16.82	16.80	16.80	16.80			
15 QPSK	75	0	16.72	16.80	16.84	16.76	16.76	16.76	16.76			
15 16QAM	1	0	16.78	16.65	16.78	16.71	16.74	16.74	16.68			
15 16QAM	1	37	16.62	16.59	16.65	16.68	16.68	16.68	16.68			
15 16QAM	1	74	16.74	16.70	16.76	16.84	16.84	16.80				
15 16QAM	36	0	16.60	16.73	16.84	16.84	16.82					
15 16QAM	36	37	16.82	16.65	16.80	16.80	16.80	16.80				
15 16QAM	75	0	16.68	16.69	16.92	16.80	16.80					
15 16QAM	75	0	16.81	16.67	16.85	16.80	16.80	16.74				
15 64QAM	1	37	16.40	16.61	16.83	16.77	16.84					
15 64QAM	1	74	16.32	16.76	16.85	16.85	16.87	16.87				
15 64QAM	36	0	16.60	16.73	16.84	16.84	16.82					
15 64QAM	36	37	16.82	16.65	16.80	16.80	16.80	16.80				
15 64QAM	75	0	16.68	16.69	16.92	16.80	16.80					
15 64QAM	75	0	16.81	16.64	16.83	16.82	16.79					
15 256QAM	1	0	16.92	16.73	16.99	16.90	16.90	16.90				
15 256QAM	1	37	16.40	16.42	16.53	16.52	16.44					
15 256QAM	1	74	16.37	16.46	16.41	16.50	16.58					
15 256QAM	1	111	16.46	16.52	16.46	16.55	16.63					
15 256QAM	36	0	16.32	16.38	16.50	16.44	16.47					
15 256QAM	36	37	16.38	16.39	16.49	16.41	16.42					
15 256QAM	75	0	16.43	16.41	16.53	16.43	16.43					
Channel				89770	40160	40600	41000	41460	41560	Turn-up limit (dBm)	AMPR (dB)	
Frequency (MHz)				24.63	24.63	24.63	24.63	24.63	24.63			
15 QPSK	1	0	16.77	16.77	16.87	16.81	16.78	16.78	16.82			
15 QPSK	1	25	16.68	16.70	16.80	16.70	16.70	16.70	16.70			
15 QPSK	1	50	16.70	16.70	16.80	16.70	16.70	16.70	16.70			
15 QPSK	25	0	16.63	16.83	16.85	16.73	16.83	16.84				
15 QPSK	25	12	16.71	16.88	16.87	16.78	16.79	16.79				
15 QPSK	25	25	16.73	16.87	16.87	16.78	16.77	16.77				
15 QPSK	50	0	16.70	16.82	16.85	16.70	16.71	16.71				
15 16QAM	1	0	16.84	16.66	16.74	16.76	16.74	16.74				
15 16QAM	1	25	16.62	16.87	16.86	16.76	16.78	16.78				
15 16QAM	1	49	16.78	16.76	16.86	16.83	16.84					
15 16QAM	25	0	16.74	16.70	16.85	16.86	16.84					
15 16QAM	25	12	16.76	16.84	16.84	16.81	16.81					
15 16QAM	25	25	16.84	16.70	16.82	16.78	16.79					
15 16QAM	50	0	16.79	16.73	16.83	16.83	16.83					
15 64QAM	1	0	16.80	16.66	16.82	16.82	16.74					
15 64QAM	1	25	16.48	16.69	16.84	16.76	16.80					
15 64QAM	1	49	16.76	16.74	16.84	16.83	16.79					
15 64QAM	25	0	16.60	16.79	16.84	16.83	16.82					
15 64QAM	25	12	16.72	16.87	16.89	16.77	16.76					
15 64QAM	25	25	16.77	16.74	16.84	16.83	16.81					
15 64QAM	50	0	16.74	16.77	16.82	16.82	16.78					
15 256QAM	1	0	16.48	16.48	16.53	16.53	16.48					
15 256QAM	1	25	16.47	16.45	16.53	16.52	16.52					
15 256QAM	1	49	16.44	16.51	16.45	16.53	16.62					
15 256QAM	1	25	16.44	16.47	16.48	16.53	16.48					
15 256QAM	25	12	16.44	16.34	16.46	16.44	16.44					
15 256QAM	25	25	16.47	16.31	16.45	16.43	16.43					
15 256QAM	50	0	16.49	16.39	16.50	16.45	16.45					
Channel				89675	40146	40600	41000	41460	41560	Turn-up limit (dBm)	AMPR (dB)	
Frequency (MHz)				24.63	24.63	24.63	24.63	24.63	24.63			
15 QPSK	1	0	16.77	16.77	16.82	16.80	16.80	16.80	16.80			
15 QPSK	1	12	16.78	16.69	16.83	16.74	16.80	16.80				
15 QPSK	1	24	16.79	16.78	16.80	16.80	16.80	16.80				
15 QPSK	12	0	16.80	16.84	16.91	16.80	16.87					
15 QPSK	12	7	16.86	16.71	16.86	16.86	16.79	16.79				
15 QPSK	12	12	16.73	16.80	16.80	16.74	16.80	16.80				
15 QPSK	25	0	16.74	16.85	16.84	16.74	16.73					
15 16QAM	1	0	16.83	16.62	16.79	16.74	16.73					
15 16QAM	1	12	16.80	16.82	16.78	16.78	16.78					
15 16QAM	1	24	16.77	16.70	16.74	16.79	16.74					
15 16QAM	12	0	16.71	16.76	16.81	16.81	16.84					
15 16QAM	12	7	16.81	16.68	16.82	16.79	16.83					
15 16QAM	12	12	16.70	16.70	16.86	16.83	16.80					
15 16QAM	25	0	16.62	16.80	16.80	16.80	16.83					
15 64QAM	1	0	16.80	16.68	16.82	16.76	16.87					
15 64QAM	1	12	16.42	16.86	16.86	16.82	16.77					
15 64QAM	1	24	16.71	16.80	16.86	16.80	16.78					
15 64QAM	12	13	16.69	16.76	16.80	16.80	16.80					
15 64QAM	25	0	16.73	16.81	16.82	16.79	16.79					
15 256QAM	1	0	16.47	16.47	16.48	16.53	16.53					
15 256QAM	1	12	16.40	16.50	16.48	16.52	16.48					
15 256QAM	1	24	16.43	16.48	16.48	16.53	16.58					
15 256QAM	1	12	16.49	16.58	16.47	16.53	16.48					
15 256QAM	12	7	16.40	16.41	16.51	16.51	16.50					
15 256QAM	12	13	16.40	16.28	16.43	16.39	16.41					
15 256QAM	25	0	16.42	16.43	16.47	16.43	16.51					

Band 41 HPUE Ant 4 EC17												
RF (MHz)	Modulation	RB Size	RB Offset	Power / Ch / Freq	Power / Ch / Freq	Power / Ch / Freq	Power / Ch / Freq	Power / Ch / Freq	Turn-up time (min)	MFR (dB)		
Channel												
	Frequency (MHz)			36750	40185	40620	41055	41490				
20	QPSK	1	0	18.40	18.38	18.32	18.35	18.31	19.6	0		
20	QPSK	1	49	18.30	18.38	18.58	18.49	18.43				
20	QPSK	50	1	18.34	18.38	18.33	18.44	18.37				
20	QPSK	50	5	18.34	18.38	18.57	18.54	18.47				
20	QPSK	50	24	18.29	18.38	18.44	18.43	18.47	19.6	0		
20	QPSK	50	49	18.34	18.38	18.42	18.43	18.50				
20	QPSK	100	0	18.35	18.38	18.53	18.42	18.44				
20	HQAM	1	0	18.47	18.45	18.55	18.37	18.38				
20	HQAM	1	49	18.25	18.38	18.40	18.47	18.48	19.6	0		
20	HQAM	1	99	18.43	18.33	18.50	18.38	18.38				
20	HQAM	50	1	18.38	18.42	18.55	18.46	18.55				
20	HQAM	50	19	18.22	18.31	18.51	18.45	18.38	19.6	0		
20	HQAM	50	50	18.35	18.33	18.46	18.44	18.51				
20	HQAM	100	0	18.44	18.40	18.56	18.51	18.49				
20	HQAM	100	49	18.35	18.39	18.54	18.45	18.45				
20	HQAM	1	49	18.22	18.33	18.53	18.37	18.52	19.6	0		
20	HQAM	1	99	18.44	18.31	18.51	18.44	18.42				
20	HQAM	50	50	18.44	18.45	18.47	18.53	18.54				
20	HQAM	100	0	18.44	18.47	18.44	18.36	18.43				
20	HQAM	1	0	18.34	18.44	18.51	18.42	18.42				
20	HQAM	1	49	18.35	18.45	18.54	18.43	18.52	19.6	0		
20	HQAM	1	99	18.34	18.45	18.40	18.45	18.47				
20	HQAM	50	0	18.37	18.37	18.48	18.47	18.47				
20	HQAM	50	24	18.39	18.32	18.40	18.35	18.37	19.6	0		
20	HQAM	50	50	18.22	18.22	18.46	18.36	18.29				
20	HQAM	100	0	18.35	18.35	18.53	18.43	18.46				
Channel												
	Frequency (MHz)			36725	40173	40610	41008	41518	Turn-up time (min)	MFR (dB)		
18	QPSK	1	0	18.40	18.38	18.32	18.37	18.33	20.0	0		
18	QPSK	1	37	18.26	18.35	18.46	18.45	18.42				
18	QPSK	1	74	18.26	18.37	18.46	18.45	18.47				
18	QPSK	25	0	18.35	18.38	18.49	18.42	18.40				
18	QPSK	36	20	18.19	18.31	18.32	18.33	18.45	19.6	0		
18	QPSK	36	36	18.26	18.32	18.48	18.45	18.47				
18	QPSK	75	0	18.28	18.28	18.46	18.33	18.40				
18	HQAM	1	0	18.44	18.34	18.47	18.36	18.36				
18	HQAM	1	37	18.18	18.12	18.47	18.43	18.21	19.6	0		
18	HQAM	1	74	18.35	18.24	18.42	18.26	18.35				
18	HQAM	25	0	18.33	18.33	18.44	18.39	18.50				
18	HQAM	25	18	18.20	18.30	18.47	18.35	18.31				
18	HQAM	36	36	18.34	18.25	18.35	18.42	18.46				
18	HQAM	75	0	18.42	18.42	18.44	18.47	18.38				
18	HQAM	1	0	18.37	18.22	18.40	18.37	18.36				
18	HQAM	1	37	18.14	18.23	18.52	18.28	18.21	19.6	0		
18	HQAM	1	74	18.36	18.26	18.43	18.26	18.35				
18	HQAM	25	0	18.42	18.39	18.48	18.46	18.51				
18	HQAM	36	20	18.26	18.32	18.50	18.38	18.35	19.6	0		
18	HQAM	36	36	18.33	18.28	18.40	18.35	18.51				
18	HQAM	75	0	18.40	18.45	18.36	18.38	18.36				
18	HQAM	1	0	18.37	18.37	18.48	18.47	18.47				
18	HQAM	1	37	18.26	18.44	18.50	18.42	18.34	19.6	0		
18	HQAM	1	74	18.27	18.57	18.38	18.38	18.58				
18	HQAM	25	0	18.25	18.25	18.42	18.32	18.40				
18	HQAM	25	18	18.37	18.36	18.48	18.32	18.36				
18	HQAM	25	19	18.19	18.15	18.37	18.35	18.21	19.6	0		
18	HQAM	1	49	18.32	18.26	18.50	18.27	18.35				
18	HQAM	25	0	18.33	18.30	18.50	18.43	18.52				
18	HQAM	25	18	18.20	18.30	18.43	18.35	18.31	19.6	0		
18	HQAM	25	25	18.28	18.30	18.46	18.40	18.45				
18	HQAM	50	0	18.40	18.45	18.36	18.38	18.36				
18	HQAM	1	0	18.32	18.28	18.38	18.39	18.28				
18	HQAM	1	25	18.17	18.23	18.49	18.31	18.50	19.6	0		
18	HQAM	25	0	18.36	18.32	18.40	18.35	18.48				
18	HQAM	25	0	18.42	18.35	18.38	18.46	18.52				
18	HQAM	25	12	18.28	18.38	18.50	18.33	18.41	19.6	0		
18	HQAM	25	18	18.31	18.21	18.44	18.40	18.45				
18	HQAM	50	0	18.34	18.43	18.40	18.30	18.45				
18	HQAM	50	1	18.25	18.34	18.43	18.35	18.37				
18	HQAM	1	0	18.25	18.34	18.43	18.35	18.37				
18	HQAM	1	25	18.34	18.44	18.51	18.42	18.33	19.6	0		
18	HQAM	1	49	18.30	18.43	18.52	18.36	18.46				
18	HQAM	25	0	18.36	18.35	18.46	18.38	18.52				
18	HQAM	25	12	18.30	18.24	18.28	18.36	18.34	19.6	0		
18	HQAM	25	25	18.24	18.19	18.43	18.14	18.23				
18	HQAM	50	0	18.34	18.33	18.33	18.35	18.46				
Channel												
	Frequency (MHz)			36675	40166	40600	41000	41560	Turn-up time (min)	MFR (dB)		
5	QPSK	1	0	18.36	18.38	18.38	18.41	18.47				
5	QPSK	1	12	18.21	18.27	18.55	18.41	18.39	20.0	0		
5	QPSK	1	49	18.33	18.37	18.47	18.45	18.51				
5	QPSK	12	0	18.37	18.27	18.57	18.51	18.37				
5	QPSK	12	7	18.21	18.37	18.35	18.40	18.38	19.6	0		
5	QPSK	12	13	18.28	18.27	18.45	18.39	18.45				
5	QPSK	25	0	18.28	18.32	18.48	18.39	18.40				
5	QPSK	1	0	18.40	18.33	18.53	18.37	18.37				
5	HQAM	1	0	18.34	18.33	18.44	18.40	18.42				
5	HQAM	1	24	18.31	18.23	18.46	18.28	18.33				
5	HQAM	12	0	18.37	18.26	18.45	18.42	18.37				
5	HQAM	12	7	18.12	18.23	18.45	18.33	18.34	19.6	0		
5	HQAM	12	13	18.25	18.25	18.36	18.38	18.38				
5	HQAM	25	0	18.40	18.33	18.46	18.38	18.47				
5	HQAM	1	0	18.37	18.21	18.43	18.43	18.38				
5	HQAM	1	12	18.16	18.23	18.45	18.26	18.44	19.6	0		
5	HQAM	1	49	18.33	18.33	18.33	18.31	18.44				
5	HQAM	12	0	18.36	18.41	18.38	18.48	18.49				
5	HQAM	12	7	18.24	18.22	18.41	18.28	18.40	19.6	0		
5	HQAM	12	13	18.24	18.22	18.41	18.28	18.40				
5	HQAM	25	0	18.43	18.47	18.35	18.37	18.33				
5	HQAM	25	12	18.24	18.23	18.38	18.38	18.38				
5	HQAM	25	12	18.32	18.34	18.49	18.37	18.29	19.6	0		
5	HQAM	25	14	18.30	18.43	18.33	18.36	18.36				
5	HQAM	25	12	18.34	18.34	18.32	18.44	18.36				
5	HQAM	12	7	18.32	18.29	18.34	18.26	18.36	19.6	0		
5	HQAM	12	13	18.19	18.12	18.42	18.16	18.27				
5	HQAM	25	0	18.36	18.16	18.38	18.34	18.21				



Full&Default Power Mode

n5 Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	22.50	22.64	22.55	24.0	0.0
20	PI/2 BPSK	1	53	22.55	22.59	22.56		
20	PI/2 BPSK	1	104	22.53	22.64	22.50		
20	PI/2 BPSK	50	0	22.04	22.13	22.00	23.5	0.5
20	PI/2 BPSK	50	28	22.46	22.57	22.54	24.0	0.0
20	PI/2 BPSK	50	56	22.01	22.14	22.03	23.5	0.5
20	PI/2 BPSK	100	0	22.07	22.19	22.06		
20	QPSK	1	1	22.65	22.65	22.61	24.0	0.0
20	QPSK	1	53	22.50	22.61	22.59		
20	QPSK	1	104	22.62	22.64	22.58		
20	QPSK	50	0	21.53	21.57	21.47	23.0	1.0
20	QPSK	50	28	22.54	22.57	22.48	24.0	0.0
20	QPSK	50	56	21.50	21.56	21.52	23.0	1.0
20	QPSK	100	0	21.50	21.59	21.57		
20	16QAM	1	1	21.21	21.33	21.20	23.0	1.0
20	64QAM	1	1	19.77	19.87	19.77	21.5	2.5
20	256QAM	1	1	18.41	18.47	18.44	19.5	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)
15	QPSK	1	1	22.95	22.92	22.49	24.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844	(dBm)	(dB)
10	QPSK	1	1	22.53	22.63	22.61	24.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)
5	QPSK	1	1	22.56	22.62	22.55	24.0	0.0

n26 Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				164500	166300	167800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824	831.5	839		
20	PI/2 BPSK	1	1	22.90	22.91	22.89	24.0	0.0
20	PI/2 BPSK	1	53	22.87	22.88	22.84		
20	PI/2 BPSK	1	104	22.81	22.88	22.82		
20	PI/2 BPSK	50	0	22.45	22.47	22.40	23.5	0.5
20	PI/2 BPSK	50	28	22.86	22.88	22.84	24.0	0.0
20	PI/2 BPSK	50	56	22.42	22.46	22.43	23.5	0.5
20	PI/2 BPSK	100	0	22.44	22.48	22.47		
20	QPSK	1	1	22.94	22.96	22.93	24.0	0.0
20	QPSK	1	53	22.87	22.94	22.88		
20	QPSK	1	104	22.89	22.91	22.86		
20	QPSK	50	0	21.98	21.92	21.94	23.0	1.0
20	QPSK	50	28	22.86	22.89	22.84	24.0	0.0
20	QPSK	50	56	21.90	21.86	21.91	23.0	1.0
20	QPSK	100	0	21.88	21.93	21.90		
20	16QAM	1	1	21.68	21.70	21.67	23.0	1.0
20	64QAM	1	1	20.26	20.29	20.24	21.5	2.5
20	256QAM	1	1	18.84	18.89	18.82	19.5	4.5
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5	(dBm)	(dB)
15	QPSK	1	1	22.92	22.92	22.86	24.0	0.0
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844	(dBm)	(dB)
10	QPSK	1	1	22.93	22.94	22.87	24.0	0.0
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5	(dBm)	(dB)
5	QPSK	1	1	22.91	22.94	22.88	24.0	0.0



n2 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				376000	376000	376000	24.0	0.0	
Frequency (MHz)				1870	1880	1890			
40	PI2 BPSK	1	1	22.43	22.64	22.49	24.0	0.0	
40	PI2 BPSK	1	108	22.54	22.59	22.49			
40	PI2 BPSK	1	214	22.46	22.57	22.51	23.5	0.5	
40	PI2 BPSK	198	0	21.66	21.71	21.70			
40	PI2 BPSK	108	54	22.73	22.75	22.70	24.0	0.0	
40	PI2 BPSK	108	108	22.22	22.26	22.18	23.5	0.5	
40	PI2 BPSK	216	0	22.24	22.28	22.21			
40	QPSK	1	1	22.72	22.76	22.75	24.0	0.0	
40	QPSK	1	108	22.55	22.64	22.51			
40	QPSK	1	214	22.44	22.66	22.49	23.0	1.0	
40	QPSK	108	0	21.77	21.79	21.74			
40	QPSK	108	54	22.72	22.77	22.74	24.0	0.0	
40	QPSK	108	108	21.73	21.76	21.71	23.0	1.0	
40	QPSK	216	0	21.75	21.80	21.76			
40	16QAM	1	1	21.38	21.43	21.41	23.0	1.0	
40	64QAM	1	1	19.94	19.98	19.96	21.5	2.5	
40	256QAM	1	1	18.52	18.60	18.58	19.5	4.5	
Channel				376000	376000	376000	24.0	0.0	
Frequency (MHz)				1867.5	1880	1892.5			
35	QPSK	1	1	22.68	22.65	22.63	24.0	0.0	
Channel				373000	376000	379000	24.0	MPR	
Frequency (MHz)				1905	1920	1935			
30	QPSK	1	1	22.59	22.67	22.67	24.0	0.0	
Channel				372500	376000	379500	24.0	MPR	
Frequency (MHz)				1862.5	1880	1897.5			
25	QPSK	1	1	22.48	22.61	22.53	24.0	0.0	
Channel				372000	376000	380000	24.0	MPR	
Frequency (MHz)				1860	1880	1900			
20	QPSK	1	1	22.46	22.63	22.46	24.0	0.0	
Channel				371500	376000	380500	24.0	MPR	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	22.46	22.66	22.47	24.0	0.0	
Channel				371000	376000	381000	24.0	MPR	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	22.52	22.62	22.54	24.0	0.0	
Channel				370500	376000	381500	24.0	MPR	
Frequency (MHz)				1852.5	1880	1897.5			
5	QPSK	1	1	22.54	22.62	22.47	24.0	0.0	

22.7

n7 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000	24.0	0.0	
Frequency (MHz)				2625	2635	2645			
50	PI2 BPSK	1	1	22.35	22.47	22.36	24.0	0.0	
50	PI2 BPSK	1	135	22.29	22.31	22.28			
50	PI2 BPSK	1	268	22.26	22.36	22.34	23.5	0.5	
50	PI2 BPSK	135	0	21.95	22.06	22.04			
50	PI2 BPSK	135	68	22.45	22.53	22.48	24.0	0.0	
50	PI2 BPSK	135	135	21.95	22.05	21.97	23.5	0.5	
50	PI2 BPSK	270	0	22.00	22.04	22.01			
50	QPSK	1	1	22.54	22.58	22.57	24.0	0.0	
50	QPSK	1	135	22.32	22.37	22.32			
50	QPSK	1	268	22.35	22.36	22.34	23.0	1.0	
50	QPSK	135	0	21.45	21.58	21.50			
50	QPSK	135	68	22.49	22.55	22.52	24.0	0.0	
50	QPSK	135	135	21.44	21.57	21.47	23.0	1.0	
50	QPSK	270	0	21.80	21.85	21.83			
50	16QAM	1	1	21.08	21.14	21.11	23.0	1.0	
50	64QAM	1	1	19.70	19.75	19.74	21.5	2.5	
50	256QAM	1	1	18.28	18.35	18.30	19.5	4.5	
Channel				505000	507000	510000	24.0	MPR	
Frequency (MHz)				2620	2635	2650			
40	QPSK	1	1	22.48	22.51	22.48	24.0	0.0	
Channel				501000	507000	510500	24.0	MPR	
Frequency (MHz)				2517.5	2635	2652.5			
35	QPSK	1	1	22.50	22.47	22.53	24.0	0.0	
Channel				501000	507000	511000	24.0	MPR	
Frequency (MHz)				2615	2635	2655			
30	QPSK	1	1	22.46	22.53	22.47	24.0	0.0	
Channel				502500	507000	511500	24.0	MPR	
Frequency (MHz)				2612.5	2635	2657.5			
25	QPSK	1	1	22.47	22.51	22.51	24.0	0.0	
Channel				502000	507000	512000	24.0	MPR	
Frequency (MHz)				2610	2635	2660			
20	PI2 BPSK	1	1	22.40	22.51	22.47	24.0	0.0	
Channel				501500	507000	512500	24.0	MPR	
Frequency (MHz)				2507.5	2635	2662.5			
15	QPSK	1	1	22.41	22.54	22.50	24.0	0.0	
Channel				501000	507000	513000	24.0	MPR	
Frequency (MHz)				2605	2635	2665			
10	QPSK	1	1	22.47	22.48	22.53	24.0	0.0	
Channel				500500	507000	513500	24.0	MPR	
Frequency (MHz)				2502.5	2635	2667.5			
5	QPSK	1	1	22.51	22.52	22.47	24.0	0.0	

n66 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346500	348000	351500	24.0	0.0	
Frequency (MHz)				1732.5	1745	1757.5			
45	PI2 BPSK	1	1	22.61	22.71	22.72	24.0	0.0	
45	PI2 BPSK	1	120	22.60	22.62	22.61			
45	PI2 BPSK	1	240	22.53	22.70	22.68	23.5	0.5	
45	PI2 BPSK	120	0	22.21	22.35	22.31			
45	PI2 BPSK	120	60	22.71	22.79	22.76	24.0	0.0	
45	PI2 BPSK	120	120	22.23	22.28	22.26	23.5	0.5	
45	PI2 BPSK	240	0	22.25	22.34	22.28			
45	QPSK	1	1	22.71	22.85	22.72	24.0	0.0	
45	QPSK	1	120	22.61	22.69	22.65			
45	QPSK	1	240	22.58	22.72	22.68	23.0	1.0	
45	QPSK	120	0	21.69	21.82	21.80			
45	QPSK	120	60	22.74	22.80	22.77	24.0	0.0	
45	QPSK	120	120	21.80	21.81	21.79	23.0	1.0	
45	QPSK	240	0	21.80	21.85	21.82			
45	16QAM	1	1	21.44	21.50	21.48	23.0	1.0	
45	64QAM	1	1	19.98	20.03	20.00	21.5	2.5	
45	256QAM	1	1	18.59	18.65	18.62	19.5	4.5	
Channel				346500	348000	352000	24.0	MPR	
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	22.80	22.80	22.59	24.0	0.0	
Channel				345500	348000	352500	24.0	MPR	
Frequency (MHz)				1727.5	1745	1762.5			
35	QPSK	1	1	22.81	22.83	22.64	24.0	0.0	
Channel				345000	348000	353000	24.0	MPR	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	22.59	22.74	22.63	24.0	0.0	
Channel				344500	348000	353500	24.0	MPR	
Frequency (MHz)				1722.5	1745	1767.5			
25	QPSK	1	1	22.58	22.74	22.72	24.0	0.0	
Channel				344000	348000	354000	24.0	MPR	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	22.62	22.70	22.85	24.0	0.0	
Channel				343500	348000	354500	24.0	MPR	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	22.64	22.67	22.72	24.0	0.0	
Channel				343000	348000	355000	24.0	MPR	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	22.58	22.67	22.85	24.0	0.0	
Channel				342500	348000	355500	24.0	MPR	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	22.52	22.67	22.69	24.0	0.0	



n2 Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				376000	376000	376000			
Frequency (MHz)				1870	1880	1890			
40	P12 BPSK	1	1	22.12	22.16	22.07			
40	P12 BPSK	1	108	22.14	22.11	22.12	24.0	0.0	
40	P12 BPSK	1	214	22.06	22.14	22.13			
40	P12 BPSK	198	0	21.67	21.88	21.84	23.5	0.5	
40	P12 BPSK	108	54	22.05	22.15	22.07	24.0	0.0	
40	P12 BPSK	108	108	21.66	21.66	21.63	23.5	0.5	
40	P12 BPSK	216	0	21.62	21.66	21.65			
40	QPSK	1	1	22.14	22.16	22.15			
40	QPSK	1	108	22.13	22.16	22.14	24.0	0.0	
40	QPSK	1	214	22.13	22.17	22.16			
40	QPSK	108	0	21.17	21.18	21.16	23.0	1.0	
40	QPSK	108	54	22.11	22.17	22.14	24.0	0.0	
40	QPSK	108	108	21.13	21.16	21.09	23.0	1.0	
40	QPSK	216	0	21.16	21.21	21.20			
40	16QAM	1	1	21.10	21.14	21.11	23.0	1.0	
40	64QAM	1	1	19.80	19.87	19.82	21.5	2.5	
40	256QAM	1	1	17.87	18.03	17.89	19.5	4.5	
Channel				1867.5	1880	1892.5			
Frequency (MHz)				1867.5	1880	1892.5			
35	QPSK	1	1	22.10	22.08	22.09	24.0	0.0	
Channel				373000	376000	379000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1905	1910	1905	(dBm)	(dB)	
30	QPSK	1	1	22.03	22.09	22.09	24.0	0.0	
Channel				372500	376000	379500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1897.5	(dBm)	(dB)	
25	QPSK	1	1	22.07	22.12	22.08	24.0	0.0	
Channel				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1880	1900	(dBm)	(dB)	
20	QPSK	1	1	22.09	22.14	22.09	24.0	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5	(dBm)	(dB)	
15	QPSK	1	1	22.08	22.10	22.09	24.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905	(dBm)	(dB)	
10	QPSK	1	1	22.06	22.13	22.12	24.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1897.5	(dBm)	(dB)	
5	QPSK	1	1	22.05	22.15	22.07	24.0	0.0	

n5 Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	P12 BPSK	1	1	22.63	22.67	22.61			
20	P12 BPSK	1	53	22.58	22.65	22.60	24.0	0.0	
20	P12 BPSK	1	104	22.58	22.63	22.57			
20	P12 BPSK	50	0	21.94	22.08	22.02	23.5	0.5	
20	P12 BPSK	50	28	22.38	22.49	22.44	24.0	0.0	
20	P12 BPSK	50	56	21.99	22.09	21.96	23.5	0.5	
20	P12 BPSK	100	0	22.08	22.10	22.06			
20	QPSK	1	1	22.64	22.68	22.62			
20	QPSK	1	53	22.64	22.66	22.60	24.0	0.0	
20	QPSK	1	104	22.64	22.67	22.60			
20	QPSK	50	0	21.42	21.56	21.47	23.0	1.0	
20	QPSK	50	28	22.45	22.55	22.53	24.0	0.0	
20	QPSK	50	56	21.40	21.53	21.46	23.0	1.0	
20	QPSK	100	0	21.62	21.59	21.52			
20	16QAM	1	1	21.33	21.43	21.35	23.0	1.0	
20	64QAM	1	1	19.93	19.96	19.91	21.5	2.5	
20	256QAM	1	1	18.54	18.61	18.59	19.5	4.5	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)	
15	QPSK	1	1	22.57	22.64	22.58	24.0	0.0	
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				820	826.5	844	(dBm)	(dB)	
10	QPSK	1	1	22.65	22.68	22.61	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)	
5	QPSK	1	1	22.62	22.63	22.59	24.0	0.0	

n7 Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	P12 BPSK	1	1	21.80	21.95	21.84			
50	P12 BPSK	1	135	21.83	21.91	21.78	23.0	0.0	
50	P12 BPSK	1	268	21.73	21.86	21.80			
50	P12 BPSK	135	0	21.39	21.41	21.40	22.5	0.5	
50	P12 BPSK	135	68	21.84	21.93	21.90	23.0	0.0	
50	P12 BPSK	135	135	21.35	21.39	21.37	22.5	0.5	
50	P12 BPSK	270	0	21.40	21.47	21.42			
50	QPSK	1	1	21.80	21.96	21.82			
50	QPSK	1	135	21.80	21.94	21.77	23.0	0.0	
50	QPSK	1	268	21.76	21.95	21.83			
50	QPSK	135	0	20.85	20.89	20.87	22.0	1.0	
50	QPSK	135	68	21.88	21.94	21.91	23.0	0.0	
50	QPSK	135	135	20.89	20.96	20.91	22.0	1.0	
50	QPSK	270	0	21.00	21.08	21.04			
50	16QAM	1	1	20.57	20.62	20.59	22.0	1.0	
50	64QAM	1	1	19.12	19.17	19.15	20.5	2.5	
50	256QAM	1	1	17.70	17.79	17.72	18.5	4.5	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550	(dBm)	(dB)	
40	QPSK	1	1	21.81	21.93	21.73	23.0	0.0	
Channel				503500	507000	510500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2517.5	2535	2552.5	(dBm)	(dB)	
35	QPSK	1	1	21.89	21.85	21.69	23.0	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	(dBm)	(dB)	
30	QPSK	1	1	21.79	21.92	21.75	23.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	(dBm)	(dB)	
25	QPSK	1	1	21.77	21.88	21.82	23.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	(dBm)	(dB)	
20	P12 BPSK	1	1	21.89	21.92	21.83	23.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)	
15	QPSK	1	1	21.80	21.90	21.77	23.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	(dBm)	(dB)	
10	QPSK	1	1	21.79	21.91	21.84	23.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)	
5	QPSK	1	1	21.72	21.90	21.84	23.0	0.0	

n26 Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				168500	169300	167600	24.0	0.0	
Frequency (MHz)				824	831.5	839			
20	PI2 BPSK	1	1	22.78	22.84	22.79	24.0	0.0	
20	PI2 BPSK	1	53	22.73	22.81	22.83			
20	PI2 BPSK	1	104	22.77	22.84	22.77	23.5	0.5	
20	PI2 BPSK	50	0	22.06	22.25	22.19			
20	PI2 BPSK	50	28	22.62	22.71	22.67	24.0	0.0	
20	PI2 BPSK	50	58	22.16	22.26	22.22		0.5	
20	PI2 BPSK	100	0	22.05	22.21	22.19	23.5	0.5	
20	QPSK	1	1	22.78	22.85	22.81			
20	QPSK	1	53	22.81	22.84	22.81	24.0	0.0	
20	QPSK	1	104	22.78	22.82	22.80			
20	QPSK	50	0	21.62	21.68	21.63	23.0	1.0	
20	QPSK	50	28	22.81	22.70	22.66		0.0	
20	QPSK	50	58	21.60	21.74	21.68	23.0	1.0	
20	QPSK	100	0	21.72	21.75	21.74			
20	16QAM	1	1	21.48	21.53	21.49	23.0	1.0	
20	64QAM	1	1	20.04	20.10	20.07		2.5	
20	256QAM	1	1	18.61	18.70	18.65	19.5	4.5	
Channel				164300	165300	165300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	22.75	22.80	22.79	24.0	0.0	
Channel				163800	166300	166800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				812	831.5	844			
10	QPSK	1	1	22.74	22.70	22.78	24.0	0.0	
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	22.70	22.80	22.75	24.0	0.0	

n66 Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				345500	349000	361500	24.0	0.0	
Frequency (MHz)				1732.5	1745	1757.5			
45	PI2 BPSK	1	1	22.41	22.50	22.45	24.0	0.0	
45	PI2 BPSK	1	120	22.44	22.49	22.46			
45	PI2 BPSK	1	240	22.46	22.42	22.41	23.5	0.5	
45	PI2 BPSK	120	0	21.92	21.94	21.98			
45	PI2 BPSK	120	60	22.40	22.44	22.42	24.0	0.0	
45	PI2 BPSK	120	120	21.90	21.94	21.98		0.5	
45	PI2 BPSK	240	0	21.92	21.98	21.96	23.5	0.5	
45	QPSK	1	1	22.45	22.51	22.48			
45	QPSK	1	120	22.44	22.48	22.46	24.0	0.0	
45	QPSK	1	240	22.44	22.48	22.44			
45	QPSK	120	0	21.41	21.51	21.49	23.0	1.0	
45	QPSK	120	60	22.41	22.48	22.45		0.0	
45	QPSK	120	120	21.36	21.46	21.40	23.0	1.0	
45	QPSK	240	0	21.48	21.53	21.50			
45	16QAM	1	1	21.15	21.20	21.14	23.0	1.0	
45	64QAM	1	1	19.68	19.74	19.72		2.5	
45	256QAM	1	1	18.02	18.05	18.00	19.5	4.5	
Channel				345000	349000	362000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	22.38	22.48	22.37	24.0	0.0	
Channel				345500	349000	362500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1727.5	1745	1762.5			
35	QPSK	1	1	22.43	22.45	22.40	24.0	0.0	
Channel				345000	349000	363000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	22.44	22.48	22.47	24.0	0.0	
Channel				344500	349000	363500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1767.5			
25	QPSK	1	1	22.38	22.42	22.40	24.0	0.0	
Channel				344000	349000	364000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	22.45	22.49	22.42	24.0	0.0	
Channel				343500	349000	364500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	22.42	22.49	22.47	24.0	0.0	
Channel				343000	349000	365000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	22.44	22.45	22.44	24.0	0.0	
Channel				342500	349000	365500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	22.38	22.45	22.40	24.0	0.0	

n38 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				516004	519000	519996	22.0	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	21.01	21.07	21.07			
40	PI/2 BPSK	1	108	21.01	21.14	21.03	22.0	0.0	
40	PI/2 BPSK	1	214	21.03	21.01	21.09			
40	PI/2 BPSK	108	0	20.55	20.66	20.61		21.5	
40	PI/2 BPSK	108	54	20.97	21.14	21.05	22.0	0.0	
40	PI/2 BPSK	108	108	20.46	20.66	20.58	21.5	0.5	
40	PI/2 BPSK	216	0	20.54	20.54	20.48	22.0	0.0	
40	QPSK	1	1	21.06	21.23	21.07			
40	QPSK	1	108	21.01	21.13	21.04			
40	QPSK	1	214	21.06	21.14	21.05	21.0	1.0	
40	QPSK	108	0	20.06	20.12	20.05			
40	QPSK	108	54	21.02	21.12	21.10			
40	QPSK	108	108	20.04	20.14	20.14	21.0	1.0	
40	QPSK	216	0	20.08	20.13	20.10	21.0	1.0	
40	16QAM	1	1	19.58	19.64	19.62			
40	64QAM	1	1	18.07	18.10	18.07		19.5	
40	256QAM	1	1	16.76	16.82	16.71	17.5	4.5	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2595.01	2595	2604.99	22.0	0.0	
30	QPSK	1	1	20.98	21.15	20.99	22.0	0.0	
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.52	2595	2607.48	22.0	0.0	
25	QPSK	1	1	21.05	21.11	21.11	22.0	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610	22.0	0.0	
20	QPSK	1	1	21.04	21.09	21.01	22.0	0.0	
Channel				515502	519000	523498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49	22.0	0.0	
15	QPSK	1	1	21.07	21.10	21.10	22.0	0.0	
Channel				515004	519000	523996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98	22.0	0.0	
10	QPSK	1	1	21.08	21.08	21.07	22.0	0.0	

n41 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518998	520000	22.0	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	21.15	21.24	21.17			
100	PI/2 BPSK	1	137	21.17	21.28	21.13	22.0	0.0	
100	PI/2 BPSK	1	271	21.10	21.19	21.24			
100	PI/2 BPSK	135	0	20.83	20.74	20.72		21.5	
100	PI/2 BPSK	135	69	21.12	21.22	21.12	22.0	0.0	
100	PI/2 BPSK	135	138	20.62	20.76	20.74	21.5	0.5	
100	PI/2 BPSK	270	0	20.65	20.71	20.65	22.0	0.0	
100	QPSK	1	1	21.16	21.26	21.22			
100	QPSK	1	137	21.15	21.27	21.14			
100	QPSK	1	271	21.17	21.26	21.21	21.0	1.0	
100	QPSK	135	0	20.16	20.24	20.23			
100	QPSK	135	69	21.18	21.25	21.20		22.0	
100	QPSK	135	138	20.16	20.22	20.21	21.0	1.0	
100	QPSK	270	0	20.22	20.29	20.25			
100	16QAM	1	1	19.68	19.74	19.71	21.0	1.0	
100	64QAM	1	1	18.21	18.27	18.24	19.5	2.5	
100	256QAM	1	1	16.87	16.91	16.88	17.5	4.5	
Channel				506002	518998	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	22.0	0.0	
90	QPSK	1	1	21.15	21.23	21.17	22.0	0.0	
Channel				507204	518998	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2530.02	2592.99	2649.99	22.0	0.0	
80	QPSK	1	1	21.11	21.22	21.14	22.0	0.0	
Channel				506002	518998	521000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655	22.0	0.0	
70	QPSK	1	1	21.17	21.21	21.20	22.0	0.0	
Channel				505200	518998	521998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98	22.0	0.0	
60	QPSK	1	1	21.14	21.26	21.14	22.0	0.0	
Channel				504204	518998	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	22.0	0.0	
50	QPSK	1	1	21.11	21.22	21.17	22.0	0.0	
Channel				503200	518998	523498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2518.5	2592.99	2667.48	22.0	0.0	
45	QPSK	1	1	21.13	21.24	21.19	22.0	0.0	
Channel				503202	518998	524000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2513.01	2592.99	2670	22.0	0.0	
40	QPSK	1	1	21.16	21.24	21.20	22.0	0.0	
Channel				502704	518998	524498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2513.52	2592.99	2672.49	22.0	0.0	
35	QPSK	1	1	21.12	21.20	21.15	22.0	0.0	
Channel				502200	518998	524998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98	22.0	0.0	
30	QPSK	1	1	21.19	21.24	21.14	22.0	0.0	
Channel				501702	518998	525500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2508.51	2592.99	2677.5	22.0	0.0	
25	QPSK	1	1	21.11	21.21	21.13	22.0	0.0	
Channel				501204	518998	525998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	22.0	0.0	
20	QPSK	1	1	21.15	21.21	21.22	22.0	0.0	
Channel				500700	518998	526498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.15	2592.99	2682.48	22.0	0.0	
15	QPSK	1	1	21.10	21.23	21.25	22.0	0.0	
Channel				500202	518998	527000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685	22.0	0.0	
10	QPSK	1	1	21.08	21.28	21.19	22.0	0.0	

n38 Ant 1												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel				518004	519000	519996	24.0	0.0				
Frequency (MHz)				2590.02	2595	2599.98						
40	PI2 BPSK	1	1	22.53	22.59	22.57						
40	PI2 BPSK	1	108	22.49	22.54	22.58	24.0	0.0				
40	PI2 BPSK	1	214	22.46	22.54	22.52						
40	PI2 BPSK	108	0	22.17	22.22	22.15		23.5	0.5			
40	PI2 BPSK	108	54	22.57	22.61	22.58	24.0	0.0				
40	PI2 BPSK	108	108	22.07	22.20	22.18				23.5	0.5	
40	PI2 BPSK	216	0	22.10	22.20	22.17						
40	QPSK	1	1	22.58	22.76	22.59	24.0	0.0				
40	QPSK	1	108	22.53	22.57	22.56						
40	QPSK	1	214	22.49	22.55	22.52						
40	QPSK	108	0	21.58	21.70	21.66	23.0	1.0				
40	QPSK	108	54	22.62	22.67	22.63	24.0	0.0				
40	QPSK	108	108	21.65	21.67	21.59				23.0	1.0	
40	QPSK	216	0	21.60	21.68	21.65				23.0	1.0	
40	16QAM	1	1	21.27	21.32	21.29	23.0	1.0				
40	64QAM	1	1	19.81	19.89	19.88	21.5	2.5				
40	256QAM	1	1	18.46	18.53	18.50	19.5	4.5				
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				2585.01	2595	2604.99	24.0	0.0				
30	QPSK	1	1	22.58	22.59	22.53						
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				2592.52	2595	2607.48	24.0	0.0				
25	QPSK	1	1	22.52	22.60	22.55						
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				2580	2595	2610	24.0	0.0				
20	QPSK	1	1	22.50	22.55	22.52						
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				2577.51	2595	2612.49	24.0	0.0				
15	QPSK	1	1	22.52	22.59	22.57						
Channel				515004	519000	522996	Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)				2575.02	2595	2614.98	24.0	0.0				
10	QPSK	1	1	22.53	22.57	22.53						

n41 Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518998	520000	24.0	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	22.54	22.78	22.55			
100	PI/2 BPSK	1	137	22.51	22.74	22.48	24.0	0.0	
100	PI/2 BPSK	1	271	22.52	22.78	22.52			
100	PI/2 BPSK	135	0	22.08	22.29	22.10	23.5	0.5	
100	PI/2 BPSK	135	69	22.51	22.80	22.46	24.0	0.0	
100	PI/2 BPSK	135	138	22.06	22.34	22.06	23.5	0.5	
100	PI/2 BPSK	270	0	22.15	22.35	22.02	24.0	0.0	
100	QPSK	1	1	22.58	22.85	22.58			
100	QPSK	1	137	22.59	22.80	22.52			
100	QPSK	1	271	22.50	22.82	22.56	24.0	0.0	
100	QPSK	135	0	21.61	21.82	21.54			
100	QPSK	135	69	22.60	22.84	22.54			
100	QPSK	135	138	21.58	21.84	21.56	23.0	1.0	
100	QPSK	270	0	21.68	21.87	21.57	23.0	1.0	
100	16QAM	1	1	21.33	21.41	21.35			
100	64QAM	1	1	19.82	19.93	19.88			
100	256QAM	1	1	18.50	18.59	18.51	21.5	2.5	
Channel				505000	518998	520998	19.5	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	24.0	0.0	
90	QPSK	1	1	22.59	22.78	22.59			
Channel				507204	518998	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2649.99	24.0	0.0	
80	QPSK	1	1	22.57	22.77	22.56			
Channel				506202	518998	521000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655	24.0	0.0	
70	QPSK	1	1	22.53	22.78	22.53			
Channel				505200	518998	521998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2654.98	24.0	0.0	
60	QPSK	1	1	22.53	22.81	22.53			
Channel				504204	518998	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	24.0	0.0	
50	QPSK	1	1	22.57	22.79	22.53			
Channel				503200	518998	523998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2518.5	2592.99	2667.48	24.0	0.0	
45	QPSK	1	1	22.56	22.77	22.54			
Channel				503202	518998	524000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2513.01	2592.99	2670	24.0	0.0	
40	QPSK	1	1	22.53	22.78	22.50			
Channel				502704	518998	524498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2513.52	2592.99	2672.49	24.0	0.0	
35	QPSK	1	1	22.55	22.75	22.55			
Channel				502200	518998	524998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98	24.0	0.0	
30	QPSK	1	1	22.50	22.78	22.53			
Channel				501702	518998	525998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2508.51	2592.99	2677.5	24.0	0.0	
25	QPSK	1	1	22.56	22.70	22.50			
Channel				501204	518998	526998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	24.0	0.0	
20	QPSK	1	1	22.50	22.82	22.57			
Channel				500700	518998	526496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48	24.0	0.0	
15	QPSK	1	1	22.58	22.77	22.60			
Channel				500202	518998	527000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685	24.0	0.0	
10	QPSK	1	1	22.60	22.77	22.54			

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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)	MPR (dB)	
Channel				516004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	18.88	18.95	18.76	20.0	0.0	
40	PI2 BPSK	1	108	18.94	18.89	18.71			
40	PI2 BPSK	1	214	18.86	19.04	18.74			
40	PI2 BPSK	108	0	18.32	18.33	18.23	19.5	0.5	
40	PI2 BPSK	108	54	18.66	18.84	18.69	20.0	0.0	
40	PI2 BPSK	108	108	18.20	18.39	18.27	19.5	0.5	
40	PI2 BPSK	216	0	18.27	18.33	18.25	20.0	0.0	
40	QPSK	1	1	18.92	19.09	18.80			
40	QPSK	1	108	18.93	18.99	18.72			
40	QPSK	1	214	18.84	19.07	18.74	19.0	1.0	
40	QPSK	108	0	17.73	17.91	17.84			
40	QPSK	108	54	18.82	18.63	18.73			
40	QPSK	108	108	17.78	17.82	17.70	19.0	1.0	
40	QPSK	216	0	17.84	17.97	17.84	19.0	1.0	
40	16QAM	1	1	17.76	17.78	17.70			
40	64QAM	1	1	16.29	16.28	16.23	17.5	2.5	
40	256QAM	1	1	14.85	14.99	14.78	15.5	4.5	
Channel				517002 <th>519000<th>520998</th><th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th>	519000 <th>520998</th> <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	18.81	18.97	18.78	20.0	0.0	
Channel				516504 <th>519000<th>521496</th><th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th>	519000 <th>521496</th> <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.52 <th>2595</th> <th>2607.48</th> <th colspan="3"></th>	2595	2607.48			
25	QPSK	1	1	18.93	18.98	18.84	20.0	0.0	
Channel				516000 <th>519000<th>522000</th><th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th>	519000 <th>522000</th> <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580 <th>2595<th>2610<th colspan="3"></th></th></th>	2595 <th>2610<th colspan="3"></th></th>	2610 <th colspan="3"></th>			
20	QPSK	1	1	18.92	19.00	18.74	20.0	0.0	
Channel				515502 <th>519000<th>524998</th><th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th>	519000 <th>524998</th> <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	524998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51 <th>2595<th>2612.49<th colspan="3"></th></th></th>	2595 <th>2612.49<th colspan="3"></th></th>	2612.49 <th colspan="3"></th>			
15	QPSK	1	1	18.90	19.01	18.80	20.0	0.0	
Channel				515004 <th>519000<th>525998</th><th>Tune-up limit (dBm)</th><th colspan="2">MPR (dB)</th></th>	519000 <th>525998</th> <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>	525998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02 <th>2595<th>2614.98</th><th colspan="3"></th></th>	2595 <th>2614.98</th> <th colspan="3"></th>	2614.98			
10	QPSK	1	1	18.88	18.94	18.73	20.0	0.0	

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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)	MPR (dB)	
Channel				506202	518998	520000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	18.98	19.12	18.89	20.0	0.0	
100	PI/2 BPSK	1	137	19.03	19.06	18.86			
100	PI/2 BPSK	1	271	18.92	19.11	18.90			
100	PI/2 BPSK	135	0	18.40	18.47	18.33	19.5	0.5	
100	PI/2 BPSK	135	69	18.84	18.92	18.79	20.0	0.0	
100	PI/2 BPSK	135	138	18.36	18.49	18.37	19.5	0.5	
100	PI/2 BPSK	270	0	18.37	18.46	18.35	20.0	0.0	
100	QPSK	1	1	19.00	19.15	18.90			
100	QPSK	1	137	19.00	19.13	18.85			
100	QPSK	1	271	18.99	19.13	18.89	19.0	1.0	
100	QPSK	135	0	17.87	18.00	17.75			
100	QPSK	135	69	18.92	18.96	18.81	20.0	0.0	
100	QPSK	135	138	17.94	17.85	17.83	19.0	1.0	
100	QPSK	270	0	18.00	18.06	18.01			
100	16QAM	1	1	17.91	17.95	17.86	19.0	1.0	
100	64QAM	1	1	16.44	16.46	16.40	17.5	2.5	
100	256QAM	1	1	14.95	15.13	14.88	15.5	4.5	
Channel				504200	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	18.98	19.08	18.91	20.0	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2530.02	2592.99	2649.99			
80	QPSK	1	1	18.93	19.11	18.87	20.0	0.0	
Channel				506202	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2665			
70	QPSK	1	1	18.96	19.08	18.92	20.0	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	19.00	19.06	18.85	20.0	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	18.96	19.06	18.89	20.0	0.0	
Channel				503200	518998	533998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2518.5	2592.99	2667.48			
45	QPSK	1	1	18.98	19.05	18.81	20.0	0.0	
Channel				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2513.01	2592.99	2670			
40	QPSK	1	1	18.95	19.14	18.83	20.0	0.0	
Channel				502704	518998	534498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2513.52	2592.99	2672.49			
35	QPSK	1	1	18.90	19.06	18.84	20.0	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	18.92	19.10	18.84	20.0	0.0	
Channel				501702	518998	535500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2508.51	2592.99	2677.5			
25	QPSK	1	1	18.95	19.11	18.80	20.0	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	18.95	19.14	18.85	20.0	0.0	
Channel				500700	518998	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48			
16	QPSK	1	1	18.98	19.09	18.81	20.0	0.0	
Channel				500202	518998	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	18.93	19.09	18.89	20.0	0.0	



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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)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	P12 BPSK	1	1	22.28	22.44	22.11		
100	P12 BPSK	1	137	22.23	22.42	22.14		0.0
100	P12 BPSK	1	271	22.24	22.37	22.12		
100	P12 BPSK	135	0	22.28	22.30	22.16	24.0	0.0
100	P12 BPSK	135	69	22.29	22.35	22.30	24.0	0.0
100	P12 BPSK	135	138	22.31	22.22	22.24	24.0	0.0
100	P12 BPSK	270	0	22.31	22.31	22.21		
100	QPSK	1	1	22.30	22.46	22.11		
100	QPSK	1	137	22.23	22.42	22.13	24.0	0.0
100	QPSK	1	271	22.23	22.40	22.12		
100	QPSK	135	0	22.31	22.35	22.25	24.0	0.0
100	QPSK	135	69	22.34	22.38	22.30	24.0	0.0
100	QPSK	135	138	22.30	22.31	22.29	24.0	0.0
100	QPSK	270	0	22.29	22.35	22.22		
100	16QAM	1	1	22.20	22.29	22.24	24.0	0.0
100	64QAM	1	1	22.28	22.32	22.30	24.0	0.0
100	256QAM	1	1	21.42	21.44	21.38	23.0	1.0
Channel								
Frequency (MHz)				3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	22.25	22.39	22.09	24.0	0.0
Channel								
Frequency (MHz)				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	22.53	22.45	22.11	24.0	0.0
Channel								
Frequency (MHz)				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	22.26	22.42	22.07	24.0	0.0
Channel								
Frequency (MHz)				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	22.24	22.43	22.04	24.0	0.0
Channel								
Frequency (MHz)				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	22.23	22.45	22.13	24.0	0.0
Channel								
Frequency (MHz)				3720	3840	3960	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	22.27	22.42	22.14	24.0	0.0
Channel								
Frequency (MHz)				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.22	22.42	22.07	24.0	0.0
Channel								
Frequency (MHz)				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	22.24	22.38	22.08	24.0	0.0
Channel								
Frequency (MHz)				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.33	22.44	22.07	24.0	0.0
Channel								
Frequency (MHz)				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.32	22.39	22.03	24.0	0.0
Channel								
Frequency (MHz)				3705	3840	3975	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.22	22.45	22.11	24.0	0.0

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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)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	P12 BPSK	1	1	25.45	25.51	25.17		
100	P12 BPSK	1	137	25.43	25.53	25.09	27.0	0.0
100	P12 BPSK	1	271	25.42	25.51	25.13		
100	P12 BPSK	135	0	24.88	24.94	24.52	26.5	0.5
100	P12 BPSK	135	69	25.38	25.45	25.36	27.0	0.0
100	P12 BPSK	135	138	24.88	24.98	24.89	26.5	0.5
100	P12 BPSK	270	0	24.92	24.93	24.90		
100	QPSK	1	1	25.51	25.54	25.16		
100	QPSK	1	137	25.45	25.52	25.14	27.0	0.0
100	QPSK	1	271	25.51	25.50	25.11		
100	QPSK	135	0	24.40	24.44	24.43	26.0	1.0
100	QPSK	135	69	25.40	25.45	25.38	27.0	0.0
100	QPSK	135	138	24.43	24.46	24.39	26.0	1.0
100	QPSK	270	0	24.44	24.46	24.42		
100	16QAM	1	1	24.18	24.27	24.23	26.0	1.0
100	64QAM	1	1	22.81	22.86	22.85	24.5	2.5
100	256QAM	1	1	21.38	21.45	21.41	22.5	4.5
Channel								
Frequency (MHz)				3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	25.44	25.51	25.17	27.0	0.0
Channel								
Frequency (MHz)				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	25.50	25.49	25.13	27.0	0.0
Channel								
Frequency (MHz)				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	25.49	25.47	25.13	27.0	0.0
Channel								
Frequency (MHz)				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	25.50	25.45	25.08	27.0	0.0
Channel								
Frequency (MHz)				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	25.47	25.50	25.17	27.0	0.0
Channel								
Frequency (MHz)				3720	3840	3960	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	25.52	25.53	25.10	27.0	0.0
Channel								
Frequency (MHz)				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	25.47	25.49	25.15	27.0	0.0
Channel								
Frequency (MHz)				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	25.46	25.51	25.17	27.0	0.0
Channel								
Frequency (MHz)				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	25.47	25.49	25.13	27.0	0.0
Channel								
Frequency (MHz)				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	25.46	25.51	25.15	27.0	0.0
Channel								
Frequency (MHz)				3705	3840	3975	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	25.50	25.50	25.12	27.0	0.0

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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)	MPR (dB)
Channel								
Frequency (MHz)				37500	37500	37500		
100	P12 BPSK	1	1		22.36			
100	P12 BPSK	1	137		22.28		24.0	0.0
100	P12 BPSK	1	271		22.30			
100	P12 BPSK	135	0		22.37		24.0	0.0
100	P12 BPSK	135	69		22.37		24.0	0.0
100	P12 BPSK	135	138		22.31		24.0	0.0
100	P12 BPSK	270	0		22.31			
100	QPSK	1	1		22.42			
100	QPSK	1	137		22.37		24.0	0.0
100	QPSK	1	271		22.39			
100	QPSK	135	0		22.36		24.0	0.0
100	QPSK	135	69		22.37		24.0	0.0
100	QPSK	135	138		22.35		24.0	0.0
100	QPSK	270	0		22.37			
100	16QAM	1	1		22.24		24.0	0.0
100	64QAM	1	1		22.08		24.0	0.0
100	256QAM	1	1		21.23		23.0	1.0
Channel								
Frequency (MHz)				648668	656000	660334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	22.37	22.39	22.34	24.0	0.0
Channel								
Frequency (MHz)				649334	656000	660668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	22.20	22.38	22.29	24.0	0.0
Channel								
Frequency (MHz)				649000	656000	661000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	22.31	22.41	22.32	24.0	0.0
Channel								
Frequency (MHz)				648668	656000	661334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	22.33	22.41	22.25	24.0	0.0
Channel								
Frequency (MHz)				648334	656000	661668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	22.32	22.38	22.31	24.0	0.0
Channel								
Frequency (MHz)				648000	656000	662000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	22.30	22.36	22.32	24.0	0.0
Channel								
Frequency (MHz)				647668	656000	662334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.34	22.37	22.35	24.0	0.0
Channel								
Frequency (MHz)				647334	656000	662668	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	22.36	22.35	22.30	24.0	0.0
Channel								
Frequency (MHz)				647000	656000	663000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.39	22.35	22.27	24.0	0.0
Channel								
Frequency (MHz)				646768	656000	663334	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.33	22.34	22.26	24.0	0.0
Channel								
Frequency (MHz)				646500	656000	663668	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.37	22.35	22.27	24.0	0.0

Part270 n78 HPUE Ant 3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		25.41			
100	PI/2 BPSK	1	137		25.38		27.0	0.0
100	PI/2 BPSK	1	271		25.36			
100	PI/2 BPSK	135	0		24.87		26.5	0.5
100	PI/2 BPSK	135	69		25.40		27.0	0.0
100	PI/2 BPSK	135	138		24.88		26.5	0.5
100	PI/2 BPSK	270	0		24.86			
100	QPSK	1	1		25.43			
100	QPSK	1	137		25.39		27.0	0.0
100	QPSK	1	271		25.40			
100	QPSK	135	0		24.33		26.0	1.0
100	QPSK	135	69		25.41		27.0	0.0
100	QPSK	135	138		24.36		26.0	1.0
100	QPSK	270	0		24.38			
100	16QAM	1	1		24.18		26.0	1.0
100	64QAM	1	1		22.68		24.5	2.5
100	256QAM	1	1		21.30		22.5	4.5
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	25.33	25.39	25.36	27.0	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	25.29	25.36	25.34	27.0	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	25.24	25.39	25.29	27.0	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	25.35	25.38	25.36	27.0	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	25.32	25.34	25.37	27.0	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	25.34	25.36	25.27	27.0	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	25.34	25.40	25.30	27.0	0.0
Channel				647500	650000	652500		
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	25.35	25.35	25.39	27.0	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	25.35	25.39	25.35	27.0	0.0
Channel				647168	650000	652834		
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	25.28	25.34	25.28	27.0	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	25.33	25.36	25.27	27.0	0.0

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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)	MPR (dB)	
Channel				518004	519000	519996	24.0	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	22.11	22.19	22.17			
40	PI/2 BPSK	1	108	22.04	22.12	22.11	24.0	0.0	
40	PI/2 BPSK	1	214	22.06	22.16	22.02			
40	PI/2 BPSK	108	0	21.59	21.72	21.68			
40	PI/2 BPSK	108	54	22.03	22.19	22.09	24.0	0.0	
40	PI/2 BPSK	108	108	21.66	21.72	21.61	23.5	0.5	
40	PI/2 BPSK	216	0	21.63	21.73	21.64	24.0	0.0	
40	QPSK	1	1	22.12	22.30	22.14			
40	QPSK	1	108	22.06	22.13	22.11			
40	QPSK	1	214	22.14	22.15	22.10	23.0	1.0	
40	QPSK	108	0	21.10	21.21	21.16			
40	QPSK	108	54	22.23	22.28	22.26			
40	QPSK	108	108	21.06	21.22	21.16	23.0	1.0	
40	QPSK	216	0	21.25	21.29	21.27			
40	16QAM	1	1	21.11	21.18	21.14	23.0	1.0	
40	64QAM	1	1	19.79	19.87	19.82	21.5	2.5	
40	256QAM	1	1	18.02	18.10	18.06	19.5	4.5	
Channel				517002	518000	518998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99	24.0	0.0	
30	QPSK	1	1	22.05	22.15	22.17			
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.52	2595	2607.48	24.0	0.0	
25	QPSK	1	1	22.10	22.13	22.15			
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610	24.0	0.0	
20	QPSK	1	1	22.04	22.10	22.05			
Channel				515502	519000	523498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49	24.0	0.0	
15	QPSK	1	1	22.15	22.16	22.14			
Channel				515004	519000	523996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98	24.0	0.0	
10	QPSK	1	1	22.10	22.16	22.12			

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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)	MPR (dB)	
Channel				502002	518998	526000	24.0	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	22.21	22.26	22.14			
100	PI/2 BPSK	1	137	22.15	22.24	22.11	24.0	0.0	
100	PI/2 BPSK	1	271	22.18	22.18	22.10			
100	PI/2 BPSK	135	0	21.73	21.86	21.70		23.5	
100	PI/2 BPSK	135	69	22.24	22.33	22.22	24.0	0.0	
100	PI/2 BPSK	135	138	21.78	21.82	21.78	23.5	0.5	
100	PI/2 BPSK	270	0	21.77	21.80	21.76	24.0	0.0	
100	QPSK	1	1	22.22	22.38	22.19			
100	QPSK	1	137	22.15	22.27	22.13			
100	QPSK	1	271	22.19	22.23	22.14	23.0	1.0	
100	QPSK	135	0	21.27	21.29	21.20			
100	QPSK	135	69	22.29	22.34	22.25			
100	QPSK	135	138	21.25	21.31	21.30	23.0	1.0	
100	QPSK	270	0	21.30	21.33	21.27			
100	16QAM	1	1	21.23	21.25	21.20	23.0	1.0	
100	64QAM	1	1	19.92	19.98	19.87	21.5	2.5	
100	256QAM	1	1	18.20	18.24	18.22	19.5	4.5	
Channel				502002	518998	526000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	24.0	0.0	
90	QPSK	1	1	22.17	22.25	22.13			
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2648.99	24.0	0.0	
80	QPSK	1	1	22.15	22.27	22.19			
Channel				506202	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2665	24.0	0.0	
70	QPSK	1	1	22.20	22.25	22.19			
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2669.98	24.0	0.0	
60	QPSK	1	1	22.19	22.25	22.18			
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	24.0	0.0	
50	QPSK	1	1	22.14	22.22	22.13			
Channel				503200	518998	533998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2518.5	2592.99	2667.48	24.0	0.0	
45	QPSK	1	1	22.08	22.17	22.14			
Channel				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2513.01	2592.99	2670	24.0	0.0	
40	QPSK	1	1	22.21	22.25	22.11			
Channel				502704	518998	534498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2513.52	2592.99	2672.49	24.0	0.0	
35	QPSK	1	1	22.08	22.20	22.15			
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98	24.0	0.0	
30	QPSK	1	1	22.15	22.27	22.14			
Channel				501702	518998	535500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2508.51	2592.99	2677.5	24.0	0.0	
25	QPSK	1	1	22.15	22.25	22.15			
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	24.0	0.0	
20	QPSK	1	1	22.14	22.26	22.22			
Channel				500700	518998	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48	24.0	0.0	
15	QPSK	1	1	22.11	22.22	22.12			
Channel				500202	518998	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685	24.0	0.0	
10	QPSK	1	1	22.22	22.20	22.10			



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PV2 BPSK	1	1	22.39	22.31	22.27	24.0	0.0
100	PV2 BPSK	1	137	22.29	22.38	22.32		
100	PV2 BPSK	1	271	22.36	22.37	22.28		
100	PV2 BPSK	135	0	21.92	21.93	21.90	23.5	0.5
100	PV2 BPSK	135	69	22.29	22.32	22.35	24.0	0.0
100	PV2 BPSK	135	138	21.96	21.94	21.86	23.5	0.5
100	PV2 BPSK	270	0	21.97	21.91	21.84		
100	QPSK	1	1	22.42	22.45	22.38		
100	QPSK	1	137	22.37	22.32	22.35	24.0	0.0
100	QPSK	1	271	22.40	22.31	22.36	23.0	1.0
100	QPSK	135	0	21.35	21.43	21.36		
100	QPSK	135	69	22.29	22.39	22.30		
100	QPSK	135	138	21.35	21.45	21.28	23.0	1.0
100	QPSK	270	0	21.38	21.45	21.39	23.0	1.0
100	16QAM	1	1	21.27	21.42	21.27		
100	64QAM	1	1	19.93	19.97	19.86		
100	256QAM	1	1	17.93	17.91	17.89	19.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.29	22.39	22.30	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.31	22.34	22.30	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.36	22.38	22.33	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.28	22.33	22.27	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.31	22.33	22.29	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.32	22.37	22.34	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.33	22.33	22.31	24.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	22.32	22.34	22.23	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.26	22.34	22.28	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.26	22.41	22.26	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.30	22.41	22.31	24.0	0.0

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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)	MPR (dB)
Channel								
Frequency (MHz)								
100	PV2 BPSK	1	1	16.58	16.52	16.47	17.5	0.0
100	PV2 BPSK	1	137	16.54	16.60	16.38		
100	PV2 BPSK	1	271	16.56	16.60	16.37		
100	PV2 BPSK	135	0	16.19	16.20	15.97	17.0	0.5
100	PV2 BPSK	135	69	16.53	16.62	16.52	17.5	0.0
100	PV2 BPSK	135	138	16.10	16.12	15.94	17.0	0.5
100	PV2 BPSK	270	0	16.00	16.05	15.89		
100	QPSK	1	1	16.63	16.64	16.39		
100	QPSK	1	137	16.62	16.56	16.42	17.5	0.0
100	QPSK	1	271	16.62	16.59	16.30	16.5	1.0
100	QPSK	135	0	15.61	15.66	15.31		
100	QPSK	135	69	16.46	16.62	16.59		
100	QPSK	135	138	15.51	15.54	15.41	16.5	1.0
100	QPSK	270	0	15.59	15.60	15.46	16.5	1.0
100	16QAM	1	1	15.22	15.27	15.31		
100	64QAM	1	1	13.87	13.88	13.81		
100	256QAM	1	1	12.06	12.13	12.06	13.0	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	16.57	16.54	16.27	17.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	16.50	16.52	16.32	17.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	16.54	16.53	16.34	17.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	16.58	16.55	16.30	17.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.59	16.53	16.33	17.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.50	16.61	16.36	17.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.59	16.56	16.30	17.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	16.61	16.57	16.32	17.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.52	16.57	16.36	17.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	16.58	16.56	16.36	17.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	16.51	16.61	16.27	17.5	0.0

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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)	MPR (dB)
Channel								
Frequency (MHz)								
				3760	3840	3920		
100	PV2 BPSK	1	1	19.56	19.57	19.50	20.5	0.0
100	PV2 BPSK	1	137	19.54	19.58	19.37		
100	PV2 BPSK	1	271	19.54	19.56	19.31		
100	PV2 BPSK	135	0	19.14	19.15	18.93	20.0	0.5
100	PV2 BPSK	135	69	19.50	19.60	19.54	20.5	0.0
100	PV2 BPSK	135	138	19.10	19.17	18.89	20.0	0.5
100	PV2 BPSK	270	0	19.03	19.07	18.85		
100	QPSK	1	1	19.59	19.62	19.38		
100	QPSK	1	137	19.56	19.58	19.36	20.5	0.0
100	QPSK	1	271	19.57	19.58	19.33	19.5	1.0
100	QPSK	135	0	18.58	18.62	18.34		
100	QPSK	135	69	19.51	19.58	19.53		
100	QPSK	135	138	18.55	18.60	18.42	19.5	1.0
100	QPSK	270	0	18.55	18.58	18.52	19.5	1.0
100	16QAM	1	1	18.28	18.32	18.29		
100	64QAM	1	1	16.81	16.89	16.85		
100	256QAM	1	1	15.01	15.07	15.02	16.0	4.5
Channel								
Frequency (MHz)								
				3745.02	3840	3935.01	Tune-up limit	MPR
							(dBm)	(dB)
90	QPSK	1	1	19.46	19.50	19.36	20.5	0.0
Channel								
Frequency (MHz)								
				3813.31	65000	66266	Tune-up limit	MPR
							(dBm)	(dB)
80	QPSK	1	1	19.49	19.54	19.31	20.5	0.0
Channel								
Frequency (MHz)								
				64900	65000	65300	Tune-up limit	MPR
							(dBm)	(dB)
70	QPSK	1	1	19.51	19.51	19.27	20.5	0.0
Channel								
Frequency (MHz)								
				65950	65000	66650	Tune-up limit	MPR
							(dBm)	(dB)
60	QPSK	1	1	19.55	19.50	19.32	20.5	0.0
Channel								
Frequency (MHz)								
				64833.4	65000	66368	Tune-up limit	MPR
							(dBm)	(dB)
50	QPSK	1	1	19.50	19.53	19.28	20.5	0.0
Channel								
Frequency (MHz)								
				64720	65000	65430	Tune-up limit	MPR
							(dBm)	(dB)
40	QPSK	1	1	19.48	19.57	19.34	20.5	0.0
Channel								
Frequency (MHz)								
				64768	65000	66433.4	Tune-up limit	MPR
							(dBm)	(dB)
30	QPSK	1	1	19.58	19.55	19.30	20.5	0.0
Channel								
Frequency (MHz)								
				64750	65000	65450	Tune-up limit	MPR
							(dBm)	(dB)
25	QPSK	1	1	19.46	19.55	19.31	20.5	0.0
Channel								
Frequency (MHz)								
				64734	65000	66498	Tune-up limit	MPR
							(dBm)	(dB)
20	QPSK	1	1	19.47	19.58	19.35	20.5	0.0
Channel								
Frequency (MHz)								
				64716	65000	66483.4	Tune-up limit	MPR
							(dBm)	(dB)
15	QPSK	1	1	19.52	19.54	19.34	20.5	0.0
Channel								
Frequency (MHz)								
				64700	65000	66500	Tune-up limit	MPR
							(dBm)	(dB)
10	QPSK	1	1	19.56	19.54	19.34	20.5	0.0



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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)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1	22.18			24.0	0.0
100	PI2 BPSK	1	137	22.28				
100	PI2 BPSK	1	271	22.29				
100	PI2 BPSK	135	0	21.86			23.5	0.5
100	PI2 BPSK	135	69	22.28			24.0	0.0
100	PI2 BPSK	135	138	21.83			23.5	0.5
100	PI2 BPSK	270	0	21.79				
100	QPSK	1	1	22.34				
100	QPSK	1	137	22.18			24.0	0.0
100	QPSK	1	271	22.18				
100	QPSK	135	0	21.38				
100	QPSK	135	69	22.32			24.0	0.0
100	QPSK	135	138	21.32			23.0	1.0
100	QPSK	270	0	21.43				
100	16QAM	1	1	21.35			23.0	1.0
100	64QAM	1	1	19.88			21.5	2.5
100	256QAM	1	1	17.77			19.5	4.5
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	22.16	22.32	22.19	24.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	22.24	22.25	22.20	24.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	22.19	22.30	22.22	24.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.02	3750	3750.01		
60	QPSK	1	1	22.21	22.29	22.23	24.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	22.17	22.30	22.23	24.0	0.0
Channel				647668	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	22.19	22.25	22.20	24.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3735.01		
30	QPSK	1	1	22.23	22.31	22.19	24.0	0.0
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	22.23	22.33	22.20	24.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	22.23	22.25	22.21	24.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	22.23	22.29	22.28	24.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	22.24	22.28	22.23	24.0	0.0

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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)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1	16.37			17.5	0.0
100	PI2 BPSK	1	137	16.44				
100	PI2 BPSK	1	271	16.50				
100	PI2 BPSK	135	0	16.13			17.0	0.5
100	PI2 BPSK	135	69	16.55			17.5	0.0
100	PI2 BPSK	135	138	16.02			17.0	0.5
100	PI2 BPSK	270	0	15.95				
100	QPSK	1	1	16.58				
100	QPSK	1	137	16.44			17.5	0.0
100	QPSK	1	271	16.48				
100	QPSK	135	0	15.59				
100	QPSK	135	69	16.54			17.5	0.0
100	QPSK	135	138	15.47			16.5	1.0
100	QPSK	270	0	15.48				
100	16QAM	1	1	15.15			16.5	1.0
100	64QAM	1	1	13.76			15.0	2.5
100	256QAM	1	1	12.03			13.0	4.5
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	16.48	16.41	16.19	17.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	16.51	16.40	16.21	17.5	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	16.47	16.42	16.18	17.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3730.01		
60	QPSK	1	1	16.52	16.41	16.22	17.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	16.52	16.41	16.17	17.5	0.0
Channel				647668	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	16.52	16.46	16.22	17.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3735.01		
30	QPSK	1	1	16.49	16.46	16.10	17.5	0.0
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	16.47	16.44	16.15	17.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	16.45	16.43	16.12	17.5	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	16.42	16.43	16.19	17.5	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	16.47	16.43	16.21	17.5	0.0

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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)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				37500	37500	37500		
100	PI2 BPSK	1	1	19.46			20.5	0.0
100	PI2 BPSK	1	137	19.49				
100	PI2 BPSK	1	271	19.41				
100	PI2 BPSK	135	0	19.07			20.0	0.5
100	PI2 BPSK	135	69	19.45			20.5	0.0
100	PI2 BPSK	135	138	19.08			20.0	0.5
100	PI2 BPSK	270	0	18.98				
100	QPSK	1	1	19.55				
100	QPSK	1	137	19.43			20.5	0.0
100	QPSK	1	271	19.52				
100	QPSK	135	0	18.47				
100	QPSK	135	69	19.45			20.5	0.0
100	QPSK	135	138	18.49			19.5	1.0
100	QPSK	270	0	18.50				
100	16QAM	1	1	18.17			19.5	1.0
100	64QAM	1	1	16.82			18.0	2.5
100	256QAM	1	1	14.98			16.0	4.5
Channel				649968	650000	650034	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	19.38	19.45	19.22	20.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	19.31	19.44	19.27	20.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3468.01	3500.01	3515.01		
70	QPSK	1	1	19.41	19.36	19.24	20.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460	3500.01	3520.02		
60	QPSK	1	1	19.32	19.36	19.25	20.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	19.39	19.36	19.29	20.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	19.35	19.43	19.25	20.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465.02	3500.01	3535.02		
30	QPSK	1	1	19.33	19.39	19.29	20.5	0.0
Channel				630834	633334	635834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3462.51	3500.01	3537.51		
25	QPSK	1	1	19.34	19.45	19.27	20.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	19.31	19.46	19.26	20.5	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	19.41	19.41	19.22	20.5	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	19.40	19.35	19.28	20.5	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	22.58	22.40	22.51	24.0	0.0
100	P12 BPSK	1	137	22.43	22.47	22.45		
100	P12 BPSK	1	271	22.54	22.61	22.57		
100	P12 BPSK	135	0	22.07	22.11	22.04		
100	P12 BPSK	135	69	22.41	22.43	22.54	24.0	0.0
100	P12 BPSK	135	138	22.18	22.23	22.13	23.5	0.5
100	P12 BPSK	270	0	22.09	22.13	21.88	24.0	0.0
100	QPSK	1	1	22.59	22.58	22.62		
100	QPSK	1	137	22.52	22.45	22.53		
100	QPSK	1	271	22.63	22.51	22.57		
100	QPSK	135	0	21.50	21.64	21.55	23.0	1.0
100	QPSK	135	69	22.47	22.63	22.50	24.0	0.0
100	QPSK	135	138	21.54	21.68	21.45	23.0	1.0
100	QPSK	270	0	21.66	21.67	21.54	23.0	1.0
100	16QAM	1	1	21.50	21.60	21.40		
100	64QAM	1	1	20.16	20.16	20.03		
100	256QAM	1	1	18.14	18.09	18.16		
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.52	22.58	22.48	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.48	22.54	22.50	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.51	22.50	22.43	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.48	22.54	22.53	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.55	22.50	22.49	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.58	22.57	22.52	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.52	22.50	22.48	24.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	22.48	22.49	22.52	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.54	22.50	22.46	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.52	22.57	22.45	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.51	22.58	22.44	24.0	0.0

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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)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	19.79	19.82	19.70	20.5	0.0
100	P12 BPSK	1	137	19.80	19.82	19.81		
100	P12 BPSK	1	271	19.78	19.78	19.71		
100	P12 BPSK	135	0	19.22	19.31	19.14		
100	P12 BPSK	135	69	19.66	19.71	19.65	20.5	0.0
100	P12 BPSK	135	138	19.27	19.27	19.23	20.0	0.5
100	P12 BPSK	270	0	19.26	19.27	19.22		
100	QPSK	1	1	19.81	19.83	19.78		
100	QPSK	1	137	19.76	19.78	19.74		
100	QPSK	1	271	19.76	19.80	19.70	20.5	0.0
100	QPSK	135	0	18.75	18.79	18.64		
100	QPSK	135	69	19.74	19.78	19.70		
100	QPSK	135	138	18.73	18.78	18.75		
100	QPSK	270	0	18.77	18.75	18.68	19.5	1.0
100	16QAM	1	1	18.68	18.72	18.61	19.5	1.0
100	64QAM	1	1	17.20	17.24	17.16	19.0	2.5
100	256QAM	1	1	15.08	15.13	15.01	18.0	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.82	19.82	19.72	20.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.76	19.75	19.70	20.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.80	19.82	19.72	20.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.81	19.77	19.76	20.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.79	19.78	19.76	20.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.73	19.79	19.75	20.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.77	19.77	19.72	20.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	19.76	19.79	19.77	20.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.734	19.760	19.748	Tune-up limit (dBm)	MPR (dB)

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	22.51	22.23	22.44	23.5	0.0
100	P12 BPSK	1	137	22.27	22.32	22.24		
100	P12 BPSK	1	271	22.44	22.55	22.46		
100	P12 BPSK	135	0	21.99	21.96	21.92		
100	P12 BPSK	135	69	22.24	22.32	22.39	23.5	0.0
100	P12 BPSK	135	138	22.01	22.12	21.97	23.0	0.5
100	P12 BPSK	270	0	22.00	22.06	21.82	23.5	0.0
100	QPSK	1	1	22.42	22.57	22.46		
100	QPSK	1	137	22.41	22.35	22.45		
100	QPSK	1	271	22.51	22.44	22.50		
100	QPSK	135	0	21.38	21.47	21.43	22.5	1.0
100	QPSK	135	69	22.32	22.56	22.42	23.5	0.0
100	QPSK	135	138	21.40	21.58	21.36	22.5	1.0
100	QPSK	270	0	21.58	21.52	21.47	22.5	1.0
100	16QAM	1	1	21.37	21.48	21.33		
100	64QAM	1	1	20.08	20.03	19.94		
100	256QAM	1	1	18.07	17.94	18.10		
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.37	22.50	22.35	23.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.39	22.42	22.39	23.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.43	22.38	22.40	23.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.45	22.40	22.38	23.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.40	22.43	22.37	23.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.36	22.49	22.41	23.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.42	22.38	22.39	23.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	22.43	22.42	22.33	23.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.34	22.43	22.34	23.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.07	22.46	22.38	23.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.35	22.47	22.31	23.5	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. [dBm]	Power Middle Ch. / Freq. [dBm]	Power High Ch. / Freq. [dBm]	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1	22.40	22.40			
100	PI2 BPSK	1	137	22.46			24.0	0.0
100	PI2 BPSK	1	271	22.52				
100	PI2 BPSK	135	0	22.08			23.5	0.5
100	PI2 BPSK	135	69	22.51			24.0	0.0
100	PI2 BPSK	135	138	22.05			23.5	0.5
100	PI2 BPSK	270	0	21.94				
100	QPSK	1	1	21.43			24.0	0.0
100	QPSK	1	137	22.38				
100	QPSK	1	271	22.43				
100	QPSK	135	0	21.62			23.0	1.0
100	QPSK	135	69	22.48			24.0	0.0
100	QPSK	135	138	21.43			23.0	1.0
100	QPSK	270	0	21.62				
100	16QAM	1	1	21.50			23.0	1.0
100	64QAM	1	1	19.99			21.5	2.5
100	256QAM	1	1	18.02			19.5	4.5
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	22.34	22.43	22.40	24.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	22.39	22.41	22.39	24.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	22.33	22.43	22.42	24.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.02	3750	3750.01		
60	QPSK	1	1	22.44	22.48	22.45	24.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	22.34	22.51	22.39	24.0	0.0
Channel				647668	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	22.37	22.49	22.38	24.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3735.01		
30	QPSK	1	1	22.35	22.52	22.37	24.0	0.0
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	22.34	22.51	22.43	24.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	22.33	22.43	22.45	24.0	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	22.38	22.46	22.39	24.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	22.36	22.43	22.46	24.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. [dBm]	Power Middle Ch. / Freq. [dBm]	Power High Ch. / Freq. [dBm]	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1	19.81				
100	PI2 BPSK	1	137	19.71			20.5	0.0
100	PI2 BPSK	1	271	19.68				
100	PI2 BPSK	135	0	19.24			20.0	0.5
100	PI2 BPSK	135	69	19.70			20.5	0.0
100	PI2 BPSK	135	138	19.25			20.0	0.5
100	PI2 BPSK	270	0	19.23				
100	QPSK	1	1	19.62			20.5	0.0
100	QPSK	1	137	19.76				
100	QPSK	1	271	19.76				
100	QPSK	135	0	18.78			19.5	1.0
100	QPSK	135	69	19.72			20.5	0.0
100	QPSK	135	138	18.77			19.5	1.0
100	QPSK	270	0	18.75				
100	16QAM	1	1	18.74			19.5	1.0
100	64QAM	1	1	17.34			18.0	2.5
100	256QAM	1	1	15.19			16.0	4.5
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	19.72	19.77	19.74	20.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	19.63	19.80	19.69	20.5	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	19.64	19.69	19.68	20.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3730.01		
60	QPSK	1	1	19.67	19.75	19.70	20.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	19.75	19.73	19.69	20.5	0.0
Channel				647668	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	19.66	19.76	19.69	20.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3735.01		
30	QPSK	1	1	19.68	19.76	19.65	20.5	0.0
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	19.67	19.74	19.68	20.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	19.64	19.74	19.68	20.5	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	19.68	19.69	19.73	20.5	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	19.64	19.79	19.75	20.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq. [dBm]	Power Middle Ch./Freq. [dBm]	Power High Ch./Freq. [dBm]	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1	22.28				
100	PI2 BPSK	1	137	22.39			23.5	0.0
100	PI2 BPSK	1	271	22.44				
100	PI2 BPSK	135	0	21.91			23.0	0.5
100	PI2 BPSK	135	69	22.40			23.5	0.0
100	PI2 BPSK	135	138	21.97			23.0	0.5
100	PI2 BPSK	270	0	21.80				
100	QPSK	1	1	22.58				
100	QPSK	1	137	22.26			23.5	0.0
100	QPSK	1	271	22.28				
100	QPSK	135	0	21.52			22.5	1.0
100	QPSK	135	69	22.32			23.5	0.0
100	QPSK	135	138	21.32			22.5	1.0
100	QPSK	270	0	21.46				
100	16QAM	1	1	21.38			22.5	1.0
100	64QAM	1	1	19.89			21.0	2.5
100	256QAM	1	1	17.91			19.0	4.5
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	22.19	22.34	22.23	23.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	22.17	22.35	22.21	23.5	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	22.24	22.29	22.23	23.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3730.01		
60	QPSK	1	1	22.25	22.28	22.25	23.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	22.17	22.28	22.25	23.5	0.0
Channel				647668	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	22.24	22.28	22.22	23.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3735.01		
30	QPSK	1	1	22.26	22.30	22.32	23.5	0.0
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	22.23	22.35	22.29	23.5	0.0
Channel				647234	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3750.02		
20	QPSK	1	1	22.17	22.36	22.30	23.5	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3762.51		
15	QPSK	1	1	22.18	22.30	22.29	23.5	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3765		
10	QPSK	1	1	22.17	22.32	22.24	23.5	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				650000	666000	662000		
				3750	3840	3930		
100	P12 BPSK	1	1	22.72	22.99	22.75	24.0	0.0
100	P12 BPSK	1	137	22.69	23.02	22.57		
100	P12 BPSK	1	271	22.80	22.99	22.60		
100	P12 BPSK	135	0	22.72	22.72	22.69		
100	P12 BPSK	135	69	22.70	22.80	22.72	24.0	0.0
100	P12 BPSK	135	138	22.66	22.75	22.73	24.0	0.0
100	P12 BPSK	270	0	22.71	22.76	22.74	24.0	0.0
100	QPSK	1	1	22.71	23.06	22.73		
100	QPSK	1	137	22.72	23.05	22.65		
100	QPSK	1	271	22.83	22.98	22.67		
100	QPSK	135	0	22.70	22.79	22.78	24.0	0.0
100	QPSK	135	69	22.78	22.81	22.80	24.0	0.0
100	QPSK	135	138	22.73	22.75	22.75	24.0	0.0
100	QPSK	270	0	22.74	22.77	22.72	24.0	0.0
100	16QAM	1	1	22.78	22.82	22.80		
100	16QAM	1	1	22.81	22.85	22.83		
100	256QAM	1	1	21.96	22.03	22.01		
Channel								
Frequency (MHz)								
				3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	22.65	23.04	22.71	24.0	0.0
Channel								
Frequency (MHz)								
				649334	655000	662666	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	22.65	23.04	22.69	24.0	0.0
Channel								
Frequency (MHz)								
				630000	656000	663000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	22.65	23.05	22.72	24.0	0.0
Channel								
Frequency (MHz)								
				3740.00	3840	3950.01	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	22.71	23.03	22.71	24.0	0.0
Channel								
Frequency (MHz)								
				646334	656000	663666	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	22.74	23.00	22.66	24.0	0.0
Channel								
Frequency (MHz)								
				6440000	6540000	664000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	22.63	23.00	22.64	24.0	0.0
Channel								
Frequency (MHz)								
				647668	655000	664334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.74	23.00	22.68	24.0	0.0
Channel								
Frequency (MHz)								
				3712.50	3840	3967.5	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	22.63	23.01	22.73	24.0	0.0
Channel								
Frequency (MHz)								
				647334	655000	664666	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.62	22.97	22.65	24.0	0.0
Channel								
Frequency (MHz)								
				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.67	23.03	22.69	24.0	0.0
Channel								
Frequency (MHz)								
				3705	3840	3975	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.65	22.99	22.76	24.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				65000	65600	66200		
				3750	3840	3930		
100	P12 BPSK	1	1	25.84	25.99	25.75	27.0	0.0
100	P12 BPSK	1	137	25.81	25.83	25.75		
100	P12 BPSK	1	271	25.79	25.92	25.70		
100	P12 BPSK	135	0	25.33	25.41	25.28		
100	P12 BPSK	135	69	25.82	25.85	25.83	27.0	0.0
100	P12 BPSK	135	138	25.29	25.39	25.34	26.5	0.5
100	P12 BPSK	270	0	25.31	25.36	25.31	27.0	0.0
100	QPSK	1	1	25.87	26.04	25.83		
100	QPSK	1	137	25.80	25.85	25.73		
100	QPSK	1	271	25.78	25.84	25.78		
100	QPSK	135	0	24.80	24.82	24.83	26.0	1.0
100	QPSK	135	69	25.83	25.86	25.81	27.0	0.0
100	QPSK	135	138	24.84	24.98	24.79	26.0	1.0
100	QPSK	270	0	24.78	24.83	24.76	26.0	1.0
100	16QAM	1	1	24.77	24.81	24.79		
100	16QAM	1	1	23.34	23.42	23.38		
100	256QAM	1	1	21.61	21.66	21.64		
Channel								
Frequency (MHz)								
90	QPSK	1	1	64968	65600	66234	Tune-up limit	MPR
				3745.02	3840	3935.01	(dBm)	(dB)
90	QPSK	1	1	25.85	25.93	25.79	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	64834	65600	66266	Tune-up limit	MPR
				3700.01	3840	3945.02	(dBm)	(dB)
80	QPSK	1	1	25.84	25.96	25.76	27.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	64800	65600	66300	Tune-up limit	MPR
				3735	3840	3945	(dBm)	(dB)
70	QPSK	1	1	25.82	25.99	25.74	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	64666	65600	66334	Tune-up limit	MPR
				3700.02	3840	3950.01	(dBm)	(dB)
60	QPSK	1	1	25.85	26.00	25.76	27.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	64634	65600	66366	Tune-up limit	MPR
				3725.01	3840	3955.02	(dBm)	(dB)
50	QPSK	1	1	25.82	25.92	25.72	27.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	64600	65600	66400	Tune-up limit	MPR
				3720	3840	3960	(dBm)	(dB)
40	QPSK	1	1	25.84	25.97	25.76	27.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	64768	65600	66434	Tune-up limit	MPR
				3715.02	3840	3975.01	(dBm)	(dB)
30	QPSK	1	1	25.78	26.00	25.62	27.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	64750	65600	66450	Tune-up limit	MPR
				3712.5	3840	397.5	(dBm)	(dB)
25	QPSK	1	1	25.81	25.96	25.72	27.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	64724	65600	66469	Tune-up limit	MPR
				3710.01	3840	3970.02	(dBm)	(dB)
20	QPSK	1	1	25.78	25.95	25.73	27.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	64716	65600	66484	Tune-up limit	MPR
				3707.52	3840	3972.51	(dBm)	(dB)
15	QPSK	1	1	25.81	25.96	25.75	27.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	64700	65600	66500	Tune-up limit	MPR
				3705	3840	3975	(dBm)	(dB)
10	QPSK	1	1	25.83	26.02	25.80	27.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				65000	65000	65000		
				3750	3750	3750		
100	P12 BPSK	1	1		22.86		24.0	0.0
100	P12 BPSK	1	137		22.77			
100	P12 BPSK	1	271		22.80			
100	P12 BPSK	135	0		22.67			
100	P12 BPSK	135	69		22.66		24.0	0.0
100	P12 BPSK	135	138		22.67		24.0	0.0
100	P12 BPSK	270	0		22.71		24.0	0.0
100	QPSK	1	1		22.88			
100	QPSK	1	137		22.76			
100	QPSK	1	271		22.84			
100	QPSK	135	0		22.88		24.0	0.0
100	QPSK	135	69		22.73		24.0	0.0
100	QPSK	135	138		22.67		24.0	0.0
100	QPSK	270	0		22.71		24.0	0.0
100	16QAM	1	1		22.43			
100	64QAM	1	1		22.50			
100	256QAM	1	1		21.62			
Channel								
Frequency (MHz)								
				649668	650000	650334	Tune-up limit	MPR
				3745.02	3750	3755.01	(dBm)	(dB)
90	QPSK	1	1	22.81	22.87	22.83	24.0	0.0
Channel								
Frequency (MHz)								
				649334	650000	650668	Tune-up limit	MPR
				3745.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	1	22.82	22.84	22.82	24.0	0.0
Channel								
Frequency (MHz)								
				649000	650000	651000	Tune-up limit	MPR
				3735	3750	3765	(dBm)	(dB)
70	QPSK	1	1	22.75	22.79	22.85	24.0	0.0
Channel								
Frequency (MHz)								
				648668	650000	651334	Tune-up limit	MPR
				3730.02	3750	3770.01	(dBm)	(dB)
60	QPSK	1	1	22.73	22.81	22.74	24.0	0.0
Channel								
Frequency (MHz)								
				648334	650000	651668	Tune-up limit	MPR
				3725.01	3750	3775.02	(dBm)	(dB)
50	QPSK	1	1	22.73	22.83	22.75	24.0	0.0
Channel								
Frequency (MHz)								
				648000	650000	652000	Tune-up limit	MPR
				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	1	22.82	22.85	22.75	24.0	0.0
Channel								
Frequency (MHz)								
				647668	650000	652334	Tune-up limit	MPR
				3715.02	3750	3785.01	(dBm)	(dB)
30	QPSK	1	1	22.78	22.85	22.85	24.0	0.0
Channel								
Frequency (MHz)								
				647334	650000	652500	Tune-up limit	MPR
				3712.5	3750	3767.5	(dBm)	(dB)
25	QPSK	1	1	22.82	22.82	22.76	24.0	0.0
Channel								
Frequency (MHz)								
				647334	650000	652668	Tune-up limit	MPR
				3710.01	3750	3760.02	(dBm)	(dB)
20	QPSK	1	1	22.76	22.83	22.78	24.0	0.0
Channel								
Frequency (MHz)								
				647168	650000	652834	Tune-up limit	MPR
				3707.52	3750	3762.51	(dBm)	(dB)
15	QPSK	1	1	22.75	22.82	22.76	24.0	0.0
Channel								
Frequency (MHz)								
				646834	650000	653000	Tune-up limit	MPR
				3705	3750	3795	(dBm)	(dB)
10	QPSK	1	1	22.80	22.83	22.84	24.0	0.0

Part270 n78 HPUE Ant 9								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		25.83			
100	PI/2 BPSK	1	137		25.80		27.0	0.0
100	PI/2 BPSK	1	271		25.78			
100	PI/2 BPSK	135	0		25.29		28.5	0.5
100	PI/2 BPSK	135	69		25.81		27.0	0.0
100	PI/2 BPSK	135	138		25.35		28.5	0.5
100	PI/2 BPSK	270	0		25.38			
100	QPSK	1	1		25.80			
100	QPSK	1	137		25.88		27.0	0.0
100	QPSK	1	271		25.86			
100	QPSK	135	0		24.81		28.0	1.0
100	QPSK	135	69		25.83		27.0	0.0
100	QPSK	135	138		24.78		28.0	1.0
100	QPSK	270	0		24.80			
100	16QAM	1	1		24.76		28.0	1.0
100	64QAM	1	1		23.25		24.5	2.5
100	256QAM	1	1		21.58		22.5	4.5
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	25.84	25.88	25.86	27.0	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	25.87	25.82	25.87	27.0	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	25.81	25.88	25.85	27.0	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	25.86	25.81	25.81	27.0	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	25.78	25.79	25.80	27.0	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	25.83	25.86	25.80	27.0	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	25.79	25.86	25.80	27.0	0.0
Channel				647500	650000	652500		
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	25.85	25.81	25.80	27.0	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	25.81	25.84	25.83	27.0	0.0
Channel				647168	650000	652834		
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	25.83	25.85	25.82	27.0	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	25.83	25.86	25.83	27.0	0.0



Reduced Power Mode for ECI 2

n5 Ant 0 ECI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800	24.0	0.0
Frequency (MHz)				834	838.5	839		
20	PI/2 BPSK	1	1	22.50	22.84	22.55	24.0	0.0
20	PI/2 BPSK	1	53	22.55	22.99	22.56		
20	PI/2 BPSK	1	104	22.53	22.84	22.50		
20	PI/2 BPSK	50	0	22.04	22.13	22.00		
20	PI/2 BPSK	50	28	22.48	22.57	22.54	24.0	0.0
20	PI/2 BPSK	50	56	22.01	22.14	22.03	23.5	0.5
20	PI/2 BPSK	100	0	22.07	22.19	22.06	24.0	0.0
20	QPSK	1	1	22.63	22.65	22.61		
20	QPSK	1	53	22.50	22.61	22.59		
20	QPSK	1	104	22.62	22.64	22.58		
20	QPSK	50	0	21.53	21.57	21.47	23.0	1.0
20	QPSK	50	28	22.54	22.57	22.48	24.0	0.0
20	QPSK	50	56	21.50	21.56	21.52	23.0	1.0
20	QPSK	100	0	21.50	21.59	21.57	23.0	1.0
20	16QAM	1	1	21.21	21.33	21.20		
20	64QAM	1	1	19.77	19.87	19.77		
20	256QAM	1	1	18.41	18.47	18.44		
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	838.5	841.5	24.0	0.0
15	QPSK	1	1	22.58	22.62	22.49	24.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844	24.0	0.0
10	QPSK	1	1	22.53	22.63	22.61	24.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	838.5	846.5	24.0	0.0
5	QPSK	1	1	22.56	22.62	22.55	24.0	0.0

n26 Ant 0 ECI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel				164300	166300	167800	24.0	0.0
Frequency (MHz)				824	831.5	839		
20	PI/2 BPSK	1	1	22.90	22.91	22.89	24.0	0.0
20	PI/2 BPSK	1	53	22.87	22.88	22.84		
20	PI/2 BPSK	1	104	22.81	22.88	22.82		
20	PI/2 BPSK	50	0	22.45	22.47	22.40		
20	PI/2 BPSK	50	28	22.88	22.88	22.84	24.0	0.0
20	PI/2 BPSK	50	56	22.42	22.46	22.43	23.5	0.5
20	PI/2 BPSK	100	0	22.44	22.48	22.47	24.0	0.0
20	QPSK	1	1	22.94	22.96	22.93		
20	QPSK	1	53	22.87	22.94	22.86		
20	QPSK	1	104	22.89	22.91	22.86		
20	QPSK	50	0	21.98	21.92	21.84	23.0	1.0
20	QPSK	50	28	22.86	22.89	22.84	24.0	0.0
20	QPSK	50	56	21.90	21.86	21.91	23.0	1.0
20	QPSK	100	0	21.88	21.93	21.90	23.0	1.0
20	16QAM	1	1	21.68	21.70	21.67		
20	64QAM	1	1	20.26	20.28	20.24		
20	256QAM	1	1	18.84	18.89	18.82		
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5	24.0	0.0
15	QPSK	1	1	22.92	22.95	22.86	24.0	0.0
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844	24.0	0.0
10	QPSK	1	1	22.93	22.94	22.87	24.0	0.0
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5	24.0	0.0
5	QPSK	1	1	22.91	22.94	22.88	24.0	0.0



n2 Ant 1 EC12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				376000	376000	376000	24.0	0.0	
Frequency (MHz)				1870	1880	1880			
40	PV2 BPSK	1	1	22.43	22.64	22.49	24.0	0.0	
40	PV2 BPSK	1	108	22.54	22.59	22.49			
40	PV2 BPSK	1	214	22.46	22.57	22.51	23.5	0.5	
40	PV2 BPSK	108	0	21.86	21.71	21.70			
40	PV2 BPSK	108	54	22.73	22.75	22.70	24.0	0.0	
40	PV2 BPSK	108	108	22.22	22.26	22.18	23.5	0.5	
40	PV2 BPSK	216	0	22.24	22.28	22.21	24.0	0.0	
40	QPSK	1	1	22.72	22.78	22.75			
40	QPSK	1	108	22.55	22.64	22.51	24.0	0.0	
40	QPSK	1	214	22.44	22.66	22.49			
40	QPSK	108	0	21.77	21.79	21.74	23.0	1.0	
40	QPSK	108	54	22.72	22.77	22.74	24.0	0.0	
40	QPSK	108	108	21.73	21.75	21.71	23.0	1.0	
40	QPSK	216	0	21.75	21.80	21.76	23.0	1.0	
40	16QAM	1	1	21.38	21.43	21.41	23.0	1.0	
40	64QAM	1	1	19.84	19.98	19.96	21.5	2.5	
40	256QAM	1	1	18.52	18.60	18.58	19.5	4.5	
Channel				372000	376000	376000	Tune-up limit (dBm)		
Frequency (MHz)				1867.5	1880	1892.5	MPR (dB)		
35	QPSK	1	1	22.68	22.65	22.63	24.0	0.0	
Channel				373000	376000	379000	Tune-up limit (dBm)		
Frequency (MHz)				1892	1900	1905	MPR (dB)		
30	QPSK	1	1	22.59	22.67	22.67	24.0	0.0	
Channel				372000	376000	379500	Tune-up limit (dBm)		
Frequency (MHz)				1862.5	1880	1897.5	MPR (dB)		
25	QPSK	1	1	22.48	22.61	22.53	24.0	0.0	
Channel				372000	376000	380000	Tune-up limit (dBm)		
Frequency (MHz)				1860	1880	1900	MPR (dB)		
20	QPSK	1	1	22.46	22.63	22.48	24.0	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)		
Frequency (MHz)				1857.5	1880	1902.5	MPR (dB)		
15	QPSK	1	1	22.48	22.60	22.47	24.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)		
Frequency (MHz)				1855	1880	1905	MPR (dB)		
10	QPSK	1	1	22.52	22.62	22.54	24.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)		
Frequency (MHz)				1852.5	1880	1907.5	MPR (dB)		
5	QPSK	1	1	22.54	22.62	22.47	24.0	0.0	

n7 Ant 1 EC12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000	24.0	0.0	
Frequency (MHz)				2525	2535	2545			
50	PV2 BPSK	1	1	22.35	22.47	22.36	24.0	0.0	
50	PV2 BPSK	1	135	22.29	22.31	22.28			
50	PV2 BPSK	1	268	22.26	22.36	22.34	23.5	0.5	
50	PV2 BPSK	135	0	21.85	22.06	22.04			
50	PV2 BPSK	135	68	22.45	22.53	22.48	24.0	0.0	
50	PV2 BPSK	135	135	21.85	22.05	21.97	23.5	0.5	
50	PV2 BPSK	270	0	22.00	22.04	22.01	24.0	0.0	
50	QPSK	1	1	22.54	22.58	22.57			
50	QPSK	1	135	22.32	22.37	22.32	24.0	0.0	
50	QPSK	1	268	22.35	22.38	22.34			
50	QPSK	135	0	21.45	21.58	21.50	23.0	1.0	
50	QPSK	135	68	22.49	22.55	22.52	24.0	0.0	
50	QPSK	135	135	21.44	21.57	21.47	23.0	1.0	
50	QPSK	270	0	21.80	21.85	21.83	23.0	1.0	
50	16QAM	1	1	21.08	21.14	21.11	23.0	1.0	
50	64QAM	1	1	19.70	19.75	19.74	21.5	2.5	
50	256QAM	1	1	18.28	18.35	18.30	19.5	4.5	
Channel				504000	507000	510000	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				2520	2535	2550			
40	QPSK	1	1	22.48	22.51	22.48	24.0	0.0	
Channel				503500	507000	510500	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				2517.5	2535	2552.5			
35	QPSK	1	1	22.50	22.47	22.53	24.0	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	22.46	22.53	22.47	24.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	22.47	22.51	22.51	24.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				2510	2535	2560			
20	PV2 BPSK	1	1	22.40	22.51	22.47	24.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	22.41	22.54	22.50	24.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	22.47	22.48	22.53	24.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	22.51	22.52	22.47	24.0	0.0	

n66 Ant 1 EC12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	346000	351500	24.0	0.0	
Frequency (MHz)				1732.5	1745	1757.5			
45	PV2 BPSK	1	1	22.61	22.71	22.72	24.0	0.0	
45	PV2 BPSK	1	120	22.60	22.62	22.61			
45	PV2 BPSK	1	240	22.53	22.70	22.68	23.5	0.5	
45	PV2 BPSK	120	0	22.21	22.35	22.31			
45	PV2 BPSK	120	60	22.71	22.79	22.76	24.0	0.0	
45	PV2 BPSK	120	120	22.23	22.28	22.28	23.5	0.5	
45	PV2 BPSK	240	0	22.25	22.34	22.28	24.0	0.0	
45	QPSK	1	1	22.71	22.85	22.72			
45	QPSK	1	120	22.61	22.69	22.65	24.0	0.0	
45	QPSK	1	240	22.68	22.72	22.68	23.0	1.0	
45	QPSK	120	0	21.69	21.82	21.80			
45	QPSK	120	60	22.74	22.80	22.77	24.0	0.0	
45	QPSK	120	120	21.80	21.81	21.73	23.0	1.0	
45	QPSK	240	0	21.80	21.85	21.82	23.0	1.0	
45	16QAM	1	1	21.44	21.50	21.48	23.0	1.0	
45	64QAM	1	1	19.98	20.03	20.00	21.5	2.5	
45	256QAM	1	1	18.59	18.65	18.62	19.5	4.5	
Channel				345000	346000	352000	Tune-up limit (dBm)		
Frequency (MHz)				1730	1745	1760	MPR (dB)		
40	QPSK	1	1	22.60	22.80	22.59	24.0	0.0	
Channel				345000	346000	352500	Tune-up limit (dBm)		
Frequency (MHz)				1727.5	1745	1752.5	MPR (dB)		
35	QPSK	1	1	22.61	22.83	22.64	24.0	0.0	
Channel				345000	346000	353000	Tune-up limit (dBm)		
Frequency (MHz)				1725	1745	1765	MPR (dB)		
30	QPSK	1	1	22.59	22.74	22.63	24.0	0.0	
Channel				345000	346000	353500	Tune-up limit (dBm)		
Frequency (MHz)				1722.5	1745	1767.5	MPR (dB)		
25	QPSK	1	1	22.58	22.74	22.72	24.0	0.0	
Channel				345000	346000	354000	Tune-up limit (dBm)		
Frequency (MHz)				1720	1745	1770	MPR (dB)		
20	QPSK	1	1	22.62	22.70	22.65	24.0	0.0	
Channel				345000	346000	354500	Tune-up limit (dBm)		
Frequency (MHz)				1717.5	1745	1772.5	MPR (dB)		
15	QPSK	1	1	22.64	22.87	22.72	24.0	0.0	
Channel				343000	346000	355000	Tune-up limit (dBm)		
Frequency (MHz)				1715	1745	1775	MPR (dB)		
10	QPSK	1	1	22.58	22.67	22.65	24.0	0.0	
Channel				342500	346000	355500	Tune-up limit (dBm)		
Frequency (MHz)				1712.5	1745	1777.5	MPR (dB)		
5	QPSK	1	1	22.52	22.67	22.69	24.0	0.0	



n2 Ant 4 ECI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				376000	376000	379000	19.3	0.0	
Frequency (MHz)				1870	1880	1890			
40	PV2 BPSK	1	1	18.11	18.12	18.09	19.3	0.0	
40	PV2 BPSK	1	108	18.12	18.12	18.06			
40	PV2 BPSK	1	214	18.06	18.12	18.08	19.3	0.0	
40	PV2 BPSK	108	0	18.18	18.16	18.15			
40	PV2 BPSK	108	54	18.06	18.14	18.11	19.3	0.0	
40	PV2 BPSK	108	108	18.21	18.15	18.15			
40	PV2 BPSK	216	0	18.16	18.18	18.19	19.3	0.0	
40	QPSK	1	1	18.16	18.22	18.16			
40	QPSK	1	108	18.14	18.10	18.10	19.3	0.0	
40	QPSK	1	214	18.10	18.12	18.15			
40	QPSK	108	0	18.15	18.17	18.16	19.3	0.0	
40	QPSK	108	54	18.15	18.20	18.18			
40	QPSK	108	108	18.09	18.13	18.13	19.3	0.0	
40	QPSK	216	0	18.14	18.18	18.14			
40	16QAM	1	1	18.13	18.08	18.14	19.3	0.0	
40	64QAM	1	1	18.16	18.19	18.12			
40	256QAM	1	1	17.87	18.03	17.89	19.3	0.0	
Channel				372000	376000	376000			
Frequency (MHz)				1867.5	1880	1892.5	24.0	0.0	
35	QPSK	1	1	18.18	18.15	18.17			
Channel				373000	376000	379000	19.3	0.0	
Frequency (MHz)				1895	1900	1905			
30	QPSK	1	1	18.10	18.14	18.10	24.0	0.0	
Channel				372500	376000	379000			
Frequency (MHz)				1862.5	1880	1897.5	24.0	0.0	
25	QPSK	1	1	18.17	18.20	18.11			
Channel				372000	376000	380000	19.3	0.0	
Frequency (MHz)				1860	1880	1900			
20	QPSK	1	1	18.12	18.20	18.08	24.0	0.0	
Channel				371500	376000	380000			
Frequency (MHz)				1857.5	1880	1902.5	19.3	0.0	
15	QPSK	1	1	18.13	18.10	18.19			
Channel				371000	376000	381000	19.3	0.0	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	18.19	18.15	18.09	19.3	0.0	
Channel				370500	376000	381500			
Frequency (MHz)				1852.5	1880	1907.5	19.3	0.0	
5	QPSK	1	1	18.14	18.15	18.15			

n5 Ant 4 ECI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167000	167800	23.8	0.0	
Frequency (MHz)				834	836.5	839			
20	PV2 BPSK	1	1	22.63	22.67	22.61	23.8	0.0	
20	PV2 BPSK	1	53	22.58	22.65	22.60			
20	PV2 BPSK	1	104	22.58	22.63	22.57	23.5	0.3	
20	PV2 BPSK	50	0	21.94	22.08	22.02			
20	PV2 BPSK	50	28	22.38	22.49	22.44	23.8	0.0	
20	PV2 BPSK	50	56	21.99	22.09	21.95			
20	PV2 BPSK	100	0	22.08	22.10	22.06	23.8	0.0	
20	QPSK	1	1	22.64	22.68	22.62			
20	QPSK	1	53	22.64	22.66	22.60	23.0	0.8	
20	QPSK	1	104	22.64	22.67	22.60			
20	QPSK	50	0	21.42	21.56	21.47	23.8	0.0	
20	QPSK	50	28	22.45	22.55	22.53			
20	QPSK	50	56	21.40	21.53	21.46	23.0	0.8	
20	QPSK	100	0	21.52	21.59	21.52			
20	16QAM	1	1	21.33	21.43	21.35	23.0	0.8	
20	64QAM	1	1	19.93	19.96	19.91			
20	256QAM	1	1	18.54	18.61	18.59	19.5	4.3	
Channel				165300	167000	168800			
Frequency (MHz)				831.5	836.5	841.5	23.8	0.0	
15	QPSK	1	1	22.57	22.64	22.58			
Channel				166800	167300	168800	23.8	0.0	
Frequency (MHz)				820	836.5	844			
10	QPSK	1	1	22.65	22.68	22.61	23.9	0.0	
Channel				165300	167300	169300			
Frequency (MHz)				826.5	836.5	846.5	23.8	0.0	
5	QPSK	1	1	22.62	22.63	22.59			

n7 Ant 4 ECI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000	19.4	0.0	
Frequency (MHz)				2525	2535	2545			
50	PV2 BPSK	1	1	18.29	18.44	18.30	19.4	0.0	
50	PV2 BPSK	1	135	18.36	18.41	18.32			
50	PV2 BPSK	1	268	18.19	18.41	18.27	19.4	0.0	
50	PV2 BPSK	135	0	18.38	18.37	18.34			
50	PV2 BPSK	135	68	18.28	18.43	18.41	19.4	0.0	
50	PV2 BPSK	135	135	18.32	18.35	18.38			
50	PV2 BPSK	270	0	18.35	18.44	18.42	19.4	0.0	
50	QPSK	1	1	18.38	18.46	18.38			
50	QPSK	1	135	18.27	18.38	18.22	19.4	0.0	
50	QPSK	1	268	18.31	18.41	18.31			
50	QPSK	135	0	18.33	18.42	18.36	19.4	0.0	
50	QPSK	135	68	18.42	18.44	18.37			
50	QPSK	135	135	18.36	18.41	18.36	19.4	0.0	
50	QPSK	270	0	18.41	18.44	18.42			
50	16QAM	1	1	18.04	18.07	18.05	19.4	0.0	
50	64QAM	1	1	18.12	18.19	18.18			
50	256QAM	1	1	17.70	17.78	17.72	18.5	0.9	
Channel				504000	507000	510000			
Frequency (MHz)				2520	2535	2550	19.4	0.0	
40	QPSK	1	1	18.27	18.43	18.27			
Channel				503500	507000	510500	19.4	0.0	
Frequency (MHz)				2517.5	2535	2552.5			
35	QPSK	1	1	18.33	18.35	18.29	23.0	0.0	
Channel				503000	507000	511000			
Frequency (MHz)				2515	2535	2555	19.4	0.0	
30	QPSK	1	1	18.29	18.39	18.25			
Channel				502500	507000	511500	19.4	0.0	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	18.30	18.45	18.30	19.4	0.0	
Channel				502000	507000	512000			
Frequency (MHz)				2510	2535	2560	19.4	0.0	
20	PV2 BPSK	1	1	18.32	18.37	18.25			
Channel				501500	507000	512500	19.4	0.0	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	18.29	18.45	18.26	19.4	0.0	
Channel				501000	507000	513000			
Frequency (MHz)				2505	2535	2565	19.4 <th colspan="2" rowspan="2">0.0</th>	0.0	
10	QPSK	1	1	18.35	18.35	18.31			
Channel				500500	507000	513500	19.4	0.0	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	18.31	18.37		19.4	0.0	
Channel				500000	507000	514000			

n26 Ant 4 ECI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				168300	168300	167600		
Frequency (MHz)				824	831.5	839		
20	PI2 BPSK	1	1	22.78	22.84	22.79	23.8	0.0
20	PI2 BPSK	1	53	22.73	22.81	22.83		
20	PI2 BPSK	1	104	22.77	22.94	22.77		
20	PI2 BPSK	50	0	22.06	22.25	22.19	23.5	0.3
20	PI2 BPSK	50	28	22.62	22.71	22.67	23.8	0.0
20	PI2 BPSK	50	58	22.16	22.26	22.22	23.5	0.3
20	PI2 BPSK	100	0	22.05	22.21	22.19	23.8	0.0
20	QPSK	1	1	22.78	22.85	22.81		
20	QPSK	1	53	22.81	22.84	22.81		
20	QPSK	1	104	22.78	22.82	22.80	23.0	0.8
20	QPSK	50	0	21.82	21.68	21.63		
20	QPSK	50	28	22.81	22.70	22.66		
20	QPSK	50	58	21.80	21.74	21.68	23.0	0.8
20	QPSK	100	0	21.72	21.75	21.74	23.0	0.8
20	16QAM	1	1	21.48	21.53	21.49		
20	64QAM	1	1	20.04	20.10	20.07		
20	256QAM	1	1	18.61	18.70	18.65	19.5	4.3
Channel				168300	168300	167600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	22.75	22.80	22.79	23.8	0.0
Channel				163800	166300	166800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				112	831.5	844		
10	QPSK	1	1	22.74	22.70	22.78	23.8	0.0
Channel				163300	166300	166300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	22.70	22.80	22.75	23.8	0.0

n66 Ant 4 ECI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				345500	349000	351500		
Frequency (MHz)				1732.5	1745	1757.5		
45	PI2 BPSK	1	1	17.93	18.05	17.90	19.0	0.0
45	PI2 BPSK	1	120	17.98	18.05	17.93		
45	PI2 BPSK	1	240	17.87	17.87	17.85		
45	PI2 BPSK	120	0	17.88	17.92	17.91	19.0	0.0
45	PI2 BPSK	120	60	17.84	17.98	17.97	19.0	0.0
45	PI2 BPSK	120	120	17.92	17.95	17.94	19.0	0.0
45	PI2 BPSK	240	0	17.94	17.95	17.97	19.0	0.0
45	QPSK	1	1	17.95	18.06	17.93		
45	QPSK	1	120	17.99	18.00	17.98		
45	QPSK	1	240	17.88	17.94	17.99	19.0	0.0
45	QPSK	120	0	17.96	18.00	17.95		
45	QPSK	120	60	17.87	18.03	17.99		
45	QPSK	120	120	17.82	17.93	17.91	19.0	0.0
45	QPSK	240	0	17.99	18.04	17.97	19.0	0.0
45	16QAM	1	1	17.63	17.74	17.60		
45	64QAM	1	1	17.67	17.74	17.74		
45	256QAM	1	1	18.02	18.05	18.00	19.0	0.0
Channel				345000	349000	352000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1730	1745	1760		
40	QPSK	1	1	17.89	18.04	17.91	19.0	0.0
Channel				345500	349000	352500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1727.5	1745	1762.5		
35	QPSK	1	1	17.84	17.95	17.82	19.0	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	17.86	18.05	17.88	19.0	0.0
Channel				345000	349000	353500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	17.84	17.98	17.85	19.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	17.80	18.00	17.82	19.0	0.0
Channel				343000	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	17.90	18.04	17.88	19.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	17.94	18.02	17.91	19.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	17.94	18.05	17.88	19.0	0.0

n38 Ant 0 ECI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				516004	516000	516996	22.0	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	21.01	21.07	21.07			
40	PI2 BPSK	1	53	21.01	21.14	21.03	22.0	0.0	
40	PI2 BPSK	1	104	21.03	21.01	21.09			
40	PI2 BPSK	50	0	20.55	20.66	20.61			
40	PI2 BPSK	50	28	20.97	21.14	21.05	22.0	0.0	
40	PI2 BPSK	50	56	20.46	20.66	20.58	21.5	0.5	
40	PI2 BPSK	100	0	20.54	20.54	20.48			
40	QPSK	1	1	21.05	21.23	21.07			
40	QPSK	1	53	21.01	21.13	21.04	22.0	0.0	
40	QPSK	1	104	21.06	21.14	21.05			
40	QPSK	50	0	20.05	20.12	20.05			
40	QPSK	50	28	21.02	21.12	21.10	22.0	0.0	
40	QPSK	50	56	20.04	20.14	20.14	21.0	1.0	
40	QPSK	100	0	20.08	20.13	20.10			
40	16QAM	1	1	19.58	19.64	19.62			
40	64QAM	1	1	18.07	18.10	18.07	17.5	2.5	
40	256QAM	1	1	16.76	16.82	16.71			
Channel				517002	519000	520998			
Frequency (MHz)				2595.01	2595	2604.99	(dBm)		
30	QPSK	1	1	20.98	21.15	20.99	22.0	0.0	
Channel				516504	519000	521496	Tune-up limit		
Frequency (MHz)				2592.52	2595	2607.48	(dBm)		
25	QPSK	1	1	21.05	21.11	21.11	22.0	0.0	
Channel				516000	519000	520000	Tune-up limit		
Frequency (MHz)				2580	2595	2610	(dBm)		
20	QPSK	1	1	21.04	21.09	21.01	22.0	0.0	
Channel				515502	519000	522498	Tune-up limit		
Frequency (MHz)				2577.51	2595	2612.49	(dBm)		
15	QPSK	1	1	21.07	21.10	21.10	22.0	0.0	
Channel				515004	519000	522996	Tune-up limit		
Frequency (MHz)				2575.02	2595	2614.98	(dBm)		
10	QPSK	1	1	21.08	21.08	21.07	22.0	0.0	

n41 Ant 0 ECI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518998	526000	22.0	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	21.15	21.24	21.17			
100	PI/2 BPSK	1	137	21.17	21.28	21.13	22.0	0.0	
100	PI/2 BPSK	1	271	21.10	21.19	21.24			
100	PI/2 BPSK	135	0	20.83	20.77	20.72			
100	PI/2 BPSK	135	69	21.12	21.22	21.12	22.0	0.5	
100	PI/2 BPSK	135	138	20.62	20.76	20.74			
100	PI/2 BPSK	270	0	20.65	20.71	20.65			
100	QPSK	1	1	21.16	21.26	21.22	22.0	0.5	
100	QPSK	1	137	21.15	21.27	21.14			
100	QPSK	1	271	21.17	21.26	21.21			
100	QPSK	135	0	20.16	20.24	20.23	21.0	1.0	
100	QPSK	135	69	21.18	21.25	21.20			
100	QPSK	135	138	20.16	20.22	20.21			
100	QPSK	270	0	20.22	20.29	20.25	21.0	1.0	
100	16QAM	1	1	19.68	19.74	19.71			
100	64QAM	1	1	18.21	18.27	18.24			
100	256QAM	1	1	16.87	16.91	16.88	19.5	4.5	
Channel				506002	518998	529998			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.15	21.23	21.17	22.0	MPR	
Channel				507204	518998	529998	Tune-up limit	(dB)	
Frequency (MHz)				2530.02	2592.99	2649.99	22.0	MPR	
80	QPSK	1	1	21.11	21.22	21.14	22.0	MPR	
Channel				506002	518998	531000	Tune-up limit	(dB)	
Frequency (MHz)				2531.01	2592.99	2665	22.0	MPR	
70	QPSK	1	1	21.17	21.21	21.20	22.0	MPR	
Channel				505200	518998	531998	Tune-up limit	(dB)	
Frequency (MHz)				2524	2592.99	2669.98	22.0	MPR	
60	QPSK	1	1	21.14	21.26	21.14	22.0	MPR	
Channel				504204	518998	532998	Tune-up limit	(dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	22.0	MPR	
50	QPSK	1	1	21.11	21.22	21.17	22.0	MPR	
Channel				503200	518998	533498	Tune-up limit	(dB)	
Frequency (MHz)				2518.5	2592.99	2667.48	22.0	MPR	
45	QPSK	1	1	21.13	21.24	21.19	22.0	MPR	
Channel				503202	518998	534000	Tune-up limit	(dB)	
Frequency (MHz)				2513.01	2592.99	2670	22.0	MPR	
40	QPSK	1	1	21.16	21.24	21.20	22.0	MPR	
Channel				502704	518998	534498	Tune-up limit	(dB)	
Frequency (MHz)				2513.52	2592.99	2672.49	22.0	MPR	
35	QPSK	1	1	21.12	21.20	21.15	22.0	MPR	
Channel				502200	518998	534998	Tune-up limit	(dB)	
Frequency (MHz)				2511	2592.99	2674.98	22.0	MPR	
30	QPSK	1	1	21.19	21.24	21.14	22.0	MPR	
Channel				501702	518998	535500	Tune-up limit	(dB)	
Frequency (MHz)				2508.51	2592.99	2677.5	22.0	MPR	
25	QPSK	1	1	21.11	21.21	21.13	22.0	MPR	
Channel				501204	518998	535998	Tune-up limit	(dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	22.0	MPR	
20	QPSK	1	1	21.15	21.21	21.22	22.0	MPR	
Channel				500700	518998	536498	Tune-up limit	(dB)	
Frequency (MHz)				2503.15	2592.99	2682.48	22.0	MPR	
15	QPSK	1	1	21.10	21.23	21.25	22.0	MPR	
Channel				500202	518998	537000	Tune-up limit	(dB)	
Frequency (MHz)				2501.01	2592.99	2685	22.0	MPR	
10	QPSK	1	1	21.08	21.28	21.19	22.0	0.0	

n38 Ant 1 ECI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996	24.0	0.0
Frequency (MHz)				2590.02	2595	2599.98		
40	PI2 BPSK	1	1	22.53	22.59	22.57	24.0	0.0
40	PI2 BPSK	1	53	22.49	22.54	22.58		
40	PI2 BPSK	1	104	22.46	22.54	22.52	23.5	0.5
40	PI2 BPSK	50	0	22.17	22.22	22.15		
40	PI2 BPSK	50	28	22.57	22.61	22.58	24.0	0.0
40	PI2 BPSK	50	56	22.07	22.20	22.18	23.5	0.5
40	PI2 BPSK	100	0	22.10	22.20	22.17		
40	QPSK	1	1	22.58	22.76	22.59	24.0	0.0
40	QPSK	1	53	22.53	22.57	22.56		
40	QPSK	1	104	22.49	22.55	22.52	23.0	1.0
40	QPSK	50	0	21.58	21.70	21.66		
40	QPSK	50	28	22.62	22.67	22.63	24.0	0.0
40	QPSK	50	56	21.65	21.67	21.59	23.0	1.0
40	QPSK	100	0	21.60	21.68	21.65		
40	16QAM	1	1	21.27	21.32	21.29	23.0	1.0
40	64QAM	1	1	19.81	19.89	19.88	21.5	2.5
40	256QAM	1	1	18.46	18.53	18.50	19.5	4.5
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	22.58	22.59	22.53	24.0	0.0
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2592.52	2595	2607.48		
25	QPSK	1	1	22.52	22.60	22.55	24.0	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	22.50	22.55	22.52	24.0	0.0
Channel				515502	519000	524998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	22.52	22.59	22.57	24.0	0.0
Channel				515004	519000	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	22.53	22.57	22.53	24.0	0.0

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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)	MPR (dB)
Channel				506002	518998	529000	24.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	22.54	22.78	22.55	24.0	0.0
100	PI/2 BPSK	1	137	22.51	22.74	22.48		
100	PI/2 BPSK	1	271	22.52	22.78	22.52	23.5	0.5
100	PI/2 BPSK	135	0	22.08	22.29	22.10		
100	PI/2 BPSK	135	69	22.51	22.80	22.46	24.0	0.0
100	PI/2 BPSK	135	138	22.06	22.34	22.06	23.5	0.5
100	PI/2 BPSK	270	0	22.15	22.35	22.02		
100	QPSK	1	1	22.58	22.85	22.58	24.0	0.0
100	QPSK	1	137	22.59	22.80	22.52		
100	QPSK	1	271	22.50	22.82	22.56	23.0	1.0
100	QPSK	135	0	21.61	21.82	21.54		
100	QPSK	135	69	22.60	22.84	22.54	24.0	0.0
100	QPSK	135	138	21.58	21.80	21.58	23.0	1.0
100	QPSK	270	0	21.68	21.87	21.57		
100	16QAM	1	1	21.33	21.41	21.35	23.0	1.0
100	64QAM	1	1	19.82	19.93	19.88	21.5	2.5
100	256QAM	1	1	18.50	18.59	18.51	19.5	4.5
Channel				505000	518998	526998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.59	22.78	22.59	24.0	0.0
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.02	2592.99	2649.99		
80	QPSK	1	1	22.57	22.77	22.56	24.0	0.0
Channel				506202	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.53	22.78	22.53	24.0	0.0
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2524	2592.99	2654.98		
60	QPSK	1	1	22.53	22.81	22.53	24.0	0.0
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.57	22.79	22.53	24.0	0.0
Channel				503700	518998	533498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.5	2592.99	2667.48		
45	QPSK	1	1	22.56	22.77	22.54	24.0	0.0
Channel				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2513.01	2592.99	2670		
40	QPSK	1	1	22.53	22.78	22.50	24.0	0.0
Channel				502704	518998	534498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2513.52	2592.99	2672.49		
35	QPSK	1	1	22.55	22.75	22.55	24.0	0.0
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.50	22.78	22.53	24.0	0.0
Channel				501702	518998	535500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.51	2592.99	2677.5		
25	QPSK	1	1	22.56	22.70	22.50	24.0	0.0
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.50	22.82	22.57	24.0	0.0
Channel				500700	518998	536498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	22.58	22.77	22.60	24.0	0.0
Channel				500202	518998	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	22.60	22.77	22.54	24.0	0.0

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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)	MPR (dB)	
Channel				516004	519000	519996	19.6	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	18.37	18.38	18.18	19.6	0.0	
40	PI/2 BPSK	1	53	18.42	18.39	18.23			
40	PI/2 BPSK	1	104	18.39	18.40	18.34	19.5	0.1	
40	PI/2 BPSK	50	0	18.24	18.32	18.16			
40	PI/2 BPSK	50	28	18.27	18.28	18.22	19.6	0.0	
40	PI/2 BPSK	50	56	18.19	18.41	18.22	19.5	0.1	
40	PI/2 BPSK	100	0	18.26	18.30	18.22	19.6	0.0	
40	QPSK	1	1	18.40	18.43	18.26			
40	QPSK	1	53	18.37	18.39	18.27	19.0	0.6	
40	QPSK	1	104	18.33	18.39	18.28			
40	QPSK	50	0	17.71	17.90	17.58	19.0	0.6	
40	QPSK	50	28	18.27	18.35	18.27	19.6	0.0	
40	QPSK	80	56	17.86	17.87	17.69	19.0	0.6	
40	QPSK	100	0	17.88	17.98	17.84	19.0	0.6	
40	16QAM	1	1	17.83	17.89	17.69			
40	64QAM	1	1	18.26	16.37	16.30	17.5	2.1	
40	256QAM	1	1	14.88	14.99	14.77	15.5	4.1	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99	19.6	0.0	
30	QPSK	1	1	18.40	18.40	18.18			
Channel				516504	519000	521498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.52	2595	2607.48	19.6	0.0	
25	QPSK	1	1	18.37	18.35	18.13	19.6	0.0	
Channel				516000	519000	520000			
Frequency (MHz)				2580	2595	2610	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	18.39	18.38	18.14	19.6	0.0	
Channel				515502	519000	524998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49	19.6	0.0	
15	QPSK	1	1	18.40	18.33	18.16	19.6	0.0	
Channel				515004	519000	529998			
Frequency (MHz)				2575.02	2595	2614.98	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	18.41	18.37	18.16	19.6	0.0	

n41 Ant 2 ECI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518998	520000	19.6	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	18.47	18.52	18.35	19.6	0.0	
100	PI/2 BPSK	1	137	18.50	18.55	18.39			
100	PI/2 BPSK	1	271	18.45	18.52	18.43	19.5	0.1	
100	PI/2 BPSK	135	0	18.40	18.47	18.33			
100	PI/2 BPSK	135	69	18.39	18.45	18.29	19.6	0.0	
100	PI/2 BPSK	135	138	18.36	18.49	18.37	19.5	0.1	
100	PI/2 BPSK	270	0	18.37	18.46	18.35	19.6	0.0	
100	QPSK	1	1	18.54	18.58	18.38			
100	QPSK	1	137	18.53	18.58	18.34	19.0	0.6	
100	QPSK	1	271	18.47	18.55	18.38			
100	QPSK	135	0	17.87	18.00	17.75	19.0	0.6	
100	QPSK	135	69	18.37	18.43	18.35	19.6	0.0	
100	QPSK	135	138	17.94	17.85	17.83	19.0	0.6	
100	QPSK	270	0	18.00	18.08	18.01			
100	16QAM	1	1	17.91	17.95	17.88	19.0	0.6	
100	64QAM	1	1	18.44	16.46	16.40	17.5	2.1	
100	256QAM	1	1	14.95	15.13	14.88	15.5	4.1	
Channel				506000	518998	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	19.6	0.0	
90	QPSK	1	1	18.54	18.51	18.29			
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99	19.6	0.0	
80	QPSK	1	1	18.45	18.48	18.31	19.6	0.0	
Channel				506002	518998	531000			
Frequency (MHz)				2531.01	2592.99	2685	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	18.44	18.48	18.38	19.6	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2674.98	19.6	0.0	
60	QPSK	1	1	18.44	18.52	18.34	19.6	0.0	
Channel				504204	518998	532998			
Frequency (MHz)				2521.02	2592.99	2664.99	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	18.53	18.47	18.28	19.6	0.0	
Channel				503700	518998	533498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2518.5	2592.99	2687.48	20.0	0.0	
45	QPSK	1	1	18.52	18.54	18.28	20.0	0.0	
Channel				503202	518998	534000			
Frequency (MHz)				2510.01	2592.99	2670	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	18.44	18.50	18.31	19.6	0.0	
Channel				502704	518998	534498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2513.52	2592.99	2672.49	20.0	0.0	
35	QPSK	1	1	18.54	18.56	18.32	20.0	0.0	
Channel				502200	518998	534998			
Frequency (MHz)				2511	2592.99	2674.98	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	18.43	18.58	18.33	19.6	0.0	
Channel				501702	518998	535500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2508.51	2592.99	2677.5	20.0	0.0	
25	QPSK	1	1	18.42	18.58	18.28	20.0	0.0	
Channel				501204	518998	535998			
Frequency (MHz)				2506.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	18.43	18.48	18.28	19.6	0.0	
Channel				500700	518998	536498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48	19.6	0.0	
15	QPSK	1	1	18.45	18.48	18.29	19.6	0.0	
Channel				500202	518998	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685	19.6	0.0	
10	QPSK	1	1	18.52	18.48	18.36	19.6	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 650000	Power Middle Ch./Freq. 650000	Power High Ch./Freq. 650000	Tune-up limit (dBm)	MPR (dB)
Channel				3750	3840	3930	18.5	0.0
Frequency (MHz)				17.47	17.48	17.19		
100	PI/2 BPSK	1	1	17.47	17.48	17.19	18.5	0.0
100	PI/2 BPSK	1	137	17.42	17.52	17.09		
100	PI/2 BPSK	1	271	17.37	17.53	17.08	18.5	0.0
100	PI/2 BPSK	135	0	17.42	17.49	17.38		
100	PI/2 BPSK	135	69	17.41	17.41	17.40	18.5	0.0
100	PI/2 BPSK	135	138	17.36	17.41	17.43		
100	PI/2 BPSK	270	0	17.43	17.43	17.37	18.5	0.0
100	QPSK	1	1	17.51	17.56	17.46		
100	QPSK	1	137	17.40	17.54	17.41	18.5	0.0
100	QPSK	1	271	17.48	17.54	17.42		
100	QPSK	135	0	17.40	17.46	17.44	18.5	0.0
100	QPSK	135	69	17.40	17.48	17.42		
100	QPSK	135	138	17.44	17.44	17.40	18.5	0.0
100	QPSK	270	0	17.44	17.46	17.45		
100	16QAM	1	1	17.15	17.27	17.28	18.5	0.0
100	64QAM	1	1	17.32	17.35	17.30		
100	256QAM	1	1	17.44	17.50	17.40	18.5	0.0
Channel				64998	65002	65034		
Frequency (MHz)				3745.02	3840	3935.01	18.5	0.0
90	QPSK	1	1	17.48	17.48	17.42		
Channel				649334	650000	652668	18.5	0.0
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	17.49	17.47	17.25	18.5	0.0
Channel				649000	650000	653000		
Frequency (MHz)				3735	3840	3945	18.5	0.0
70	QPSK	1	1	17.47	17.45	17.42		
Channel				648668	650000	653334	18.5	0.0
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	17.41	17.47	17.42	18.5	0.0
Channel				648334	650000	653668		
Frequency (MHz)				3725.01	3840	3955.02	18.5	0.0
50	QPSK	1	1	17.50	17.54	17.37		
Channel				648000	650000	654000	18.5	0.0
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	17.50	17.53	17.39	18.5	0.0
Channel				647668	650000	654334		
Frequency (MHz)				3715.02	3840	3955.01	18.5	0.0
30	QPSK	1	1	17.40	17.47	17.36		
Channel				647334	650000	654668	18.5	0.0
Frequency (MHz)				3710.01	3840	3950.02		
25	QPSK	1	1	17.49	17.54	17.40	18.5	0.0
Channel				647188	650000	654834		
Frequency (MHz)				3707.52	3840	3952.51	18.5	0.0
15	QPSK	1	1	17.43	17.48	17.43		
Channel				647000	650000	655000	18.5	0.0
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	17.49	17.50	17.43	18.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 650000	Power Middle Ch./Freq. 650000	Power High Ch./Freq. 650000	Tune-up limit (dBm)	MPR (dB)
Channel				3750	3760	3760	18.5	0.0
Frequency (MHz)				17.41	17.41	17.38		
100	PI/2 BPSK	1	1	17.41	17.41	17.38	18.5	0.0
100	PI/2 BPSK	1	137	17.35	17.35	17.35		
100	PI/2 BPSK	1	271	17.35	17.35	17.35	18.5	0.0
100	PI/2 BPSK	135	0	17.34	17.34	17.34		
100	PI/2 BPSK	135	69	17.44	17.44	17.44	18.5	0.0
100	PI/2 BPSK	135	138	17.37	17.37	17.37		
100	PI/2 BPSK	270	0	17.32	17.32	17.32	18.5	0.0
100	QPSK	1	1	17.46	17.46	17.46		
100	QPSK	1	137	17.39	17.39	17.39	18.5	0.0
100	QPSK	1	271	17.42	17.42	17.42		
100	QPSK	135	0	17.38	17.38	17.38	18.5	0.0
100	QPSK	135	69	17.40	17.40	17.40		
100	QPSK	135	138	17.35	17.35	17.35	18.5	0.0
100	QPSK	270	0	17.43	17.43	17.43		
100	16QAM	1	1	17.13	17.13	17.13	18.5	0.0
100	64QAM	1	1	17.17	17.17	17.17		
100	256QAM	1	1	17.44	17.44	17.44	18.5	0.0
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3760	3765.01	18.5	0.0
90	QPSK	1	1	17.30	17.44	17.32		
Channel				649334	650000	650668	18.5	0.0
Frequency (MHz)				3740.01	3760	3760.02		
80	QPSK	1	1	17.23	17.44	17.29	18.5	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3760	3765	18.5	0.0
70	QPSK	1	1	17.32	17.40	17.35		
Channel				648668	650000	651334	18.5	0.0
Frequency (MHz)				3730.02	3760	3770.01		
60	QPSK	1	1	17.31	17.42	17.35	18.5	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3760	3775.02	18.5	0.0
50	QPSK	1	1	17.33	17.35	17.33		
Channel				648000	650000	652000	18.5	0.0
Frequency (MHz)				3720	3760	3780		
40	QPSK	1	1	17.28	17.42	17.37	18.5	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3760	3765.01	18.5	0.0
30	QPSK	1	1	17.27	17.29	17.40		
Channel				647334	650000	652500	18.5	0.0
Frequency (MHz)				3712.5	3760	3767.5		
25	QPSK	1	1	17.39	17.43	17.35	18.5	0.0
Channel				647188	650000	652668		
Frequency (MHz)				3710.01	3760	3760.02	18.5	0.0
20	QPSK	1	1	17.29	17.42	17.38		
Channel				647188	650000	652834	18.5	0.0
Frequency (MHz)				3707.52	3760	3762.51		
15	QPSK	1	1	17.37	17.44	17.36	18.5	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3760	3795	18.5	0.0
10	QPSK	1	1	17.32	17.43	17.30		

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996	19.7	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	18.59	18.73	18.69	19.7	0.0	
40	PI/2 BPSK	1	53	18.49	18.60	18.65			
40	PI/2 BPSK	1	104	18.61	18.61	18.53	19.7	0.0	
40	PI/2 BPSK	50	0	18.53	18.66	18.65			
40	PI/2 BPSK	50	28	18.55	18.66	18.57	19.7	0.0	
40	PI/2 BPSK	50	56	18.70	18.74	18.58			
40	PI/2 BPSK	100	0	18.59	18.78	18.60	19.7	0.0	
40	QPSK	1	1	18.73	18.80	18.77			
40	QPSK	1	53	18.61	18.72	18.60	19.7	0.0	
40	QPSK	1	104	18.66	18.70	18.63			
40	QPSK	50	0	18.60	18.78	18.64	19.7	0.0	
40	QPSK	50	28	18.76	18.78	18.72			
40	QPSK	80	56	18.57	18.69	18.61	19.7	0.0	
40	QPSK	100	0	18.69	18.74	18.72			
40	16QAM	1	1	18.60	18.73	18.67	19.7	0.0	
40	64QAM	1	1	18.71	18.78	18.75			
40	256QAM	1	1	18.02	18.10	18.06	19.5	0.2	
Channel				517002	519000	520998	19.7	MPR	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	18.62	18.76	18.58	19.7	0.0	
Channel				516504	519000	521496			
Frequency (MHz)				2592.52	2595	2607.48	19.7	0.0	
25	QPSK	1	1	18.54	18.73	18.59			
Channel				516000	519000	522000	19.7	MPR	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	18.58	18.78	18.57	19.7	0.0	
Channel				515502	519000	524998			
Frequency (MHz)				2577.51	2595	2612.49	19.7	0.0	
15	QPSK	1	1	18.60	18.74	18.59			
Channel				515004	519000	525998	19.7	MPR	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	18.57	18.73	18.63	19.7	0.0	

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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)	MPR (dB)	
Channel				506002	518998	520000	19.7	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	18.68	18.76	18.65	19.7	0.0	
100	PI/2 BPSK	1	137	18.59	18.73	18.58			
100	PI/2 BPSK	1	271	18.72	18.72	18.55	19.7	0.0	
100	PI/2 BPSK	135	0	18.78	18.82	18.73			
100	PI/2 BPSK	135	69	18.73	18.79	18.70	19.7	0.0	
100	PI/2 BPSK	135	138	18.74	18.80	18.73			
100	PI/2 BPSK	270	0	18.79	18.86	18.78	19.7	0.0	
100	QPSK	1	1	18.78	18.88	18.81			
100	QPSK	1	137	18.71	18.78	18.77	19.7	0.0	
100	QPSK	1	271	18.88	18.76	18.84			
100	QPSK	135	0	18.73	18.75	18.69	19.7	0.0	
100	QPSK	135	69	18.75	18.80	18.77			
100	QPSK	135	138	18.74	18.79	18.76	19.7	0.0	
100	QPSK	270	0	18.76	18.82	18.78			
100	16QAM	1	1	18.76	18.71	18.74	19.7	0.0	
100	64QAM	1	1	18.77	18.84	18.81			
100	256QAM	1	1	18.20	18.24	18.22	19.5	0.2	
Channel				506000	518998	520998	19.7	MPR	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	18.78	18.78	18.80	19.7	0.0	
Channel				507204	518998	520998			
Frequency (MHz)				2538.02	2592.99	2649.99	19.7	0.0	
80	QPSK	1	1	18.67	18.84	18.69			
Channel				506002	518998	521000	19.7	MPR	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	18.78	18.76	18.76	19.7	0.0	
Channel				505200	518998	521998			
Frequency (MHz)				2524	2592.99	2659.98	19.7	0.0	
60	QPSK	1	1	18.69	18.86	18.75			
Channel				504204	518998	522998	19.7	MPR	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	18.67	18.80	18.73	19.7	0.0	
Channel				503200	518998	523998			
Frequency (MHz)				2518.5	2592.99	2667.48	19.7	0.0	
45	QPSK	1	1	18.71	18.86	18.70			
Channel				503202	518998	524000	19.7	MPR	
Frequency (MHz)				2510.01	2592.99	2670			
40	QPSK	1	1	18.71	18.84	18.74	19.7	0.0	
Channel				502704	518998	524498			
Frequency (MHz)				2513.52	2592.99	2672.49	19.7	0.0	
35	QPSK	1	1	18.69	18.84	18.79		24.0	
Channel				502200	518998	524998	19.7	MPR	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	18.69	18.82	18.71	19.7	0.0	
Channel				501702	518998	525998			
Frequency (MHz)				2508.51	2592.99	2677.5	19.7	0.0	
25	QPSK	1	1	18.77	18.87	18.80		24.0	
Channel				501204	518998	526998	19.7	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	18.68	18.76	18.72	19.7	0.0	
Channel				500700	518998	526498			
Frequency (MHz)				2503.5	2592.99	2682.48	19.7	0.0	
15	QPSK	1	1	18.75	18.82	18.70		19.7	
Channel				500202	518998	527000	19.7	MPR	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	18.74	18.82	18.81	19.7	0.0	

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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)	MPR (dB)
Channel				655000	655000	655000	19.3	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	18.37	18.33	18.31	19.3	0.0
100	PI/2 BPSK	1	137	18.26	18.37	18.30		
100	PI/2 BPSK	1	271	18.33	18.38	18.27		
100	PI/2 BPSK	135	0	18.39	18.40	18.36		
100	PI/2 BPSK	135	69	18.31	18.32	18.29	19.3	0.0
100	PI/2 BPSK	135	138	18.30	18.38	18.33	19.3	0.0
100	PI/2 BPSK	270	0	18.37	18.40	18.39	19.3	0.0
100	QPSK	1	1	18.37	18.40	18.35		
100	QPSK	1	137	18.32	18.32	18.30		
100	QPSK	1	271	18.31	18.34	18.31		
100	QPSK	135	0	18.29	18.35	18.33	19.3	0.0
100	QPSK	135	69	18.33	18.38	18.30	19.3	0.0
100	QPSK	135	138	18.29	18.30	18.26	19.3	0.0
100	QPSK	270	0	18.38	18.40	18.38	19.3	0.0
100	16QAM	1	1	18.31	18.34	18.24		
100	64QAM	1	1	18.34	18.37	18.33		
100	256QAM	1	1	17.93	17.91	17.89		
Channel				649968	650000	650334	19.3	0.0
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	18.30	18.37	18.30	19.3	0.0
Channel				649334	650000	652668	19.3	MPR
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	18.29	18.39	18.27	19.3	0.0
Channel				649000	650000	653000	19.3	MPR
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	18.25	18.37	18.33	19.3	0.0
Channel				648668	650000	653334	19.3	MPR
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	18.25	18.39	18.31	19.3	0.0
Channel				648334	650000	653668	19.3	MPR
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	18.31	18.30	18.26	19.3	0.0
Channel				648000	650000	654000	19.3	0.0
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	18.34	18.39	18.35	19.3	0.0
Channel				647668	650000	654334	19.3	MPR
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	18.25	18.32	18.25	19.3	0.0
Channel				647500	650000	654500	19.3	MPR
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	18.25	18.38	18.34	19.3	0.0
Channel				647334	650000	654668	19.3	MPR
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	18.29	18.38	18.31	19.3	0.0
Channel				647168	650000	654834	19.3	MPR
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	18.29	18.40	18.28	19.3	0.0
Channel				647000	650000	655000	19.3	MPR
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	18.32	18.34	18.29	19.3	0.0

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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)	MPR (dB)
Channel				650000	650000	650000	19.3	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		18.24		19.3	0.0
100	PI/2 BPSK	1	137		18.34			
100	PI/2 BPSK	1	271		18.23			
100	PI/2 BPSK	135	0		18.31			
100	PI/2 BPSK	135	69		18.29		19.3	0.0
100	PI/2 BPSK	135	138		18.34		19.3	0.0
100	PI/2 BPSK	270	0		18.30		19.3	0.0
100	QPSK	1	1		18.28			
100	QPSK	1	137		18.28			
100	QPSK	1	271		18.24			
100	QPSK	135	0		18.25		19.3	0.0
100	QPSK	135	69		18.34		19.3	0.0
100	QPSK	135	138		18.32		19.3	0.0
100	QPSK	270	0		18.31		19.3	0.0
100	16QAM	1	1		18.33			
100	64QAM	1	1		18.38			
100	256QAM	1	1		17.77			
Channel				649968	650000	650334	19.3	MPR
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	18.18	18.32	18.23	19.3	0.0
Channel				649334	650000	650668	19.3	MPR
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	18.14	18.32	18.23	19.3	0.0
Channel				649000	650000	651000	19.3	MPR
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	18.12	18.38	18.15	19.3	0.0
Channel				648668	650000	651334	19.3	MPR
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	18.12	18.38	18.21	19.3	0.0
Channel				648334	650000	651668	19.3	MPR
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	18.14	18.33	18.17	19.3	0.0
Channel				648000	650000	652000	19.3	0.0
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	18.15	18.29	18.18	19.3	0.0
Channel				647668	650000	652334	19.3	MPR
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	18.21	18.38	18.15	19.3	0.0
Channel				647500	650000	652500	19.3	MPR
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	18.21	18.29	18.22	19.3	0.0
Channel				647334	650000	652668	19.3	MPR
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	18.12	18.37	18.20	19.3	0.0
Channel				647168	650000	652834	19.3	MPR
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	18.11	18.38	18.19	19.3	0.0
Channel				647000	650000	653000	19.3	MPR
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	18.13	18.33	18.15	19.3	0.0

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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)	MPR (dB)
Channel				65000	65000	65000	18.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	16.53	16.40	16.55	18.0	0.0
100	PI/2 BPSK	1	137	16.46	16.47	16.46		
100	PI/2 BPSK	1	271	16.56	16.59	16.54		
100	PI/2 BPSK	135	0	16.61	16.64	16.56		
100	PI/2 BPSK	135	69	16.36	16.45	16.49	18.0	0.0
100	PI/2 BPSK	135	138	16.63	16.62	16.61	18.0	0.0
100	PI/2 BPSK	270	0	16.63	16.60	16.51	18.0	0.0
100	QPSK	1	1	16.61	16.75	16.60		
100	QPSK	1	137	16.57	16.41	16.49		
100	QPSK	1	271	16.64	16.47	16.59		
100	QPSK	135	0	16.47	16.59	16.51	18.0	0.0
100	QPSK	135	69	16.43	16.64	16.56	18.0	0.0
100	QPSK	135	138	16.54	16.63	16.46	18.0	0.0
100	QPSK	270	0	16.64	16.70	16.53	18.0	0.0
100	16QAM	1	1	16.49	16.61	16.41	18.0	0.0
100	64QAM	1	1	16.66	16.69	16.53	18.0	0.0
100	256QAM	1	1	16.60	16.54	16.60	18.0	0.0
Channel				64968	65000	65034	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	16.57	16.65	16.51	18.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	16.57	16.65	16.59	18.0	0.0
Channel				649000	650000	650300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	16.56	16.73	16.48	18.0	0.0
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	16.56	16.65	16.59	18.0	0.0
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	16.52	16.74	16.52	18.0	0.0
Channel				648000	650000	650300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	16.59	16.69	16.51	18.0	0.0
Channel				647668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	16.61	16.64	16.53	18.0	0.0
Channel				647300	650000	650500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	16.53	16.68	16.52	18.0	0.0
Channel				647334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	16.53	16.74	16.52	18.0	0.0
Channel				647168	650000	650834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	16.51	16.72	16.49	18.0	0.0
Channel				647000	650000	650300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	16.53	16.69	16.49	18.0	0.0

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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)	MPR (dB)
Channel				65000	65000	65000	18.0	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		16.43		18.0	0.0
100	PI/2 BPSK	1	137		16.50			
100	PI/2 BPSK	1	271		16.57			
100	PI/2 BPSK	135	0		16.54			
100	PI/2 BPSK	135	69		16.48		18.0	0.0
100	PI/2 BPSK	135	138		16.58		18.0	0.0
100	PI/2 BPSK	270	0		16.47		18.0	0.0
100	QPSK	1	1		16.61			
100	QPSK	1	137		16.44			
100	QPSK	1	271		16.45			
100	QPSK	135	0		16.59		18.0	0.0
100	QPSK	135	69		16.44		18.0	0.0
100	QPSK	135	138		16.44		18.0	0.0
100	QPSK	270	0		16.50		18.0	0.0
100	16QAM	1	1		16.45		18.0	0.0
100	64QAM	1	1		16.50		18.0	0.0
100	256QAM	1	1		16.51		18.0	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	16.36	16.48	16.39	18.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	16.35	16.37	16.44	18.0	0.0
Channel				649000	650000	650300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	16.40	16.42	16.45	18.0	0.0
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	16.32	16.39	16.40	18.0	0.0
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	16.36	16.45	16.45	18.0	0.0
Channel				648000	650000	650300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	16.38	16.48	16.40	18.0	0.0
Channel				647668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	16.34	16.47	16.45	18.0	0.0
Channel				647300	650000	650500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	16.35	16.43	16.35	18.0	0.0
Channel				647334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	16.32	16.41	16.40	18.0	0.0
Channel				647168	650000	650834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	16.37	16.40	16.45	18.0	0.0
Channel				647000	650000	650300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	16.36	16.40	16.43	18.0	0.0



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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)	MPR (dB)		
Channel										
Frequency (MHz)										
				65000	65600	66000				
				3750	3840	3930				
100	P12 BPSK	1	1	22.72	22.99	22.75	24.0	0.0		
100	P12 BPSK	1	137	22.69	23.02	22.57				
100	P12 BPSK	1	271	22.60	22.99	22.60				
100	P12 BPSK	135	0	22.72	22.72	22.69				
100	P12 BPSK	135	69	22.70	22.80	22.72	24.0	0.0		
100	P12 BPSK	135	138	22.66	22.75	22.73	24.0	0.0		
100	P12 BPSK	270	0	22.71	22.76	22.74	24.0	0.0		
100	QPSK	1	1	22.71	23.06	22.73				
100	QPSK	1	137	22.72	23.05	22.65				
100	QPSK	1	271	22.63	22.98	22.67				
100	QPSK	135	0	22.70	22.79	22.78	24.0	0.0		
100	QPSK	135	69	22.78	22.81	22.80	24.0	0.0		
100	QPSK	135	138	22.73	22.76	22.75	24.0	0.0		
100	QPSK	270	0	22.74	22.77	22.72	24.0	0.0		
100	16QAM	1	1	22.78	22.82	22.80				
100	16QAM	1	1	22.81	22.85	22.83				
100	256QAM	1	1	21.96	22.03	22.01				
Channel										
Frequency (MHz)										
90	QPSK	1	1	22.65	23.04	22.71	24.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	22.65	23.04	22.69	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
70	QPSK	1	1	64500	65000	65300	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
60	QPSK	1	1	3735	3840	3945	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
50	QPSK	1	1	22.65	23.05	22.72	24.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	64560	65000	65430	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
30	QPSK	1	1	3720	3840	3960	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
25	QPSK	1	1	64768	65000	65434	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	1	37152	3840	39510	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	1	64750	65000	65450	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	1	3712.5	3840	3967.5	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
5	QPSK	1	1	3726.3	3840	3972.3	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
2	QPSK	1	1	64753.4	65000	65468	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
1	QPSK	1	1	3710.1	3840	3970.2	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
0.5	QPSK	1	1	64716.8	65000	65483.4	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
0.25	QPSK	1	1	3707.52	3840	3972.51	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
0.125	QPSK	1	1	64716.8	65000	65483.4	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
0.0625	QPSK	1	1	3705	3840	3975	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
0.03125	QPSK	1	1	3705	3840	3975	Tune-up limit (dBm)	MPR (dB)		

Part270 n77 HPUE Ant 9 ECI2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				67500	66500	66000		
100	P12 BPSK	1	1	25.84	25.99	25.75	27.0	0.0
100	P12 BPSK	1	137	25.81	25.83	25.75		
100	P12 BPSK	1	271	25.79	25.82	25.70		
100	P12 BPSK	135	0	25.33	25.41	25.28		
100	P12 BPSK	135	69	25.82	25.85	25.83	27.0	0.0
100	P12 BPSK	135	138	25.29	25.39	25.34	26.5	0.5
100	P12 BPSK	270	0	25.31	25.36	25.31	27.0	0.0
100	QPSK	1	1	25.87	26.04	25.83		
100	QPSK	1	137	25.80	25.85	25.73		
100	QPSK	1	271	25.78	25.84	25.78		
100	QPSK	135	0	24.80	24.82	24.83	26.0	1.0
100	QPSK	135	69	25.83	25.86	25.81	27.0	0.0
100	QPSK	135	138	24.84	24.98	24.79	26.0	1.0
100	QPSK	270	0	24.78	24.83	24.76	26.0	1.0
100	16QAM	1	1	24.77	24.81	24.79		
100	64QAM	1	1	23.34	23.42	23.38		
100	256QAM	1	1	21.61	21.66	21.64		
Channel								
Frequency (MHz)								
				67450	66450	66050		
90	QPSK	1	1	25.85	25.93	25.79	27.0	0.0
Channel								
Frequency (MHz)								
				67433.1	66500	66266	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	25.84	25.98	25.70	27.0	0.0
Channel								
Frequency (MHz)								
				66900	65900	66300	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	3735	3840	3945	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				66666	65999	65734	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	3700.02	3840	3950.01	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				66834	66600	66366	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	3726.01	3840	3955.02	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				66500	65900	65400	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	3720	3840	3960	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				66768	65600	66434	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	3715.02	3840	3955.01	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				66750	65900	66450	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	3712.5	3840	3967.5	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				66725	65600	66475	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	3710.01	3840	3970.02	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				66716	65600	664834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	3707.52	3840	3972.51	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				66700	65600	66500	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	3705	3840	3975	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				66703	26.02	25.80	27.0	0.0

Part270 n78 Ant 9 ECI2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
				650000	3750	650000		
					3750	3750		
100	P12 BPSK	1	1		22.86		24.0	0.0
100	P12 BPSK	1	137		22.77			
100	P12 BPSK	1	271		22.80			
100	P12 BPSK	135	0		22.67			
100	P12 BPSK	135	69		22.66		24.0	0.0
100	P12 BPSK	135	138		22.67		24.0	0.0
100	P12 BPSK	270	0		22.71		24.0	0.0
100	QPSK	1	1		22.86			
100	QPSK	1	137		22.76			
100	QPSK	1	271		22.84			
100	QPSK	135	0		22.68		24.0	0.0
100	QPSK	135	69		22.73		24.0	0.0
100	QPSK	135	138		22.67		24.0	0.0
100	QPSK	270	0		22.71		24.0	0.0
100	16QAM	1	1		22.43		24.0	0.0
100	64QAM	1	1		22.50		24.0	0.0
100	256QAM	1	1		21.62		23.0	0.0
Channel								
Frequency (MHz)								
				649968	3750	650334		
90	QPSK	1	1	22.81	22.87	22.83	24.0	0.0
Channel								
Frequency (MHz)								
				649334	650000	650666	Tune-up limit	MPR
				649334	3750	3760.02	(dBm)	(dB)
80	QPSK	1	1	22.82	22.84	22.82	24.0	0.0
Channel								
Frequency (MHz)								
				649000	650000	651000	Tune-up limit	MPR
				3735	3750	3765	(dBm)	(dB)
70	QPSK	1	1	22.75	22.79	22.85	24.0	0.0
Channel								
Frequency (MHz)								
				648576	650000	651499	Tune-up limit	MPR
				3730.69	3750	3760.31	(dBm)	(dB)
60	QPSK	1	1	22.73	22.81	22.74	24.0	0.0
Channel								
Frequency (MHz)								
				648334	650000	651666	Tune-up limit	MPR
				3725.01	3750	3775.02	(dBm)	(dB)
50	QPSK	1	1	22.73	22.83	22.75	24.0	0.0
Channel								
Frequency (MHz)								
				648000	650000	652000	Tune-up limit	MPR
				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	1	22.82	22.85	22.75	24.0	0.0
Channel								
Frequency (MHz)								
				647668	650000	652334	Tune-up limit	MPR
				3715.02	3750	3765.01	(dBm)	(dB)
30	QPSK	1	1	22.79	22.85	22.85	24.0	0.0
Channel								
Frequency (MHz)								
				647500	650000	652500	Tune-up limit	MPR
				3712.55	3750	3787.5	(dBm)	(dB)
25	QPSK	1	1	22.82	22.82	22.76	24.0	0.0
Channel								
Frequency (MHz)								
				647334	650000	652666	Tune-up limit	MPR
				3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	1	22.76	22.83	22.78	24.0	0.0
Channel								
Frequency (MHz)								
				647168	650000	652834	Tune-up limit	MPR
				3707.52	3750	3792.51	(dBm)	(dB)
15	QPSK	1	1	22.75	22.82	22.76	24.0	0.0
Channel								
Frequency (MHz)								
				647000	650000	653000	Tune-up limit	MPR
				3705	3750	3795	(dBm)	(dB)
10	QPSK	1	1	22.80	22.83	22.84	24.0	0.0

Part270 n78 HPUE Ant 9 EC12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq 650000	Power Middle Ch / Freq 650000	Power High Ch / Freq 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		25.83				
100	PI/2 BPSK	1	137		25.80		27.0	0.0	
100	PI/2 BPSK	1	271		25.78				
100	PI/2 BPSK	135	0		25.29		28.5	0.5	
100	PI/2 BPSK	135	69		25.81		27.0	0.0	
100	PI/2 BPSK	135	138		25.35		28.5	0.5	
100	PI/2 BPSK	270	0		25.38				
100	QPSK	1	1		25.80				
100	QPSK	1	137		25.88		27.0	0.0	
100	QPSK	1	271		25.86				
100	QPSK	135	0		24.81		28.0	1.0	
100	QPSK	135	69		25.83		27.0	0.0	
100	QPSK	135	138		24.78		28.0	1.0	
100	QPSK	270	0		24.80				
100	16QAM	1	1		24.76		28.0	1.0	
100	64QAM	1	1		23.25		24.5	2.5	
100	256QAM	1	1		21.58		22.5	4.5	
Channel				649668	650000	650334			
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	25.84	25.88	25.86	27.0	0.0	
Channel				649334	650000	650668			
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	25.87	25.82	25.87	27.0	0.0	
Channel				649000	650000	651000			
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	25.81	25.88	25.85	27.0	0.0	
Channel				648668	650000	651334			
Frequency (MHz)				3730.02	3750	3730.02			
60	QPSK	1	1	25.86	25.81	25.81	27.0	0.0	
Channel				648334	650000	651668			
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	25.78	25.79	25.80	27.0	0.0	
Channel				648000	650000	652000			
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	25.83	25.86	25.80	27.0	0.0	
Channel				647668	650000	652334			
Frequency (MHz)				3715.02	3750	3765.01			
30	QPSK	1	1	25.79	25.88	25.80	27.0	0.0	
Channel				647500	650000	652500			
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	25.85	25.81	25.80	27.0	0.0	
Channel				647334	650000	652668			
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	25.81	25.84	25.83	27.0	0.0	
Channel				647168	650000	652834			
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	25.83	25.85	25.82	27.0	0.0	
Channel				647000	650000	653000			
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	25.83	25.86	25.83	27.0	0.0	



Reduced Power Mode for ECI 3

n5 Ant 0 EC13									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 166800	Power Middle Ch. / Freq. 167300	Power High Ch. / Freq. 167800	Tune-up limit (dBm)	MPR (dB)	
Channel				834	838.5	839	24.0	0.0	
Frequency (MHz)									
20	PI/2 BPSK	1	1	22.50	22.64	22.55	24.0	0.0	
20	PI/2 BPSK	1	53	22.55	22.59	22.56			
20	PI/2 BPSK	1	104	22.53	22.64	22.50			
20	PI/2 BPSK	50	0	22.04	22.13	22.00	23.5	0.5	
20	PI/2 BPSK	50	28	22.46	22.57	22.54	24.0	0.0	
20	PI/2 BPSK	50	56	22.01	22.14	22.03	23.5	0.5	
20	PI/2 BPSK	100	0	22.07	22.19	22.06	24.0	0.0	
20	QPSK	1	1	22.63	22.65	22.61			
20	QPSK	1	53	22.50	22.61	22.59			
20	QPSK	1	104	22.62	22.64	22.58	23.0	1.0	
20	QPSK	50	0	21.53	21.57	21.47			
20	QPSK	50	28	22.54	22.57	22.48			
20	QPSK	50	56	21.50	21.56	21.52	23.0	1.0	
20	QPSK	100	0	21.50	21.59	21.57			
20	16QAM	1	1	21.21	21.33	21.20	23.0	1.0	
20	64QAM	1	1	19.77	19.87	19.77	21.5	2.5	
20	256QAM	1	1	18.41	18.47	18.44	19.5	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	838.5	841.5			
15	QPSK	1	1	22.56	22.62	22.49	24.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831	836.5	844			
10	QPSK	1	1	22.53	22.63	22.61	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	835.5	845.5			
5	QPSK	1	1	22.56	22.62	22.55	24.0	0.0	

n26 Ant 0 ECI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 164800	Power Middle Ch. / Freq. 166300	Power High Ch. / Freq. 167800	Tune-up limit (dBm)	MPR (dB)	
Channel				834	831.5	839	24.0	0.0	
Frequency (MHz)									
20	PI/2 BPSK	1	1	22.90	22.91	22.89	24.0	0.0	
20	PI/2 BPSK	1	53	22.87	22.88	22.84			
20	PI/2 BPSK	1	104	22.81	22.89	22.82			
20	PI/2 BPSK	50	0	22.45	22.47	22.40	23.5	0.5	
20	PI/2 BPSK	50	28	22.86	22.88	22.84	24.0	0.0	
20	PI/2 BPSK	50	56	22.42	22.46	22.43	23.5	0.5	
20	PI/2 BPSK	100	0	22.44	22.48	22.47	24.0	0.0	
20	QPSK	1	1	22.94	22.95	22.93			
20	QPSK	1	53	22.87	22.94	22.88			
20	QPSK	1	104	22.89	22.91	22.86	23.0	1.0	
20	QPSK	50	0	21.98	21.92	21.84			
20	QPSK	50	28	22.86	22.89	22.84			
20	QPSK	50	56	21.90	21.86	21.91	23.0	1.0	
20	QPSK	100	0	21.88	21.93	21.90			
20	16QAM	1	1	21.68	21.70	21.67	23.0	1.0	
20	64QAM	1	1	20.26	20.28	20.24	21.5	2.5	
20	256QAM	1	1	18.84	18.89	18.82	19.5	4.5	
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	22.92	22.95	22.86	24.0	0.0	
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				833	831.5	834			
10	QPSK	1	1	22.93	22.94	22.87	24.0	0.0	
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	22.91	22.94	22.88	24.0	0.0	



n2 Ant 1 ECI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				374500	376000	379000			
Frequency (MHz)				1870	1880	1890			
40	PI2 BPSK	1	1	21.88	22.19	21.99	23.3	0.0	
40	PI2 BPSK	1	108	22.04	22.10	21.96			
40	PI2 BPSK	1	214	21.99	22.04	22.05			
40	PI2 BPSK	1	1	21.66	21.71	21.70	23.3	0.0	
40	PI2 BPSK	108	54	22.23	22.30	22.23	23.3	0.0	
40	PI2 BPSK	108	108	22.22	22.26	22.18	23.3	0.0	
40	PI2 BPSK	216	0	22.24	22.28	22.21	23.3	0.0	
40	QPSK	1	1	22.20	22.31	22.24			
40	QPSK	1	108	22.07	22.13	21.98			
40	QPSK	1	214	21.97	22.18	21.95	23.3	0.0	
40	QPSK	108	0	21.77	21.79	21.74	23.0	0.3	
40	QPSK	108	54	22.25	22.30	22.26	23.0	0.3	
40	QPSK	108	108	21.73	21.76	21.71	23.0	0.3	
40	QPSK	216	0	21.75	21.80	21.76	23.0	0.3	
40	16QAM	1	1	21.38	21.43	21.41			
40	64QAM	1	1	19.94	19.98	19.96			
40	256QAM	1	1	18.52	18.60	18.58	19.5	3.8	
Channel				372500	376000	378500	Tune-up limit (dbm)	MPR (db)	
35	QPSK	1	1	22.16	22.28	22.21	23.3	0.0	
Channel				373000	376000	379000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				1895	1900	1905			
30	QPSK	1	1	22.08	22.26	22.20	23.3	0.0	
Channel				372500	376000	379500	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				1862.5	1880	1897.5			
25	QPSK	1	1	22.13	22.28	22.18	23.3	0.0	
Channel				372000	376000	380000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				1860	1880	1900			
20	QPSK	1	1	22.11	22.22	22.13	23.3	0.0	
Channel				371500	376000	380500	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	22.11	22.20	22.21	23.3	0.0	
Channel				371000	376000	381000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	22.14	22.23	22.16	23.3	0.0	
Channel				370500	376000	381500	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	22.19	22.20	22.18	23.3	0.0	

n7 Ant 1 ECI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PI2 BPSK	1	1	21.41	21.55	21.38	22.6	0.0	
50	PI2 BPSK	1	135	21.33	21.31	21.38			
50	PI2 BPSK	1	268	21.35	21.36	21.39			
50	PI2 BPSK	135	0	21.50	21.59	21.56	22.6	0.0	
50	PI2 BPSK	135	68	21.50	21.56	21.49	22.6	0.0	
50	PI2 BPSK	135	135	21.46	21.57	21.56	22.6	0.0	
50	PI2 BPSK	270	0	21.50	21.54	21.52	22.6	0.0	
50	QPSK	1	1	21.61	21.66	21.66			
50	QPSK	1	135	21.41	21.43	21.37			
50	QPSK	1	268	21.39	21.41	21.40	22.6	0.0	
50	QPSK	135	0	21.45	21.54	21.50			
50	QPSK	135	68	21.55	21.62	21.54			
50	QPSK	135	135	21.44	21.52	21.47	22.6	0.0	
50	QPSK	270	0	21.60	21.65	21.63	22.6	0.0	
50	16QAM	1	1	21.08	21.14	21.11			
50	64QAM	1	1	19.70	19.75	19.74			
50	256QAM	1	1	18.28	18.35	18.30	21.5	3.1	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550	22.6	0.0	
40	QPSK	1	1	21.55	21.64	21.48	22.6	0.0	
Channel				503000	507000	510500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2517.5	2535	2552.5	22.6	0.0	
35	QPSK	1	1	21.56	21.62	21.45	22.6	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	22.6	0.0	
30	QPSK	1	1	21.52	21.58	21.54	22.6	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	22.6	0.0	
25	QPSK	1	1	21.58	21.59	21.49	22.6	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	22.6	0.0	
20	PI2 BPSK	1	1	21.51	21.55	21.54	22.6	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	22.6	0.0	
15	QPSK	1	1	21.59	21.65	21.48	22.6	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	22.6	0.0	
10	QPSK	1	1	21.58	21.56	21.51	22.6	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	22.6	0.0	
5	QPSK	1	1	21.60	21.61	21.52	22.6	0.0	

n66 Ant 1 EC13									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				345500	348000	351500			
Frequency (MHz)				1732.5	1745	1757.5			
45	PI2 BPSK	1	1	21.61	21.72	21.68	22.9	0.0	
45	PI2 BPSK	1	120	21.57	21.67	21.55			
45	PI2 BPSK	1	240	21.49	21.70	21.70			
45	PI2 BPSK	120	0	21.69	21.84	21.78	22.9	0.0	
45	PI2 BPSK	120	60	21.69	21.76	21.73	22.9	0.0	
45	PI2 BPSK	120	120	21.74	21.81	21.80	22.9	0.0	
45	PI2 BPSK	240	0	21.71	21.80	21.77	22.9	0.0	
45	QPSK	1	1	21.75	21.86	21.78			
45	QPSK	1	120	21.63	21.69	21.61			
45	QPSK	1	240	21.62	21.72	21.63	22.9	0.0	
45	QPSK	120	0	21.69	21.82	21.80			
45	QPSK	120	60	21.80	21.86	21.75			
45	QPSK	120	120	21.80	21.81	21.73	22.9	0.0	
45	QPSK	240	0	21.80	21.85	21.82	22.9	0.0	
45	16QAM	1	1	21.44	21.50	21.48			
45	64QAM	1	1	19.98	20.03	20.00			
45	256QAM	1	1	18.59	18.65	18.62	19.5	3.4	
Channel				345000	348000	352000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	21.64	21.78	21.68	22.9	0.0	
Channel				345500	348000	352500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1727.5 <th>1745</th> <th>1762.5</th> <th colspan="3"></th>	1745	1762.5			
35	QPSK	1	1	21.73	21.86	21.69	22.9	0.0	
Channel				345000	348000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725 <th>1745</th> <th>1765</th> <th colspan="3"></th>	1745	1765			
30	QPSK	1	1	21.64	21.86	21.76	22.9	0.0	
Channel				344500	348000	353500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5 <th>1745</th> <th>1767.5</th> <th colspan="3"></th>	1745	1767.5			
25	QPSK	1	1	21.71	21.79	21.76	22.9	0.0	
Channel				344000	348000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720 <th>1745</th> <th>1770</th> <th colspan="3"></th>	1745	1770			
20	QPSK	1	1	21.68	21.79	21.74	22.9	0.0	
Channel				343500	348000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5 <th>1745</th> <th>1772.5</th> <th colspan="3"></th>	1745	1772.5			
15	QPSK	1	1	21.73	21.79	21.76	22.9	0.0	
Channel				343000	348000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715 <th>1745</th> <th>1775</th> <th colspan="3"></th>	1745	1775			
10	QPSK	1	1	21.68	21.86	21.73	22.9	0.0	
Channel				342500	348000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5 <th>1745</th> <th>1777.5</th> <th colspan="3"></th>	1745	1777.5			
5	QPSK	1	1	21.68	21.80	21.74	22.9	0.0	



n2 Ant 4 ECI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				374000	376000	378000			
Frequency (MHz)				1870	1880	1890			
40	P12 BPSK	1	1	18.11	18.12	18.09	19.1	0.0	
40	P12 BPSK	1	108	18.12	18.12	18.06			
40	P12 BPSK	1	214	18.06	18.12	18.08			
40	P12 BPSK	108	0	18.18	18.16	18.15	19.1	0.0	
40	P12 BPSK	108	54	18.06	18.14	18.11	19.1	0.0	
40	P12 BPSK	108	108	18.21	18.15	18.15	19.1	0.0	
40	P12 BPSK	216	0	18.16	18.18	18.19	19.1	0.0	
40	QPSK	1	1	18.16	18.22	18.16			
40	QPSK	1	108	18.14	18.10	18.10			
40	QPSK	1	214	18.10	18.12	18.15	19.1	0.0	
40	QPSK	108	0	18.15	18.17	18.16			
40	QPSK	108	54	18.15	18.20	18.18			
40	QPSK	108	108	18.09	18.13	18.13	19.1	0.0	
40	QPSK	216	0	18.14	18.18	18.14	19.1	0.0	
40	16QAM	1	1	18.13	18.08	18.14			
40	64QAM	1	1	18.16	18.19	18.12		0.0	
40	256QAM	1	1	17.87	18.03	17.89	19.1	0.0	
Channel				372000	374000	376000			
Frequency (MHz)				1867.5	1880	1892.5			
35	QPSK	1	1	18.18	18.15	18.17	24.0	0.0	
Channel				373000	376000	379000			
Frequency (MHz)				1905	1910	1905			
30	QPSK	1	1	18.10	18.14	18.10	24.0	0.0	
Channel				372500	376000	379500			
Frequency (MHz)				1862.5	1880	1897.5			
25	QPSK	1	1	18.17	18.20	18.11	24.0	0.0	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	QPSK	1	1	18.12	18.20	18.08	24.0	0.0	
Channel				371500	376000	380500			
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	18.13	18.10	18.19	19.1	0.0	
Channel				371000	376000	381000			
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	18.19	18.15	18.09	19.1	0.0	
Channel				370500	376000	381500			
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	18.14	18.15	18.15	19.1	0.0	

n5 Ant 4 ECI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167000	167800			
Frequency (MHz)				834	836.5	839			
20	P12 BPSK	1	1	22.63	22.67	22.61	24.0	0.0	
20	P12 BPSK	1	53	22.58	22.65	22.60			
20	P12 BPSK	1	104	22.58	22.63	22.57			
20	P12 BPSK	50	0	21.94	22.08	22.02	23.5	0.5	
20	P12 BPSK	50	28	22.38	22.49	22.44	24.0	0.0	
20	P12 BPSK	50	56	21.99	22.09	21.95	23.5	0.5	
20	P12 BPSK	100	0	22.08	22.10	22.06	24.0	0.0	
20	QPSK	1	1	22.64	22.68	22.62			
20	QPSK	1	53	22.64	22.66	22.60			
20	QPSK	1	104	22.64	22.67	22.60	23.0	1.0	
20	QPSK	50	0	21.42	21.56	21.47			
20	QPSK	50	28	22.45	22.55	22.53			
20	QPSK	50	56	21.40	21.53	21.48	23.0	1.0	
20	QPSK	100	0	21.52	21.59	21.52	23.0	1.0	
20	16QAM	1	1	21.33	21.43	21.35			
20	64QAM	1	1	19.93	19.96	19.91		2.5	
20	256QAM	1	1	18.54	18.61	18.59	19.5	4.5	
Channel				165300	167000	168500			
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	22.57	22.64	22.58	24.0	0.0	
Channel				166800	167300	168800			
Frequency (MHz)				820	836.5	844			
10	QPSK	1	1	22.65	22.68	22.61	24.0	0.0	
Channel				165300	167300	169300			
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	22.62	22.63	22.59	24.0	0.0	

n7 Ant 4 ECI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	P12 BPSK	1	1	17.77	17.95	17.85	18.9	0.0	
50	P12 BPSK	1	135	17.85	17.85	17.76			
50	P12 BPSK	1	268	17.71	17.85	17.81			
50	P12 BPSK	135	0	17.89	17.92	17.89	18.9	0.0	
50	P12 BPSK	135	68	17.82	17.98	17.89	18.9	0.0	
50	P12 BPSK	135	135	17.89	17.91	17.84	18.9	0.0	
50	P12 BPSK	270	0	17.90	17.99	17.88	18.9	0.0	
50	QPSK	1	1	17.94	18.00	17.96			
50	QPSK	1	135	17.87	17.96	17.84			
50	QPSK	1	268	17.75	17.96	17.81	18.9	0.0	
50	QPSK	135	0	17.87	17.88	17.85			
50	QPSK	135	68	17.83	17.94	17.85			
50	QPSK	135	135	17.92	17.93	17.87	18.9	0.0	
50	QPSK	270	0	17.92	17.98	17.94	18.9	0.0	
50	16QAM	1	1	17.54	17.65	17.57			
50	64QAM	1	1	17.61	17.71	17.70		18.9	
50	256QAM	1	1	17.70	17.79	17.72	18.5	0.4	
Channel				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	QPSK	1	1	17.88	17.96	17.88	18.9	0.0	
Channel				503500	507000	510500			
Frequency (MHz)				2517.5	2535	2552.5			
35	QPSK	1	1	17.88	17.90	17.80	18.9	0.0	
Channel				503000	507000	511000			
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	17.83	17.96	17.83	18.9	0.0	
Channel				502500	507000	511500			
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	17.83	17.96	17.79	18.9	0.0	
Channel				502000	507000	512000			
Frequency (MHz)				2510	2535	2560			
20	P12 BPSK	1	1	17.85	17.97	17.85	18.9	0.0	
Channel				501500	507000	512500			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	17.87	17.92	17.88	18.9	0.0	
Channel				501000	507000	513000			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	17.84	17.94	17.80	18.9	0.0	
Channel				500500	507000	513500			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	17.86	17.90	17.78	18.9	0.0	

n26 Ant 4 ECI3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				168300	168300	167600	24.0	0.0
Frequency (MHz)				824	831.5	839		
20	PI2 BPSK	1	1	22.78	22.84	22.79		
20	PI2 BPSK	1	53	22.73	22.81	22.83	23.5	0.5
20	PI2 BPSK	1	104	22.77	22.94	22.77		
20	PI2 BPSK	50	0	22.06	22.25	22.19		
20	PI2 BPSK	50	28	22.62	22.71	22.67	24.0	0.0
20	PI2 BPSK	50	58	22.16	22.26	22.22		
20	PI2 BPSK	100	0	22.05	22.21	22.19		
20	QPSK	1	1	22.78	22.85	22.81	24.0	0.0
20	QPSK	1	53	22.81	22.84	22.81		
20	QPSK	1	104	22.78	22.82	22.80		
20	QPSK	50	0	21.82	21.68	21.63	24.0	0.0
20	QPSK	50	28	22.81	22.70	22.66		
20	QPSK	50	58	21.80	21.74	21.68		
20	QPSK	100	0	21.72	21.75	21.74	23.0	1.0
20	16QAM	1	1	21.48	21.53	21.49		
20	64QAM	1	1	20.04	20.10	20.07		
20	256QAM	1	1	18.61	18.70	18.65	19.5	4.5
Channel				168300	168300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5	24.0	0.0
15	QPSK	1	1	22.75	22.80	22.79	24.0	0.0
Channel				163800	166300	166800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				812	831.5	844	24.0	0.0
10	QPSK	1	1	22.74	22.70	22.78	24.0	0.0
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5	24.0	0.0
5	QPSK	1	1	22.70	22.80	22.75	24.0	0.0

n66 Ant 4 ECI3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				345500	349000	351500	19.0	0.0
Frequency (MHz)				1732.5	1745	1757.5		
45	PI2 BPSK	1	1	17.93	18.05	17.90		
45	PI2 BPSK	1	120	17.98	18.05	17.93	19.0	0.0
45	PI2 BPSK	1	240	17.87	17.87	17.85		
45	PI2 BPSK	120	0	17.88	17.92	17.91		
45	PI2 BPSK	120	60	17.84	17.98	17.97	19.0	0.0
45	PI2 BPSK	120	120	17.92	17.95	17.94		
45	PI2 BPSK	240	0	17.94	17.95	17.97		
45	QPSK	1	1	17.95	18.06	17.93	19.0	0.0
45	QPSK	1	120	17.99	18.00	17.98		
45	QPSK	1	240	17.88	17.94	17.99		
45	QPSK	120	0	17.96	18.00	17.95	19.0	0.0
45	QPSK	120	60	17.87	18.03	17.99		
45	QPSK	120	120	17.82	17.93	17.91		
45	QPSK	240	0	17.99	18.04	17.97	19.0	0.0
45	16QAM	1	1	17.63	17.74	17.60		
45	64QAM	1	1	17.67	17.74	17.74		
45	256QAM	1	1	18.02	18.05	18.00	19.0	0.0
Channel				345000	349000	352000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1730	1745	1760	24.0	0.0
40	QPSK	1	1	17.89	18.04	17.91	24.0	0.0
Channel				345500	349000	352500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1727.5	1745	1762.5	24.0	0.0
35	QPSK	1	1	17.84	17.95	17.82	24.0	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765	24.0	0.0
30	QPSK	1	1	17.86	18.05	17.88	19.0	0.0
Channel				345000	349000	353500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5	24.0	0.0
25	QPSK	1	1	17.84	17.98	17.85	19.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770	19.0	0.0
20	QPSK	1	1	17.80	18.00	17.82	19.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	19.0	0.0
15	QPSK	1	1	17.90	18.04	17.88	19.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775	19.0	0.0
10	QPSK	1	1	17.94	18.02	17.91	19.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	19.0	0.0
5	QPSK	1	1	17.94	18.05	17.88	19.0	0.0

n38 Ant 0 ECI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				516004	519000	519996	22.0	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	21.01	21.07	21.07			
40	PI/2 BPSK	1	53	21.01	21.14	21.03	22.0	0.0	
40	PI/2 BPSK	1	104	21.03	21.01	21.09			
40	PI/2 BPSK	50	0	20.55	20.66	20.61		21.5	
40	PI/2 BPSK	50	28	20.97	21.14	21.05	22.0	0.0	
40	PI/2 BPSK	50	56	20.46	20.66	20.58	21.5	0.5	
40	PI/2 BPSK	100	0	20.54	20.54	20.48			
40	QPSK	1	1	21.06	21.23	21.07			
40	QPSK	1	53	21.01	21.13	21.04	22.0	0.0	
40	QPSK	1	104	21.06	21.14	21.05			
40	QPSK	50	0	20.06	20.12	20.05		21.0	
40	QPSK	50	28	21.02	21.12	21.10	22.0	0.0	
40	QPSK	80	56	20.04	20.14	20.14			
40	QPSK	100	0	20.08	20.13	20.10		21.0	
40	16QAM	1	1	19.58	19.64	19.62	21.0	1.0	
40	64QAM	1	1	18.07	18.10	18.07			
40	256QAM	1	1	16.76	16.82	16.71		17.5	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2595.01	2595	2604.99			
30	QPSK	1	1	20.98	21.15	20.99	22.0	0.0	
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.52	2595	2607.48			
25	QPSK	1	1	21.05	21.11	21.11	22.0	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	21.04	21.09	21.01	22.0	0.0	
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	21.07	21.10	21.10	22.0	0.0	
Channel				515004	519000	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	21.08	21.08	21.07	22.0	0.0	

n41 Ant 0 ECI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518998	520000	22.0	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	21.15	21.24	21.17			
100	PI/2 BPSK	1	137	21.17	21.28	21.13	22.0	0.0	
100	PI/2 BPSK	1	271	21.10	21.19	21.24			
100	PI/2 BPSK	135	0	20.83	20.74	20.72		21.5	
100	PI/2 BPSK	135	69	21.12	21.22	21.12	22.0	0.0	
100	PI/2 BPSK	135	138	20.62	20.76	20.74			
100	PI/2 BPSK	270	0	20.65	20.71	20.65		21.5	
100	QPSK	1	1	21.16	21.26	21.22	22.0	0.0	
100	QPSK	1	137	21.15	21.27	21.14			
100	QPSK	1	271	21.17	21.26	21.21			
100	QPSK	135	0	20.16	20.24	20.23	21.0	1.0	
100	QPSK	135	69	21.18	21.25	21.20			
100	QPSK	135	138	20.16	20.22	20.21		22.0	
100	QPSK	270	0	20.22	20.29	20.25	21.0	1.0	
100	16QAM	1	1	19.68	19.74	19.71			
100	64QAM	1	1	18.21	18.27	18.24		19.5	
100	256QAM	1	1	16.87	16.91	16.88	17.5	4.5	
Channel				506002	518998	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.15	21.23	21.17	22.0	0.0	
Channel				507204	518998	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2530.02	2592.99	2649.99			
80	QPSK	1	1	21.11	21.22	21.14	22.0	0.0	
Channel				506002	518998	521000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	21.17	21.21	21.20	22.0	0.0	
Channel				505200	518998	521998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	21.14	21.26	21.14	22.0	0.0	
Channel				504204	518998	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	21.11	21.22	21.17	22.0	0.0	
Channel				503200	518998	523498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2518.5	2592.99	2667.48			
45	QPSK	1	1	21.13	21.24	21.19	22.0	0.0	
Channel				503202	518998	524000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2513.01	2592.99	2670			
40	QPSK	1	1	21.16	21.24	21.20	22.0	0.0	
Channel				502704	518998	524498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2513.52	2592.99	2672.49			
35	QPSK	1	1	21.12	21.20	21.15	22.0	0.0	
Channel				502200	518998	524998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	21.19	21.24	21.14	22.0	0.0	
Channel				501702	518998	525500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2508.51	2592.99	2677.5			
25	QPSK	1	1	21.11	21.21	21.13	22.0	0.0	
Channel				501204	518998	525998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.15	21.21	21.22	22.0	0.0	
Channel				500700	518998	526498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.15	2592.99	2682.48			
15	QPSK	1	1	21.10	21.23	21.25	22.0	0.0	
Channel				500202	518998	527000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	21.08	21.28	21.19	22.0	0.0	

n38 Ant 1 ECI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				516004	519000	519996	23.1	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	21.58	21.60	21.52	23.1	0.0	
40	PI2 BPSK	1	53	21.55	21.60	21.64			
40	PI2 BPSK	1	104	21.42	21.57	21.54	23.1	0.0	
40	PI2 BPSK	50	0	21.70	21.71	21.68			
40	PI2 BPSK	50	28	21.56	21.58	21.56	23.1	0.0	
40	PI2 BPSK	50	56	21.58	21.74	21.67			
40	PI2 BPSK	100	0	21.64	21.70	21.68	23.1	0.0	
40	QPSK	1	1	21.56	21.75	21.56			
40	QPSK	1	53	21.47	21.62	21.54	23.1	0.0	
40	QPSK	1	104	21.47	21.58	21.53			
40	QPSK	50	0	21.58	21.70	21.66	23.0	0.1	
40	QPSK	50	28	21.60	21.72	21.62			
40	QPSK	50	56	21.65	21.67	21.59	23.0	0.1	
40	QPSK	100	0	21.60	21.68	21.65			
40	16QAM	1	1	21.27	21.32	21.29	23.0	0.1	
40	64QAM	1	1	19.81	19.89	19.88			
40	256QAM	1	1	18.46	18.53	18.50	19.5	3.6	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99		23.1	
30	QPSK	1	1	21.52	21.72	21.54	23.1	0.0	
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.52	2595	2607.48		23.1	
25	QPSK	1	1	21.54	21.65	21.52	23.1	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610		23.1	
20	QPSK	1	1	21.55	21.66	21.47	23.1	0.0	
Channel				515502	519000	524998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49		23.1	
15	QPSK	1	1	21.58	21.72	21.50	23.1	0.0	
Channel				515004	519000	525998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98		23.1	
10	QPSK	1	1	21.47	21.72	21.54	23.1	0.0	

n41 Ant 1 EC13										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				506002	518998	520000	23.1	0.0		
Frequency (MHz)				2546.01	2592.99	2640				
100	PI/2 BPSK	1	1	21.50	21.78	21.61	23.1	0.0		
100	PI/2 BPSK	1	137	21.56	21.76	21.54				
100	PI/2 BPSK	1	271	21.55	21.73	21.53	23.1	0.0		
100	PI/2 BPSK	135	0	21.54	21.85	21.63				
100	PI/2 BPSK	135	69	21.48	21.78	21.48	23.1	0.0		
100	PI/2 BPSK	135	138	21.59	21.86	21.58				
100	PI/2 BPSK	270	0	21.60	21.88	21.54	23.1	0.0		
100	QPSK	1	1	21.67	21.91	21.66				
100	QPSK	1	137	21.60	21.83	21.55	23.1	0.0		
100	QPSK	1	271	21.48	21.85	21.54				
100	QPSK	135	0	21.61	21.82	21.54	23.0	0.1		
100	QPSK	135	69	21.67	21.88	21.62				
100	QPSK	135	138	21.58	21.84	21.58	23.0	0.1		
100	QPSK	270	0	21.68	21.87	21.57				
100	16QAM	1	1	21.33	21.41	21.35	23.0	0.1		
100	64QAM	1	1	19.82	19.93	19.88		21.5		
100	256QAM	1	1	18.50	18.59	18.51	19.5	3.6		
Channel				506000	518998	520998	Tune-up limit			
Frequency (MHz)				2541	2592.99	2644.98	(dBm)			
90	QPSK	1	1	21.58	21.80	21.54	23.1	0.0		
Channel				507204	518998	529998	Tune-up limit			
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)			
80	QPSK	1	1	21.60	21.84	21.57	23.1	0.0		
Channel				506002	518998	531000	Tune-up limit			
Frequency (MHz)				2531.01	2592.99	2655	(dBm)			
70	QPSK	1	1	21.67	21.86	21.60	23.1	0.0		
Channel				505200	518998	531998	Tune-up limit			
Frequency (MHz)				2524	2592.99	2659.98	(dBm)			
60	QPSK	1	1	21.66	21.83	21.58	23.1	0.0		
Channel				504204	518998	532998	Tune-up limit			
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)			
50	QPSK	1	1	21.59	21.85	21.68	23.1	0.0		
Channel				503700	518998	533498	Tune-up limit			
Frequency (MHz)				2518.5	2592.99	2667.48	(dBm)			
45	QPSK	1	1	21.62	21.86	21.84	24.0	0.0		
Channel				503202	518998	534000	Tune-up limit			
Frequency (MHz)				2513.01	2592.99	2670	(dBm)			
40	QPSK	1	1	21.55	21.83	21.54	23.1	0.0		
Channel				502704	518998	534498	Tune-up limit			
Frequency (MHz)				2513.52	2592.99	2672.49	(dBm)			
35	QPSK	1	1	21.66	21.85	21.59	24.0	0.0		
Channel				502200	518998	534998	Tune-up limit			
Frequency (MHz)				2511	2592.99	2674.98	(dBm)			
30	QPSK	1	1	21.64	21.79	21.62	23.1	0.0		
Channel				501702	518998	535500	Tune-up limit			
Frequency (MHz)				2508.51	2592.99	2677.5	(dBm)			
25	QPSK	1	1	21.62	21.80	21.58	24.0	0.0		
Channel				501204	518998	535998	Tune-up limit			
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)			
20	QPSK	1	1	21.59	21.80	21.58	23.1	0.0		
Channel				500700	518998	536498	Tune-up limit			
Frequency (MHz)				2503.5	2592.99	2682.48	(dBm)			
15	QPSK	1	1	21.63	21.83	21.55	23.1	0.0		
Channel				500202	518998	537000	Tune-up limit			
Frequency (MHz)				2501.01	2592.99	2685	(dBm)			
10	QPSK	1	1	21.63	21.88	21.66	23.1	0.0		

n38 Ant 2 ECI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				516004	519000	519996	20.0	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	18.88	18.95	18.76			
40	PI/2 BPSK	1	53	18.94	18.89	18.71			
40	PI/2 BPSK	1	104	18.90	19.04	18.74	19.5	0.5	
40	PI/2 BPSK	50	0	18.32	18.33	18.23			
40	PI/2 BPSK	50	28	18.66	18.84	18.69			
40	PI/2 BPSK	50	56	18.20	18.39	18.27			
40	PI/2 BPSK	100	0	18.27	18.33	18.25	20.0	0.0	
40	QPSK	1	1	18.92	19.09	18.80			
40	QPSK	1	53	18.93	18.99	18.72			
40	QPSK	1	104	18.84	19.07	18.74			
40	QPSK	50	0	17.73	17.91	17.84	19.0	1.0	
40	QPSK	50	28	18.82	18.63	18.73			
40	QPSK	80	56	17.78	17.82	17.70			
40	QPSK	100	0	17.84	17.97	17.84			
40	16QAM	1	1	17.76	17.78	17.70	19.0	1.0	
40	16QAM	1	1	18.29	16.28	16.23			
40	256QAM	1	1	14.85	14.99	14.78			
Channel				517002	519000	520998	20.0	0.0	
Frequency (MHz)				2595.01	2595	2604.99			
30	QPSK	1	1	18.81	18.97	18.78			
Channel				516504	519000	521496	20.0	0.0	
Frequency (MHz)				2592.52	2595	2607.48			
25	QPSK	1	1	18.83	18.99	18.84		20.0	
Channel				516000	519000	522000			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	18.92	19.00	18.74		20.0	
Channel				515502	519000	524998			
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	18.90	19.01	18.80		20.0	
Channel				515004	519000	525998			
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	18.88	18.94	18.73		20.0	

n41 Ant 2 ECI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506202	518998	520000	20.0	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	18.98	19.12	18.89			
100	PI/2 BPSK	1	137	19.03	19.06	18.86			
100	PI/2 BPSK	1	271	18.92	19.11	18.90	19.5	0.5	
100	PI/2 BPSK	135	0	18.40	18.47	18.33			
100	PI/2 BPSK	135	69	18.84	18.92	18.79			
100	PI/2 BPSK	135	138	18.36	18.49	18.37			
100	PI/2 BPSK	270	0	18.37	18.46	18.35	20.0	0.0	
100	QPSK	1	1	19.00	19.15	18.90			
100	QPSK	1	137	19.00	19.13	18.85			
100	QPSK	1	271	18.99	19.13	18.89			
100	QPSK	135	0	17.87	18.00	17.75	19.0	1.0	
100	QPSK	135	69	18.92	18.96	18.81			
100	QPSK	135	138	17.94	17.85	17.83			
100	QPSK	270	0	18.00	18.06	18.01			
100	16QAM	1	1	17.91	17.95	17.86	19.0	1.0	
100	16QAM	1	1	18.44	16.46	16.40			
100	256QAM	1	1	14.95	15.13	14.88			
Channel				506202	518998	520998	20.0	0.0	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	18.98	19.08	18.91		20.0	
Channel				507204	518998	520998			
Frequency (MHz)				2530.02	2592.99	2649.99			
80	QPSK	1	1	18.93	19.11	18.87	20.0	0.0	
Channel				506202	518998	521000			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	18.96	19.08	18.92		20.0	
Channel				505200	518998	521998			
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	19.00	19.06	18.85	20.0	0.0	
Channel				504204	518998	522998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	18.96	19.06	18.89	20.0	0.0	
Channel				503202	518998	523998			
Frequency (MHz)				2518.5	2592.99	2667.48			
45	QPSK	1	1	18.98	19.05	18.81	20.0	0.0	
Channel				503202	518998	524000			
Frequency (MHz)				2513.01	2592.99	2670			
40	QPSK	1	1	18.95	19.14	18.83	20.0	0.0	
Channel				502704	518998	524498			
Frequency (MHz)				2513.52	2592.99	2672.49			
35	QPSK	1	1	18.90	19.06	18.84	20.0	0.0	
Channel				502200	518998	524998			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	18.92	19.10	18.84	20.0	0.0	
Channel				501702	518998	525998			
Frequency (MHz)				2508.51	2592.99	2677.5			
25	QPSK	1	1	18.95	19.11	18.80	20.0	0.0	
Channel				501204	518998	526998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	18.95	19.14	18.85	20.0	0.0	
Channel				500700	518998	526496			
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	18.90	19.09	18.81	20.0	0.0	
Channel				500202	518998	527000			
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	18.93	19.09	18.89		20.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)
Channel				3750	3840	3930	20.4	0.0
Frequency (MHz)				19.40	19.48	19.16		
100	PI/2 BPSK	1	1	19.40	19.48	19.16	20.4	0.0
100	PI/2 BPSK	1	137	19.44	19.52	19.13		
100	PI/2 BPSK	1	271	19.48	19.51	19.11	20.4	0.0
100	PI/2 BPSK	135	0	19.35	19.47	19.38		
100	PI/2 BPSK	135	69	19.37	19.41	19.30	20.4	0.0
100	PI/2 BPSK	135	138	19.37	19.50	19.44		
100	PI/2 BPSK	270	0	19.39	19.40	19.38	20.4	0.0
100	QPSK	1	1	19.36	19.59	19.19		
100	QPSK	1	137	19.39	19.47	19.09	20.4	0.0
100	QPSK	1	271	19.51	19.44	19.14		
100	QPSK	135	0	19.42	19.45	19.44	20.4	0.0
100	QPSK	135	69	19.40	19.48	19.39		
100	QPSK	135	138	19.43	19.41	19.37	20.4	0.0
100	QPSK	270	0	19.40	19.45	19.41		
100	16QAM	1	1	19.15	19.31	19.27	20.4	0.0
100	64QAM	1	1	19.30	19.38	19.30		
100	256QAM	1	1	19.32	19.38	19.36	20.4	0.0
Channel				649968	650000	650334		
Frequency (MHz)				3745.02	3840	3935.01	20.4	0.0
90	QPSK	1	1	19.45	19.58	19.14		
Channel				649334	650000	650668	20.4	0.0
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	19.49	19.47	19.07	20.4	0.0
Channel				649000	650000	650300		
Frequency (MHz)				3735	3840	3945	20.4	0.0
70	QPSK	1	1	19.47	19.50	19.18		
Channel				648668	650000	650334	20.4	0.0
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	19.45	19.48	19.08	20.4	0.0
Channel				648334	650000	650668		
Frequency (MHz)				3725.01	3840	3955.02	20.4	0.0
50	QPSK	1	1	19.56	19.57	19.11		
Channel				648000	650000	650300	20.4	0.0
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	19.48	19.57	19.09	20.4	0.0
Channel				647668	650000	650334		
Frequency (MHz)				3715.02	3840	3965.01	20.4	0.0
30	QPSK	1	1	19.54	19.53	19.16		
Channel				647300	650000	650500	20.4	0.0
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	19.51	19.58	19.09	20.4	0.0
Channel				647334	650000	650668		
Frequency (MHz)				3710.01	3840	3970.02	20.4	0.0
20	QPSK	1	1	19.51	19.55	19.15		
Channel				647188	650000	650834	20.4	0.0
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	19.50	19.52	19.10	20.4	0.0
Channel				647000	650000	650300		
Frequency (MHz)				3705	3840	3975	20.4	0.0
10	QPSK	1	1	19.48	19.55	19.11		

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)
Channel				3750	3760	3750	20.4	0.0
Frequency (MHz)				19.43	19.41	19.43		
100	PI/2 BPSK	1	1	19.43	19.41	19.43	20.4	0.0
100	PI/2 BPSK	1	137	19.43	19.41	19.43		
100	PI/2 BPSK	1	271	19.43	19.41	19.43	20.4	0.0
100	PI/2 BPSK	135	0	19.32	19.32	19.32		
100	PI/2 BPSK	135	69	19.35	19.35	19.35	20.4	0.0
100	PI/2 BPSK	135	138	19.37	19.37	19.37		
100	PI/2 BPSK	270	0	19.30	19.30	19.30	20.4	0.0
100	QPSK	1	1	19.44	19.44	19.44		
100	QPSK	1	137	19.38	19.38	19.38	20.4	0.0
100	QPSK	1	271	19.35	19.35	19.35		
100	QPSK	135	0	19.34	19.34	19.34	20.4	0.0
100	QPSK	135	69	19.41	19.41	19.41		
100	QPSK	135	138	19.34	19.34	19.34	20.4	0.0
100	QPSK	270	0	19.35	19.35	19.35		
100	16QAM	1	1	19.15	19.15	19.15	20.4	0.0
100	64QAM	1	1	19.20	19.20	19.20		
100	256QAM	1	1	19.26	19.26	19.26	20.4	0.0
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3760	3755.01	20.4	0.0
90	QPSK	1	1	19.31	19.40	19.33		
Channel				649334	650000	650668	20.4	0.0
Frequency (MHz)				3740.01	3760	3760.02		
80	QPSK	1	1	19.21	19.43	19.39	20.4	0.0
Channel				649000	650000	650300		
Frequency (MHz)				3735	3760	3765	20.4	0.0
70	QPSK	1	1	19.30	19.40	19.39		
Channel				648668	650000	650334	20.4	0.0
Frequency (MHz)				3730.02	3760	3770.01		
60	QPSK	1	1	19.27	19.39	19.34	20.4	0.0
Channel				648334	650000	650668		
Frequency (MHz)				3725.01	3760	3775.02	20.4	0.0
50	QPSK	1	1	19.37	19.40	19.32		
Channel				648000	650000	650300	20.4	0.0
Frequency (MHz)				3720	3760	3780		
40	QPSK	1	1	19.27	19.34	19.33	20.4	0.0
Channel				647668	650000	650334		
Frequency (MHz)				3715.02	3760	3785.01	20.4	0.0
30	QPSK	1	1	19.25	19.40	19.41		
Channel				647500	650000	650500	20.4	0.0
Frequency (MHz)				3712.5	3760	3787.5		
25	QPSK	1	1	19.31	19.40	19.41	20.4	0.0
Channel				647334	650000	650668		
Frequency (MHz)				3710.01	3760	3790.02	20.4	0.0
20	QPSK	1	1	19.30	19.39	19.33		
Channel				647188	650000	650834	20.4	0.0
Frequency (MHz)				3707.52	3760	3792.51		
15	QPSK	1	1	19.38	19.38	19.42	20.4	0.0
Channel				647000	650000	650300		
Frequency (MHz)				3705	3760	3795	20.4	0.0
10	QPSK	1	1	19.39	19.33	19.30		

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				516004	519000	519996	18.9	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	17.56	17.73	17.64	18.9	0.0	
40	PI/2 BPSK	1	53	17.53	17.63	17.59			
40	PI/2 BPSK	1	104	17.57	17.61	17.50	18.9	0.0	
40	PI/2 BPSK	50	0	17.57	17.76	17.72			
40	PI/2 BPSK	50	28	17.55	17.70	17.61	18.9	0.0	
40	PI/2 BPSK	50	56	17.59	17.69	17.60			
40	PI/2 BPSK	100	0	17.58	17.72	17.61	18.9	0.0	
40	QPSK	1	1	17.62	17.76	17.67			
40	QPSK	1	53	17.55	17.63	17.58	18.9	0.0	
40	QPSK	1	104	17.65	17.61	17.60			
40	QPSK	50	0	17.60	17.70	17.63	18.9	0.0	
40	QPSK	50	28	17.71	17.73	17.70			
40	QPSK	50	56	17.56	17.71	17.67	18.9	0.0	
40	QPSK	100	0	17.75	17.78	17.76			
40	16QAM	1	1	17.58	17.66	17.59	18.9	0.0	
40	64QAM	1	1	17.70	17.72	17.71			
40	256QAM	1	1	17.45	17.52	17.44	18.9	0.0	
Channel				517002	519000	520998		MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	17.55	17.68	17.60	18.9	0.0	
Channel				516504	519000	521496		MPR (dB)	
Frequency (MHz)				2592.52	2595	2607.48			
25	QPSK	1	1	17.62	17.70	17.65	18.9	0.0	
Channel				516000	519000	522000		MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	17.54	17.69	17.66	18.9	0.0	
Channel				515502	519000	524998		MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	17.59	17.73	17.63	18.9	0.0	
Channel				515004	519000	525998		MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	17.51	17.69	17.56	18.9	0.0	

n41 Ant 4 ECI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506202	518998	520000	18.9	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	17.71	17.80	17.60	18.9	0.0	
100	PI/2 BPSK	1	137	17.65	17.74	17.55			
100	PI/2 BPSK	1	271	17.67	17.67	17.62	18.9	0.0	
100	PI/2 BPSK	135	0	17.77	17.85	17.67			
100	PI/2 BPSK	135	69	17.74	17.82	17.75	18.9	0.0	
100	PI/2 BPSK	135	138	17.76	17.81	17.72			
100	PI/2 BPSK	270	0	17.79	17.89	17.76	18.9	0.0	
100	QPSK	1	1	17.81	17.94	17.86			
100	QPSK	1	137	17.74	17.85	17.78	18.9	0.0	
100	QPSK	1	271	17.73	17.88	17.71			
100	QPSK	135	0	17.74	17.77	17.71	18.9	0.0	
100	QPSK	135	69	17.84	17.89	17.79			
100	QPSK	135	138	17.74	17.78	17.83	18.9	0.0	
100	QPSK	270	0	17.80	17.97	17.73			
100	16QAM	1	1	17.69	17.71	17.73	18.9	0.0	
100	64QAM	1	1	17.90	17.91	17.85		18.9	
100	256QAM	1	1	17.59	17.67	17.62		18.9	
Channel				506202	518998	520998	18.9	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	17.59	17.83	17.64	18.9	0.0	
Channel				507204	518998	520998		MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	17.60	17.89	17.67	18.9	0.0	
Channel				506202	518998	521000		MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	17.65	17.87	17.65	18.9	0.0	
Channel				505200	518998	521998		MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	17.60	17.89	17.57	18.9	0.0	
Channel				504204	518998	522998		MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	17.55	17.84	17.61	18.9	0.0	
Channel				503200	518998	523498		MPR (dB)	
Frequency (MHz)				2518.5	2592.99	2667.48			
45	QPSK	1	1	17.63	17.83	17.58	18.9	0.0	
Channel				503202	518998	524000		MPR (dB)	
Frequency (MHz)				2513.01	2592.99	2670			
40	QPSK	1	1	17.65	17.84	17.64	18.9	0.0	
Channel				502704	518998	524498		MPR (dB)	
Frequency (MHz)				2513.52	2592.99	2672.49			
35	QPSK	1	1	17.57	17.86	17.62	18.9	0.0	
Channel				502200	518998	524998		MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	17.63	17.92	17.63	18.9	0.0	
Channel				501702	518998	525500		MPR (dB)	
Frequency (MHz)				2508.51	2592.99	2677.5			
25	QPSK	1	1	17.55	17.82	17.59	18.9	0.0	
Channel				501204	518998	525998		MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	17.59	17.83	17.66	18.9	0.0	
Channel				500700	518998	526498		MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	17.50	17.83	17.62	18.9	0.0	
Channel				500202	518998	527000		MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	17.60	17.92	17.62	18.9	0.0	

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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)	MPR (dB)
Channel				65000	65000	65000	20.4	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	19.37	19.34	19.32	20.4	0.0
100	PI/2 BPSK	1	137	19.33	19.39	19.34		
100	PI/2 BPSK	1	271	19.37	19.37	19.28		
100	PI/2 BPSK	135	0	19.38	19.41	19.37		
100	PI/2 BPSK	135	69	19.25	19.29	19.29	20.4	0.0
100	PI/2 BPSK	135	138	19.31	19.40	19.36	20.4	0.0
100	PI/2 BPSK	270	0	19.34	19.38	19.37	20.4	0.0
100	QPSK	1	1	19.37	19.44	19.39		
100	QPSK	1	137	19.34	19.33	19.30		
100	QPSK	1	271	19.30	19.34	19.32		
100	QPSK	135	0	19.28	19.30	19.29	20.4	0.0
100	QPSK	135	69	19.24	19.31	19.29	20.4	0.0
100	QPSK	135	138	19.30	19.30	19.23	20.4	0.0
100	QPSK	270	0	19.34	19.42	19.40	20.4	0.0
100	16QAM	1	1	19.32	19.38	19.28	20.4	0.0
100	64QAM	1	1	19.33	19.34	19.37	20.4	0.0
100	256QAM	1	1	17.93	17.91	17.89	19.5	0.9
Channel				64998	65002	65004	20.4	0.0
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	19.38	19.38	19.30	20.4	0.0
Channel				649334	650000	652668	20.4	0.0
Frequency (MHz)				3740.01	3740	3940.02		
80	QPSK	1	1	19.29	19.34	19.34	20.4	0.0
Channel				649000	650000	653000	20.4	0.0
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	19.39	19.37	19.31	20.4	0.0
Channel				648668	650000	653334	20.4	0.0
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	19.31	19.40	19.38	20.4	0.0
Channel				648334	650000	653668	20.4	0.0
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	19.30	19.35	19.35	20.4	0.0
Channel				648000	650000	654000	20.4	0.0
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	19.34	19.39	19.35	20.4	0.0
Channel				647668	650000	654334	20.4	0.0
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	19.22	19.34	19.32	20.4	0.0
Channel				647500	650000	654500	20.4	0.0
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	19.29	19.40	19.34	20.4	0.0
Channel				647334	650000	654668	20.4	0.0
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	19.38	19.40	19.38	20.4	0.0
Channel				647168	650000	654834	20.4	0.0
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	19.32	19.33	19.35	20.4	0.0
Channel				647000	650000	655000	20.4	0.0
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	19.30	19.33	19.29	20.4	0.0

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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)	MPR (dB)
Channel				65000	65000	65000	20.4	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		19.18		20.4	0.0
100	PI/2 BPSK	1	137		19.27			
100	PI/2 BPSK	1	271		19.28			
100	PI/2 BPSK	135	0		19.33			
100	PI/2 BPSK	135	69		19.23		20.4	0.0
100	PI/2 BPSK	135	138		19.32		20.4	0.0
100	PI/2 BPSK	270	0		19.31		20.4	0.0
100	QPSK	1	1		19.38			
100	QPSK	1	137		19.21			
100	QPSK	1	271		19.16			
100	QPSK	135	0		19.35		20.4	0.0
100	QPSK	135	69		19.34		20.4	0.0
100	QPSK	135	138		19.33		20.4	0.0
100	QPSK	270	0		19.34		20.4	0.0
100	16QAM	1	1		19.31		20.4	0.0
100	64QAM	1	1		19.34		20.4	0.0
100	256QAM	1	1		17.77		19.5	0.9
Channel				649968	650032	650334	20.4	0.0
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	19.20	19.28	19.16	20.4	0.0
Channel				649334	650000	650668	20.4	0.0
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	19.15	19.30	19.14	20.4	0.0
Channel				649000	650000	651000	20.4	0.0
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	19.16	19.27	19.18	20.4	0.0
Channel				648668	650000	651334	20.4	0.0
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	19.13	19.34	19.18	20.4	0.0
Channel				648334	650000	651668	20.4	0.0
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	19.13	19.30	19.15	20.4	0.0
Channel				648000	650000	652000	20.4	0.0
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	19.11	19.35	19.22	20.4	0.0
Channel				647668	650000	652334	20.4	0.0
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	19.12	19.35	19.22	20.4	0.0
Channel				647500	650000	652500	20.4	0.0
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	19.11	19.34	19.21	20.4	0.0
Channel				647334	650000	652668	20.4	0.0
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	19.18	19.32	19.18	20.4	0.0
Channel				647168	650000	652834	20.4	0.0
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	19.22	19.29	19.24	20.4	0.0
Channel				647000	650000	653000	20.4	0.0
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	19.10	19.29	19.21	20.4	0.0

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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)	MPR (dB)
Channel				655000	656000	662000	19.8	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	18.54	18.45	18.55	19.8	0.0
100	PI/2 BPSK	1	137	18.44	18.41	18.49		
100	PI/2 BPSK	1	271	18.52	18.61	18.61	19.8	0.0
100	PI/2 BPSK	135	0	18.55	18.66	18.49		
100	PI/2 BPSK	135	69	18.36	18.41	18.50	19.8	0.0
100	PI/2 BPSK	135	138	18.63	18.67	18.63		
100	PI/2 BPSK	270	0	18.56	18.67	18.49	19.8	0.0
100	QPSK	1	1	18.62	18.74	18.64		
100	QPSK	1	137	18.56	18.49	18.48	19.8	0.0
100	QPSK	1	271	18.64	18.55	18.52		
100	QPSK	135	0	18.52	18.63	18.59	19.8	0.0
100	QPSK	135	69	18.68	18.72	18.64		
100	QPSK	135	138	18.53	18.66	18.44	19.8	0.0
100	QPSK	270	0	18.64	18.70	18.54		
100	16QAM	1	1	18.53	18.61	18.37	19.8	0.0
100	64QAM	1	1	18.61	18.70	18.48		
100	256QAM	1	1	18.14	18.09	18.16	19.5	0.3
Channel				649968	650000	650334	19.8	0.0
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	18.58	18.68	18.62	19.8	0.0
Channel				649334	650000	652668		
Frequency (MHz)				3740.01	3840	3940.02	19.8	0.0
80	QPSK	1	1	18.59	18.72	18.61		
Channel				649000	650000	653000	19.8	0.0
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	18.59	18.69	18.63	19.8	0.0
Channel				648668	650000	653334		
Frequency (MHz)				3730.02	3840	3950.01	19.8	0.0
60	QPSK	1	1	18.52	18.69	18.63		
Channel				648334	650000	653668	19.8	0.0
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	18.60	18.65	18.53	19.8	0.0
Channel				648000	650000	654000		
Frequency (MHz)				3720	3840	3960	19.8	0.0
40	QPSK	1	1	18.50	18.67	18.56		
Channel				647668	650000	654334	19.8	0.0
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	18.55	18.73	18.54	19.8	0.0
Channel				647000	650000	654500		
Frequency (MHz)				3712.5	3840	3967.5	19.8	0.0
25	QPSK	1	1	18.54	18.71	18.57		
Channel				647334	650000	654668	19.8	0.0
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	18.59	18.73	18.64	19.8	0.0
Channel				647168	650000	654834		
Frequency (MHz)				3707.52	3840	3972.51	19.8	0.0
15	QPSK	1	1	18.52	18.72	18.62		
Channel				647000	650000	655000	19.8	0.0
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	18.53	18.69	18.53	19.8	0.0

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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)	MPR (dB)
Channel				650000	650000	650000	19.8	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		18.42		19.8	0.0
100	PI/2 BPSK	1	137		18.43			
100	PI/2 BPSK	1	271		18.46		19.8	0.0
100	PI/2 BPSK	135	0		18.62			
100	PI/2 BPSK	135	69		18.46		19.8	0.0
100	PI/2 BPSK	135	138		18.56			
100	PI/2 BPSK	270	0		18.49		19.8	0.0
100	QPSK	1	1		18.44			
100	QPSK	1	137		18.38		19.8	0.0
100	QPSK	1	271		18.36			
100	QPSK	135	0		18.52		19.8	0.0
100	QPSK	135	69		18.55			
100	QPSK	135	138		18.38		19.8	0.0
100	QPSK	270	0		18.57			
100	16QAM	1	1		18.55		19.8	0.0
100	64QAM	1	1		18.52			
100	256QAM	1	1		18.02		19.5	0.3
Channel				649668	650000	650334	19.8	0.0
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	18.37	18.46	18.40	19.8	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02	19.8	0.0
80	QPSK	1	1	18.32	18.41	18.45		
Channel				649000	650000	651000	19.8	0.0
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	18.35	18.46	18.42	19.8	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01	19.8	0.0
60	QPSK	1	1	18.30	18.40	18.42		
Channel				648334	650000	651668	19.8	0.0
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	18.34	18.42	18.40	19.8	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780	19.8	0.0
40	QPSK	1	1	18.31	18.40	18.40		
Channel				647668	650000	652334	19.8	0.0
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	18.33	18.37	18.34	19.8	0.0
Channel				647500	650000	652500		
Frequency (MHz)				3712.5	3750	3787.5	19.8	0.0
25	QPSK	1	1	18.32	18.45	18.46		
Channel				647334	650000	652668	19.8	0.0
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	18.35	18.42	18.41	19.8	0.0
Channel				647168	650000	652834		
Frequency (MHz)				3707.52	3750	3792.51	19.8	0.0
15	QPSK	1	1	18.32	18.37	18.36		
Channel				647000	650000	653000	19.8	0.0
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	18.32	18.49	18.45	19.8	0.0

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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)	MPR (dB)
Channel				65000	65000	65000	23.1	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	21.89	21.99	21.72	23.1	0.0
100	PI/2 BPSK	1	137	21.83	21.87	21.73		
100	PI/2 BPSK	1	271	21.84	21.78	21.71		
100	PI/2 BPSK	135	0	21.88	21.91	21.83		
100	PI/2 BPSK	135	69	21.82	21.87	21.83	23.1	0.0
100	PI/2 BPSK	135	138	21.74	21.86	21.81	23.1	0.0
100	PI/2 BPSK	270	0	21.86	21.85	21.82	23.1	0.0
100	QPSK	1	1	21.88	22.10	21.84		
100	QPSK	1	137	21.82	21.86	21.77		
100	QPSK	1	271	21.78	21.79	21.74		
100	QPSK	135	0	21.76	21.84	21.84	23.1	0.0
100	QPSK	135	69	21.78	21.82	21.79	23.1	0.0
100	QPSK	135	138	21.82	21.91	21.79	23.1	0.0
100	QPSK	270	0	21.82	21.85	21.74	23.1	0.0
100	16QAM	1	1	21.72	21.77	21.82		
100	64QAM	1	1	21.82	21.85	21.83		
100	256QAM	1	1	21.81	21.88	21.84		
Channel				64968	65000	65034	22.5	0.6
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	21.85	22.00	21.81	23.1	0.0
Channel				649334	650000	650668	23.1	MPR
Frequency (MHz)				3740.01	3740	3740.02		
80	QPSK	1	1	21.87	21.89	21.74	23.1	0.0
Channel				649000	650000	650300	23.1	MPR
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	21.81	22.08	21.83	23.1	0.0
Channel				648668	650000	650334	23.1	MPR
Frequency (MHz)				3730.02	3840	3920.01		
60	QPSK	1	1	21.87	22.02	21.82	23.1	0.0
Channel				648334	650000	650668	23.1	MPR
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	21.83	22.09	21.74	23.1	0.0
Channel				648000	650000	650200	23.1	MPR
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	21.77	22.04	21.78	23.1	0.0
Channel				647668	650000	650334	23.1	MPR
Frequency (MHz)				3713.02	3840	3925.01		
30	QPSK	1	1	21.77	22.03	21.83	23.1	0.0
Channel				647500	650000	650500	23.1	MPR
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	21.76	21.99	21.76	23.1	0.0
Channel				647334	650000	650668	23.1	MPR
Frequency (MHz)				3710.01	3840	3920.02		
20	QPSK	1	1	21.80	22.08	21.80	23.1	0.0
Channel				647188	650000	650834	23.1	MPR
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	21.79	22.08	21.80	23.1	0.0
Channel				647000	650000	650200	23.1	MPR
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	21.78	22.04	21.83	23.1	0.0

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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)	MPR (dB)
Channel				65000	65000	65000	23.1	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		21.85		23.1	0.0
100	PI/2 BPSK	1	137		21.81			
100	PI/2 BPSK	1	271		21.82			
100	PI/2 BPSK	135	0		21.80			
100	PI/2 BPSK	135	69		21.84		23.1	0.0
100	PI/2 BPSK	135	138		21.88		23.1	0.0
100	PI/2 BPSK	270	0		21.87		23.1	0.0
100	QPSK	1	1		21.82			
100	QPSK	1	137		21.85			
100	QPSK	1	271		21.80			
100	QPSK	135	0		21.81		23.1	0.0
100	QPSK	135	69		21.83		23.1	0.0
100	QPSK	135	138		21.79		23.1	0.0
100	QPSK	270	0		21.84		23.1	0.0
100	16QAM	1	1		21.81			
100	64QAM	1	1		21.78			
100	256QAM	1	1		21.58			
Channel				649668	650000	650334	23.1	MPR
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	21.85	21.82	21.88	23.1	0.0
Channel				649334	650000	650668	23.1	MPR
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	21.82	21.80	21.82	23.1	0.0
Channel				649000	650000	650500	23.1	MPR
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	21.85	21.87	21.83	23.1	0.0
Channel				648668	650000	650334	23.1	MPR
Frequency (MHz)				3730.02	3750	3720.01		
60	QPSK	1	1	21.89	21.91	21.84	23.1	0.0
Channel				648334	650000	650668	23.1	MPR
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	21.85	21.83	21.81	23.1	0.0
Channel				648000	650000	650200	23.1	MPR
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	21.81	21.91	21.82	23.1	0.0
Channel				647668	650000	650334	23.1	MPR
Frequency (MHz)				3713.02	3750	3725.01		
30	QPSK	1	1	21.81	21.85	21.82	23.1	0.0
Channel				647500	650000	650500	23.1	MPR
Frequency (MHz)				3712.5	3750	3767.5		
25	QPSK	1	1	21.79	21.90	21.89	23.1	0.0
Channel				647334	650000	650668	23.1	MPR
Frequency (MHz)				3710.01	3750	3720.02		
20	QPSK	1	1	21.88	21.86	21.90	23.1	0.0
Channel				647188	650000	650834	23.1	MPR
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	21.84	21.89	21.90	23.1	0.0
Channel				647000	650000	650300	23.1	MPR
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	21.82	21.83	21.86	23.1	0.0



Reduced Power Mode for ECI 4

n5 Ant 0 ECI4							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	22.50	22.64	22.55	24.0
20	PI/2 BPSK	1	53	22.55	22.59	22.56	
20	PI/2 BPSK	1	104	22.53	22.64	22.50	
20	PI/2 BPSK	50	0	22.04	22.13	22.00	23.5
20	PI/2 BPSK	50	28	22.46	22.57	22.54	24.0
20	PI/2 BPSK	50	56	22.01	22.14	22.03	23.5
20	PI/2 BPSK	100	0	22.07	22.19	22.06	
20	QPSK	1	1	22.63	22.65	22.61	
20	QPSK	1	53	22.50	22.61	22.59	24.0
20	QPSK	1	104	22.62	22.64	22.58	
20	QPSK	50	0	21.53	21.57	21.47	23.0
20	QPSK	50	28	22.54	22.57	22.48	24.0
20	QPSK	50	56	21.50	21.56	21.52	23.0
20	QPSK	100	0	21.50	21.59	21.57	
20	16QAM	1	1	21.21	21.33	21.20	23.0
20	64QAM	1	1	19.77	19.87	19.77	21.5
20	256QAM	1	1	18.41	18.47	18.44	19.5
Channel				166300	167300	168300	
Frequency (MHz)				831.5	836.5	841.5	
15	QPSK	1	1	22.56	22.62	22.49	24.0
Channel				165800	167300	168800	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	1	22.53	22.63	22.61	24.0
Channel				165300	167300	169300	
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	1	22.56	22.62	22.55	24.0

n26 Ant 0 ECI4							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	22.90	22.91	22.89	24.0
20	PI/2 BPSK	1	53	22.97	22.88	22.94	
20	PI/2 BPSK	1	104	22.81	22.88	22.82	
20	PI/2 BPSK	50	0	22.45	22.47	22.40	23.5
20	PI/2 BPSK	50	28	22.86	22.88	22.84	24.0
20	PI/2 BPSK	50	56	22.42	22.46	22.43	23.5
20	PI/2 BPSK	100	0	22.44	22.48	22.47	
20	QPSK	1	1	22.94	22.96	22.93	
20	QPSK	1	53	22.87	22.94	22.88	24.0
20	QPSK	1	104	22.89	22.91	22.86	
20	QPSK	50	0	21.98	21.92	21.94	23.0
20	QPSK	50	28	22.96	22.99	22.94	24.0
20	QPSK	50	56	21.90	21.96	21.91	23.0
20	QPSK	100	0	21.88	21.93	21.90	
20	16QAM	1	1	21.68	21.70	21.67	23.0
20	64QAM	1	1	20.26	20.28	20.24	21.5
20	256QAM	1	1	19.84	19.89	19.82	19.5
Channel				164300	166300	168300	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	1	22.92	22.95	22.86	24.0
Channel				163800	166300	168800	
Frequency (MHz)				819	831.5	844	
10	QPSK	1	1	22.93	22.94	22.87	24.0
Channel				163300	166300	169300	
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	1	22.91	22.94	22.88	24.0



n2 Ant 1 EC14											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)			
Channel				376000	376000	376000					
Frequency (MHz)				1870	1880	1890					
40	P12 BPSK	1	1	22.43	22.64	22.49	24.0	0.0			
40	P12 BPSK	1	108	22.54	22.59	22.49					
40	P12 BPSK	1	214	22.46	22.57	22.51					
40	P12 BPSK	198	0	21.66	21.71	21.70	23.5	0.5			
40	P12 BPSK	108	54	22.73	22.75	22.70	24.0	0.0			
40	P12 BPSK	108	108	22.22	22.26	22.18	23.5	0.5			
40	P12 BPSK	216	0	22.24	22.28	22.21					
40	QPSK	1	1	22.72	22.76	22.75					
40	QPSK	1	108	22.55	22.64	22.51	24.0	0.0			
40	QPSK	1	214	22.44	22.66	22.49					
40	QPSK	108	0	21.77	21.79	21.74					
40	QPSK	108	54	22.72	22.77	22.74	24.0	0.0			
40	QPSK	108	108	21.73	21.75	21.71	23.0	1.0			
40	QPSK	216	0	21.75	21.80	21.76					
40	16QAM	1	1	21.38	21.43	21.41	23.0	1.0			
40	64QAM	1	1	19.94	19.98	19.96	21.5	2.5			
40	256QAM	1	1	18.52	18.60	18.58	19.5	4.5			
Channel				376000	376000	376000					
Frequency (MHz)				1867.5	1880	1892.5					
35	QPSK	1	1	22.68	22.65	22.63	24.0	0.0			
Channel				373000	376000	379000					
Frequency (MHz)				1905	1910	1965					
30	QPSK	1	1	22.59	22.67	22.67	24.0	0.0			
Channel				372500	376000	379500					
Frequency (MHz)				1862.5	1880	1897.5					
25	QPSK	1	1	22.48	22.61	22.53	24.0	0.0			
Channel				372000	376000	380000					
Frequency (MHz)				1860	1880	1900					
20	QPSK	1	1	22.46	22.63	22.46	24.0	0.0			
Channel				371500	376000	380500					
Frequency (MHz)				1857.5	1880	1902.5					
15	QPSK	1	1	22.46	22.66	22.47	24.0	0.0			
Channel				371000	376000	381000					
Frequency (MHz)				1855	1880	1905					
10	QPSK	1	1	22.52	22.62	22.54	24.0	0.0			
Channel				370500	376000	381500					
Frequency (MHz)				1852.5	1880	1907.5					
5	QPSK	1	1	22.54	22.62	22.47	24.0	0.0			

n7 Ant 1 EC14									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2625	2635	2645			
50	P12 BPSK	1	1	22.35	22.47	22.36	24.0	0.0	
50	P12 BPSK	1	135	22.29	22.31	22.28			
50	P12 BPSK	1	268	22.26	22.36	22.34			
50	P12 BPSK	135	0	21.95	22.06	22.04	23.5	0.5	
50	P12 BPSK	135	68	22.45	22.53	22.48	24.0	0.0	
50	P12 BPSK	135	135	21.95	22.05	21.97	23.5	0.5	
50	P12 BPSK	270	0	22.00	22.04	22.01			
50	QPSK	1	1	22.54	22.58	22.57			
50	QPSK	1	135	22.32	22.37	22.32	24.0	0.0	
50	QPSK	1	268	22.35	22.36	22.34			
50	QPSK	135	0	21.45	21.58	21.50	23.0	1.0	
50	QPSK	135	68	22.49	22.55	22.52	24.0	0.0	
50	QPSK	135	135	21.44	21.57	21.47	23.0	1.0	
50	QPSK	270	0	21.80	21.85	21.83			
50	16QAM	1	1	21.08	21.14	21.11	23.0	1.0	
50	64QAM	1	1	19.70	19.75	19.74	21.5	2.5	
50	256QAM	1	1	18.28	18.35	18.30	19.5	4.5	
Channel				504000	507000	510000			
Frequency (MHz)				2620	2635	2650			
40	QPSK	1	1	22.48	22.51	22.48	24.0	0.0	
Channel				503000	507000	510500			
Frequency (MHz)				2617.5	2635	2652.5			
35	QPSK	1	1	22.50	22.47	22.53	24.0	0.0	
Channel				503000	507000	511000			
Frequency (MHz)				2615	2635	2655			
30	QPSK	1	1	22.46	22.53	22.47	24.0	0.0	
Channel				502500	507000	511500			
Frequency (MHz)				2612.5	2635	2657.5			
25	QPSK	1	1	22.47	22.51	22.51	24.0	0.0	
Channel				502000	507000	512000			
Frequency (MHz)				2610	2635	2660			
20	P12 BPSK	1	1	22.40	22.51	22.47	24.0	0.0	
Channel				501500	507000	512500			
Frequency (MHz)				2607.5	2635	2662.5			
15	QPSK	1	1	22.41	22.54	22.50	24.0	0.0	
Channel				501000	507000	513000			
Frequency (MHz)				2605	2635	2665			
10	QPSK	1	1	22.47	22.48	22.53	24.0	0.0	
Channel				500500	507000	513500			
Frequency (MHz)				2602.5	2635	2667.5			
5	QPSK	1	1	22.51	22.52	22.47	24.0	0.0	

n66 Ant 1 EC14									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	348000	351500			
Frequency (MHz)				1732.5	1745	1757.5			
45	P12 BPSK	1	1	22.61	22.71	22.72	24.0	0.0	
45	P12 BPSK	1	120	22.60	22.62	22.61			
45	P12 BPSK	1	240	22.53	22.70	22.68			
45	P12 BPSK	120	0	22.21	22.35	22.31	23.5	0.5	
45	P12 BPSK	120	60	22.71	22.79	22.76	24.0	0.0	
45	P12 BPSK	120	120	22.23	22.28	22.26	23.5		
45	P12 BPSK	240	0	22.25	22.34	22.28			
45	QPSK	1	1	22.71	22.85	22.72			
45	QPSK	1	120	22.81	22.69	22.85	24.0	0.0	
45	QPSK	1	240	22.58	22.72	22.68			
45	QPSK	120	0	21.89	21.82	21.80	23.0	1.0	
45	QPSK	120	60	22.74	22.80	22.77	24.0	0.0	
45	QPSK	120	120	21.80	21.81	21.79	23.0		
45	QPSK	240	0	21.80	21.85	21.82			
45	16QAM	1	1	21.44	21.50	21.48	23.0	1.0	
45	64QAM	1	1	19.98	20.03	20.00	21.5	2.5	
45	256QAM	1	1	18.59	18.65	18.62	19.5	4.5	
Channel				345000	348000	352000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	22.80	22.80	22.59	24.0	0.0	
Channel				345500	348000	352500			
Frequency (MHz)				1727.5	1745	1762.5			
35	QPSK	1	1	22.81	22.83	22.64	24.0	0.0	
Channel				345000	348000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	22.59	22.74	22.63	24.0	0.0	
Channel				344500	348000	353500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1767.5			
25	QPSK	1	1	22.58	22.74	22.72	24.0	0.0	
Channel				344000	348000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	22.62	22.70	22.65	24.0	0.0	
Channel				343500	348000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	22.64	22.67	22.72	24.0	0.0	
Channel				343000	348000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	22.58	22.67	22.65	24.0	0.0	
Channel				342500	348000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	22.52	22.67	22.69	24.0	0.0	



n2 Ant 4 ECI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				376000	376000	376000	24.0	0.0	
Frequency (MHz)				1870	1880	1890			
40	P12 BPSK	1	1	22.12	22.16	22.07	24.0	0.0	
40	P12 BPSK	1	108	22.14	22.11	22.12			
40	P12 BPSK	1	214	22.06	22.14	22.13			
40	P12 BPSK	198	0	21.67	21.88	21.84	23.5	0.5	
40	P12 BPSK	108	54	22.05	22.15	22.07	24.0	0.0	
40	P12 BPSK	108	108	21.66	21.66	21.63	23.5	0.5	
40	P12 BPSK	216	0	21.62	21.66	21.65	24.0	0.0	
40	QPSK	1	1	22.14	22.16	22.15			
40	QPSK	1	108	22.13	22.16	22.14			
40	QPSK	1	214	22.13	22.17	22.16	23.0	1.0	
40	QPSK	108	0	21.17	21.18	21.16			
40	QPSK	108	54	22.11	22.17	22.14			
40	QPSK	108	108	21.13	21.16	21.09	23.0	1.0	
40	QPSK	216	0	21.16	21.21	21.20	23.0	1.0	
40	16QAM	1	1	21.10	21.14	21.11			
40	64QAM	1	1	19.80	19.87	19.82	21.5	2.5	
40	256QAM	1	1	17.87	18.03	17.89	19.5	4.5	
Channel				372000	376000	376000	Tune-up limit (dBm)	MPR (dB)	
35	QPSK	1	1	22.10	22.08	22.09	24.0	0.0	
Channel				373000	376000	379000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1905	1910	1905	24.0	0.0	
30	QPSK	1	1	22.03	22.09	22.09			
Channel				372500	376000	379500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1867.5	24.0	0.0	
25	QPSK	1	1	22.07	22.12	22.08			
Channel				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1880	1900	24.0	0.0	
20	QPSK	1	1	22.09	22.14	22.09			
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5	24.0	0.0	
15	QPSK	1	1	22.08	22.10	22.09			
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905	24.0	0.0	
10	QPSK	1	1	22.06	22.13	22.12			
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1897.5	24.0	0.0	
5	QPSK	1	1	22.05	22.15	22.07			

n5 Ant 4 ECI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800	24.0	0.0	
Frequency (MHz)				834	836.5	839			
20	P12 BPSK	1	1	22.63	22.67	22.61	24.0	0.0	
20	P12 BPSK	1	53	22.58	22.65	22.60			
20	P12 BPSK	1	104	22.58	22.63	22.57			
20	P12 BPSK	50	0	21.94	22.08	22.02	23.5	0.5	
20	P12 BPSK	50	28	22.38	22.49	22.44	24.0	0.0	
20	P12 BPSK	50	56	21.99	22.09	21.96	23.5	0.5	
20	P12 BPSK	100	0	22.08	22.10	22.06	24.0	0.0	
20	QPSK	1	1	22.64	22.68	22.62			
20	QPSK	1	53	22.64	22.66	22.60			
20	QPSK	1	104	22.64	22.67	22.60	23.0	1.0	
20	QPSK	50	0	21.42	21.56	21.47			
20	QPSK	50	28	22.45	22.55	22.53			
20	QPSK	50	56	21.40	21.53	21.46	23.0	1.0	
20	QPSK	100	0	21.52	21.59	21.52	23.0	1.0	
20	16QAM	1	1	21.33	21.43	21.35			
20	64QAM	1	1	19.93	19.96	19.91	21.5	2.5	
20	256QAM	1	1	18.54	18.61	18.59	19.5	4.5	
Channel				165300	167300	167300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5	24.0	0.0	
15	QPSK	1	1	22.57	22.64	22.58			
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				820	836.5	844	24.0	0.0	
10	QPSK	1	1	22.65	22.68	22.61			
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5	24.0	0.0	
5	QPSK	1	1	22.62	22.63	22.59			

n7 Ant 4 ECI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000	23.0	0.0	
Frequency (MHz)				2525	2535	2545			
50	P12 BPSK	1	1	21.80	21.95	21.84	23.0	0.0	
50	P12 BPSK	1	135	21.83	21.91	21.78			
50	P12 BPSK	1	268	21.73	21.86	21.80			
50	P12 BPSK	135	0	21.39	21.41	21.40	22.5	0.5	
50	P12 BPSK	135	68	21.84	21.93	21.90	23.0	0.0	
50	P12 BPSK	135	135	21.35	21.39	21.37	22.5	0.5	
50	P12 BPSK	270	0	21.40	21.47	21.42	23.0	0.0	
50	QPSK	1	1	21.80	21.96	21.82			
50	QPSK	1	135	21.80	21.94	21.77			
50	QPSK	1	268	21.76	21.95	21.83	22.0	1.0	
50	QPSK	135	0	20.85	20.89	20.87			
50	QPSK	135	68	21.88	21.94	21.91			
50	QPSK	135	135	20.89	20.96	20.91	23.0	0.0	
50	QPSK	270	0	21.00	21.08	21.04	22.0	1.0	
50	16QAM	1	1	20.57	20.62	20.59	22.0	1.0	
50	64QAM	1	1	19.12	19.17	19.15	20.5	2.5	
50	256QAM	1	1	17.70	17.79	17.72	18.5	4.5	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550	23.0	0.0	
40	QPSK	1	1	21.81	21.93	21.73			
Channel				503500	507000	510500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2517.5	2535	2552.5	23.0	0.0	
35	QPSK	1	1	21.89	21.85	21.69			
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	23.0	0.0	
30	QPSK	1	1	21.79	21.92	21.75			
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	23.0	0.0	
25	QPSK	1	1	21.77	21.88	21.82			
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	23.0	0.0	
20	P12 BPSK	1	1	21.80	21.92	21.83			
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	23.0	0.0	
15	QPSK	1	1	21.80	21.90	21.77			
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	23.0	0.0	
10	QPSK	1	1	21.79	21.91	21.84			
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	23.0	0.0	
5	QPSK	1	1	21.72	21.90	21.84			

n26 Ant 4 ECI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				168500	169300	167600		
Frequency (MHz)				824	831.5	839		
20	PI2 BPSK	1	1	22.78	22.84	22.79	24.0	0.0
20	PI2 BPSK	1	53	22.73	22.81	22.83		
20	PI2 BPSK	1	104	22.77	22.94	22.77		
20	PI2 BPSK	50	0	22.06	22.25	22.19	23.5	0.5
20	PI2 BPSK	50	28	22.62	22.71	22.67	24.0	0.0
20	PI2 BPSK	50	58	22.16	22.26	22.22	23.5	0.5
20	PI2 BPSK	100	0	22.05	22.21	22.19	24.0	0.0
20	QPSK	1	1	22.78	22.85	22.81		
20	QPSK	1	53	22.81	22.84	22.81		
20	QPSK	1	104	22.78	22.82	22.80	23.0	1.0
20	QPSK	50	0	21.62	21.68	21.63		
20	QPSK	50	28	22.81	22.70	22.66		
20	QPSK	50	58	21.60	21.74	21.68	23.0	1.0
20	QPSK	100	0	21.72	21.75	21.74	23.0	1.0
20	16QAM	1	1	21.48	21.53	21.49		
20	64QAM	1	1	20.04	20.10	20.07		
20	256QAM	1	1	18.61	18.70	18.65	19.5	4.5
Channel				164300	165000	165300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	22.75	22.80	22.79	24.0	0.0
Channel				163800	166300	166800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				812	831.5	844		
10	QPSK	1	1	22.74	22.70	22.78	24.0	0.0
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	22.70	22.80	22.75	24.0	0.0

n66 Ant 4 ECI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				345000	349000	361500		
Frequency (MHz)				1732.5	1745	1757.5		
45	PI2 BPSK	1	1	22.41	22.50	22.45	24.0	0.0
45	PI2 BPSK	1	120	22.44	22.49	22.46		
45	PI2 BPSK	1	240	22.46	22.42	22.41		
45	PI2 BPSK	120	0	21.92	21.94	21.98	23.5	0.5
45	PI2 BPSK	120	60	22.40	22.44	22.42	24.0	0.0
45	PI2 BPSK	120	120	21.90	21.94	21.98	23.5	0.5
45	PI2 BPSK	240	0	21.92	21.98	21.96	24.0	0.0
45	QPSK	1	1	22.45	22.51	22.48		
45	QPSK	1	120	22.44	22.48	22.46		
45	QPSK	1	240	22.44	22.48	22.44	23.0	1.0
45	QPSK	120	0	21.41	21.51	21.49		
45	QPSK	120	60	22.41	22.48	22.45		
45	QPSK	120	120	21.36	21.46	21.40	23.0	1.0
45	QPSK	240	0	21.48	21.53	21.50	23.0	1.0
45	16QAM	1	1	21.15	21.20	21.14		
45	64QAM	1	1	19.68	19.74	19.72		
45	256QAM	1	1	18.02	18.05	18.00	19.5	4.5
Channel				345000	349000	362000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1730	1745	1760		
40	QPSK	1	1	22.38	22.48	22.37	24.0	0.0
Channel				345000	349000	362500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1727.5	1745	1762.5		
35	QPSK	1	1	22.43	22.45	22.40	24.0	0.0
Channel				345000	349000	363000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	22.44	22.48	22.47	24.0	0.0
Channel				345000	349000	363500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	22.38	22.42	22.40	24.0	0.0
Channel				344000	349000	364000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	22.45	22.49	22.42	24.0	0.0
Channel				345000	349000	364500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	22.42	22.49	22.47	24.0	0.0
Channel				343000	349000	365000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.44	22.45	22.44	24.0	0.0
Channel				342500	349000	365500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	22.38	22.45	22.40	24.0	0.0

n38 Ant 0 ECI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				516004	516000	516996	22.0	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	21.01	21.07	21.07			
40	PI/2 BPSK	1	53	21.01	21.14	21.03	22.0	0.0	
40	PI/2 BPSK	1	104	21.03	21.01	21.09			
40	PI/2 BPSK	50	0	20.55	20.66	20.61		21.5	
40	PI/2 BPSK	50	28	20.97	21.14	21.05	22.0	0.0	
40	PI/2 BPSK	50	56	20.46	20.66	20.58	21.5	0.5	
40	PI/2 BPSK	100	0	20.54	20.54	20.48			
40	QPSK	1	1	21.06	21.23	21.07			
40	QPSK	1	53	21.01	21.13	21.04	22.0	0.0	
40	QPSK	1	104	21.06	21.14	21.05			
40	QPSK	50	0	20.05	20.12	20.05		21.0	
40	QPSK	50	28	21.02	21.12	21.10	22.0	0.0	
40	QPSK	80	56	20.04	20.14	20.14	21.0	1.0	
40	QPSK	100	0	20.08	20.13	20.10			
40	16QAM	1	1	19.58	19.64	19.62	21.0	1.0	
40	64QAM	1	1	18.07	18.10	18.07	19.5	2.5	
40	256QAM	1	1	16.76	16.82	16.71	17.5	4.5	
Channel				517002	516000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	20.98	21.15	20.99	22.0	0.0	
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.52	2595	2607.48			
25	QPSK	1	1	21.05	21.11	21.11	22.0	0.0	
Channel				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	21.04	21.09	21.01	22.0	0.0	
Channel				515502	519000	523498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	21.07	21.10	21.10	22.0	0.0	
Channel				515004	519000	523996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	21.08	21.08	21.07	22.0	0.0	

n41 Ant 0 ECI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518998	526000	22.0	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	21.15	21.24	21.17			
100	PI/2 BPSK	1	137	21.17	21.28	21.13	22.0	0.0	
100	PI/2 BPSK	1	271	21.10	21.19	21.24			
100	PI/2 BPSK	135	0	20.83	20.74	20.72		21.5	
100	PI/2 BPSK	135	69	21.12	21.22	21.12	22.0	0.0	
100	PI/2 BPSK	135	138	20.62	20.76	20.74	21.5	0.5	
100	PI/2 BPSK	270	0	20.65	20.71	20.65			
100	QPSK	1	1	21.16	21.26	21.22			
100	QPSK	1	137	21.15	21.27	21.14	22.0	0.0	
100	QPSK	1	271	21.17	21.26	21.21			
100	QPSK	135	0	20.16	20.24	20.23		21.0	
100	QPSK	135	69	21.18	21.25	21.20	22.0	0.0	
100	QPSK	135	138	20.16	20.22	20.21	21.0	1.0	
100	QPSK	270	0	20.22	20.29	20.25			
100	16QAM	1	1	19.68	19.74	19.71	21.0	1.0	
100	64QAM	1	1	18.21	18.27	18.24	19.5	2.5	
100	256QAM	1	1	16.87	16.91	16.88	17.5	4.5	
Channel				506002	518998	526000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.15	21.23	21.17	22.0	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2530.02	2592.99	2649.99			
80	QPSK	1	1	21.11	21.22	21.14	22.0	0.0	
Channel				506002	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2665			
70	QPSK	1	1	21.17	21.21	21.20	22.0	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2669.98			
60	QPSK	1	1	21.14	21.26	21.14	22.0	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	21.11	21.22	21.17	22.0	0.0	
Channel				503200	518998	533498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2518.5	2592.99	2667.48			
45	QPSK	1	1	21.13	21.24	21.19	22.0	0.0	
Channel				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2513.01	2592.99	2670			
40	QPSK	1	1	21.16	21.24	21.20	22.0	0.0	
Channel				502704	518998	534498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2513.52	2592.99	2672.49			
35	QPSK	1	1	21.12	21.20	21.15	22.0	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	21.19	21.24	21.14	22.0	0.0	
Channel				501702	518998	535500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2508.51	2592.99	2677.5			
25	QPSK	1	1	21.11	21.21	21.13	22.0	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.15	21.21	21.22	22.0	0.0	
Channel				500700	518998	536498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.15	2592.99	2682.48			
15	QPSK	1	1	21.10	21.23	21.25	22.0	0.0	
Channel				500202	518998	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	21.08	21.28	21.19	22.0	0.0	

n38 Ant 1 ECI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996	24.0	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	22.53	22.59	22.57			
40	PI/2 BPSK	1	53	22.49	22.54	22.58	24.0	0.0	
40	PI/2 BPSK	1	104	22.46	22.54	22.52			
40	PI/2 BPSK	50	0	22.17	22.22	22.15		23.5	
40	PI/2 BPSK	50	28	22.57	22.61	22.58	24.0	0.0	
40	PI/2 BPSK	50	56	22.07	22.20	22.18	23.5	0.5	
40	PI/2 BPSK	100	0	22.16	22.20	22.17	24.0	0.0	
40	QPSK	1	1	22.58	22.76	22.59			
40	QPSK	1	53	22.53	22.57	22.56			
40	QPSK	1	104	22.49	22.55	22.52	23.0	1.0	
40	QPSK	50	0	21.58	21.70	21.66			
40	QPSK	50	28	22.62	22.67	22.63			
40	QPSK	80	56	21.65	21.67	21.59	23.0	1.0	
40	QPSK	100	0	21.60	21.68	21.65	23.0	1.0	
40	16QAM	1	1	21.27	21.32	21.29			
40	64QAM	1	1	19.81	19.89	19.88	21.5	2.5	
40	256QAM	1	1	18.46	18.53	18.50	19.5	4.5	
Channel				517002	518000	518998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	22.58	22.59	22.53	24.0	0.0	
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.52	2595	2607.48			
25	QPSK	1	1	22.52	22.60	22.55	24.0	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	22.50	22.55	22.52	24.0	0.0	
Channel				515502	519000	524998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	22.52	22.59	22.57	24.0	0.0	
Channel				515004	519000	525996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	22.53	22.57	22.53	24.0	0.0	

n41 Ant 1 ECI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518998	526000	24.0	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	22.54	22.78	22.55			
100	PI/2 BPSK	1	137	22.51	22.74	22.48	24.0	0.0	
100	PI/2 BPSK	1	271	22.52	22.78	22.52			
100	PI/2 BPSK	135	0	22.08	22.29	22.10		23.5	
100	PI/2 BPSK	135	69	22.51	22.80	22.46	24.0	0.0	
100	PI/2 BPSK	135	138	22.06	22.34	22.06	23.5	0.5	
100	PI/2 BPSK	270	0	22.15	22.35	22.02	24.0	0.0	
100	QPSK	1	1	22.58	22.85	22.58			
100	QPSK	1	137	22.59	22.80	22.52			
100	QPSK	1	271	22.50	22.82	22.56	23.0	1.0	
100	QPSK	135	0	21.61	21.82	21.54			
100	QPSK	135	69	22.60	22.84	22.54			
100	QPSK	135	138	21.58	21.84	21.58	23.0	1.0	
100	QPSK	270	0	21.65	21.87	21.57	23.0	1.0	
100	16QAM	1	1	21.33	21.41	21.35			
100	64QAM	1	1	19.82	19.93	19.88	21.5	2.5	
100	256QAM	1	1	18.50	18.59	18.51	19.5	4.5	
Channel				505000	518998	525998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	22.59	22.76	22.59	24.0	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2649.99			
80	QPSK	1	1	22.57	22.77	22.56	24.0	0.0	
Channel				506202	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2665			
70	QPSK	1	1	22.53	22.78	22.53	24.0	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2664.98			
60	QPSK	1	1	22.53	22.81	22.53	24.0	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	22.57	22.79	22.53	24.0	0.0	
Channel				503200	518998	533998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2518.5	2592.99	2667.48			
45	QPSK	1	1	22.56	22.77	22.54	24.0	0.0	
Channel				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2513.01	2592.99	2670			
40	QPSK	1	1	22.53	22.73	22.50	24.0	0.0	
Channel				502704	518998	534498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2513.52	2592.99	2672.49			
35	QPSK	1	1	22.55	22.75	22.55	24.0	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	22.50	22.78	22.53	24.0	0.0	
Channel				501702	518998	535500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2508.51	2592.99	2677.5			
25	QPSK	1	1	22.56	22.70	22.50	24.0	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	22.50	22.82	22.57	24.0	0.0	
Channel				500700	518998	536498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	22.54	22.77	22.60	24.0	0.0	
Channel				500202	518998	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	22.60	22.77	22.54	24.0	0.0	

n38 Ant 2 ECI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				516004	519000	519996	19.5	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	18.40	18.43	18.22			
40	PI2 BPSK	1	53	18.38	18.46	18.26	19.5	0.0	
40	PI2 BPSK	1	104	18.38	18.40	18.35			
40	PI2 BPSK	50	0	18.32	18.36	18.20			
40	PI2 BPSK	50	28	18.27	18.33	18.18	19.5	0.0	
40	PI2 BPSK	50	56	18.23	18.39	18.27			
40	PI2 BPSK	100	0	18.22	18.39	18.21			
40	QPSK	1	1	18.36	18.51	18.25	19.5	0.0	
40	QPSK	1	53	18.46	18.46	18.26			
40	QPSK	1	104	18.30	18.45	18.23			
40	QPSK	50	0	17.79	17.82	17.57	19.0	0.5	
40	QPSK	50	28	18.26	18.29	18.25			
40	QPSK	50	56	17.82	17.82	17.75			
40	QPSK	100	0	17.83	17.84	17.84	19.0	0.5	
40	16QAM	1	1	17.76	17.78	17.79			
40	64QAM	1	1	18.36	16.37	16.26			
40	256QAM	1	1	14.79	14.99	14.71	15.5		
Channel				517002	519000	520998	19.5	MPR	
Frequency (MHz)				2595.01	2595	2604.99			
30	QPSK	1	1	18.44	18.34	18.18			
Channel				516504	519000	521496	19.5	MPR	
Frequency (MHz)				2592.52	2595	2607.48			
25	QPSK	1	1	18.48	18.41	18.23			
Channel				516000	519000	520000	19.5	MPR	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	18.44	18.42	18.23			
Channel				515502	519000	522498	19.5	MPR	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	18.41	18.44	18.17			
Channel				515004	519000	522996	19.5	MPR	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	18.44	18.36	18.16			

n41 Ant 2 ECI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506202	518998	520000	19.5	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	18.47	18.52	18.35			
100	PI2 BPSK	1	137	18.50	18.55	18.39	19.5	0.0	
100	PI2 BPSK	1	271	18.45	18.52	18.43			
100	PI2 BPSK	135	0	18.40	18.47	18.33			
100	PI2 BPSK	135	69	18.39	18.45	18.29	19.5	0.0	
100	PI2 BPSK	135	138	18.36	18.49	18.37			
100	PI2 BPSK	270	0	18.37	18.46	18.35			
100	QPSK	1	1	18.54	18.58	18.36	19.5	0.0	
100	QPSK	1	137	18.53	18.56	18.34			
100	QPSK	1	271	18.47	18.55	18.38			
100	QPSK	135	0	17.87	18.00	17.75	19.0	0.5	
100	QPSK	135	69	18.37	18.43	18.35			
100	QPSK	135	138	17.94	17.85	17.83			
100	QPSK	270	0	18.00	18.06	18.01	19.0	0.5	
100	16QAM	1	1	17.91	17.95	17.86			
100	64QAM	1	1	18.44	16.46	16.40			
100	256QAM	1	1	14.95	15.13	14.88	15.5		
Channel				506202	518998	520998	19.5	MPR	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	18.54	18.51	18.29		19.5	
Channel				507204	518998	520998	19.5	MPR	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	18.45	18.48	18.31		19.5	
Channel				506202	518998	521000	19.5	MPR	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	18.44	18.48	18.38		19.5	
Channel				505200	518998	521998	19.5	MPR	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	18.44	18.52	18.34		19.5	
Channel				504204	518998	522998	19.5	MPR	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	18.53	18.47	18.28		19.5	
Channel				503200	518998	523998	19.5	MPR	
Frequency (MHz)				2516.01	2592.99	2674.98			
45	QPSK	1	1	18.52	18.54	18.28		20.0	
Channel				503202	518998	524000	19.5	MPR	
Frequency (MHz)				2510.01	2592.99	2670			
40	QPSK	1	1	18.44	18.50	18.31		19.5	
Channel				502704	518998	524498	19.5	MPR	
Frequency (MHz)				2513.52	2592.99	2672.49			
35	QPSK	1	1	18.54	18.56	18.32		20.0	
Channel				502200	518998	524998	19.5	MPR	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	18.43	18.56	18.33		19.5	
Channel				501702	518998	525998	19.5	MPR	
Frequency (MHz)				2508.51	2592.99	2677.5			
25	QPSK	1	1	18.42	18.56	18.26		20.0	
Channel				501204	518998	526998	19.5	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	18.43	18.48	18.28		19.5	
Channel				500700	518998	526496	19.5	MPR	
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	18.45	18.46	18.28		19.5	
Channel				500202	518998	527000	19.5	MPR	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	18.52	18.48	18.36		19.5	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	22.28	22.44	22.11	24.0	0.0
100	P12 BPSK	1	137	22.23	22.42	22.14		
100	P12 BPSK	1	271	22.24	22.37	22.12		
100	P12 BPSK	135	0	22.28	22.30	22.16		
100	P12 BPSK	135	69	22.29	22.35	22.30	24.0	0.0
100	P12 BPSK	135	138	22.31	22.22	22.24	24.0	0.0
100	P12 BPSK	270	0	22.31	22.31	22.21	24.0	0.0
100	QPSK	1	1	22.30	22.46	22.11		
100	QPSK	1	137	22.23	22.42	22.13		
100	QPSK	1	271	22.23	22.40	22.12		
100	QPSK	135	0	22.31	22.35	22.25	24.0	0.0
100	QPSK	135	69	22.34	22.38	22.30	24.0	0.0
100	QPSK	135	138	22.30	22.31	22.29	24.0	0.0
100	QPSK	270	0	22.29	22.35	22.22	24.0	0.0
100	16QAM	1	1	22.20	22.29	22.24	24.0	0.0
100	64QAM	1	1	22.28	22.32	22.30	24.0	0.0
100	256QAM	1	1	21.42	21.44	21.38	23.0	1.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.25	22.39	22.09	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.53	22.45	22.11	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.26	22.42	22.07	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.24	22.43	22.04	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.23	22.45	22.13	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.27	22.42	22.14	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.22	22.42	22.07	24.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	22.24	22.38	22.08	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.33	22.44	22.07	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.32	22.39	22.03	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.22	22.45	22.11	24.0	0.0

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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)	MPR (dB)		
Channel										
Frequency (MHz)										
				65000	65600	66200				
				3750	3840	3930				
100	P12 BPSK	1		25.45	25.51	25.17	27.0	0.0		
100	P12 BPSK	1	137	25.43	25.53	25.09				
100	P12 BPSK	1	271	25.42	25.51	25.13				
100	P12 BPSK	135	0	24.88	24.94	24.92				
100	P12 BPSK	135	69	25.38	25.45	25.36	27.0	0.0		
100	P12 BPSK	135	138	24.88	24.98	24.89	26.5	0.5		
100	P12 BPSK	270	0	24.92	24.93	24.90	27.0	0.0		
100	QPSK	1	1	25.51	25.54	25.16				
100	QPSK	1	137	25.45	25.52	25.14				
100	QPSK	1	271	25.51	25.50	25.11				
100	QPSK	135	0	24.40	24.44	24.43	26.0	1.0		
100	QPSK	135	69	25.40	25.45	25.38	27.0	0.0		
100	QPSK	135	138	24.43	24.46	24.39	26.0	1.0		
100	QPSK	270	0	24.44	24.46	24.42	26.0	1.0		
100	16QAM	1	1	24.18	24.27	24.23				
100	64QAM	1	1	22.81	22.86	22.85				
100	256QAM	1	1	21.38	21.45	21.41				
Channel										
Frequency (MHz)										
90	QPSK	1	1	25.44	25.51	25.17	27.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	64930	65000	65066	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
70	QPSK	1	1	25.50	25.49	25.13	27.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	64800	65000	65300	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
50	QPSK	1	1	63700	64900	65400	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
40	QPSK	1	1	63500	64800	65100	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
30	QPSK	1	1	63300	64600	64900	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
25	QPSK	1	1	63150	64500	64850	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	1	63000	64400	64800	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	1	62850	64300	64750	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	1	62700	64200	64700	Tune-up limit (dBm)	MPR (dB)		

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	3750	3750	3750	24.0	0.0
100	P12 BPSK	1	137	22.36	22.36	22.36		
100	P12 BPSK	1	271	22.30	22.36	22.36		
100	P12 BPSK	135	0	22.37	22.36	22.36		
100	P12 BPSK	135	69	22.37	22.37	22.37	24.0	0.0
100	P12 BPSK	135	138	22.31	22.31	22.31	24.0	0.0
100	P12 BPSK	270	0	22.31	22.31	22.31	24.0	0.0
100	QPSK	1	1	22.42	22.36	22.36		
100	QPSK	1	137	22.37	22.37	22.37		
100	QPSK	1	271	22.39	22.39	22.39		
100	QPSK	135	0	22.36	22.36	22.36	24.0	0.0
100	QPSK	135	69	22.37	22.37	22.37	24.0	0.0
100	QPSK	135	138	22.35	22.35	22.35	24.0	0.0
100	QPSK	270	0	22.37	22.37	22.37	24.0	0.0
100	16QAM	1	1	22.24	22.24	22.24	24.0	0.0
100	64QAM	1	1	22.08	22.08	22.08	24.0	0.0
100	256QAM	1	1	21.23	21.23	21.23	23.0	1.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	34968	65000	65034	Tune-up limit	MPR
Channel								
Frequency (MHz)								
90	QPSK	1	1	3745.02	3750	3755.01	Tune-up limit	MPR
Channel								
Frequency (MHz)								
80	QPSK	1	1	34934	65000	65068	Tune-up limit	MPR
Channel								
Frequency (MHz)								
80	QPSK	1	1	3740.01	3750	3760.02	Tune-up limit	MPR
Channel								
Frequency (MHz)								
70	QPSK	1	1	34900	65000	65100	Tune-up limit	MPR
Channel								
Frequency (MHz)								
70	QPSK	1	1	3735	3750	3765	Tune-up limit	MPR
Channel								
Frequency (MHz)								
60	QPSK	1	1	34868	65000	65132	Tune-up limit	MPR
Channel								
Frequency (MHz)								
60	QPSK	1	1	3730.02	3750	3770.01	Tune-up limit	MPR
Channel								
Frequency (MHz)								
50	QPSK	1	1	34834	65000	65166	Tune-up limit	MPR
Channel								
Frequency (MHz)								
50	QPSK	1	1	3726.01	3750	3775.02	Tune-up limit	MPR
Channel								
Frequency (MHz)								
40	QPSK	1	1	34800	65000	65200	Tune-up limit	MPR
Channel								
Frequency (MHz)								
40	QPSK	1	1	3720	3750	3780	Tune-up limit	MPR
Channel								
Frequency (MHz)								
30	QPSK	1	1	34768	65000	65234	Tune-up limit	MPR
Channel								
Frequency (MHz)								
30	QPSK	1	1	3715.02	3750	3765.01	Tune-up limit	MPR
Channel								
Frequency (MHz)								
25	QPSK	1	1	34750	65000	65220	Tune-up limit	MPR
Channel								
Frequency (MHz)								
25	QPSK	1	1	3712.5	3750	3767.5	Tune-up limit	MPR
Channel								
Frequency (MHz)								
20	QPSK	1	1	34724	65000	65268	Tune-up limit	MPR
Channel								
Frequency (MHz)								
20	QPSK	1	1	3710.01	3750	3760.02	Tune-up limit	MPR
Channel								
Frequency (MHz)								
15	QPSK	1	1	34720	65000	65280	Tune-up limit	MPR
Channel								
Frequency (MHz)								
15	QPSK	1	1	3707.52	3750	3762.51	Tune-up limit	MPR
Channel								
Frequency (MHz)								
10	QPSK	1	1	34700	65000	65300	Tune-up limit	MPR
Channel								
Frequency (MHz)								
10	QPSK	1	1	3705	3750	3795	Tune-up limit	MPR

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq 650000	Power Middle Ch / Freq 650000	Power High Ch / Freq 650000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		25.41			
100	PI/2 BPSK	1	137		25.38		27.0	0.0
100	PI/2 BPSK	1	271		25.39			
100	PI/2 BPSK	135	0		24.87		28.5	0.5
100	PI/2 BPSK	135	69		25.40		27.0	0.0
100	PI/2 BPSK	135	138		24.88		28.5	0.5
100	PI/2 BPSK	270	0		24.86			
100	QPSK	1	1		25.43			
100	QPSK	1	137		25.39		27.0	0.0
100	QPSK	1	271		25.40			
100	QPSK	135	0		24.33		28.0	1.0
100	QPSK	135	69		25.41		27.0	0.0
100	QPSK	135	138		24.36		28.0	1.0
100	QPSK	270	0		24.38			
100	16QAM	1	1		24.18		28.0	1.0
100	64QAM	1	1		22.68		24.5	2.5
100	256QAM	1	1		21.30		22.5	4.5
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	25.33	25.39	25.36	27.0	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	25.29	25.39	25.34	27.0	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	25.24	25.39	25.29	27.0	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	25.35	25.38	25.39	27.0	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	25.32	25.34	25.37	27.0	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	25.34	25.36	25.27	27.0	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	25.34	25.40	25.30	27.0	0.0
Channel				647500	650000	652500		
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	25.35	25.35	25.39	27.0	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	25.35	25.39	25.35	27.0	0.0
Channel				647188	650000	652834		
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	25.28	25.34	25.28	27.0	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	25.33	25.36	25.27	27.0	0.0

n38 Ant 4 ECI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				516004	519000	519996	24.0	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	22.11	22.19	22.17			
40	PI/2 BPSK	1	53	22.04	22.12	22.11	24.0	0.0	
40	PI/2 BPSK	1	104	22.06	22.16	22.02			
40	PI/2 BPSK	50	0	21.59	21.72	21.68		23.5	
40	PI/2 BPSK	50	28	22.03	22.19	22.09	24.0	0.0	
40	PI/2 BPSK	50	56	21.66	21.72	21.61	23.5	0.5	
40	PI/2 BPSK	100	0	21.63	21.73	21.64	24.0	0.0	
40	QPSK	1	1	22.12	22.30	22.14			
40	QPSK	1	53	22.06	22.13	22.11			
40	QPSK	1	104	22.14	22.15	22.10	23.0	1.0	
40	QPSK	50	0	21.10	21.21	21.16			
40	QPSK	50	28	22.23	22.28	22.26			
40	QPSK	80	56	21.06	21.22	21.16	23.0	1.0	
40	QPSK	100	0	21.25	21.29	21.27			
40	16QAM	1	1	21.11	21.18	21.14	23.0	1.0	
40	64QAM	1	1	19.79	19.87	19.82	21.5	2.5	
40	256QAM	1	1	18.02	18.10	18.06	19.5	4.5	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2595.01	2595	2604.99	24.0	0.0	
30	QPSK	1	1	22.05	22.15	22.17			
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.52	2595	2607.48	24.0	0.0	
25	QPSK	1	1	22.10	22.13	22.15			
Channel				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610	24.0	0.0	
20	QPSK	1	1	22.04	22.10	22.05			
Channel				515502	519000	523498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49	24.0	0.0	
15	QPSK	1	1	22.15	22.16	22.14			
Channel				515004	519000	523996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98	24.0	0.0	
10	QPSK	1	1	22.10	22.16	22.12			

n41 Ant 4 ECI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518998	520000	24.0	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	22.21	22.26	22.14			
100	PI/2 BPSK	1	137	22.15	22.24	22.11	24.0	0.0	
100	PI/2 BPSK	1	271	22.18	22.18	22.10			
100	PI/2 BPSK	135	0	21.73	21.86	21.70		23.5	
100	PI/2 BPSK	135	69	22.24	22.33	22.22	24.0	0.0	
100	PI/2 BPSK	135	138	21.78	21.82	21.78	23.5	0.5	
100	PI/2 BPSK	270	0	21.77	21.80	21.76	24.0	0.0	
100	QPSK	1	1	22.22	22.38	22.19			
100	QPSK	1	137	22.15	22.27	22.13			
100	QPSK	1	271	22.19	22.23	22.14	23.0	1.0	
100	QPSK	135	0	21.27	21.29	21.20			
100	QPSK	135	69	22.29	22.34	22.25			
100	QPSK	135	138	21.25	21.31	21.30	23.0	1.0	
100	QPSK	270	0	21.30	21.33	21.27			
100	16QAM	1	1	21.23	21.25	21.20	23.0	1.0	
100	64QAM	1	1	19.92	19.98	19.87	21.5	2.5	
100	256QAM	1	1	18.20	18.24	18.22	19.5	4.5	
Channel				506002	518998	520000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	24.0	0.0	
90	QPSK	1	1	22.17	22.25	22.13			
Channel				507204	518998	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2648.99	24.0	0.0	
80	QPSK	1	1	22.15	22.27	22.19			
Channel				506002	518998	521000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655	24.0	0.0	
70	QPSK	1	1	22.20	22.25	22.19			
Channel				505200	518998	521998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98	24.0	0.0	
60	QPSK	1	1	22.19	22.25	22.18			
Channel				504204	518998	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	24.0	0.0	
50	QPSK	1	1	22.14	22.22	22.13			
Channel				503700	518998	523498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2518.5	2592.99	2667.48	24.0	0.0	
45	QPSK	1	1	22.08	22.17	22.14			
Channel				503202	518998	524000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2513.01	2592.99	2670	24.0	0.0	
40	QPSK	1	1	22.21	22.25	22.11			
Channel				502704	518998	524498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2513.52	2592.99	2672.49	24.0	0.0	
35	QPSK	1	1	22.08	22.20	22.15			
Channel				502200	518998	524998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98	24.0	0.0	
30	QPSK	1	1	22.15	22.27	22.14			
Channel				501702	518998	525500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2508.51	2592.99	2677.5	24.0	0.0	
25	QPSK	1	1	22.15	22.25	22.15			
Channel				501204	518998	525998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	24.0	0.0	
20	QPSK	1	1	22.14	22.26	22.22			
Channel				500700	518998	526496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48	24.0	0.0	
15	QPSK	1	1	22.11	22.22	22.12			
Channel				500202	518998	527000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685	24.0	0.0	
10	QPSK	1	1	22.22	22.20	22.10			



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	22.39	22.31	22.27	24.0	0.0
100	P12 BPSK	1	137	22.29	22.38	22.32		
100	P12 BPSK	1	271	22.36	22.37	22.28		
100	P12 BPSK	135	0	21.92	21.93	21.90	23.5	0.5
100	P12 BPSK	135	69	22.29	22.32	22.35	24.0	0.0
100	P12 BPSK	135	138	21.96	21.94	21.86	23.5	0.5
100	P12 BPSK	270	0	21.97	21.91	21.84	24.0	0.0
100	QPSK	1	1	22.42	22.40	22.38		
100	QPSK	1	137	22.37	22.32	22.35		
100	QPSK	1	271	22.40	22.31	22.36	23.0	1.0
100	QPSK	135	0	21.35	21.43	21.36		
100	QPSK	135	69	22.29	22.39	22.30		
100	QPSK	135	138	21.35	21.46	21.26	23.0	1.0
100	QPSK	270	0	21.38	21.48	21.39	23.0	1.0
100	16QAM	1	1	21.27	21.42	21.27		
100	16QAM	1	1	19.93	19.97	19.86		
100	256QAM	1	1	17.93	17.91	17.89	19.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.29	22.39	22.30	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.31	22.34	22.30	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.36	22.38	22.33	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.28	22.33	22.27	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.31	22.33	22.29	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.32	22.37	22.34	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.33	22.33	22.31	24.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	22.32	22.34	22.23	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.26	22.34	22.28	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.26	22.41	22.26	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.30	22.41	22.31	24.0	0.0

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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)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	16.58	16.52	16.47	17.5	0.0
100	P12 BPSK	1	137	16.54	16.60	16.38		
100	P12 BPSK	1	271	16.56	16.60	16.37		
100	P12 BPSK	135	0	16.19	16.20	15.97	17.0	0.5
100	P12 BPSK	135	69	16.53	16.62	16.52	17.5	0.0
100	P12 BPSK	135	138	16.10	16.12	15.94	17.0	0.5
100	P12 BPSK	270	0	16.00	16.05	15.80	17.5	0.0
100	QPSK	1	1	16.63	16.64	16.39		
100	QPSK	1	137	16.62	16.56	16.42		
100	QPSK	1	271	16.62	16.59	16.30	16.5	1.0
100	QPSK	135	0	15.61	15.66	15.31		
100	QPSK	135	69	16.46	16.62	16.59		
100	QPSK	135	138	15.51	15.54	15.41	16.5	1.0
100	QPSK	270	0	15.59	15.60	15.46	16.5	1.0
100	16QAM	1	1	15.22	15.27	15.31		
100	16QAM	1	1	13.87	13.88	13.81		
100	256QAM	1	1	12.06	12.13	12.06	13.0	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	16.57	16.54	16.27	17.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	16.50	16.52	16.22	17.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	16.54	16.53	16.34	17.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	16.58	16.55	16.30	17.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.59	16.53	16.33	17.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.50	16.61	16.36	17.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.59	16.56	16.30	17.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	16.61	16.57	16.32	17.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.62	16.57	16.36	17.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	16.58	16.56	16.36	17.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	16.51	16.61	16.27	17.5	0.0

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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)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	19.56	19.57	19.50	20.5	0.0
100	P12 BPSK	1	137	19.54	19.58	19.37		
100	P12 BPSK	1	271	19.54	19.56	19.31		
100	P12 BPSK	135	0	19.14	19.15	18.93	20.0	0.5
100	P12 BPSK	135	69	19.50	19.60	19.54	20.5	0.0
100	P12 BPSK	135	138	19.10	19.17	18.89	20.0	0.5
100	P12 BPSK	270	0	19.03	19.07	18.86	20.5	0.0
100	QPSK	1	1	19.59	19.62	19.36		
100	QPSK	1	137	19.56	19.58	19.36		
100	QPSK	1	271	19.57	19.58	19.33	18.34	1.0
100	QPSK	135	0	18.56	18.62	18.34		
100	QPSK	135	69	19.51	19.58	19.53		
100	QPSK	135	138	18.35	18.60	18.42	19.5	1.0
100	QPSK	270	0	18.55	18.58	18.52	18.34	1.0
100	16QAM	1	1	18.28	18.32	18.29		
100	16QAM	1	1	16.81	16.89	16.85		
100	256QAM	1	1	15.01	15.07	15.02	16.0	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.46	19.50	19.36	20.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.49	19.54	19.31	20.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.51	19.51	19.27	20.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.55	19.50	19.32	20.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.50	19.53	19.28	20.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.48	19.57	19.34	20.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.56	19.55	19.56	20.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	19.46	19.55	19.31	20.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.47	19.58	19.35	20.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.52	19.54	19.34	20.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.56	19.54	19.34	20.5	0.0



Part270 n78 Ant 5 EC14									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	Pl2 BPSK	1	1		22.18				
100	Pl2 BPSK	1	137		22.28				
100	Pl2 BPSK	1	271		22.29		24.0		
100	Pl2 BPSK	135	0		21.86		23.5	0.5	
100	Pl2 BPSK	135	69		22.28		24.0	0.0	
100	Pl2 BPSK	135	138		21.83		23.5	0.5	
100	Pl2 BPSK	270	0		21.79				
100	QPSK	1	1		22.34				
100	QPSK	1	137		22.18		24.0	0.0	
100	QPSK	1	271		22.18				
100	QPSK	135	0		21.38		23.0	1.0	
100	QPSK	135	69		22.32		24.0	0.0	
100	QPSK	135	138		21.32		23.0	1.0	
100	QPSK	270	0		21.43				
100	16QAM	1	1		21.35		23.0	1.0	
100	64QAM	1	1		19.88		21.5	2.5	
100	256QAM	1	1		17.77		19.5	4.5	
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		22.16	22.32	22.19	24.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		22.24	22.25	22.20	24.0	
Channel				648900	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		22.19	22.30	22.22	24.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		22.21	22.29	22.23	24.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		22.17	22.30	22.23	24.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		22.19	22.25	22.20	24.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		22.23	22.31	22.18	24.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1		22.23	22.33	22.20	24.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		22.23	22.25	22.21	24.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1		22.23	22.29	22.28	24.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		22.24	22.28	22.23	24.0	

Part270 n78 other PA Ant 5 EC14									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	Pl2 BPSK	1	1		16.37				
100	Pl2 BPSK	1	137		16.44		17.5	0.0	
100	Pl2 BPSK	1	271		16.30				
100	Pl2 BPSK	135	0		16.13		17.0	0.5	
100	Pl2 BPSK	135	69		16.55		17.5	0.0	
100	Pl2 BPSK	135	138		16.02		17.0	0.5	
100	Pl2 BPSK	270	0		15.95				
100	QPSK	1	1		16.08				
100	QPSK	1	137		16.44		17.5	0.0	
100	QPSK	1	271		16.45				
100	QPSK	135	0		15.59		16.5	1.0	
100	QPSK	135	69		16.54		17.5	0.0	
100	QPSK	135	138		15.47		16.5	1.0	
100	QPSK	270	0		15.49				
100	16QAM	1	1		15.15		16.5	1.0	
100	64QAM	1	1		13.78		15.0	2.5	
100	256QAM	1	1		12.03		13.0	4.5	
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		16.48	16.41	16.19	17.5	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		16.51	16.46	16.21	17.5	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		16.47	16.42	16.18	17.5	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		16.52	16.41	16.22	17.5	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		16.52	16.41	16.17	17.5	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		16.52	16.46	16.22	17.5	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		16.45	16.46	16.16	17.5	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1		16.47	16.44	16.15	17.5	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		16.45	16.43	16.12	17.5	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1		16.42	16.43	16.19	17.5	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		16.47	16.43	16.21	17.5	

Part270 n78 other PA HPUE Ant 5 EC14									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	Pl2 BPSK	1	1		19.46				
100	Pl2 BPSK	1	137		19.49		20.5	0.0	
100	Pl2 BPSK	1	271		19.41				
100	Pl2 BPSK	135	0		19.07		20.0	0.5	
100	Pl2 BPSK	135	69		19.45		20.5	0.0	
100	Pl2 BPSK	135	138		19.08		20.0	0.5	
100	Pl2 BPSK	270	0		18.98				
100	QPSK	1	1		19.35				
100	QPSK	1	137		19.43		20.5	0.0	
100	QPSK	1	271		19.52				
100	QPSK	135	0		18.47		19.5	1.0	
100	QPSK	135	69		19.45		20.5	0.0	
100	QPSK	135	138		18.49		19.5	1.0	
100	QPSK	270	0		18.50				



Part270 n77 Ant 7 ECI4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PV2 BPSK	1	1	22.58	22.40	22.51	24.0	0.0
100	PV2 BPSK	1	137	22.43	22.47	22.45		
100	PV2 BPSK	1	271	22.54	22.61	22.57	23.5	0.5
100	PV2 BPSK	135	0	22.07	22.11	22.04		
100	PV2 BPSK	135	69	22.41	22.43	22.54	24.0	0.0
100	PV2 BPSK	135	138	22.18	22.23	22.13	23.5	0.5
100	PV2 BPSK	270	0	22.09	22.13	21.98		
100	QPSK	1	1	22.59	22.66	22.62	24.0	0.0
100	QPSK	1	137	22.52	22.45	22.53		
100	QPSK	1	271	22.63	22.51	22.57	23.0	1.0
100	QPSK	135	0	21.50	21.64	21.55		
100	QPSK	135	69	22.47	22.63	22.50	24.0	0.0
100	QPSK	135	138	21.54	21.66	21.45	23.0	1.0
100	QPSK	270	0	21.06	21.67	21.54		
100	16QAM	1	1	21.50	21.60	21.40	23.0	1.0
100	64QAM	1	1	20.16	20.16	20.03	21.5	2.5
100	256QAM	1	1	18.14	18.09	18.16	19.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.52	22.56	22.48	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.48	22.54	22.50	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.51	22.50	22.43	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.48	22.54	22.53	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.55	22.50	22.49	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.56	22.57	22.52	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.53	22.56	22.48	24.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	22.48	22.49	22.52	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.54	22.50	22.46	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.52	22.57	22.45	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.51	22.56	22.44	24.0	0.0

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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)	MPR (dB)
Channel								
Frequency (MHz)								
100	PV2 BPSK	1	1	19.79	19.82	19.70	20.5	0.0
100	PV2 BPSK	1	137	19.80	19.82	19.81		
100	PV2 BPSK	1	271	19.76	19.78	19.71	20.0	0.5
100	PV2 BPSK	135	0	19.22	19.31	19.14		
100	PV2 BPSK	135	69	19.66	19.71	19.65	20.5	0.0
100	PV2 BPSK	135	138	19.27	19.27	19.23	20.0	0.5
100	PV2 BPSK	270	0	19.26	19.27	19.22		
100	QPSK	1	1	19.81	19.83	19.78	20.5	0.0
100	QPSK	1	137	19.76	19.78	19.74		
100	QPSK	1	271	19.76	19.80	19.70	19.5	1.0
100	QPSK	135	0	18.75	18.79	18.64		
100	QPSK	135	69	19.74	19.76	19.70	20.5	0.0
100	QPSK	135	138	18.73	18.78	18.75	19.5	1.0
100	QPSK	270	0	18.77	18.75	18.68		
100	16QAM	1	1	18.68	18.72	18.61	19.5	1.0
100	64QAM	1	1	17.20	17.24	17.16	18.0	2.5
100	256QAM	1	1	15.06	15.13	15.01	16.0	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.82	19.82	19.72	20.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.76	19.75	19.70	20.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.82	19.82	19.72	20.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.81	19.77	19.76	20.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.79	19.78	19.76	20.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.73	19.79	19.75	20.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.77	19.77	19.72	20.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	19.76	19.79	19.77	20.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.82	19.77	19.76	20.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.75	19.76	19.75	20.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.74	19.75	19.81	20.5	0.0

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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)	MPR (dB)
Channel								
Frequency (MHz)								
				3750	3840	3930		
100	PV2 BPSK	1	1	22.51	22.23	22.44	23.5	0.0
100	PV2 BPSK	1	137	22.27	22.32	22.34		
100	PV2 BPSK	1	271	22.44	22.55	22.46		
100	PV2 BPSK	135	0	21.99	21.96	21.92	23.0	0.5
100	PV2 BPSK	135	69	22.24	22.32	22.39	23.5	0.0
100	PV2 BPSK	135	138	22.01	22.12	21.97	23.0	0.5
100	PV2 BPSK	270	0	22.00	22.06	21.82		
100	QPSK	1	1	22.42	22.57	22.46	23.5	0.0
100	QPSK	1	137	22.41	22.35	22.45		
100	QPSK	1	271	22.51	22.44	22.50		
100	QPSK	135	0	21.38	21.47	21.43	22.5	1.0
100	QPSK	135	69	22.32	22.56	22.42	23.5	0.0
100	QPSK	135	138	21.40	21.58	21.36		
100	QPSK	270	0	21.58	21.52	21.47	22.5	1.0
100	16QAM	1	1	21.37	21.48	21.33		
100	64QAM	1	1	20.08	20.03	19.94		
100	256QAM	1	1	18.07	17.94	18.10	19.0	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.37	22.50	22.35	23.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.38	22.42	22.34	23.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.43	22.38	22.40	23.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.45	22.40	22.38	23.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.40	22.43	22.37	23.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.42	22.38	22.40	23.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.42	22.38	22.40	23.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	22.43	22.42	22.33	23.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.43	22.40	22.36	23.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.39	22.46	22.32	23.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.35	22.47	22.31	23.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 65000	Power Middle Ch. / Freq. 65000	Power High Ch. / Freq. 65000	Tune-up limit (dBm)	MPR (dB)
Channel				3750	3750	3750	24.0	0.0
Frequency (MHz)								
100	PI2 BPSK	1	1		22.40			
100	PI2 BPSK	1	137		22.48			
100	PI2 BPSK	1	271		22.52			
100	PI2 BPSK	135	0		22.08		23.5	0.5
100	PI2 BPSK	135	69		22.51		24.0	0.0
100	PI2 BPSK	135	138		22.05		23.5	0.5
100	PI2 BPSK	270	0		21.84			
100	QPSK	1	1		22.84			
100	QPSK	1	137		22.38		24.0	0.0
100	QPSK	1	271		22.43			
100	QPSK	135	0		21.82		23.0	1.0
100	QPSK	135	69		22.48		24.0	0.0
100	QPSK	135	138		21.43		23.0	1.0
100	QPSK	270	0		21.82			
100	16QAM	1	1		21.50		23.0	1.0
100	64QAM	1	1		19.99		21.5	2.5
100	256QAM	1	1		18.02		19.5	4.5
Channel				649688	650000	650334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)
90	QPSK	1	1		22.34	22.43	22.40	0.0
Channel				649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	1		22.39	22.41	22.39	0.0
Channel				649000	650000	651000	Tune-up limit	MPR
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)
70	QPSK	1	1		22.33	22.43	22.42	0.0
Channel				648668	650000	651334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)
60	QPSK	1	1		22.44	22.49	22.45	0.0
Channel				648334	650000	651668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)
50	QPSK	1	1		22.34	22.51	22.39	0.0
Channel				648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	1		22.37	22.49	22.36	0.0
Channel				647668	650000	652334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)
30	QPSK	1	1		22.35	22.52	22.37	0.0
Channel				647500	650000	652500	Tune-up limit	MPR
Frequency (MHz)				3712.5	3750	3787.5	(dBm)	(dB)
25	QPSK	1	1		22.34	22.51	22.43	0.0
Channel				647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	1		22.33	22.43	22.45	0.0
Channel				647188	650000	652834	Tune-up limit	MPR
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)
15	QPSK	1	1		22.36	22.48	22.39	0.0
Channel				647000	650000	653000	Tune-up limit	MPR
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)
10	QPSK	1	1		22.38	22.43	22.46	0.0

Part270 n78 other PA Ant 7 EC14

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 65000	Power Middle Ch. / Freq. 65000	Power High Ch. / Freq. 65000	Tune-up limit (dBm)	MPR (dB)
Channel				3750	3750	3750	20.5	0.0
Frequency (MHz)								
100	PI2 BPSK	1	1		19.81			
100	PI2 BPSK	1	137		19.71			
100	PI2 BPSK	1	271		19.68			
100	PI2 BPSK	135	0		19.24		20.0	0.5
100	PI2 BPSK	135	69		19.70		20.5	0.0
100	PI2 BPSK	135	138		19.25		20.0	0.5
100	PI2 BPSK	270	0		19.23			
100	QPSK	1	1		19.82			
100	QPSK	1	137		19.76		20.5	0.0
100	QPSK	1	271		19.76			
100	QPSK	135	0		18.78		19.5	1.0
100	QPSK	135	69		19.72		20.5	0.0
100	QPSK	135	138		18.77		19.5	1.0
100	QPSK	270	0		18.79			
100	16QAM	1	1		18.74		19.5	1.0
100	64QAM	1	1		17.34		18.0	2.5
100	256QAM	1	1		15.19		16.0	4.5
Channel				649688	650000	650334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)
90	QPSK	1	1		19.72	19.77	19.74	0.0
Channel				649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	1		19.83	19.80	19.69	0.0
Channel				649000	650000	651000	Tune-up limit	MPR
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)
70	QPSK	1	1		19.64	19.69	19.68	0.0
Channel				648668	650000	651334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)
60	QPSK	1	1		19.67	19.75	19.70	0.0
Channel				648334	650000	651668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)
50	QPSK	1	1		19.75	19.73	19.69	0.0
Channel				648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	1		19.69	19.76	19.69	0.0
Channel				647668	650000	652334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)
30	QPSK	1	1		19.66	19.76	19.68	0.0
Channel				647500	650000	652500	Tune-up limit	MPR
Frequency (MHz)				3712.5	3750	3787.5	(dBm)	(dB)
25	QPSK	1	1		19.67	19.74	19.68	0.0
Channel				647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	1		19.64	19.74	19.68	0.0
Channel				647188	650000	652834	Tune-up limit	MPR
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)
15	QPSK	1	1		19.68	19.69	19.73	0.0
Channel				647000	650000	653000	Tune-up limit	MPR
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)
10	QPSK	1	1		19.64	19.79	19.75	0.0

Part270 n78 other PA HPUE Ant 7 EC14

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 65000	Power Middle Ch. / Freq. 65000	Power High Ch. / Freq. 65000	Tune-up limit (dBm)	MPR (dB)
Channel				3750	3750	3750		
Frequency (MHz)								
100	PI2 BPSK	1	1		22.28		23.5	0.0
100	PI2 BPSK	1	137		22.39			
100	PI2 BPSK	1	271		22.44			
100	PI2 BPSK	135	0		21.91		23.0	0.5
100	PI2 BPSK	135	69		22.40		23.5	0.0
100	PI2 BPSK	135	138		21.97		23.0	0.5
100	PI2 BPSK	270	0		21.80			
100	QPSK	1	1		22.48			
100	QPSK	1	137		22.38		23.5	0.0
100	QPSK	1	271		22.28			
100	QPSK	135	0		21.52		22.5	1.0
100	QPSK	135	69		22.32		23.5	0.0
100	QPSK	135	138		21.32		22.5	1.0
100	QPSK	270	0		21.46			
100	16QAM	1	1		21.38		22.5	1.0
100	64QAM	1	1		19.89		21.0	2.5
100	256QAM	1	1		17.91		19.0	4.5
Channel				649688	650000	650334	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)
90	QPSK	1	1		22.19	22.34	22.23	0.0
Channel				649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	1		22.17	22.35	22.29	0.0
Channel				649000	650000	651000	Tune-up limit	MPR
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)
70	QPSK	1	1		22.24	22.29	22.23	0.0
Channel				648668	650000	651334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)
60	QPSK	1	1		22.25	22.28	22.25	0.0
Channel				648334	650000	651668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)
50	QPSK	1	1		22.17	22.28	22.25	0.0
Channel				648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	1		22.24	22.28	22.22	0.0
Channel				647668	650000	652334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)
30	QPSK	1	1		22.26	22.30	22.32	0.0
Channel				647500	650000	652500	Tune-up limit	MPR
Frequency (MHz)				3712.5	3750	3787.5	(dBm)	(dB)
25	QPSK	1	1		22.20	22.35	22.29	0.0
Channel				647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	1		22.17	22.36	22.30	0.0
Channel				647168	650000	652834	Tune-up limit	MPR
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)
15	QPSK	1	1		22.18	22.36	22.29	0.0
Channel				647000	650000	653000	Tune-up limit	MPR
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)
10	QPSK	1	1		22.17	22.32	22.24	0.0

Part270 n77 PC2&PC3 Ant 9 EC14

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				65000	65000	65000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	21.35	21.40	21.24	22.6	0.0
100	PI/2 BPSK	1	137	21.35	21.37	21.26		
100	PI/2 BPSK	1	271	21.27	21.33	21.20		
100	PI/2 BPSK	135	0	21.30	21.38	21.34		
100	PI/2 BPSK	135	69	21.36	21.37	21.32	22.6	0.0
100	PI/2 BPSK	135	138	21.27	21.35	21.32	22.6	0.0
100	PI/2 BPSK	270	0	21.31	21.34	21.33	22.6	0.0
100	QPSK	1	1	21.37	21.45	21.36		
100	QPSK	1	137	21.36	21.32	21.28		
100	QPSK	1	271	21.28	21.35	21.29		
100	QPSK	135	0	21.30	21.30	21.29	22.6	0.0
100	QPSK	135	69	21.33	21.44	21.34	22.6	0.0
100	QPSK	135	138	21.32	21.34	21.24	22.6	0.0
100	QPSK	270	0	21.28	21.32	21.31	22.6	0.0
100	16QAM	1	1	21.32	21.26	21.26	22.6	0.0
100	64QAM	1	1	21.35	21.40	21.34	22.6	0.0
100	256QAM	1	1	21.30	21.36	21.33	22.5	0.1
Channel				64968	65000	65034	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	21.32	21.39	21.26	22.6	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3740	3940.02		
80	QPSK	1	1	21.32	21.43	21.53	22.6	0.0
Channel				649000	650000	650300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	21.28	21.38	21.28	22.6	0.0
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	21.31	21.36	21.34	22.6	0.0
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	21.27	21.43	21.26	22.6	0.0
Channel				648000	650000	650300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	21.30	21.43	21.25	22.6	0.0
Channel				647668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3955.01		
30	QPSK	1	1	21.25	21.44	21.25	22.6	0.0
Channel				647500	650000	650500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	21.35	21.39	21.24	22.6	0.0
Channel				647334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	21.30	21.33	21.32	22.6	0.0
Channel				647168	650000	650834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	21.31	21.43	21.26	22.6	0.0
Channel				647000	650000	650300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	21.28	21.37	21.36	22.6	0.0

Part270 n78 PC2&PC3 Ant 9 EC14

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				65000	65000	65000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		21.33		22.6	0.0
100	PI/2 BPSK	1	137		21.29			
100	PI/2 BPSK	1	271		21.28			
100	PI/2 BPSK	135	0		21.27			
100	PI/2 BPSK	135	69		21.33		22.6	0.0
100	PI/2 BPSK	135	138		21.31		22.6	0.0
100	PI/2 BPSK	270	0		21.33		22.6	0.0
100	QPSK	1	1		21.27			
100	QPSK	1	137		21.33			
100	QPSK	1	271		21.34			
100	QPSK	135	0		21.32		22.6	0.0
100	QPSK	135	69		21.35		22.6	0.0
100	QPSK	135	138		21.29		22.6	0.0
100	QPSK	270	0		21.34		22.6	0.0
100	16QAM	1	1		21.30		22.6	0.0
100	64QAM	1	1		21.31		22.6	0.0
100	256QAM	1	1		21.28		22.5	0.1
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	21.27	21.32	21.31	22.6	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	21.32	21.35	21.25	22.6	0.0
Channel				649000	650000	650500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	21.30	21.29	21.30	22.6	0.0
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	21.26	21.36	21.36	22.6	0.0
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	21.32	21.34	21.26	22.6	0.0
Channel				648000	650000	650300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	21.23	21.31	21.29	22.6	0.0
Channel				647668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	21.30	21.35	21.28	22.6	0.0
Channel				647500	650000	650500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	21.33	21.30	21.29	22.6	0.0
Channel				647334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	21.30	21.28	21.30	22.6	0.0
Channel				647168	650000	650834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	21.28	21.29	21.32	22.6	0.0
Channel				647000	650000	650300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	21.29	21.33	21.30	22.6	0.0



Reduced Power Mode for ECI 6

n5 Ant 0 ECI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167600			
Frequency (MHz)				834	835.5	836			
20	PI2 BPSK	1	1	22.50	22.64	22.55	24.0	0.0	
20	PI2 BPSK	1	53	22.55	22.59	22.56			
20	PI2 BPSK	1	104	22.53	22.64	22.50			
20	PI2 BPSK	50	0	22.04	22.13	22.00			
20	PI2 BPSK	50	28	22.46	22.57	22.54	24.0	0.0	
20	PI2 BPSK	50	56	22.01	22.14	22.03	23.5	0.5	
20	PI2 BPSK	100	0	22.07	22.19	22.06			
20	QPSK	1	1	22.63	22.65	22.61			
20	QPSK	1	53	22.59	22.61	22.59			
20	QPSK	1	104	22.62	22.64	22.58	24.0	0.0	
20	QPSK	50	0	21.53	21.57	21.47	23.0	1.0	
20	QPSK	50	28	22.54	22.57	22.48	24.0	0.0	
20	QPSK	50	56	21.50	21.56	21.52	23.0	1.0	
20	QPSK	100	0	21.50	21.59	21.57	23.0	1.0	
20	16QAM	1	1	21.21	21.33	21.20			
20	64QAM	1	1	19.77	19.87	19.77			
20	256QAM	1	1	18.41	18.47	18.44			
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)	
15	QPSK	1	1	22.56	22.62	22.49	24.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	835.5	844	(dBm)	(dB)	
10	QPSK	1	1	22.53	22.63	22.61	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)	
5	QPSK	1	1	22.58	22.62	22.55	24.0	0.0	

n26 Ant 0 ECI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164300	165300	167600			
Frequency (MHz)				824	831.5	839			
20	PI/2 BPSK	1	1	22.90	22.91	22.89	24.0	0.0	
20	PI/2 BPSK	1	53	22.87	22.88	22.84			
20	PI/2 BPSK	1	104	22.81	22.88	22.82			
20	PI/2 BPSK	50	0	22.45	22.47	22.40			
20	PI/2 BPSK	50	28	22.86	22.88	22.84	24.0	0.0	
20	PI/2 BPSK	50	56	22.42	22.46	22.43	23.5	0.5	
20	PI/2 BPSK	100	0	22.44	22.48	22.47			
20	QPSK	1	1	22.94	22.96	22.93			
20	QPSK	1	53	22.87	22.84	22.86			
20	QPSK	1	104	22.89	22.91	22.88	24.0	0.0	
20	QPSK	50	0	21.98	21.92	21.84	23.0	1.0	
20	QPSK	50	28	22.86	22.89	22.84	24.0	0.0	
20	QPSK	50	56	21.90	21.86	21.91	23.0	1.0	
20	QPSK	100	0	21.88	21.93	21.90	23.0	1.0	
20	16QAM	1	1	21.68	21.70	21.67			
20	64QAM	1	1	20.26	20.28	20.24			
20	256QAM	1	1	18.84	18.89	18.82			
Channel				164300	165300	166300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5	(dBm)	(dB)	
15	QPSK	1	1	22.92	22.95	22.86	24.0	0.0	
Channel				163800	165300	166800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844	(dBm)	(dB)	
10	QPSK	1	1	22.93	22.94	22.87	24.0	0.0	
Channel				163300	165300	166300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5	(dBm)	(dB)	
5	QPSK	1	1	22.91	22.94	22.88	24.0	0.0	



n2 Ant 1 EC16									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				376000	376000	376000	24.0	0.0	
Frequency (MHz)				1870	1880	1890			
40	PV2 BPSK	1	1	22.43	22.64	22.49	24.0	0.0	
40	PV2 BPSK	1	108	22.54	22.59	22.49			
40	PV2 BPSK	1	214	22.46	22.57	22.51	23.5	0.5	
40	PV2 BPSK	198	0	21.66	21.71	21.70			
40	PV2 BPSK	108	54	22.73	22.75	22.70	24.0	0.0	
40	PV2 BPSK	108	108	22.22	22.26	22.18	23.5	0.5	
40	PV2 BPSK	216	0	22.24	22.28	22.21			
40	QPSK	1	1	22.72	22.76	22.75	24.0	0.0	
40	QPSK	1	108	22.55	22.64	22.51			
40	QPSK	1	214	22.44	22.66	22.49	23.0	1.0	
40	QPSK	108	0	21.77	21.79	21.74			
40	QPSK	108	54	22.72	22.77	22.74	24.0	0.0	
40	QPSK	108	108	21.73	21.76	21.71	23.0	1.0	
40	QPSK	216	0	21.75	21.80	21.76			
40	16QAM	1	1	21.38	21.43	21.41	23.0	1.0	
40	64QAM	1	1	19.94	19.98	19.96	21.5	2.5	
40	256QAM	1	1	18.52	18.60	18.58	19.5	4.5	
Channel				372000	376000	376000	24.0	0.0	
Frequency (MHz)				1867.5	1880	1892.5			
35	QPSK	1	1	22.68	22.65	22.63	24.0	0.0	
Channel				373000	376000	379000	24.0	MPR	
Frequency (MHz)				1905	1910	1965			
30	QPSK	1	1	22.59	22.67	22.67	24.0	0.0	
Channel				372500	376000	379500	24.0	MPR	
Frequency (MHz)				1862.5	1880	1897.5			
25	QPSK	1	1	22.48	22.61	22.53	24.0	0.0	
Channel				372000	376000	380000	24.0	MPR	
Frequency (MHz)				1860	1880	1900			
20	QPSK	1	1	22.46	22.63	22.46	24.0	0.0	
Channel				371500	376000	380500	24.0	MPR	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	22.46	22.66	22.47	24.0	0.0	
Channel				371000	376000	381000	24.0	MPR	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	22.52	22.62	22.54	24.0	0.0	
Channel				370500	376000	381500	24.0	MPR	
Frequency (MHz)				1852.5	1880	1897.5			
5	QPSK	1	1	22.54	22.62	22.47	24.0	0.0	

n7 Ant 1 EC16									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				502000	507000	509000	22.9	0.0	
Frequency (MHz)				2625	2635	2645			
50	PV2 BPSK	1	1	21.82	21.84	21.88	22.9	0.0	
50	PV2 BPSK	1	135	21.84	21.86	21.77			
50	PV2 BPSK	1	268	21.75	21.87	21.87	22.9	0.0	
50	PV2 BPSK	135	0	21.95	22.06	22.04			
50	PV2 BPSK	135	68	21.97	21.99	21.92	22.9	0.0	
50	PV2 BPSK	135	135	21.95	22.05	21.97	22.9	0.0	
50	PV2 BPSK	270	0	22.00	22.04	22.01			
50	QPSK	1	1	22.04	22.12	22.04	22.9	0.0	
50	QPSK	1	135	21.87	21.88	21.84			
50	QPSK	1	268	21.85	21.91	21.82	22.9	0.0	
50	QPSK	135	0	21.45	21.58	21.50			
50	QPSK	135	68	21.85	22.01	21.98	22.9	0.0	
50	QPSK	135	135	21.44	21.57	21.47	22.9	0.0	
50	QPSK	270	0	21.80	21.85	21.83			
50	16QAM	1	1	21.08	21.14	21.11	22.9	0.0	
50	64QAM	1	1	19.70	19.75	19.74	21.5	1.4	
50	256QAM	1	1	18.28	18.35	18.30	19.5	3.4	
Channel				504000	507000	510000	22.9	MPR	
Frequency (MHz)				2620	2635	2650			
40	QPSK	1	1	22.03	22.07	22.01	22.9	0.0	
Channel				501600	507000	510500	22.9	MPR	
Frequency (MHz)				2517.5	2635	2657.5			
35	QPSK	1	1	22.01	22.03	21.94	22.9	0.0	
Channel				501000	507000	511000	22.9	MPR	
Frequency (MHz)				2615	2635	2655			
30	QPSK	1	1	22.02	22.08	22.03	22.9	0.0	
Channel				502500	507000	511500	22.9	MPR	
Frequency (MHz)				2612.5	2635	2657.5			
25	QPSK	1	1	22.01	22.09	22.03	22.9	0.0	
Channel				502000	507000	512000	22.9	MPR	
Frequency (MHz)				2610	2635	2660			
20	PV2 BPSK	1	1	21.84	22.07	21.85	22.9	0.0	
Channel				501500	507000	512500	22.9	MPR	
Frequency (MHz)				2507.5	2635	2662.5			
15	QPSK	1	1	22.01	22.08	22.02	22.9	0.0	
Channel				501000	507000	513000	22.9	MPR	
Frequency (MHz)				2605	2635	2662			
10	QPSK	1	1	21.97	22.08	22.00	22.9	0.0	
Channel				500500	507000	513500	22.9	MPR	
Frequency (MHz)				2502.5	2635	2667.5			
5	QPSK	1	1	21.98	22.08	21.92	22.9	0.0	

n66 Ant 1 EC16									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	349000	351500	24.0	0.0	
Frequency (MHz)				1732.5	1745	1757.5			
45	PV2 BPSK	1	1	22.61	22.71	22.72	24.0	0.0	
45	PV2 BPSK	1	120	22.60	22.62	22.61			
45	PV2 BPSK	1	240	22.53	22.70	22.68	23.5	0.5	
45	PV2 BPSK	120	0	22.21	22.35	22.31			
45	PV2 BPSK	120	60	22.71	22.79	22.76	24.0	0.0	
45	PV2 BPSK	120	120	22.23	22.28	22.26	23.5	0.5	
45	PV2 BPSK	240	0	22.25	22.34	22.28			
45	QPSK	1	1	22.71	22.85	22.72	24.0	0.0	
45	QPSK	1	120	22.61	22.69	22.65			
45	QPSK	1	240	22.58	22.72	22.68	23.0	1.0	
45	QPSK	120	0	21.89	21.82	21.80			
45	QPSK	120	60	22.74	22.80	22.77	24.0	0.0	
45	QPSK	120	120	21.80	21.81	21.79	23.0	1.0	
45	QPSK	240	0	21.80	21.85	21.82			
45	16QAM	1	1	21.44	21.50	21.48	23.0	1.0	
45	64QAM	1	1	19.98	20.03	20.00	21.5	2.5	
45	256QAM	1	1	18.59	18.65	18.62	19.5	4.5	
Channel				345000	349000	352000	24.0	MPR (dB)	
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	22.80	22.80	22.59	24.0	0.0	
Channel				345500	349000	352500	24.0	MPR (dB)	
Frequency (MHz)				1727.5	1745	1762.5			
35	QPSK	1	1	22.81	22.83	22.64	24.0	0.0	
Channel				345000	349000	353000	24.0	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	22.59	22.74	22.63	24.0	0.0	
Channel				345000	349000	353500	24.0	MPR (dB)	
Frequency (MHz)				1722.5	1745	1767.5			
25	QPSK	1	1	22.58	22.74	22.72	24.0	0.0	
Channel				345500	349000	354000	24.0	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	22.62	22.70	22.65	24.0	0.0	
Channel				345500	349000	354500	24.0	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	22.64	22.67	22.72	24.0	0.0	
Channel				345000	349000	355000	24.0	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	22.58	22.67	22.65	24.0	0.0	
Channel				345500	349000	355500	24.0	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	22.52	22.67	22.69	24.0	0.0	



n2 Ant 4 ECI6										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				376000	376000	376000	20.6	0.0		
Frequency (MHz)				1870	1880	1890				
40	PV2 BPSK	1	1	19.53	19.55	19.52	20.6	0.0		
40	PV2 BPSK	1	108	19.52	19.55	19.51				
40	PV2 BPSK	1	214	19.46	19.59	19.58				
40	PV2 BPSK	108	0	19.51	19.55	19.55	20.6			0.0
40	PV2 BPSK	108	54	19.41	19.50	19.49	20.6			0.0
40	PV2 BPSK	108	108	19.60	19.61	19.49	20.6			0.0
40	PV2 BPSK	216	0	19.52	19.55	19.58	20.6			0.0
40	QPSK	1	1	19.56	19.56	19.51	20.6	0.0		
40	QPSK	1	108	19.51	19.58	19.49				
40	QPSK	1	214	19.56	19.56	19.54				
40	QPSK	108	0	19.56	19.57	19.52	20.6			0.0
40	QPSK	108	54	19.46	19.59	19.55	20.6			0.0
40	QPSK	108	108	19.55	19.56	19.52	20.6			0.0
40	QPSK	216	0	19.50	19.57	19.54	20.6			0.0
40	16QAM	1	1	19.53	19.50	19.50	20.6			0.0
40	64QAM	1	1	19.52	19.60	19.52	20.6			0.0
40	256QAM	1	1	17.87	18.03	17.89	19.5	1.1		
Channel				372000	376000	376000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1867.5	1880	1892.5	20.6	0.0		
35	QPSK	1	1	19.52	19.59	19.50	20.6	0.0		
Channel				373000	376000	379000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1885	1895	1895	20.6	0.0		
30	QPSK	1	1	19.48	19.50	19.41	20.6	0.0		
Channel				372500	376000	379500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1862.5	1880	1897.5	20.6 <td colspan="2">0.0</td>	0.0		
25	QPSK	1	1	19.56	19.50	19.41	20.6	0.0		
Channel				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1860	1880	1900 <td>20.6</td> <td colspan="2">0.0</td>	20.6	0.0		
20	QPSK	1	1	19.49	19.57	19.41	20.6	0.0		
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1857.5	1880	1902.5 <td>20.6</td> <td colspan="2">0.0</td>	20.6	0.0		
15	QPSK	1	1	19.58	19.52	19.40	20.6	0.0		
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1855	1880	1905	20.6	0.0		
10	QPSK	1	1	19.55	19.59	19.43	20.6	0.0		
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1852.5 <td>1880</td> <td>1907.5</td> <td>20.6</td> <td colspan="2">0.0</td>	1880	1907.5	20.6	0.0		
5	QPSK	1	1	19.51	19.62	19.43	20.6	0.0		

n5 Ant 4 ECI6										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)		
Channel				166800	167000	167800	24.0	0.0		
Frequency (MHz)				834	836.5	839				
20	PV2 BPSK	1	1	22.63	22.67	22.61	24.0	0.0		
20	PV2 BPSK	1	53	22.58	22.65	22.60				
20	PV2 BPSK	1	104	22.58	22.63	22.57				
20	PV2 BPSK	50	0	21.94	22.08	22.02	23.5			0.5
20	PV2 BPSK	50	28	22.36	22.49	22.44	24.0			0.0
20	PV2 BPSK	50	56	21.99	22.09	21.95	23.5			0.5
20	PV2 BPSK	100	0	22.08	22.10	22.06	24.0	0.0		
20	QPSK	1	1	22.64	22.68	22.62				
20	QPSK	1	53	22.64	22.66	22.60	24.0			0.0
20	QPSK	1	104	22.64	22.67	22.60				
20	QPSK	50	0	21.42	21.56	21.47	23.0			1.0
20	QPSK	50	28	22.45	22.55	22.53	24.0			0.0
20	QPSK	50	56	21.40	21.53	21.49	23.0			1.0
20	QPSK	100	0	21.52	21.59	21.52	24.0			0.0
20	16QAM	1	1	21.33	21.43	21.35	23.0			1.0
20	64QAM	1	1	19.93	19.96	19.91	21.5			2.5
20	256QAM	1	1	18.54	18.61	18.59	19.5	4.5		
Channel				166300	167000	168300	Tune-up limit (dbm)	MPR		
Frequency (MHz)				831.5	836.5	841.5	24.0	0.0		
15	QPSK	1	1	22.57	22.64	22.58	24.0	0.0		
Channel				166800	167300	168800	Tune-up limit (dbm)	MPR		
Frequency (MHz)				820	836.5	844	24.0	0.0		
10	QPSK	1	1	22.65	22.68	22.61	24.0	0.0		
Channel				165300	167300	169300	Tune-up limit (dbm)	MPR		
Frequency (MHz)				826.5	836.5	846.5	24.0	0.0		
5	QPSK	1	1	22.62	22.63	22.59	24.0	0.0		

n7 Ant 4 ECI6										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				505000	507000	509000	20.3	0.0		
Frequency (MHz)				2525	2535	2545				
50	PV2 BPSK	1	1	19.32	19.42	19.30	20.3	0.0		
50	PV2 BPSK	1	135	19.39	19.46	19.30				
50	PV2 BPSK	1	268	19.20	19.29	19.30				
50	PV2 BPSK	135	0	19.33	19.43	19.35				
50	PV2 BPSK	135	68	19.30	19.44	19.42				
50	PV2 BPSK	135	135	19.33	19.41	19.39				
50	PV2 BPSK	270	0	19.42	19.47	19.41				
50	QPSK	1	1	19.36	19.38	19.43	20.3	0.0		
50	QPSK	1	135	19.36	19.48	19.38				
50	QPSK	1	268	19.32	19.49	19.39				
50	QPSK	135	0	19.33	19.43	19.37				
50	QPSK	135	68	19.41	19.48	19.47				
50	QPSK	135	135	19.39	19.42	19.40				
50	QPSK	270	0	19.42	19.43	19.40				
50	16QAM	1	1	19.08	19.08	19.14	20.3			
50	64QAM	1	1	19.12	19.17	19.15	20.3			
50	256QAM	1	1	17.70	17.79	17.72	18.5	1.8		
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2520	2535	2550	20.3	0.0		
40	QPSK	1	1	19.28	19.39	19.33	20.3	0.0		
Channel				503500	507000	510500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2517.5	2535	2552.5	20.3	0.0		
35	QPSK	1	1	19.32	19.44	19.34	20.3	0.0		
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2515	2535	2555	20.3	0.0		
30	QPSK	1	1	19.26	19.46	19.38	20.3	0.0		
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2512.5	2535	2557.5	20.3	0.0		
25	QPSK	1	1	19.30	19.45	19.41	20.3	0.0		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2510	2535	2560	20.3	0.0		
20	PV2 BPSK	1	1	19.26	19.49	19.33	20.3	0.0		
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2507.5	2535	2562.5	20.3	0.0		
15	QPSK	1	1	19.28	19.48	19.32	20.3	0.0		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2505	2535	2565	20.3	0.0		
10	QPSK	1	1	19.38	19.49	19.32	20.3	0.0		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2502.5	2535	2567.5	20.3	0.0		
5	QPSK	1	1	19.35	19.49	19.36	20.3	0.0		

n26 Ant 4 EC16								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				168300	168300	167600	24.0	0.0
Frequency (MHz)				824	831.5	839		
20	PI2 BPSK	1	1	22.78	22.84	22.79	24.0	0.0
20	PI2 BPSK	1	53	22.73	22.81	22.83		
20	PI2 BPSK	1	104	22.77	22.84	22.77	23.5	0.5
20	PI2 BPSK	50	0	22.06	22.25	22.19		
20	PI2 BPSK	50	28	22.62	22.71	22.67	24.0	0.0
20	PI2 BPSK	50	56	22.16	22.26	22.22		
20	PI2 BPSK	100	0	22.05	22.21	22.19	23.5	0.5
20	QPSK	1	1	22.78	22.85	22.81		
20	QPSK	1	53	22.81	22.84	22.81	24.0	0.0
20	QPSK	1	104	22.78	22.82	22.80		
20	QPSK	50	0	21.82	21.68	21.63	23.0	1.0
20	QPSK	50	28	22.81	22.70	22.66		
20	QPSK	50	56	21.80	21.74	21.68	23.0	1.0
20	QPSK	100	0	21.72	21.75	21.74		
20	16QAM	1	1	21.48	21.53	21.49	23.0	1.0
20	64QAM	1	1	20.04	20.10	20.07		
20	256QAM	1	1	18.61	18.70	18.65	19.5	4.5
Channel				168300	168300	168300		
Frequency (MHz)				821.5	831.5	841.5	Tune-up limit (dBm)	
15	QPSK	1	1	22.75	22.80	22.79	24.0	0.0
Channel				163800	166300	166800	Tune-up limit (dBm)	
Frequency (MHz)				812	831.5	844	Tune-up limit (dBm)	
10	QPSK	1	1	22.74	22.70	22.78	24.0	0.0
Channel				163300	166300	166300	Tune-up limit (dBm)	
Frequency (MHz)				816.5	831.5	846.5	Tune-up limit (dBm)	
5	QPSK	1	1	22.70	22.80	22.75	24.0	0.0

n66 Ant 4 ECI6								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				345500	349000	351500	21.8	0.0
Frequency (MHz)				1732.5	1745	1757.5		
45	PI2 BPSK	1	1	20.91	20.96	20.93	21.8	0.0
45	PI2 BPSK	1	120	20.90	20.95	20.93		
45	PI2 BPSK	1	240	20.90	20.96	20.92	21.8	0.0
45	PI2 BPSK	120	0	20.88	20.92	20.83		
45	PI2 BPSK	120	60	20.85	20.89	20.81	21.8	0.0
45	PI2 BPSK	120	120	20.85	20.91	20.83		
45	PI2 BPSK	240	0	20.92	20.95	20.93	21.8	0.0
45	QPSK	1	1	20.90	20.96	20.95		
45	QPSK	1	120	20.95	20.97	20.94	21.8	0.0
45	QPSK	1	240	20.95	20.96	20.95		
45	QPSK	120	0	20.85	20.94	20.88	21.8	0.0
45	QPSK	120	60	20.96	20.97	20.92		
45	QPSK	120	120	20.88	20.96	20.86	21.8	0.0
45	QPSK	240	0	20.92	20.95	20.91		
45	16QAM	1	1	20.70	20.74	20.65	21.8	0.0
45	64QAM	1	1	19.68	19.74	19.72		
45	256QAM	1	1	18.02	18.05	18.00	19.5	2.3
Channel				345000	349000	352000	Tune-up limit (dBm)	
Frequency (MHz)				1730	1745	1760	Tune-up limit (dBm)	
40	QPSK	1	1	20.85	20.95	20.89	24.0	0.0
Channel				345500	349000	352500	Tune-up limit (dBm)	
Frequency (MHz)				1727.5	1745	1762.5	Tune-up limit (dBm)	
35	QPSK	1	1	20.89	20.92	20.89	24.0	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	
Frequency (MHz)				1725	1745	1765	Tune-up limit (dBm)	
30	QPSK	1	1	20.89	20.92	20.85	21.8	0.0
Channel				344500	349000	353500	Tune-up limit (dBm)	
Frequency (MHz)				1722.5	1745	1767.5	Tune-up limit (dBm)	
25	QPSK	1	1	20.89	20.91	20.88	21.8	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	
Frequency (MHz)				1720	1745	1770	Tune-up limit (dBm)	
20	QPSK	1	1	20.88	20.90	20.83	21.8	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	
Frequency (MHz)				1717.5	1745	1772.5	Tune-up limit (dBm)	
15	QPSK	1	1	20.87	20.87	20.92	21.8	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	
Frequency (MHz)				1715	1745	1775	Tune-up limit (dBm)	
10	QPSK	1	1	20.80	20.88	20.85	21.8	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	
Frequency (MHz)				1712.5	1745	1777.5	Tune-up limit (dBm)	
5	QPSK	1	1	20.84	20.92	20.91	21.8	0.0

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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)	MPR (dB)	
Channel				516004	519000	519996	22.0	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	21.01	21.07	21.07			
40	PI/2 BPSK	1	53	21.01	21.14	21.03	22.0	0.0	
40	PI/2 BPSK	1	104	21.03	21.01	21.09			
40	PI/2 BPSK	50	0	20.55	20.66	20.61		21.5	
40	PI/2 BPSK	50	28	20.97	21.14	21.05	22.0	0.0	
40	PI/2 BPSK	50	56	20.46	20.66	20.58	21.5	0.5	
40	PI/2 BPSK	100	0	20.54	20.54	20.48			
40	QPSK	1	1	21.06	21.23	21.07			
40	QPSK	1	53	21.01	21.13	21.04	22.0	0.0	
40	QPSK	1	104	21.06	21.14	21.05			
40	QPSK	50	0	20.06	20.12	20.05		21.0	
40	QPSK	50	28	21.02	21.12	21.10	22.0	0.0	
40	QPSK	80	56	20.04	20.14	20.14	21.0	1.0	
40	QPSK	100	0	20.08	20.13	20.10			
40	16QAM	1	1	19.58	19.64	19.62	21.0	1.0	
40	64QAM	1	1	18.07	18.10	18.07	19.5	2.5	
40	256QAM	1	1	16.76	16.82	16.71	17.5	4.5	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2595.01	2595	2604.99	22.0	0.0	
30	QPSK	1	1	20.98	21.15	20.99			
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2592.52	2595	2607.48	22.0	0.0	
25	QPSK	1	1	21.05	21.11	21.11			
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610	22.0	0.0	
20	QPSK	1	1	21.04	21.09	21.01			
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49	22.0	0.0	
15	QPSK	1	1	21.07	21.10	21.10			
Channel				515004	519000	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98	22.0	0.0	
10	QPSK	1	1	21.08	21.08	21.07			

n41 Ant 0 ECI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518998	520000	22.0	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	21.15	21.24	21.17			
100	PI/2 BPSK	1	137	21.17	21.28	21.13	22.0	0.0	
100	PI/2 BPSK	1	271	21.10	21.19	21.24			
100	PI/2 BPSK	135	0	20.83	20.74	20.72		21.5	
100	PI/2 BPSK	135	69	21.12	21.22	21.12	22.0	0.0	
100	PI/2 BPSK	135	138	20.62	20.76	20.74	21.5	0.5	
100	PI/2 BPSK	270	0	20.65	20.71	20.65			
100	QPSK	1	1	21.16	21.26	21.22			
100	QPSK	1	137	21.15	21.27	21.14	22.0	0.0	
100	QPSK	1	271	21.17	21.26	21.21			
100	QPSK	135	0	20.16	20.24	20.23		21.0	
100	QPSK	135	69	21.18	21.25	21.20	22.0	0.0	
100	QPSK	135	138	20.16	20.22	20.21	21.0	1.0	
100	QPSK	270	0	20.22	20.29	20.25			
100	16QAM	1	1	19.68	19.74	19.71	21.0	1.0	
100	64QAM	1	1	18.21	18.27	18.24	19.5	2.5	
100	256QAM	1	1	16.87	16.91	16.88	17.5	4.5	
Channel				506002	518998	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	22.0	0.0	
90	QPSK	1	1	21.15	21.23	21.17			
Channel				507204	518998	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2530.02	2592.99	2649.99	22.0	0.0	
80	QPSK	1	1	21.11	21.22	21.14			
Channel				506002	518998	521000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655	22.0	0.0	
70	QPSK	1	1	21.17	21.21	21.20			
Channel				505200	518998	521998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98	22.0	0.0	
60	QPSK	1	1	21.14	21.26	21.14			
Channel				504204	518998	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	22.0	0.0	
50	QPSK	1	1	21.11	21.22	21.17			
Channel				503200	518998	523498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2518.5	2592.99	2667.48	22.0	0.0	
45	QPSK	1	1	21.13	21.24	21.19			
Channel				503202	518998	524000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2513.01	2592.99	2670	22.0	0.0	
40	QPSK	1	1	21.16	21.24	21.20			
Channel				502704	518998	524498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2513.52	2592.99	2672.49	22.0	0.0	
35	QPSK	1	1	21.12	21.20	21.15			
Channel				502200	518998	524998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98	22.0	0.0	
30	QPSK	1	1	21.19	21.24	21.14			
Channel				501702	518998	525500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2508.51	2592.99	2677.5	22.0	0.0	
25	QPSK	1	1	21.11	21.21	21.13			
Channel				501204	518998	525998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	22.0	0.0	
20	QPSK	1	1	21.15	21.21	21.22			
Channel				500700	518998	526498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.15	2592.99	2682.48	22.0	0.0	
15	QPSK	1	1	21.10	21.23	21.25			
Channel				500202	518998	527000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685	22.0	0.0	
10	QPSK	1	1	21.08	21.28	21.19			

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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)	MPR (dB)	
Channel				518004	519000	519996	22.3	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	20.99	21.10	21.01	22.3	0.0	
40	PI2 BPSK	1	53	20.96	21.02	21.09			
40	PI2 BPSK	1	104	20.96	21.03	21.07	22.3	0.0	
40	PI2 BPSK	50	0	21.11	21.18	21.11			
40	PI2 BPSK	50	28	21.06	21.08	21.03	22.3	0.0	
40	PI2 BPSK	50	56	21.02	21.20	21.18			
40	PI2 BPSK	100	0	21.16	21.17	21.15	22.3	0.0	
40	QPSK	1	1	21.05	21.20	21.07			
40	QPSK	1	53	21.07	21.08	21.11	22.3	0.0	
40	QPSK	1	104	21.02	21.07	20.99			
40	QPSK	50	0	21.11	21.16	21.14	22.3	0.0	
40	QPSK	50	28	21.17	21.22	21.08			
40	QPSK	50	56	21.20	21.15	21.05	22.3	0.0	
40	QPSK	100	0	21.08	21.18	21.15			
40	16QAM	1	1	20.91	20.98	20.93	22.3	0.0	
40	64QAM	1	1	19.81	19.89	19.88			
40	256QAM	1	1	18.46	18.53	18.50	19.5	2.8	
Channel				517002	519000	520998			
Frequency (MHz)				2595.01	2595	2604.99	Tune-up limit (dBm)		MPR (dB)
30	QPSK	1	1	21.02	21.20	20.98	22.3		0.0
Channel				516504	519000	521496	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				2592.52	2595	2607.48	22.3		0.0
25	QPSK	1	1	20.98	21.19	21.02	22.3		0.0
Channel				516000	519000	522000	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				2590	2595	2610	22.3		0.0
20	QPSK	1	1	21.00	21.22	20.97	22.3		0.0
Channel				515502	519000	524998	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49	22.3		0.0
15	QPSK	1	1	21.04	21.21	20.96	22.3		0.0
Channel				515004	519000	525998	Tune-up limit (dBm)		MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98	22.3		0.0
10	QPSK	1	1	21.04	21.25	21.00	22.3		0.0

n41 Ant 1 ECI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518998	520000	22.3	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	21.05	21.23	21.06	22.3	0.0	
100	PI/2 BPSK	1	137	21.05	21.21	20.95			
100	PI/2 BPSK	1	271	21.07	21.28	21.03	22.3	0.0	
100	PI/2 BPSK	135	0	21.04	21.28	21.11			
100	PI/2 BPSK	135	69	21.05	21.27	21.00	22.3	0.0	
100	PI/2 BPSK	135	138	21.09	21.29	21.10			
100	PI/2 BPSK	270	0	21.13	21.38	21.05	22.3	0.0	
100	QPSK	1	1	21.18	21.30	21.14			
100	QPSK	1	137	21.11	21.33	20.99	22.3	0.0	
100	QPSK	1	271	20.98	21.27	21.10			
100	QPSK	135	0	21.05	21.28	21.05	22.3	0.0	
100	QPSK	135	69	21.13	21.38	21.17			
100	QPSK	135	138	21.10	21.33	21.06	22.3	0.0	
100	QPSK	270	0	21.18	21.32	21.18			
100	16QAM	1	1	21.08	21.09	21.05	22.3	0.0	
100	64QAM	1	1	19.82	19.93	19.88			
100	256QAM	1	1	18.50	18.59	18.51	19.5	2.8	
Channel				506000	518998	520998			
Frequency (MHz)				2541	2592.99	2644.98	Tune-up limit (dBm)		
90	QPSK	1	1	21.12	21.35	21.12	22.3		
Channel				507204	518998	520998	Tune-up limit (dBm)		
Frequency (MHz)				2530.02	2592.99	2649.99	22.3		
80	QPSK	1	1	21.14	21.37	21.12	22.3		
Channel				506002	518998	521000	Tune-up limit (dBm)		
Frequency (MHz)				2531.01	2592.99	2655	22.3		
70	QPSK	1	1	21.08	21.32	21.09	22.3		
Channel				505200	518998	521998	Tune-up limit (dBm)		
Frequency (MHz)				2524	2592.99	2659.98	22.3		
60	QPSK	1	1	21.16	21.28	21.10	22.3		
Channel				504204	518998	522998	Tune-up limit (dBm)		
Frequency (MHz)				2521.02	2592.99	2664.99	22.3		
50	QPSK	1	1	21.16	21.38	21.10	22.3		
Channel				503700	518998	523498	Tune-up limit (dBm)		
Frequency (MHz)				2518.5	2592.99	2667.48	24.0		
45	QPSK	1	1	21.16	21.34	21.06	24.0		
Channel				503002	518998	524000	Tune-up limit (dBm)		
Frequency (MHz)				2513.01	2592.99	2670	22.3		
40	QPSK	1	1	21.13	21.38	21.05	22.3		
Channel				502704	518998	524498	Tune-up limit (dBm)		
Frequency (MHz)				2513.52	2592.99	2672.49	24.0		
35	QPSK	1	1	21.06	21.27	21.02	24.0		
Channel				502200	518998	524998	Tune-up limit (dBm)		
Frequency (MHz)				2511	2592.99	2674.98	22.3		
30	QPSK	1	1	21.10	21.30	21.13	22.3		
Channel				501702	518998	525500	Tune-up limit (dBm)		
Frequency (MHz)				2508.51	2592.99	2677.5	24.0		
25	QPSK	1	1	21.13	21.33	21.08	24.0		
Channel				501204	518998	525998	Tune-up limit (dBm)		
Frequency (MHz)				2506.02	2592.99	2679.99	22.3		
20	QPSK	1	1	21.12	21.34	21.10	22.3		
Channel				500700	518998	526498	Tune-up limit (dBm)		
Frequency (MHz)				2503.5	2592.99	2682.48	22.3		
15	QPSK	1	1	21.12	21.27	21.11	22.3		
Channel				500202	518998	527000	Tune-up limit (dBm)		
Frequency (MHz)				2501.01	2592.99	2685	22.3		
10	QPSK	1	1	21.06	21.38	21.03	22.3		

n38 Ant 2 ECI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				516004	519000	519996	19.5	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	18.40	18.43	18.22			
40	PI2 BPSK	1	53	18.38	18.46	18.26			
40	PI2 BPSK	1	104	18.38	18.40	18.35			
40	PI2 BPSK	50	0	18.32	18.36	18.20	19.5	0.0	
40	PI2 BPSK	50	28	18.27	18.33	18.18	19.5	0.0	
40	PI2 BPSK	50	56	18.23	18.39	18.27	19.5	0.0	
40	PI2 BPSK	100	0	18.22	18.39	18.21	19.5	0.0	
40	QPSK	1	1	18.36	18.51	18.25			
40	QPSK	1	53	18.46	18.46	18.26			
40	QPSK	1	104	18.30	18.45	18.23			
40	QPSK	50	0	17.79	17.82	17.57		19.0	0.5
40	QPSK	50	28	18.26	18.29	18.25	19.5	0.0	
40	QPSK	50	56	17.82	17.82	17.75	19.0	0.5	
40	QPSK	100	0	17.83	17.84	17.84	19.0	0.5	
40	16QAM	1	1	17.76	17.78	17.79	19.0	0.5	
40	64QAM	1	1	18.36	16.37	16.26	17.5	2.0	
40	256QAM	1	1	14.79	14.99	14.71	15.5	4.0	
Channel				517002	519000	520998	19.5	MPR	
Frequency (MHz)				2595.01	2595	2604.99			
30	QPSK	1	1	18.44	18.34	18.18			
Channel				516504	519000	521496		MPR	
Frequency (MHz)				2592.52	2595	2607.48			
25	QPSK	1	1	18.48	18.41	18.23	19.5	0.0	
Channel				516000	519000	520000	19.5	MPR	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	18.44	18.42	18.23	19.5	0.0	
Channel				515502	519000	522498	MPR		
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	18.41	18.44	18.17	19.5	0.0	
Channel				515004	519000	522996	MPR		
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	18.44	18.36	18.16	19.5	0.0	

n41 Ant 2 ECI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506202	518998	520000	19.5	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	18.47	18.52	18.35			
100	PI/2 BPSK	1	137	18.50	18.55	18.39			
100	PI/2 BPSK	1	271	18.45	18.52	18.43			
100	PI/2 BPSK	135	0	18.40	18.47	18.33	19.5	0.0	
100	PI/2 BPSK	135	69	18.39	18.45	18.29	19.5	0.0	
100	PI/2 BPSK	135	138	18.36	18.49	18.37	19.5	0.0	
100	PI/2 BPSK	270	0	18.37	18.46	18.35	19.5	0.0	
100	QPSK	1	1	18.54	18.58	18.36			
100	QPSK	1	137	18.53	18.56	18.34			
100	QPSK	1	271	18.47	18.55	18.38			
100	QPSK	135	0	17.87	18.00	17.75	19.0	0.5	
100	QPSK	135	69	18.37	18.43	18.35	19.5	0.0	
100	QPSK	135	138	17.94	17.85	17.83	19.0	0.5	
100	QPSK	270	0	18.00	18.06	18.01	19.0	0.5	
100	16QAM	1	1	17.91	17.95	17.86	19.0	0.5	
100	64QAM	1	1	18.44	16.46	16.40	17.5	2.0	
100	256QAM	1	1	14.95	15.13	14.88	15.5	4.0	
Channel				506202	518998	520998	19.5	MPR	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	18.54	18.51	18.29	19.5	0.0	
Channel				507204	518998	520998	19.5	MPR	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	18.45	18.48	18.31	19.5	0.0	
Channel				506202	518998	521000	19.5	MPR	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	18.44	18.48	18.38	19.5	0.0	
Channel				505200	518998	521998	19.5	MPR	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	18.44	18.52	18.34	19.5	0.0	
Channel				504204	518998	522998	19.5	MPR	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	18.53	18.47	18.28	19.5	0.0	
Channel				503200	518998	523998	19.5	MPR	
Frequency (MHz)				2516.01	2592.99	2674.98			
45	QPSK	1	1	18.52	18.54	18.28	20.0	0.0	
Channel				503202	518998	524000	19.5	MPR	
Frequency (MHz)				2510.01	2592.99	2670			
40	QPSK	1	1	18.44	18.50	18.31	19.5	0.0	
Channel				502704	518998	524498	19.5	MPR	
Frequency (MHz)				2513.52	2592.99	2672.49			
35	QPSK	1	1	18.54	18.56	18.32	20.0	0.0	
Channel				502200	518998	524998	19.5	MPR	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	18.43	18.56	18.33	19.5	0.0	
Channel				501702	518998	525998	19.5	MPR	
Frequency (MHz)				2508.51	2592.99	2677.5			
25	QPSK	1	1	18.42	18.56	18.26	20.0	0.0	
Channel				501204	518998	526998	19.5	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	18.43	18.48	18.28	19.5	0.0	
Channel				500700	518998	526496	19.5	MPR	
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	18.45	18.46	18.28	19.5	0.0	
Channel				500202	518998	527000	19.5	MPR	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	18.52	18.48	18.36	19.5	0.0	

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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)	MPR (dB)
Channel				650000	650000	650000	21.0	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	19.90	19.95	19.68	21.0	0.0
100	PI/2 BPSK	1	137	19.92	19.94	19.60		
100	PI/2 BPSK	1	271	19.96	19.95	19.62		
100	PI/2 BPSK	135	0	19.87	19.99	19.91		
100	PI/2 BPSK	135	69	19.93	19.93	19.82	21.0	0.0
100	PI/2 BPSK	135	138	19.90	19.96	19.93	21.0	0.0
100	PI/2 BPSK	270	0	19.92	19.93	19.95	21.0	0.0
100	QPSK	1	1	20.00	20.01	19.69		
100	QPSK	1	137	20.00	20.00	19.64		
100	QPSK	1	271	19.98	20.00	19.67		
100	QPSK	135	0	19.92	19.94	19.93	21.0	0.0
100	QPSK	135	69	19.93	19.95	19.89	21.0	0.0
100	QPSK	135	138	19.89	19.90	19.89	21.0	0.0
100	QPSK	270	0	19.91	19.94	19.88		
100	16QAM	1	1	19.73	19.81	19.71		
100	64QAM	1	1	19.85	19.89	19.86	21.0	0.0
100	256QAM	1	1	19.86	19.90	19.86	21.0	0.0
Channel				649968	650032	650334	21.0	0.0
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	19.95	20.00	19.67	21.0	0.0
Channel				649334	650000	650668	21.0	MPR
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	19.99	19.99	19.65	21.0	0.0
Channel				649000	650000	650300	21.0	MPR
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	19.98	19.94	19.69	21.0	0.0
Channel				648668	650000	650334	21.0	MPR
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	19.93	19.94	19.66	21.0	0.0
Channel				648334	650000	650668	21.0	MPR
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	19.93	19.92	19.68	21.0	0.0
Channel				648000	650000	650300	21.0	MPR
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	19.92	19.92	19.65	21.0	0.0
Channel				647668	650000	654334	21.0	MPR
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	19.93	19.94	19.63	21.0	0.0
Channel				647500	650000	654500	21.0	MPR
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	19.94	19.92	19.62	21.0	0.0
Channel				647334	650000	654668	21.0	MPR
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	19.96	20.00	19.62	21.0	0.0
Channel				647168	650000	654834	21.0	MPR
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	19.89	19.93	19.69	21.0	0.0
Channel				647000	650000	655000	21.0	MPR
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	19.92	19.98	19.69	21.0	0.0

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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)	MPR (dB)
Channel				650000	650000	650000	21.0	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		19.87		21.0	0.0
100	PI/2 BPSK	1	137		19.86			
100	PI/2 BPSK	1	271		19.87			
100	PI/2 BPSK	135	0		19.90			
100	PI/2 BPSK	135	69		19.88		21.0	0.0
100	PI/2 BPSK	135	138		19.82		21.0	0.0
100	PI/2 BPSK	270	0		19.87		21.0	0.0
100	QPSK	1	1		19.86			
100	QPSK	1	137		19.92			
100	QPSK	1	271		19.85			
100	QPSK	135	0		19.81		21.0	0.0
100	QPSK	135	69		19.94		21.0	0.0
100	QPSK	135	138		19.85		21.0	0.0
100	QPSK	270	0		19.89			
100	16QAM	1	1		19.73			
100	64QAM	1	1		19.71		21.0	0.0
100	256QAM	1	1		19.85		21.0	0.0
Channel				649968	650032	650334	21.0	MPR
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	19.81	19.93	19.86	21.0	0.0
Channel				649334	650000	650668	21.0	MPR
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	19.85	19.89	19.77	21.0	0.0
Channel				649000	650000	651000	21.0	MPR
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	19.79	19.90	19.87	21.0	0.0
Channel				648668	650000	651334	21.0	MPR
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	19.81	19.86	19.83	21.0	0.0
Channel				648334	650000	651668	21.0	MPR
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	19.84	19.87	19.88	21.0	0.0
Channel				648000	650000	652000	21.0	MPR
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	19.82	19.89	19.80	21.0	0.0
Channel				647668	650000	652334	21.0	MPR
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	19.83	19.85	19.81	21.0	0.0
Channel				647500	650000	652500	21.0	MPR
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	19.87	19.88	19.86	21.0	0.0
Channel				647334	650000	652668	21.0	MPR
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	19.88	19.91	19.90	21.0	0.0
Channel				647168	650000	652834	21.0	MPR
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	19.78	19.86	19.92	21.0	0.0
Channel				647000	650000	653000	21.0	MPR
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	19.86	19.86	19.92	21.0	0.0

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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)	MPR (dB)	
Channel				518004	519000	519996	20.5	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	19.12	19.25	19.20	20.5	0.0	
40	PI/2 BPSK	1	53	19.01	19.13	19.15			
40	PI/2 BPSK	1	104	19.04	19.15	19.01	20.5	0.0	
40	PI/2 BPSK	50	0	19.08	19.20	19.12			
40	PI/2 BPSK	50	28	19.00	19.17	19.14	20.5	0.0	
40	PI/2 BPSK	50	56	19.18	19.24	19.16			
40	PI/2 BPSK	100	0	19.17	19.17	19.15	20.5	0.0	
40	QPSK	1	1	19.25	19.31	19.27			
40	QPSK	1	53	19.04	19.13	19.11	20.5	0.0	
40	QPSK	1	104	19.10	19.19	19.12			
40	QPSK	50	0	19.14	19.18	19.13	20.5	0.0	
40	QPSK	50	28	19.22	19.29	19.28			
40	QPSK	50	56	19.05	19.25	19.16	20.5	0.0	
40	QPSK	100	0	19.23	19.28	19.22			
40	16QAM	1	1	19.13	19.13	19.14	20.5	0.0	
40	64QAM	1	1	19.24	19.30	19.27			
40	256QAM	1	1	18.02	18.10	18.06	19.5	1.0	
Channel				517002	518000	518998	20.5	MPR	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	19.20	19.26	19.19	20.5	0.0	
Channel				516504	519000	521496			
Frequency (MHz)				2552.52	2595	2607.48	20.5	0.0	
25	QPSK	1	1	19.19	19.20	19.16			
Channel				516000	519000	522000	20.5	MPR	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	19.24	19.25	19.26	20.5	0.0	
Channel				515502	519000	524998			
Frequency (MHz)				2577.51	2595	2612.49	20.5	0.0	
15	QPSK	1	1	19.21	19.23	19.22			
Channel				515004	519000	525996	20.5	MPR	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	19.13	19.27	19.21	20.5	0.0	

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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)	MPR (dB)	
Channel				506002	518998	526000	20.5	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	19.15	19.21	19.10	20.5	0.0	
100	PI/2 BPSK	1	137	19.20	19.21	19.06			
100	PI/2 BPSK	1	271	19.15	19.14	19.04	20.5	0.0	
100	PI/2 BPSK	135	0	19.20	19.34	19.15			
100	PI/2 BPSK	135	69	19.18	19.20	19.18	20.5	0.0	
100	PI/2 BPSK	135	138	19.30	19.31	19.28			
100	PI/2 BPSK	270	0	19.26	19.30	19.25	20.5	0.0	
100	QPSK	1	1	19.31	19.35	19.29			
100	QPSK	1	137	19.18	19.32	19.21	20.5	0.0	
100	QPSK	1	271	19.20	19.22	19.18			
100	QPSK	135	0	19.24	19.29	19.23	20.5	0.0	
100	QPSK	135	69	19.32	19.34	19.22			
100	QPSK	135	138	19.21	19.27	19.25	20.5	0.0	
100	QPSK	270	0	19.25	19.32	19.24			
100	16QAM	1	1	19.25	19.22	19.26	20.5	0.0	
100	64QAM	1	1	19.32	19.34	19.31			
100	256QAM	1	1	18.20	18.24	18.22	19.5	1.0	
Channel				505000	518998	526998	20.5	MPR	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.21	19.23	19.21	20.5	0.0	
Channel				507204	518998	529998			
Frequency (MHz)				2530.02	2592.99	2649.99	20.5	0.0	
80	QPSK	1	1	19.30	19.24	19.19			
Channel				506002	518998	531000	20.5	MPR	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	19.21	19.24	19.24	20.5	0.0	
Channel				505200	518998	531998			
Frequency (MHz)				2524	2592.99	2659.98	20.5	0.0	
60	QPSK	1	1	19.24	19.34	19.21			
Channel				504204	518998	532998	20.5	MPR	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	19.29	19.26	19.20	20.5	0.0	
Channel				503200	518998	533998			
Frequency (MHz)				2518.5	2592.99	2667.48	20.5	0.0	
45	QPSK	1	1	19.21	19.23	19.29			
Channel				503002	518998	534000	20.5	MPR	
Frequency (MHz)				2510.01	2592.99	2670			
40	QPSK	1	1	19.25	19.22	19.26	20.5	0.0	
Channel				502704	518998	534498			
Frequency (MHz)				2513.52	2592.99	2672.49	20.5	0.0	
35	QPSK	1	1	19.30	19.28	19.24			
Channel				502200	518998	534998	20.5	MPR	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	19.28	19.28	19.28	20.5	0.0	
Channel				501702	518998	535500			
Frequency (MHz)				2508.51	2592.99	2677.5	20.5	0.0	
25	QPSK	1	1	19.20	19.23	19.22			
Channel				501204	518998	535998	20.5	MPR	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	19.23	19.23	19.26	20.5	0.0	
Channel				500700	518998	536496			
Frequency (MHz)				2503.5	2592.99	2682.49	20.5	0.0	
15	QPSK	1	1	19.21	19.21	19.24			
Channel				500202	518998	537000	20.5	MPR	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	19.27	19.32	19.21	20.5	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 650000	Power Middle Ch./Freq. 650000	Power High Ch./Freq. 650000	Tune-up limit (dBm)	MPR (dB)
Channel				3750	3840	3930	20.0	0.0
Frequency (MHz)				18.90	18.85	18.78		
100	PI/2 BPSK	1	1	18.90	18.85	18.78	20.0	0.0
100	PI/2 BPSK	1	137	18.78	18.82	18.79		
100	PI/2 BPSK	1	271	18.84	18.86	18.83	20.0	0.0
100	PI/2 BPSK	135	0	18.92	18.90	18.85		
100	PI/2 BPSK	135	69	18.82	18.84	18.87	20.0	0.0
100	PI/2 BPSK	135	138	18.91	18.92	18.90		
100	PI/2 BPSK	270	0	18.95	18.92	18.85	20.0	0.0
100	QPSK	1	1	18.90	19.00	18.98		
100	QPSK	1	137	18.81	18.79	18.85	20.0	0.0
100	QPSK	1	271	18.86	18.79	18.84		
100	QPSK	135	0	18.82	18.91	18.85	20.0	0.0
100	QPSK	135	69	18.89	18.98	18.86		
100	QPSK	135	138	18.88	18.89	18.77	20.0	0.0
100	QPSK	270	0	18.88	18.94	18.84		
100	16QAM	1	1	18.76	18.91	18.79	20.0	0.0
100	64QAM	1	1	18.84	18.91	18.80		
100	256QAM	1	1	17.93	17.91	17.89	19.5	0.5
Channel				64998	65000	65034	20.0	MPR
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	18.89	18.98	18.85	20.0	0.0
Channel				649334	650000	652668		
Frequency (MHz)				3740.01	3740	3940.02	20.0	0.0
80	QPSK	1	1	18.83	18.90	18.79		
Channel				649000	650000	653000	20.0	MPR
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	18.83	18.92	18.84	20.0	0.0
Channel				648668	650000	653334		
Frequency (MHz)				3730.02	3840	3950.01	20.0	0.0
60	QPSK	1	1	18.81	18.95	18.85		
Channel				648334	650000	653668	20.0	MPR
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	18.82	18.92	18.76	20.0	0.0
Channel				648000	650000	654000		
Frequency (MHz)				3720	3840	3960	20.0	0.0
40	QPSK	1	1	18.89	18.95	18.77		
Channel				647668	650000	654334	20.0	MPR
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	18.81	18.94	18.83	20.0	0.0
Channel				647300	650000	654500		
Frequency (MHz)				3712.5	3840	3967.5	20.0	0.0
25	QPSK	1	1	18.88	18.94	18.88		
Channel				647334	650000	654668	20.0	MPR
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	18.78	18.95	18.78	20.0	0.0
Channel				647188	650000	654834		
Frequency (MHz)				3707.52	3840	3972.51	20.0	0.0
15	QPSK	1	1	18.90	18.95	18.77		
Channel				647000	650000	655000	20.0	MPR
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	18.79	18.97	18.80	20.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 650000	Power Middle Ch./Freq. 650000	Power High Ch./Freq. 650000	Tune-up limit (dBm)	MPR (dB)
Channel				3750	3760	3760	20.0	0.0
Frequency (MHz)				18.83				
100	PI/2 BPSK	1	1	18.83			20.0	0.0
100	PI/2 BPSK	1	137	18.76				
100	PI/2 BPSK	1	271	18.80			20.0	0.0
100	PI/2 BPSK	135	0	18.84				
100	PI/2 BPSK	135	69	18.76			20.0	0.0
100	PI/2 BPSK	135	138	18.87				
100	PI/2 BPSK	270	0	18.76			20.0	0.0
100	QPSK	1	1	18.88				
100	QPSK	1	137	18.83			20.0	0.0
100	QPSK	1	271	18.70				
100	QPSK	135	0	18.80			20.0	0.0
100	QPSK	135	69	18.83				
100	QPSK	135	138	18.82			20.0	0.0
100	QPSK	270	0	18.95				
100	16QAM	1	1	18.87			20.0	0.0
100	64QAM	1	1	18.84				
100	256QAM	1	1	17.77			19.5	0.5
Channel				649668	650000	650334	20.0	MPR
Frequency (MHz)				3745.02	3760	3765.01		
90	QPSK	1	1	18.67	18.82	18.84	20.0	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3760	3760.02	20.0	0.0
80	QPSK	1	1	18.60	18.87	18.75		
Channel				649000	650000	651000	20.0	MPR
Frequency (MHz)				3735	3760	3765		
70	QPSK	1	1	18.60	18.77	18.67	20.0	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3760	3770.01	20.0	0.0
60	QPSK	1	1	18.70	18.78	18.73		
Channel				648334	650000	651668	20.0	MPR
Frequency (MHz)				3725.01	3760	3775.02		
50	QPSK	1	1	18.70	18.73	18.74	20.0	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3760	3780	20.0	0.0
40	QPSK	1	1	18.62	18.85	18.85		
Channel				647668	650000	652334	20.0	MPR
Frequency (MHz)				3715.02	3760	3785.01		
30	QPSK	1	1	18.65	18.75	18.71	20.0	0.0
Channel				647500	650000	652500		
Frequency (MHz)				3712.5	3760	3787.5	20.0	0.0
25	QPSK	1	1	18.68	18.86	18.69		
Channel				647334	650000	652668	20.0	MPR
Frequency (MHz)				3710.01	3760	3790.02		
20	QPSK	1	1	18.70	18.79	18.75	20.0	0.0
Channel				647188	650000	652834		
Frequency (MHz)				3707.52	3760	3792.51	20.0	0.0
15	QPSK	1	1	18.67	18.85	18.69		
Channel				647000	650000	653000	20.0	MPR
Frequency (MHz)				3705	3760	3795		
10	QPSK	1	1	18.72	18.84	18.69	20.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	22.58	22.40	22.51	23.6	0.0
100	PI2 BPSK	1	137	22.43	22.47	22.45		
100	PI2 BPSK	1	271	22.54	22.61	22.57		
100	PI2 BPSK	135	0	22.07	22.11	22.04	23.5	0.1
100	PI2 BPSK	135	69	22.41	22.43	22.54	23.6	0.0
100	PI2 BPSK	135	138	22.18	22.23	22.13	23.5	0.1
100	PI2 BPSK	270	0	22.09	22.13	21.88	23.6	0.0
100	QPSK	1	1	22.59	22.60	22.62		
100	QPSK	1	137	22.52	22.45	22.53		
100	QPSK	1	271	22.63	22.51	22.57	23.0	0.6
100	QPSK	135	0	21.50	21.64	21.55		
100	QPSK	135	69	22.47	22.63	22.50		
100	QPSK	135	138	21.54	21.68	21.45	23.0	0.6
100	QPSK	270	0	21.86	21.67	21.54	23.0	0.6
100	16QAM	1	1	21.50	21.60	21.40		
100	64QAM	1	1	20.16	20.16	20.03		
100	256QAM	1	1	18.14	18.09	18.16	19.5	4.1
Channel								
Frequency (MHz)				3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	22.52	22.56	22.48	23.6	0.0
Channel								
Frequency (MHz)				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	22.40	22.54	22.50	23.6	0.0
Channel								
Frequency (MHz)				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	22.51	22.50	22.43	23.6	0.0
Channel								
Frequency (MHz)				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	22.48	22.54	22.53	23.6	0.0
Channel								
Frequency (MHz)				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	22.35	22.50	22.49	23.6	0.0
Channel								
Frequency (MHz)				3720	3840	3960	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	22.56	22.57	22.52	23.6	0.0
Channel								
Frequency (MHz)				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.52	22.59	22.49	23.6	0.0
Channel								
Frequency (MHz)				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	22.48	22.49	22.52	23.6	0.0
Channel								
Frequency (MHz)				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.54	22.50	22.46	23.6	0.0
Channel								
Frequency (MHz)				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.52	22.57	22.45	23.6	0.0
Channel								
Frequency (MHz)				3705	3840	3975	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.51	22.56	22.44	23.6	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	19.79	19.82	19.70	20.5	0.0
100	PI2 BPSK	1	137	19.80	19.82	19.81		
100	PI2 BPSK	1	271	19.78	19.78	19.71		
100	PI2 BPSK	135	0	19.22	19.31	19.14	20.0	0.5
100	PI2 BPSK	135	69	19.66	19.71	19.65	20.5	0.0
100	PI2 BPSK	135	138	19.27	19.27	19.23	20.0	0.5
100	PI2 BPSK	270	0	19.26	19.27	19.22	20.5	0.0
100	QPSK	1	1	19.81	19.83	19.78		
100	QPSK	1	137	19.76	19.78	19.74		
100	QPSK	1	271	19.76	19.80	19.70	19.5	1.0
100	QPSK	135	0	18.75	18.79	18.64		
100	QPSK	135	69	19.74	19.78	19.70		
100	QPSK	135	138	18.73	18.78	18.75	19.5	1.0
100	QPSK	270	0	18.77	18.78	18.68	19.5	1.0
100	16QAM	1	1	18.68	18.72	18.61		
100	64QAM	1	1	17.20	17.24	17.16		
100	256QAM	1	1	15.06	15.13	15.01	16.0	4.5
Channel								
Frequency (MHz)				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	19.82	19.82	19.72	20.5	0.0
Channel								
Frequency (MHz)				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	19.76	19.79	19.76	20.5	0.0
Channel								
Frequency (MHz)				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	19.82	19.82	19.72	20.5	0.0
Channel								
Frequency (MHz)				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	19.81	19.77	19.78	20.5	0.0
Channel								
Frequency (MHz)				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	19.79	19.78	19.76	20.5	0.0
Channel								
Frequency (MHz)				3720	3840	3960	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	19.73	19.79	19.75	20.5	0.0
Channel								
Frequency (MHz)				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	19.77	19.77	19.72	20.5	0.0
Channel								
Frequency (MHz)				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	19.76	19.79	19.77	20.5	0.0
Channel								
Frequency (MHz)				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.82	19.77	19.78	20.5	0.0
Channel								
Frequency (MHz)				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	19.75	19.78	19.75	20.5	0.0
Channel								
Frequency (MHz)				3705	3840	3975	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	19.74	19.75	19.81	20.5	0.0

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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)	MPR (dB)
Channel				650000	650000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	22.51	22.23	22.44	23.5	0.0
100	PI2 BPSK	1	137	22.27	22.32	22.34		
100	PI2 BPSK	1	271	22.44	22.55	22.46		
100	PI2 BPSK	135	0	21.99	21.96	21.92	23.0	0.5
100	PI2 BPSK	135	69	22.24	22.32	22.39	23.5	0.0
100	PI2 BPSK	135	138	22.01	22.12	21.97	23.0	0.5
100	PI2 BPSK	270	0	22.00	22.06	21.82	23.5	0.0
100	QPSK	1	1	22.42	22.57	22.46		
100	QPSK	1	137	22.41	22.35	22.45		
100	QPSK	1	271	22.51	22.44	22.50	22.5	1.0
100	QPSK	135	0	21.38	21.47	21.43		
100	QPSK	135	69	22.32	22.56	22.42		
100	QPSK	135	138	21.40	21.58	21.36	22.5	1.0
100	QPSK	270	0	21.58	21.52	21.47	22.5	1.0
100	16QAM	1	1	21.37	21.48	21.33		
100	64QAM	1	1	20.08	20.03	19.94		
100	256QAM	1	1	18.07	17.94	18.10	19.0	4.5
Channel				650000	650000	662000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	22.37	22.50	22.35	23.5	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				7474.01	7500	7503.02		
80	QPSK	1	1	22.39	22.42	22.39	23.5	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	22.43	22.38	22.40	23.5	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				8730.02	3840	8640.01		
60	QPSK	1	1	22.45	22.40	22.38	23.5	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	22.40	22.43	22.37	23.5	0.0
Channel				647668	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2720	3840	3960		
40	QPSK	1	1	22.36	22.49	22.41	23.5	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.02	3840	3970.01		
30	QPSK	1	1	22.42	22.38	22.30	23.5	0.0
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	22.43	22.42	22.33	23.5	0.0
Channel				647425	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	22.34	22.43	22.34	23.5	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	22.39	22.46	22.38	23.5	0.0
Channel				646900	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	22.35	22.47	22.31	23.5	0.0



Part270 n78 Ant 7 ECI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1	22.40			23.6	0.0	
100	PI2 BPSK	1	137	22.46					
100	PI2 BPSK	1	271	22.52					
100	PI2 BPSK	135	0	22.08			23.5	0.1	
100	PI2 BPSK	135	69	22.51			23.6	0.0	
100	PI2 BPSK	135	138	22.05			23.5	0.1	
100	PI2 BPSK	270	0	21.94					
100	QPSK	1	1	21.43			23.6	0.0	
100	QPSK	1	137	22.38					
100	QPSK	1	271	22.43					
100	QPSK	135	0	21.62			23.0	0.6	
100	QPSK	135	69	22.48			23.6	0.0	
100	QPSK	135	138	21.43			23.0	0.6	
100	QPSK	270	0	21.62					
100	16QAM	1	1	21.50			23.0	0.6	
100	64QAM	1	1	19.99			21.5	2.1	
100	256QAM	1	1	18.02			19.5	4.1	
Channel				648668	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	3750	3755.01	
90	QPSK	1	1	22.34	22.43	22.40	23.6	0.0	
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	3750	3760.02	
80	QPSK	1	1	22.39	22.41	22.39	23.6	0.0	
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	3750	3765	
70	QPSK	1	1	22.33	22.43	22.42	23.6	0.0	
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3740.02	3750	3750.01	3750	3750.01	
60	QPSK	1	1	22.44	22.49	22.45	23.6	0.0	
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	3750	3775.02	
50	QPSK	1	1	22.34	22.51	22.39	23.6	0.0	
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	3750	3780	
40	QPSK	1	1	22.37	22.49	22.38	23.6	0.0	
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3735.01	3750	3735.01	
30	QPSK	1	1	22.35	22.52	22.37	23.6	0.0	
Channel				647500	650000	652500	Tune-up limit	MPR	
Frequency (MHz)				3712.5	3750	3787.5	3750	3787.5	
25	QPSK	1	1	22.34	22.51	22.43	23.6	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	3750	3790.02	
20	QPSK	1	1	22.33	22.43	22.45	23.6	0.0	
Channel				647168	650000	652834	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3750	3792.51	3750	3792.51	
15	QPSK	1	1	22.36	22.46	22.39	23.6	0.0	
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	3750	3795	
10	QPSK	1	1	22.36	22.43	22.46	23.6	0.0	

Part270 n78 other PA Ant 7 ECI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low	Power Middle	Power High	Tune-up limit (dbm)	MPR (db)	
				Ch. / Freq. 650000	Ch. / Freq. 650000	Ch. / Freq. 650000			
Channel				3750	3750	3750			
Frequency (MHz)									
100	PI2 BPSK	1	1	19.81			20.5	0.0	
100	PI2 BPSK	1	137	19.71					
100	PI2 BPSK	1	271	19.68					
100	PI2 BPSK	135	0	19.24			20.0	0.5	
100	PI2 BPSK	135	69	19.70			20.5	0.0	
100	PI2 BPSK	135	138	19.25			20.0	0.5	
100	PI2 BPSK	270	0	19.23					
100	QPSK	1	1	19.62			20.5	0.0	
100	QPSK	1	137	19.76					
100	QPSK	1	271	19.76					
100	QPSK	135	0	19.78			19.5	1.0	
100	QPSK	135	69	19.72			20.5	0.0	
100	QPSK	135	138	19.77			19.5	1.0	
100	QPSK	270	0	19.75					
100	16QAM	1	1	19.74			19.5	1.0	
100	64QAM	1	1	17.34			18.0	2.5	
100	256QAM	1	1	15.19			16.0	4.5	
Channel				648668	650000	650334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3745.02	3750	3755.01	3750	3755.01	
90	QPSK	1	1	19.72	19.77	19.74	20.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3740.01	3750	3760.02	3750	3760.02	
80	QPSK	1	1	19.63	19.80	19.69	20.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3735	3750	3765	3750	3765	
70	QPSK	1	1	19.64	19.69	19.68	20.5	0.0	
Channel				648668	650000	651334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3730.02	3750	3730.01	3750	3730.01	
60	QPSK	1	1	19.67	19.75	19.70	20.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3725.01	3750	3775.02	3750	3775.02	
50	QPSK	1	1	19.75	19.73	19.69	20.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3720	3750	3780	3750	3780	
40	QPSK	1	1	19.66	19.76	19.69	20.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3715.02	3750	3715.01	3750	3715.01	
30	QPSK	1	1	19.66	19.76	19.69	20.5	0.0	
Channel				647500	650000	652500	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3712.5	3750	3787.5	3750	3787.5	
25	QPSK	1	1	19.67	19.74	19.68	20.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3710.01	3750	3790.02	3750	3790.02	
20	QPSK	1	1	19.64	19.74	19.68	20.5	0.0	
Channel				647168	650000	652834	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3707.52	3750	3792.51	3750	3792.51	
15	QPSK	1	1	19.68	19.69	19.73	20.5	0.0	
Channel				647000	650000	653000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				3705	3750	3795	3750	3795	
10	QPSK	1	1	19.64	19.79	19.75	20.5	0.0	

Part270 n78 other PA HPUE Ant 7 ECI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1	22.28			23.5	0.0	
100	PI2 BPSK	1	137	22.39					
100	PI2 BPSK	1	271	22.44					
100	PI2 BPSK	135	0	21.91			23.0	0.5	
100	PI2 BPSK	135	69	22.40			23.5	0.0	
100	PI2 BPSK	135	138	21.97			23.0	0.5	
100	PI2 BPSK	270	0	21.80					
100	QPSK	1	1	22.58			23.5	0.0	
100	QPSK	1	137	22.26					
100	QPSK	1	271	22.28					
100	QPSK	135	0	21.52			22.5	1.0	
100	QPSK	135	69	22.32			23.5	0.0	
100	QPSK	135	138	21.32			22.5	1.0	
100	QPSK	270	0	21.46					
100	16QAM	1	1	21.38			22.5	1.0	
100	64QAM	1	1	19.89			21.0	2.5	
100	256QAM	1	1	17.91			19.0	4.5	
Channel									
Frequency (MHz)				646660	650000	650334	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	22.59	23.34	23.50	23.5	0.0	
Channel									
Frequency (MHz)				646334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	22.40	23.30	23.28	23.5	0.0	
Channel									
Frequency (MHz)				3735	3750	3765	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	22.24	22.29	22.23	23.5	0.0	
Channel									
Frequency (MHz)				646668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	22.26	22.26	22.25	23.5	0.0	
Channel									
Frequency (MHz)				646334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	22.25	22.25	22.25	23.5	0.0	
Channel									
Frequency (MHz)				646000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	22.24	22.28	22.22	23.5	0.0	
Channel									
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	22.28	22.30	22.32	23.5	0.0	
Channel									
Frequency (MHz)				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	22.20	22.35	22.29	23.5	0.0	
Channel									
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	22.17	22.36	22.30	23.5	0.0	
Channel									
Frequency (MHz)				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	22.17	22.36	22.51	23.5	0.0	
Channel									
Frequency (MHz)				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	22.17	22.32	22.24	23.5	0.0	

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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)	MPR (dB)
Channel				655000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	21.35	21.40	21.24	22.6	0.0
100	PI/2 BPSK	1	137	21.35	21.37	21.26		
100	PI/2 BPSK	1	271	21.27	21.33	21.20		
100	PI/2 BPSK	135	0	21.30	21.38	21.34		
100	PI/2 BPSK	135	69	21.36	21.37	21.32	22.6	0.0
100	PI/2 BPSK	135	138	21.27	21.35	21.32	22.6	0.0
100	PI/2 BPSK	270	0	21.31	21.34	21.33	22.6	0.0
100	QPSK	1	1	21.37	21.45	21.36		
100	QPSK	1	137	21.36	21.32	21.28		
100	QPSK	1	271	21.28	21.35	21.29		
100	QPSK	135	0	21.30	21.30	21.29	22.6	0.0
100	QPSK	135	69	21.33	21.44	21.34	22.6	0.0
100	QPSK	135	138	21.32	21.34	21.24	22.6	0.0
100	QPSK	270	0	21.28	21.32	21.31	22.6	0.0
100	16QAM	1	1	21.32	21.26	21.26	22.6	0.0
100	64QAM	1	1	21.35	21.40	21.34	22.6	0.0
100	256QAM	1	1	21.30	21.36	21.33	22.5	0.1
Channel				649668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01	22.6	0.0
90	QPSK	1	1	21.32	21.39	21.26	22.6	0.0
Channel				649334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3740	3940.02	22.6	0.0
80	QPSK	1	1	21.32	21.43	21.53	22.6	0.0
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945	22.6	0.0
70	QPSK	1	1	21.28	21.38	21.28	22.6	0.0
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	22.6	0.0
60	QPSK	1	1	21.31	21.36	21.34	22.6	0.0
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	22.6	0.0
50	QPSK	1	1	21.27	21.43	21.26	22.6	0.0
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	22.6	0.0
40	QPSK	1	1	21.30	21.43	21.25	22.6	0.0
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3965.01	22.6	0.0
30	QPSK	1	1	21.25	21.44	21.25	22.6	0.0
Channel				647500	650000	664500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3840	3967.5	22.6	0.0
25	QPSK	1	1	21.35	21.39	21.24	22.6	0.0
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	22.6	0.0
20	QPSK	1	1	21.30	21.33	21.32	22.6	0.0
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51	22.6	0.0
15	QPSK	1	1	21.31	21.43	21.26	22.6	0.0
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975	22.6	0.0
10	QPSK	1	1	21.28	21.37	21.36	22.6	0.0

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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)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		21.33		22.6	0.0
100	PI/2 BPSK	1	137		21.29			
100	PI/2 BPSK	1	271		21.28			
100	PI/2 BPSK	135	0		21.27			
100	PI/2 BPSK	135	69		21.33		22.6	0.0
100	PI/2 BPSK	135	138		21.31		22.6	0.0
100	PI/2 BPSK	270	0		21.33		22.6	0.0
100	QPSK	1	1		21.27			
100	QPSK	1	137		21.33			
100	QPSK	1	271		21.34			
100	QPSK	135	0		21.32		22.6	0.0
100	QPSK	135	69		21.35		22.6	0.0
100	QPSK	135	138		21.29		22.6	0.0
100	QPSK	270	0		21.34		22.6	0.0
100	16QAM	1	1		21.30		22.6	0.0
100	64QAM	1	1		21.31		22.6	0.0
100	256QAM	1	1		21.28		22.5	0.1
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01	22.6	0.0
90	QPSK	1	1	21.27	21.32	21.31	22.6	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02	22.6	0.0
80	QPSK	1	1	21.32	21.35	21.25	22.6	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765	22.6	0.0
70	QPSK	1	1	21.30	21.29	21.30	22.6	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01	22.6	0.0
60	QPSK	1	1	21.26	21.36	21.36	22.6	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02	22.6	0.0
50	QPSK	1	1	21.32	21.34	21.26	22.6	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780	22.6	0.0
40	QPSK	1	1	21.23	21.31	21.29	22.6	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01	22.6	0.0
30	QPSK	1	1	21.30	21.35	21.28	22.6	0.0
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3750	3787.5	22.6	0.0
25	QPSK	1	1	21.33	21.30	21.29	22.6	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02	22.6	0.0
20	QPSK	1	1	21.30	21.28	21.30	22.6	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51	22.6	0.0
15	QPSK	1	1	21.28	21.29	21.32	22.6	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795	22.6	0.0
10	QPSK	1	1	21.29	21.33	21.30	22.6	0.0



Reduced Power Mode for ECI 7

n5 Ant 0 ECI7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166600	167300	167800	24.0	0.0
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	22.50	22.64	22.55	24.0	0.0
20	PI/2 BPSK	1	53	22.56	22.69	22.56		
20	PI/2 BPSK	1	104	22.53	22.64	22.50		
20	PI/2 BPSK	50	0	22.04	22.13	22.00		
20	PI/2 BPSK	50	28	22.48	22.57	22.54	24.0	0.0
20	PI/2 BPSK	50	56	22.01	22.14	22.03	23.5	0.5
20	PI/2 BPSK	100	0	22.07	22.19	22.06	24.0	0.0
20	QPSK	1	1	22.63	22.65	22.61		
20	QPSK	1	53	22.50	22.61	22.59		
20	QPSK	1	104	22.62	22.64	22.58		
20	QPSK	50	0	21.53	21.57	21.47	23.0	1.0
20	QPSK	50	28	22.54	22.57	22.48	24.0	0.0
20	QPSK	50	56	21.50	21.56	21.52	23.0	1.0
20	QPSK	100	0	21.50	21.59	21.57	23.0	1.0
20	16QAM	1	1	21.21	21.33	21.20		
20	64QAM	1	1	19.77	19.87	19.77		
20	256QAM	1	1	18.41	18.47	18.44		
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5	24.0	0.0
15	QPSK	1	1	22.58	22.62	22.49	24.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844	24.0	0.0
10	QPSK	1	1	22.53	22.63	22.61	24.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5	24.0	0.0
5	QPSK	1	1	22.56	22.62	22.55	24.0	0.0

n26 Ant 0 EC17								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				164400	166300	167800	24.0	0.0
Frequency (MHz)				824	831.5	839		
20	PI2 BPSK	1	1	22.90	22.91	22.89	24.0	0.0
20	PI2 BPSK	1	53	22.87	22.88	22.84		
20	PI2 BPSK	1	104	22.81	22.88	22.82		
20	PI2 BPSK	50	0	22.45	22.47	22.40		
20	PI2 BPSK	50	28	22.86	22.88	22.84	24.0	0.5
20	PI2 BPSK	50	56	22.42	22.46	22.43	23.5	0.5
20	PI2 BPSK	100	0	22.44	22.48	22.47	24.0	0.0
20	QPSK	1	1	22.94	22.96	22.93		
20	QPSK	1	53	22.87	22.94	22.86		
20	QPSK	1	104	22.89	22.91	22.86		
20	QPSK	50	0	21.98	21.92	21.84	23.0	1.0
20	QPSK	50	28	22.86	22.89	22.84	24.0	0.0
20	QPSK	50	56	21.90	21.86	21.91	23.0	1.0
20	QPSK	100	0	21.88	21.93	21.90	23.0	1.0
20	16QAM	1	1	21.68	21.70	21.67		
20	64QAM	1	1	20.26	20.28	20.24		
20	256QAM	1	1	18.84	18.89	18.82		
Channel				164300	166300	168300	Tune-up limit	MPR
Frequency (MHz)				821.5	831.5	841.5	24.0	0.0
15	QPSK	1	1	22.92	22.95	22.86	24.0	0.0
Channel				163800	166300	168800	Tune-up limit	MPR
Frequency (MHz)				819	831.5	844	24.0	0.0
10	QPSK	1	1	22.93	22.94	22.87	24.0	0.0
Channel				163300	166300	169300	Tune-up limit	MPR
Frequency (MHz)				816.5	831.5	846.5	24.0	0.0
5	QPSK	1	1	22.91	22.94	22.88	24.0	0.0



n2 Ant 1 EC17									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (db)	
Channel				376000	376000	376000			
Frequency (MHz)				1870	1880	1890			
40	P12 BPSK	1	1	19.97	20.10	20.04	21.4	0.0	
40	P12 BPSK	1	108	20.05	20.07	19.98			
40	P12 BPSK	1	214	19.92	20.06	20.02			
40	P12 BPSK	108	0	19.65	19.73	19.69	21.4	0.0	
40	P12 BPSK	108	54	20.18	20.20	20.16	21.4	0.0	
40	P12 BPSK	108	108	20.27	20.26	20.17	21.4	0.0	
40	P12 BPSK	216	0	20.27	20.30	20.19	21.4	0.0	
40	QPSK	1	1	20.29	20.30	20.21			
40	QPSK	1	108	19.99	20.05	19.96			
40	QPSK	1	214	19.92	20.16	19.97	21.4	0.0	
40	QPSK	108	0	20.24	20.25	20.20			
40	QPSK	108	54	20.26	20.30	20.25			
40	QPSK	108	108	20.26	20.28	20.19	21.4	0.0	
40	QPSK	216	0	20.23	20.31	20.27	21.4	0.0	
40	16QAM	1	1	19.85	19.91	19.94			
40	64QAM	1	1	19.94	19.98	19.96			
40	256QAM	1	1	19.52	18.60	18.58	19.5	1.9	
Channel				372500	376000	379500	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				1867.5	1880	1892.5			
35	QPSK	1	1	20.27	20.31	20.14	24.0	0.0	
Channel				373000	376000	379000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				1902	1895	1895			
30	QPSK	1	1	20.25	20.31	20.14	24.0	0.0	
Channel				372500	376000	379500	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				1862.5	1880	1897.5			
25	QPSK	1	1	20.20	20.26	20.20	24.0	0.0	
Channel				372000	376000	380000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				1860	1880	1900			
20	QPSK	1	1	20.28	20.30	20.15	24.0	0.0	
Channel				371500	376000	380500	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	20.28	20.31	20.19	21.4	0.0	
Channel				371000	376000	381000	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	20.28	20.23	20.11	21.4	0.0	
Channel				370500	376000	381500	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	20.22	20.25	20.11	21.4	0.0	

n7 Ant 1 EC17									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	P12 BPSK	1	1	17.88	17.93	17.82	19.3	0.0	
50	P12 BPSK	1	135	17.74	17.79	17.83			
50	P12 BPSK	1	268	17.80	17.89	17.88			
50	P12 BPSK	135	0	17.97	18.02	18.01	19.3	0.0	
50	P12 BPSK	135	68	18.00	18.00	17.98	19.3	0.0	
50	P12 BPSK	135	135	17.97	18.03	17.98	19.3	0.0	
50	P12 BPSK	270	0	17.94	18.08	18.05	19.3	0.0	
50	QPSK	1	1	18.02	18.10	18.08			
50	QPSK	1	135	17.78	17.90	17.77			
50	QPSK	1	268	17.79	17.90	17.80	19.3	0.0	
50	QPSK	135	0	17.84	18.02	17.97			
50	QPSK	135	68	17.89	18.08	18.05			
50	QPSK	135	135	17.90	18.03	17.97	19.3	0.0	
50	QPSK	270	0	18.04	18.07	18.06	19.3	0.0	
50	16QAM	1	1	17.53	17.61	17.66			
50	64QAM	1	1	17.75	17.80	17.72			
50	256QAM	1	1	17.86	18.00	17.83	19.3	0.0	
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550			
40	QPSK	1	1	17.96	18.07	17.97	19.3	0.0	
Channel				503000	507000	510500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2517.5	2535	2552.5			
35	QPSK	1	1	17.99	18.07	17.97	19.3	0.0	
Channel				501000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	17.93	17.99	18.05	19.3	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	17.95	18.08	18.00	19.3	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	P12 BPSK	1	1	18.01	17.98	17.89	19.3	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	17.93	18.00	17.96	19.3	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	17.92	18.04	18.04	19.3	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	17.98	18.01	17.98	19.3	0.0	

n66 Ant 1 EC17									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346500	348000	351500			
Frequency (MHz)				1732.5	1745	1757.5			
45	P12 BPSK	1	1	20.57	20.72	20.72	21.9	0.0	
45	P12 BPSK	1	120	20.56	20.66	20.64			
45	P12 BPSK	1	240	20.48	20.73	20.68			
45	P12 BPSK	120	0	20.72	20.80	20.76	21.9	0.0	
45	P12 BPSK	120	60	20.65	20.78	20.74	21.9	0.0	
45	P12 BPSK	120	120	20.78	20.82	20.78	21.9	0.0	
45	P12 BPSK	240	0	20.77	20.81	20.80	21.9	0.0	
45	QPSK	1	1	20.74	20.83	20.73			
45	QPSK	1	120	20.80	20.73	20.69			
45	QPSK	1	240	20.68	20.73	20.69	21.9	0.0	
45	QPSK	120	0	20.72	20.74	20.75			
45	QPSK	120	60	20.74	20.78	20.75			
45	QPSK	120	120	20.72	20.75	20.69	21.9	0.0	
45	QPSK	240	0	20.68	20.74	20.69	21.9	0.0	
45	16QAM	1	1	20.39	20.50	20.52			
45	64QAM	1	1	19.98	20.03	20.00			
45	256QAM	1	1	18.59	18.65	18.62	19.5	2.4	
Channel				345000	348000	352000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	20.66	20.73	20.63	24.0	0.0	
Channel				345500	348000	352500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1727.5	1745	1762.5			
35	QPSK	1	1	20.74	20.72	20.72	24.0	0.0	
Channel				345000	348000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	20.71	20.81	20.63	21.9	0.0	
Channel				344500	348000	353500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1767.5			
25	QPSK	1	1	20.64	20.74	20.73	21.9	0.0	
Channel				344000	348000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	20.74	20.81	20.62	21.9	0.0	
Channel				343500	348000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	20.71	20.74	20.68	21.9	0.0	
Channel				343000	348000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	20.70	20.72	20.61	21.9	0.0	
Channel				342500	348000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	20.69	20.73	20.72	21.9	0.0	



n2 Ant 4 ECI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				376000	376000	376000			
Frequency (MHz)				1870	1880	1890			
40	PV2 BPSK	1	1	15.10	15.19	15.08			
40	PV2 BPSK	1	108	15.18	15.11	15.11	16.2	0.0	
40	PV2 BPSK	1	214	15.02	15.10	15.16			
40	PV2 BPSK	108	0	15.16	15.18	15.09	16.2	0.0	
40	PV2 BPSK	108	54	15.09	15.16	15.08	16.2	0.0	
40	PV2 BPSK	108	108	15.10	15.19	15.16			
40	PV2 BPSK	216	0	15.08	15.15	15.10			
40	QPSK	1	1	15.16	15.21	15.15			
40	QPSK	1	108	15.10	15.18	15.13	16.2	0.0	
40	QPSK	1	214	15.18	15.20	15.11			
40	QPSK	108	0	15.12	15.14	15.11	16.2	0.0	
40	QPSK	108	54	15.08	15.15	15.14			
40	QPSK	108	108	15.10	15.11	15.11	16.2	0.0	
40	QPSK	216	0	15.11	15.12	15.08			
40	16QAM	1	1	15.14	15.18	15.10	16.2	0.0	
40	64QAM	1	1	15.16	15.20	15.17	16.2	0.0	
40	256QAM	1	1	15.19	15.20	15.14	16.2	0.0	
Channel				372500	376000	376000	Tune-up limit (dBm)	MPR (dB)	
35	QPSK	1	1	15.11	15.11	15.15	24.0	0.0	
Channel				373000	376000	379000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1905	1910	1905			
30	QPSK	1	1	15.08	15.10	15.03	24.0	0.0	
Channel				372500	376000	379000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1880	1867.5			
25	QPSK	1	1	15.06	15.11	15.13	24.0	0.0	
Channel				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1880	1890			
20	QPSK	1	1	15.05	15.09	15.11	24.0	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1892.5			
15	QPSK	1	1	15.06	15.13	15.05	16.2	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1895			
10	QPSK	1	1	15.16	15.15	15.03	16.2	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1897.5			
5	QPSK	1	1	15.13	15.14	15.04	16.2	0.0	

n5 Ant 4 ECI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167000	167800			
Frequency (MHz)				834	836.5	839			
20	PV2 BPSK	1	1	22.63	22.67	22.61			
20	PV2 BPSK	1	53	22.58	22.65	22.60	24.0	0.0	
20	PV2 BPSK	1	104	22.58	22.63	22.57			
20	PV2 BPSK	50	0	21.94	22.08	22.02	23.5	0.5	
20	PV2 BPSK	50	28	22.38	22.49	22.44	24.0	0.0	
20	PV2 BPSK	50	56	21.99	22.09	21.95	23.5	0.5	
20	PV2 BPSK	100	0	22.08	22.10	22.06			
20	QPSK	1	1	22.64	22.68	22.62			
20	QPSK	1	53	22.64	22.66	22.60	24.0	0.0	
20	QPSK	1	104	22.64	22.67	22.60			
20	QPSK	50	0	21.42	21.56	21.47	23.0	1.0	
20	QPSK	50	28	22.45	22.55	22.53	24.0	0.0	
20	QPSK	50	56	21.40	21.53	21.46	23.0	1.0	
20	QPSK	100	0	21.52	21.59	21.52			
20	16QAM	1	1	21.33	21.43	21.35	23.0	1.0	
20	64QAM	1	1	19.93	19.96	19.91	21.5	2.5	
20	256QAM	1	1	18.54	18.61	18.59	19.5	4.5	
Channel				165300	167000	167500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	22.57	22.64	22.58	24.0	0.0	
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				820	836.5	844			
10	QPSK	1	1	22.65	22.68	22.61	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	22.62	22.63	22.59	24.0	0.0	

n7 Ant 4 ECI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				502000	507000	509000			
Frequency (MHz)				2525	2535	2545			
50	PV2 BPSK	1	1	14.78	14.98	14.90			
50	PV2 BPSK	1	135	14.78	14.89	14.74	15.9	0.0	
50	PV2 BPSK	1	268	14.78	14.82	14.85			
50	PV2 BPSK	135	0	14.86	14.86	14.93	15.9	0.0	
50	PV2 BPSK	135	68	14.83	14.91	14.89	15.9	0.0	
50	PV2 BPSK	135	135	14.85	14.87	14.91	15.9	0.0	
50	PV2 BPSK	270	0	14.87	14.92	14.90			
50	QPSK	1	1	14.82	15.00	14.87			
50	QPSK	1	135	14.75	14.95	14.75	15.9	0.0	
50	QPSK	1	268	14.73	14.93	14.82			
50	QPSK	135	0	14.83	14.88	14.88	15.9	0.0	
50	QPSK	135	68	14.90	14.95	14.89	15.9	0.0	
50	QPSK	135	135	14.84	14.92	14.90	15.9	0.0	
50	QPSK	270	0	14.87	14.97	14.89			
50	16QAM	1	1	14.55	14.66	14.58	15.9	0.0	
50	64QAM	1	1	14.58	14.67	14.66	15.9	0.0	
50	256QAM	1	1	14.85	14.96	14.91	15.9	0.0	
Channel				502000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550			
40	QPSK	1	1	14.76	14.95	14.83	15.9	0.0	
Channel				503500	507000	510500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2517.5	2535	2552.5			
35	QPSK	1	1	14.81	14.96	14.86	23.0	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	14.74	14.94	14.82	15.9	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	14.76	14.94	14.77	15.9	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PV2 BPSK	1	1	14.71	14.92	14.80	15.9	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	14.78	14.92	14.76	15.9	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	14.81	14.93	14.75	15.9	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	14.78	14.92	14.84	15.9	0.0	

n26 Ant 4 ECI7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				168500	169300	167600	24.0	0.0
Frequency (MHz)				824	831.5	839		
20	PI2 BPSK	1	1	22.78	22.84	22.79		
20	PI2 BPSK	1	53	22.73	22.81	22.83	23.5	0.5
20	PI2 BPSK	1	104	22.77	22.84	22.77		
20	PI2 BPSK	50	0	22.06	22.25	22.19		
20	PI2 BPSK	50	28	22.62	22.71	22.67	24.0	0.0
20	PI2 BPSK	50	58	22.16	22.26	22.22		
20	PI2 BPSK	100	0	22.05	22.21	22.19		
20	QPSK	1	1	22.78	22.85	22.81	24.0	0.0
20	QPSK	1	53	22.81	22.84	22.81		
20	QPSK	1	104	22.78	22.82	22.80		
20	QPSK	50	0	21.82	21.68	21.63	24.0	1.0
20	QPSK	50	28	22.81	22.70	22.66		
20	QPSK	50	58	21.80	21.74	21.68		
20	QPSK	100	0	21.72	21.75	21.74	23.0	1.0
20	16QAM	1	1	21.48	21.53	21.49		
20	64QAM	1	1	20.04	20.10	20.07		
20	256QAM	1	1	18.61	18.70	18.65	19.5	4.5
Channel				164300	165300	165300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	22.75	22.80	22.79	24.0	0.0
Channel				163800	166300	166800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				812	831.5	844		
10	QPSK	1	1	22.74	22.70	22.78	24.0	0.0
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	22.70	22.80	22.75	24.0	0.0

n66 Ant 4 ECI7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				345500	349000	351500	17.0	0.0
Frequency (MHz)				1732.5	1745	1757.5		
45	PI2 BPSK	1	1	15.80	15.94	15.93		
45	PI2 BPSK	1	120	15.84	15.92	15.89	17.0	0.0
45	PI2 BPSK	1	240	15.93	15.94	15.86		
45	PI2 BPSK	120	0	15.86	15.94	15.89		
45	PI2 BPSK	120	60	15.86	15.91	15.81	17.0	0.0
45	PI2 BPSK	120	120	15.87	15.89	15.89		
45	PI2 BPSK	240	0	15.87	15.95	15.95		
45	QPSK	1	1	15.82	15.96	15.94	17.0	0.0
45	QPSK	1	120	15.84	15.88	15.89		
45	QPSK	1	240	15.95	15.97	15.93		
45	QPSK	120	0	15.88	15.90	15.86	17.0	0.0
45	QPSK	120	60	15.81	15.92	15.89		
45	QPSK	120	120	15.82	15.91	15.89		
45	QPSK	240	0	15.88	15.97	15.95	17.0	0.0
45	16QAM	1	1	15.62	15.66	15.57		
45	64QAM	1	1	15.00	15.67	15.66		
45	256QAM	1	1	15.87	15.95	15.87	17.0	0.0
Channel				349000	349000	352000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1730	1745	1760		
40	QPSK	1	1	15.81	15.92	15.90	24.0	0.0
Channel				345500	349000	352500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1727.5	1745	1762.5		
35	QPSK	1	1	15.80	15.94	15.91	24.0	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	15.82	15.88	15.93	17.0	0.0
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	15.82	15.97	15.91	17.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	15.82	15.96	15.89	17.0	0.0
Channel				343500	35000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	15.86	15.97	15.87	17.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	15.83	15.96	15.86	17.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	15.90	15.96	15.87	17.0	0.0

n38 Ant 0 ECI7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				516004	516000	516996	22.0	0.0
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	21.01	21.07	21.07		
40	PI/2 BPSK	1	53	21.01	21.14	21.03		
40	PI/2 BPSK	1	104	21.03	21.01	21.09	21.5	0.5
40	PI/2 BPSK	50	0	20.55	20.66	20.61		
40	PI/2 BPSK	50	28	20.97	21.14	21.05		
40	PI/2 BPSK	50	56	20.46	20.66	20.58		
40	PI/2 BPSK	100	0	20.54	20.54	20.48	22.0	0.0
40	QPSK	1	1	21.06	21.23	21.07		
40	QPSK	1	53	21.01	21.13	21.04		
40	QPSK	1	104	21.06	21.14	21.05		
40	QPSK	50	0	20.06	20.12	20.05	21.0	1.0
40	QPSK	50	28	21.02	21.12	21.10	22.0	0.0
40	QPSK	80	56	20.04	20.14	20.14	21.0	1.0
40	QPSK	100	0	20.08	20.13	20.10	21.0	1.0
40	16QAM	1	1	19.58	19.64	19.62		
40	16QAM	1	1	18.07	18.10	18.07		
40	256QAM	1	1	16.76	16.82	16.71	17.5	4.5
Channel				517002	516000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	20.98	21.15	20.99	22.0	0.0
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2592.52	2595	2607.48		
25	QPSK	1	1	21.05	21.11	21.11	22.0	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	21.04	21.09	21.01	22.0	0.0
Channel				515502	519000	523498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	21.07	21.10	21.10	22.0	0.0
Channel				515004	519000	523998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	21.08	21.08	21.07	22.0	0.0

n41 Ant 0 ECI7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				506002	518998	526000	22.0	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	21.15	21.24	21.17		
100	PI/2 BPSK	1	137	21.17	21.28	21.13		
100	PI/2 BPSK	1	271	21.10	21.19	21.24	21.5	0.5
100	PI/2 BPSK	135	0	20.83	20.74	20.72		
100	PI/2 BPSK	135	69	21.12	21.22	21.12		
100	PI/2 BPSK	135	138	20.62	20.76	20.74		
100	PI/2 BPSK	270	0	20.65	20.71	20.65	22.0	0.0
100	QPSK	1	1	21.16	21.26	21.22		
100	QPSK	1	137	21.15	21.27	21.14		
100	QPSK	1	271	21.17	21.26	21.21		
100	QPSK	135	0	20.16	20.24	20.23	21.0	1.0
100	QPSK	135	69	21.18	21.25	21.20	22.0	0.0
100	QPSK	135	138	20.16	20.22	20.21	21.0	1.0
100	QPSK	270	0	20.22	20.29	20.25		
100	16QAM	1	1	19.68	19.74	19.71	21.0	1.0
100	16QAM	1	1	18.21	18.27	18.24	19.5	2.5
100	256QAM	1	1	16.87	16.91	16.88	17.5	4.5
Channel				506002	518998	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	21.15	21.23	21.17	22.0	0.0
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2530.02	2592.99	2649.99		
80	QPSK	1	1	21.11	21.22	21.14	22.0	0.0
Channel				506002	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2665		
70	QPSK	1	1	21.17	21.21	21.20	22.0	0.0
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2524	2592.99	2669.98		
60	QPSK	1	1	21.14	21.26	21.14	22.0	0.0
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	21.11	21.22	21.17	22.0	0.0
Channel				503200	518998	533498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.5	2592.99	2667.48		
45	QPSK	1	1	21.13	21.24	21.19	22.0	0.0
Channel				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2513.01	2592.99	2670		
40	QPSK	1	1	21.16	21.24	21.20	22.0	0.0
Channel				502704	518998	534498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2513.52	2592.99	2672.49		
35	QPSK	1	1	21.12	21.20	21.15	22.0	0.0
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	21.19	21.24	21.14	22.0	0.0
Channel				501702	518998	535500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.51	2592.99	2677.5		
25	QPSK	1	1	21.11	21.21	21.13	22.0	0.0
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	21.15	21.21	21.22	22.0	0.0
Channel				500700	518998	536498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.15	2592.99	2682.48		
15	QPSK	1	1	21.10	21.23	21.25	22.0	0.0
Channel				500202	518998	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	21.08	21.28	21.19	22.0	0.0

n38 Ant 1 ECI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				516004	519000	519996	19.4	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	18.00	18.09	18.04			
40	PI/2 BPSK	1	53	17.99	17.99	18.06	19.4	0.0	
40	PI/2 BPSK	1	104	18.02	18.03	17.98			
40	PI/2 BPSK	50	0	18.13	18.21	18.13			
40	PI/2 BPSK	50	28	18.11	18.14	18.09	19.4	0.0	
40	PI/2 BPSK	50	56	18.10	18.20	18.19			
40	PI/2 BPSK	100	0	18.07	18.18	18.12			
40	QPSK	1	1	18.10	18.25	18.12	19.4	0.0	
40	QPSK	1	53	18.03	18.06	18.01			
40	QPSK	1	104	18.05	18.08	18.06			
40	QPSK	50	0	18.08	18.23	18.21	19.4	0.0	
40	QPSK	50	28	18.06	18.21	18.11			
40	QPSK	50	56	18.13	18.20	18.13			
40	QPSK	100	0	18.08	18.22	18.14	19.4	0.0	
40	16QAM	1	1	17.78	17.86	17.83			
40	64QAM	1	1	17.76	17.93	17.87		19.4	
40	256QAM	1	1	18.06	18.13	18.10			
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99	19.4	0.0	
30	QPSK	1	1	18.00	18.16	18.07			
Channel				516504	519000	521496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2582.52	2595	2607.48	19.4	0.0	
25	QPSK	1	1	18.03	18.21	18.11			
Channel				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610	19.4	0.0	
20	QPSK	1	1	18.00	18.14	18.05			
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49	19.4	0.0	
15	QPSK	1	1	18.08	18.23	18.02			
Channel				515004	519000	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98	19.4	0.0	
10	QPSK	1	1	17.98	18.19	18.05			

n41 Ant 1 ECI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518998	520000	19.4	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	18.08	18.26	18.06			
100	PI/2 BPSK	1	137	18.01	18.17	17.99	19.4	0.0	
100	PI/2 BPSK	1	271	18.13	18.27	18.07			
100	PI/2 BPSK	135	0	18.05	18.22	18.04		19.4	
100	PI/2 BPSK	135	69	18.00	18.21	17.87			
100	PI/2 BPSK	135	138	18.02	18.29	18.03	19.4	0.0	
100	PI/2 BPSK	270	0	18.09	18.31	18.05			
100	QPSK	1	1	18.13	18.33	18.15			
100	QPSK	1	137	18.14	18.28	18.15	19.4	0.0	
100	QPSK	1	271	18.14	18.30	18.11			
100	QPSK	135	0	18.13	18.22	17.95		19.4	
100	QPSK	135	69	18.16	18.32	18.14			
100	QPSK	135	138	18.16	18.28	18.16	19.4	0.0	
100	QPSK	270	0	18.15	18.29	18.17			
100	16QAM	1	1	17.76	17.89	17.87		19.4	
100	64QAM	1	1	17.84	17.86	17.82			
100	256QAM	1	1	18.16	18.25	18.17		19.4	
Channel				506002	518998	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	19.4	0.0	
90	QPSK	1	1	18.08	18.28	18.04			
Channel				507204	518998	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2538.02	2592.99	2648.99	19.4	0.0	
80	QPSK	1	1	18.03	18.29	18.14			
Channel				506202	518998	521000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655	19.4	0.0	
70	QPSK	1	1	18.10	18.29	18.07			
Channel				505200	518998	521998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98	19.4	0.0	
60	QPSK	1	1	18.05	18.31	18.06			
Channel				504204	518998	522998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	19.4	0.0	
50	QPSK	1	1	18.10	18.28	18.10			
Channel				503200	518998	523998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2518.5	2592.99	2667.48	19.4	0.0	
45	QPSK	1	1	18.09	18.32	18.05			
Channel				503202	518998	524000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2513.01	2592.99	2670	19.4	0.0	
40	QPSK	1	1	18.07	18.22	18.15			
Channel				502704	518998	524498	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2513.52	2592.99	2672.49	24.0	0.0	
35	QPSK	1	1	18.12	18.28	18.11			
Channel				502200	518998	524998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98	19.4	0.0	
30	QPSK	1	1	18.09	18.22	18.12			
Channel				501702	518998	525998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2508.51	2592.99	2677.5	24.0	0.0	
25	QPSK	1	1	18.05	18.23	18.08			
Channel				501204	518998	526998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	19.4	0.0	
20	QPSK	1	1	18.12	18.23	18.12			
Channel				500700	518998	526496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.43	19.4	0.0	
15	QPSK	1	1	18.10	18.21	18.07			
Channel				500202	518998	527000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685	19.4	0.0	
10	QPSK	1	1	18.07	18.30	18.12			

n38 Ant 2 ECI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				516004	519000	519996	14.2	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	12.95	13.08	12.77	14.2	0.0	
40	PI/2 BPSK	1	53	12.87	12.94	12.80			
40	PI/2 BPSK	1	104	12.78	13.05	12.79	14.2	0.0	
40	PI/2 BPSK	50	0	12.84	12.93	12.72			
40	PI/2 BPSK	50	28	12.80	12.82	12.67	14.2	0.0	
40	PI/2 BPSK	50	56	12.68	12.81	12.78			
40	PI/2 BPSK	100	0	12.73	12.84	12.80	14.2	0.0	
40	QPSK	1	1	12.91	13.09	12.84			
40	QPSK	1	53	12.90	12.97	12.70	14.2	0.0	
40	QPSK	1	104	12.84	12.93	12.86			
40	QPSK	50	0	12.77	12.83	12.65	14.2	0.0	
40	QPSK	50	28	12.84	12.97	12.94			
40	QPSK	80	56	12.84	12.79	12.73	14.2	0.0	
40	QPSK	100	0	12.87	13.01	12.92			
40	16QAM	1	1	12.83	12.82	12.71	14.2	0.0	
40	64QAM	1	1	12.87	12.90	12.77			
40	256QAM	1	1	12.76	12.84	12.77	14.2	0.0	
Channel				517002	519000	520998			
Frequency (MHz)				2585.01	2595	2604.99	14.2	0.0	
30	QPSK	1	1	12.81	13.01	12.77			
Channel				516504	519000	521496	14.2	0.0	
Frequency (MHz)				2592.52	2595	2607.48			
25	QPSK	1	1	12.89	12.99	12.77	14.2	0.0	
Channel				516000	519000	520000			
Frequency (MHz)				2580	2595	2610	14.2	0.0	
20	QPSK	1	1	12.83	12.97	12.84		14.2	
Channel				515502	519000	524998			
Frequency (MHz)				2577.51	2595	2612.49	14.2	0.0	
15	QPSK	1	1	12.86	13.05	12.81		14.2	
Channel				515004	519000	529998			
Frequency (MHz)				2575.02	2595	2614.98	14.2	0.0	
10	QPSK	1	1	12.91	13.03	12.80			

n41 Ant 2 ECI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518998	520000	14.2	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	13.02	13.18	12.89	14.2	0.0	
100	PI/2 BPSK	1	137	13.00	13.02	12.89			
100	PI/2 BPSK	1	271	12.98	13.16	12.86	14.2	0.0	
100	PI/2 BPSK	135	0	12.95	12.99	12.88			
100	PI/2 BPSK	135	69	12.87	12.90	12.82	14.2	0.0	
100	PI/2 BPSK	135	138	12.86	12.95	12.92			
100	PI/2 BPSK	270	0	12.90	13.01	12.90	14.2	0.0	
100	QPSK	1	1	13.09	13.20	13.01			
100	QPSK	1	137	12.95	13.08	12.81	14.2	0.0	
100	QPSK	1	271	12.98	13.07	12.92			
100	QPSK	135	0	12.87	12.95	12.83	14.2	0.0	
100	QPSK	135	69	13.01	13.05	13.02			
100	QPSK	135	138	12.95	12.94	12.85	14.2	0.0	
100	QPSK	270	0	13.05	13.09	13.04			
100	16QAM	1	1	12.96	12.90	12.85	14.2	0.0	
100	64QAM	1	1	12.94	13.00	12.87			
100	256QAM	1	1	12.90	13.02	12.83	14.2	0.0	
Channel				506000	518998	520998			
Frequency (MHz)				2541	2592.99	2644.98	14.2	0.0	
90	QPSK	1	1	12.97	13.12	12.90			
Channel				507204	518998	529998	14.2	0.0	
Frequency (MHz)				2538.02	2592.99	2649.99			
80	QPSK	1	1	13.02	13.14	12.97	14.2	0.0	
Channel				506002	518998	531000			
Frequency (MHz)				2531.01	2592.99	2655	14.2	0.0	
70	QPSK	1	1	13.04	13.11	12.98		14.2	
Channel				505200	518998	531998			
Frequency (MHz)				2524	2592.99	2659.98	14.2	0.0	
60	QPSK	1	1	13.07	13.13	12.90			
Channel				504204	518998	532998	14.2	0.0	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	13.02	13.15	12.94	14.2	0.0	
Channel				503700	518998	533498			
Frequency (MHz)				2518.5	2592.99	2667.48	14.2	0.0	
45	QPSK	1	1	13.05	13.15	12.93		20.0	
Channel				503002	518998	534000			
Frequency (MHz)				2513.01	2592.99	2670	14.2	0.0	
40	QPSK	1	1	12.95	13.15	12.98			
Channel				502704	518998	534498	14.2	0.0	
Frequency (MHz)				2513.52	2592.99	2672.49			
35	QPSK	1	1	13.08	13.20	12.94	14.2	20.0	
Channel				502200	518998	534998			
Frequency (MHz)				2511	2592.99	2674.98	14.2	0.0	
30	QPSK	1	1	13.00	13.13	12.94			
Channel				501702	518998	535500	14.2	0.0	
Frequency (MHz)				2508.51	2592.99	2677.5			
25	QPSK	1	1	12.99	13.13	12.92	14.2	20.0	
Channel				501204	518998	535998			
Frequency (MHz)				2506.02	2592.99	2679.99	14.2	0.0	
20	QPSK	1	1	13.00	13.13	12.97			
Channel				500700	518998	536498	14.2	0.0	
Frequency (MHz)				2503.5	2592.99	2682.49			
15	QPSK	1	1	13.00	13.13	13.01	14.2	0.0	
Channel				500202	518998	537000			
Frequency (MHz)				2501.01	2592.99	2685	14.2	0.0	
10	QPSK	1	1	13.07	13.15	12.96			

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				655000	655000	655000	15.4	0.0
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	14.41	14.51	14.13	15.4	0.0
100	PI/2 BPSK	1	137	14.42	14.52	14.15		
100	PI/2 BPSK	1	271	14.42	14.50	14.11		
100	PI/2 BPSK	135	0	14.37	14.43	14.36		
100	PI/2 BPSK	135	69	14.38	14.41	14.39	15.4	0.0
100	PI/2 BPSK	135	138	14.37	14.45	14.37	15.4	0.0
100	PI/2 BPSK	270	0	14.47	14.45	14.39	15.4	0.0
100	QPSK	1	1	14.45	14.38	14.42		
100	QPSK	1	137	14.50	14.46	14.11		
100	QPSK	1	271	14.55	14.54	14.14		
100	QPSK	135	0	14.44	14.45	14.45	15.4	0.0
100	QPSK	135	69	14.46	14.50	14.41	15.4	0.0
100	QPSK	135	138	14.34	14.43	14.41	15.4	0.0
100	QPSK	270	0	14.41	14.49	14.38	15.4	0.0
100	16QAM	1	1	14.13	14.23	14.18		
100	64QAM	1	1	14.32	14.33	14.33		
100	256QAM	1	1	14.39	14.45	14.39		
Channel				649968	650000	650234	15.4	MPR
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	14.52	14.55	14.31	15.4	0.0
Channel				649334	650000	650668	15.4	MPR
Frequency (MHz)				3740.01	3740	3940.02		
80	QPSK	1	1	14.52	14.53	14.26	15.4	0.0
Channel				649000	650000	650300	15.4	MPR
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	14.48	14.58	14.32	15.4	0.0
Channel				648668	650000	653334	15.4	MPR
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	14.52	14.49	14.32	15.4	0.0
Channel				648334	650000	653668	15.4	MPR
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	14.49	14.58	14.31	15.4	0.0
Channel				648000	650000	654000	15.4	MPR
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	14.49	14.58	14.32	15.4	0.0
Channel				647668	650000	654334	15.4	MPR
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	14.54	14.56	14.33	15.4	0.0
Channel				647334	650000	654668	15.4	MPR
Frequency (MHz)				3710.01	3840	3970.02		
25	QPSK	1	1	14.53	14.57	14.35	15.4	0.0
Channel				647000	650000	655000	15.4	MPR
Frequency (MHz)				3712.5	3840	3967.5		
20	QPSK	1	1	14.47	14.51	14.33	15.4	0.0
Channel				647188	650000	654834	15.4	MPR
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	14.53	14.46	14.34	15.4	0.0
Channel				647000	650000	655000	15.4	MPR
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	14.45	14.54	14.31	15.4	0.0

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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)	MPR (dB)
Channel				650000	650000	650000	15.4	0.0
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		14.45		15.4	0.0
100	PI/2 BPSK	1	137		14.41			
100	PI/2 BPSK	1	271		14.37			
100	PI/2 BPSK	135	0		14.37			
100	PI/2 BPSK	135	69		14.38		15.4	0.0
100	PI/2 BPSK	135	138		14.34		15.4	0.0
100	PI/2 BPSK	270	0		14.42		15.4	0.0
100	QPSK	1	1		14.47			
100	QPSK	1	137		14.33			
100	QPSK	1	271		14.46			
100	QPSK	135	0		14.53		15.4	0.0
100	QPSK	135	69		14.42		15.4	0.0
100	QPSK	135	138		14.26		15.4	0.0
100	QPSK	270	0		14.40		15.4	0.0
100	16QAM	1	1		14.18			
100	64QAM	1	1		14.21			
100	256QAM	1	1		14.43			
Channel				649668	650000	650334	15.4	MPR
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	14.31	14.45	14.40	15.4	0.0
Channel				649334	650000	650668	15.4	MPR
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	14.24	14.37	14.26	15.4	0.0
Channel				649000	650000	651000	15.4	MPR
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	14.36	14.37	14.34	15.4	0.0
Channel				648668	650000	651334	15.4	MPR
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	14.34	14.42	14.36	15.4	0.0
Channel				648334	650000	651668	15.4	MPR
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	14.33	14.43	14.40	15.4	0.0
Channel				648000	650000	652000	15.4	MPR
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	14.30	14.44	14.36	15.4	0.0
Channel				647668	650000	652334	15.4	MPR
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	14.33	14.43	14.37	15.4	0.0
Channel				647500	650000	652500	15.4	MPR
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	14.30	14.43	14.34	15.4	0.0
Channel				647334	650000	652668	15.4	MPR
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	14.29	14.36	14.37	15.4	0.0
Channel				647188	650000	652834	15.4	MPR
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	14.31	14.38	14.40	15.4	0.0
Channel				647000	650000	653000	15.4	MPR
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	14.33	14.35	14.37	15.4	0.0

n38 Ant 4 ECI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				518004	519000	519996	16.1	0.0	
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	15.17	15.22	15.22			
40	PI/2 BPSK	1	53	15.09	15.11	15.07	16.1	0.0	
40	PI/2 BPSK	1	104	15.03	15.16	15.02			
40	PI/2 BPSK	50	0	15.13	15.22	15.18			
40	PI/2 BPSK	50	28	15.06	15.15	15.07	16.1	0.0	
40	PI/2 BPSK	50	56	15.12	15.20	15.14			
40	PI/2 BPSK	100	0	15.14	15.20	15.16			
40	QPSK	1	1	15.23	15.26	15.26	16.1	0.0	
40	QPSK	1	53	15.21	15.26	15.26			
40	QPSK	1	104	15.24	15.26	15.23			
40	QPSK	50	0	15.19	15.24	15.14	16.1	0.0	
40	QPSK	50	28	15.23	15.26	15.24			
40	QPSK	50	56	15.17	15.24	15.22			
40	QPSK	100	0	15.20	15.23	15.17	16.1	0.0	
40	16QAM	1	1	15.14	15.15	15.08			
40	64QAM	1	1	15.22	15.24	15.19		0.0	
40	256QAM	1	1	15.16	15.22	15.21			
Channel				517002	518000	518998	16.1	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	15.22	15.24	15.20			
Channel				516504	519000	521496	16.1	MPR (dB)	
Frequency (MHz)				2592.52	2595	2607.48			
25	QPSK	1	1	15.16	15.26	15.22		0.0	
Channel				516000	519000	522000	16.1	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	15.15	15.18	15.15		0.0	
Channel				515502	519000	524998	16.1	MPR (dB)	
Frequency (MHz)				2577.51	2595	2612.49			
15	QPSK	1	1	15.22	15.23	15.16		0.0	
Channel				515004	519000	525996	16.1	MPR (dB)	
Frequency (MHz)				2575.02	2595	2614.98			
10	QPSK	1	1	15.20	15.24	15.15		0.0	

n41 Ant 4 ECI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				506002	518998	526000	16.1	0.0	
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	15.15	15.17	15.07			
100	PI/2 BPSK	1	137	15.07	15.16	15.07	16.1	0.0	
100	PI/2 BPSK	1	271	15.10	15.11	15.03			
100	PI/2 BPSK	135	0	15.11	15.27	15.17		0.0	
100	PI/2 BPSK	135	69	15.18	15.23	15.19			
100	PI/2 BPSK	135	138	15.22	15.30	15.16	16.1	0.0	
100	PI/2 BPSK	270	0	15.16	15.30	15.14			
100	QPSK	1	1	15.26	15.31	15.26		16.1	
100	QPSK	1	137	15.04	15.15	15.07			
100	QPSK	1	271	15.14	15.19	15.11	16.1	0.0	
100	QPSK	135	0	15.20	15.20	15.11			
100	QPSK	135	69	15.26	15.28	15.24		16.1	
100	QPSK	135	138	15.22	15.24	15.21			
100	QPSK	270	0	15.22	15.26	15.18	16.1	0.0	
100	16QAM	1	1	15.16	15.20	15.13			
100	64QAM	1	1	15.20	15.26	15.22		0.0	
100	256QAM	1	1	15.27	15.29	15.28			
Channel				506006	518998	526000	16.1	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	15.17	15.28	15.27		16.1	
Channel				507204	518998	529998	16.1	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	15.21	15.24	15.20		0.0	
Channel				506002	518998	531000	16.1	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	15.15	15.27	15.24		16.1	
Channel				505200	518998	531998	16.1	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	15.23	15.30	15.27		16.1	
Channel				504204	518998	532998	16.1	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	15.19	15.26	15.25		16.1	
Channel				503200	518998	533998	16.1	MPR (dB)	
Frequency (MHz)				2518.5	2592.99	2667.48			
45	QPSK	1	1	15.15	15.19	15.20	24.0	0.0	
Channel				503202	518998	534000			
Frequency (MHz)				2513.01	2592.99	2670			
40	QPSK	1	1	15.10	15.23	15.24	16.1	0.0	
Channel				502704	518998	534498			
Frequency (MHz)				2513.52	2592.99	2672.49		24.0	
35	QPSK	1	1	15.22	15.30	15.24			
Channel				502200	518998	534998	16.1	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	15.20	15.30	15.18		16.1	
Channel				501702	518998	535500	16.1	MPR (dB)	
Frequency (MHz)				2508.51	2592.99	2677.5			
25	QPSK	1	1	15.17	15.21	15.25		24.0	
Channel				501204	518998	535998	16.1	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	15.18	15.22	15.26		16.1	
Channel				500700	518998	536498	16.1	MPR (dB)	
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	15.22	15.29	15.29		16.1	
Channel				500202	518998	537000	16.1	MPR (dB)	
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	15.17	15.23	15.20		16.1	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)
Channel				3750	3840	3930	16.6	0.0
Frequency (MHz)				15.33	15.26	15.21		
100	PI/2 BPSK	1	1	15.33	15.26	15.21	16.6	0.0
100	PI/2 BPSK	1	137	15.26	15.32	15.30		
100	PI/2 BPSK	1	271	15.40	15.34	15.31	16.6	0.0
100	PI/2 BPSK	135	0	15.41	15.40	15.38		
100	PI/2 BPSK	135	69	15.31	15.37	15.30	16.6	0.0
100	PI/2 BPSK	135	138	15.43	15.44	15.34		
100	PI/2 BPSK	270	0	15.40	15.41	15.30	16.6	0.0
100	QPSK	1	1	15.42	15.47	15.44		
100	QPSK	1	137	15.33	15.29	15.30	16.6	0.0
100	QPSK	1	271	15.36	15.27	15.30		
100	QPSK	135	0	15.36	15.40	15.38	16.6	0.0
100	QPSK	135	69	15.39	15.45	15.36		
100	QPSK	135	138	15.38	15.39	15.23	16.6	0.0
100	QPSK	270	0	15.43	15.44	15.36		
100	16QAM	1	1	15.24	15.44	15.25	16.6	0.0
100	64QAM	1	1	15.38	15.41	15.35		
100	256QAM	1	1	15.38	15.40	15.36	16.6	0.0
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3840	3935.01	16.6	0.0
90	QPSK	1	1	15.35	15.44	15.32		
Channel				649334	650000	650668	16.6	0.0
Frequency (MHz)				3740.01	3740	3940.02		
80	QPSK	1	1	15.30	15.44	15.36	16.6	0.0
Channel				649000	650000	650000		
Frequency (MHz)				3735	3840	3945	16.6	0.0
70	QPSK	1	1	15.34	15.44	15.43		
Channel				648668	650000	650334	16.6	0.0
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	15.36	15.33	15.39	16.6	0.0
Channel				648334	650000	650668		
Frequency (MHz)				3725.01	3840	3955.02	16.6	0.0
50	QPSK	1	1	15.39	15.44	15.32		
Channel				648000	650000	650000	16.6	0.0
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	15.39	15.38	15.33	16.6	0.0
Channel				647668	650000	654334		
Frequency (MHz)				3715.02	3740	3965.01	16.6	0.0
30	QPSK	1	1	15.31	15.37	15.33		
Channel				647334	650000	654000	16.6	0.0
Frequency (MHz)				3710.01	3840	3970.02		
25	QPSK	1	1	15.38	15.38	15.32	16.6	0.0
Channel				647000	650000	653668		
Frequency (MHz)				3705.01	3840	3975.02	16.6	0.0
20	QPSK	1	1	15.33	15.34	15.40		
Channel				647188	650000	654834	16.6	0.0
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	15.39	15.33	15.42	16.6	0.0
Channel				647000	650000	655000		
Frequency (MHz)				3705	3840	3975	16.6	0.0
10	QPSK	1	1	15.30	15.44	15.34		

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)
Channel				3750	3750	3750	16.6	0.0
Frequency (MHz)				15.26	15.26	15.26		
100	PI/2 BPSK	1	1	15.26	15.26	15.26	16.6	0.0
100	PI/2 BPSK	1	137	15.26	15.26	15.26		
100	PI/2 BPSK	1	271	15.33	15.33	15.33	16.6	0.0
100	PI/2 BPSK	135	0	15.38	15.38	15.38		
100	PI/2 BPSK	135	69	15.26	15.26	15.26	16.6	0.0
100	PI/2 BPSK	135	138	15.34	15.34	15.34		
100	PI/2 BPSK	270	0	15.27	15.27	15.27	16.6	0.0
100	QPSK	1	1	15.43	15.43	15.43		
100	QPSK	1	137	15.24	15.24	15.24	16.6	0.0
100	QPSK	1	271	15.24	15.24	15.24		
100	QPSK	135	0	15.38	15.38	15.38	16.6	0.0
100	QPSK	135	69	15.41	15.41	15.41		
100	QPSK	135	138	15.38	15.38	15.38	16.6	0.0
100	QPSK	270	0	15.40	15.40	15.40		
100	16QAM	1	1	15.31	15.31	15.31	16.6	0.0
100	64QAM	1	1	15.38	15.38	15.38		
100	256QAM	1	1	15.32	15.32	15.32	16.6	0.0
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01	16.6	0.0
90	QPSK	1	1	15.13	15.38	15.23		
Channel				649334	650000	650668	16.6	0.0
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	15.10	15.32	15.20	16.6	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765	16.6	0.0
70	QPSK	1	1	15.20	15.27	15.16		
Channel				648668	650000	651334	16.6	0.0
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	15.22	15.31	15.19	16.6	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02	16.6	0.0
50	QPSK	1	1	15.12	15.31	15.21		
Channel				648000	650000	652000	16.6	0.0
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	15.11	15.33	15.13	16.6	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01	16.6	0.0
30	QPSK	1	1	15.20	15.33	15.22		
Channel				647500	650000	652500	16.6	0.0
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	15.17	15.27	15.23	16.6	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02	16.6	0.0
20	QPSK	1	1	15.18	15.31	15.15		
Channel				647188	650000	652834	16.6	0.0
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	15.21	15.31	15.14	16.6	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795	16.6	0.0
10	QPSK	1	1	15.17	15.38	15.24		

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)
Channel				3750	3840	3930		
Frequency (MHz)								
100	PI/2 BPSK	1	1	17.54	17.63	17.53	18.7	0.0
100	PI/2 BPSK	1	137	17.47	17.53	17.44		
100	PI/2 BPSK	1	271	17.53	17.65	17.53		
100	PI/2 BPSK	135	0	17.63	17.67	17.56	18.7	0.0
100	PI/2 BPSK	135	69	17.63	17.66	17.62	18.7	0.0
100	PI/2 BPSK	135	138	17.43	17.46	17.42	18.7	0.0
100	PI/2 BPSK	270	0	17.54	17.59	17.51	18.7	0.0
100	QPSK	1	1	17.46	17.70	17.69		
100	QPSK	1	137	17.48	17.54	17.49		
100	QPSK	1	271	17.50	17.56	17.55	18.7	0.0
100	QPSK	135	0	17.54	17.60	17.52		
100	QPSK	135	69	17.68	17.69	17.64		
100	QPSK	135	138	17.54	17.63	17.51	18.7	0.0
100	QPSK	270	0	17.61	17.68	17.62	18.7	0.0
100	16QAM	1	1	17.48	17.64	17.44		
100	16QAM	1	1	17.63	17.65	17.51		
100	256QAM	1	1	17.63	17.64	17.60	18.7	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	17.55	17.59	17.48	18.7	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	17.47	17.50	17.47	18.7	0.0
Channel				649000	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	17.49	17.56	17.52	18.7	0.0
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	17.47	17.58	17.50	18.7	0.0
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	17.52	17.53	17.47	18.7	0.0
Channel				648000	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	17.56	17.51	17.44	18.7	0.0
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	17.50	17.57	17.42	18.7	0.0
Channel				647000	650000	654000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	17.54	17.53	17.44	18.7	0.0
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	17.53	17.51	17.48	18.7	0.0
Channel				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	17.54	17.60	17.46	18.7	0.0
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	17.52	17.56	17.53	18.7	0.0

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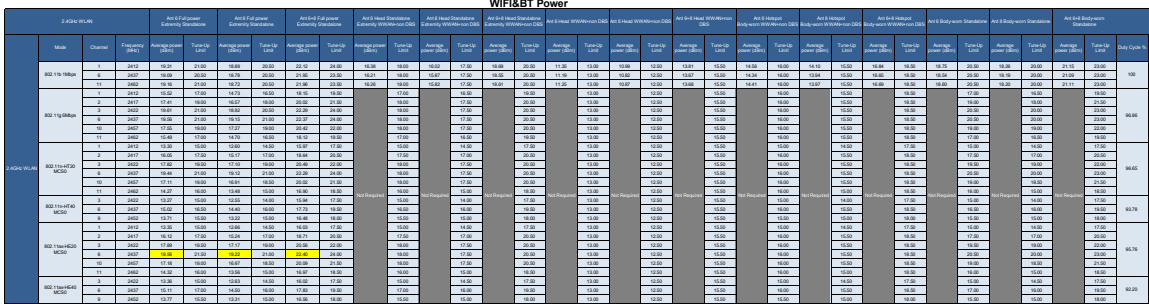
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)
Channel				3750	3750	3750		
Frequency (MHz)								
100	PI/2 BPSK	1	1		17.54		18.7	0.0
100	PI/2 BPSK	1	137		17.40			
100	PI/2 BPSK	1	271		17.58			
100	PI/2 BPSK	135	0		17.53		18.7	0.0
100	PI/2 BPSK	135	69		17.53		18.7	0.0
100	PI/2 BPSK	135	138		17.56		18.7	0.0
100	PI/2 BPSK	270	0		17.46		18.7	0.0
100	QPSK	1	1		17.63			
100	QPSK	1	137		17.38			
100	QPSK	1	271		17.45		18.7	0.0
100	QPSK	135	0		17.51			
100	QPSK	135	69		17.61			
100	QPSK	135	138		17.57		18.7	0.0
100	QPSK	270	0		17.57		18.7	0.0
100	16QAM	1	1		17.53			
100	16QAM	1	1		17.50			
100	256QAM	1	1		17.52		18.7	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	17.38	17.43	17.44	18.7	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	17.24	17.44	17.42	18.7	0.0
Channel				649000	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	17.33	17.48	17.36	18.7	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	17.30	17.38	17.37	18.7	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	17.36	17.41	17.42	18.7	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	17.29	17.37	17.44	18.7	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	17.22	17.44	17.38	18.7	0.0
Channel				647000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	17.34	17.40	17.40	18.7	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	17.33	17.41	17.43	18.7	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	17.30	17.47	17.38	18.7	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	17.35	17.38	17.36	18.7	0.0

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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)	MPR (dB)
Channel				65000	65000	65000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	17.84	17.96	17.70	18.7	0.0
100	PI/2 BPSK	1	137	17.78	17.79	17.79		
100	PI/2 BPSK	1	271	17.81	17.79	17.68		
100	PI/2 BPSK	135	0	17.81	17.89	17.82	18.7	0.0
100	PI/2 BPSK	135	69	17.82	17.84	17.78	18.7	0.0
100	PI/2 BPSK	135	138	17.76	17.87	17.89	18.7	0.0
100	PI/2 BPSK	270	0	17.81	17.84	17.82	18.7	0.0
100	QPSK	1	1	17.92	17.86	17.77		
100	QPSK	1	137	17.81	17.90	17.75		
100	QPSK	1	271	17.83	17.83	17.76	18.7	0.0
100	QPSK	135	0	17.80	17.86	17.78		
100	QPSK	135	69	17.80	17.83	17.79		
100	QPSK	135	138	17.82	17.84	17.79	18.7	0.0
100	QPSK	270	0	17.82	17.86	17.76	18.7	0.0
100	16QAM	1	1	17.77	17.81	17.80		
100	16QAM	1	1	17.82	17.84	17.83		
100	256QAM	1	1	17.80	17.80	17.78	18.7	0.0
Channel				64998	65002	65004	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	17.81	17.91	17.69	18.7	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3740	3940.02		
80	QPSK	1	1	17.84	17.80	17.66	18.7	0.0
Channel				649000	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	17.85	17.84	17.75	18.7	0.0
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	17.86	17.91	17.66	18.7	0.0
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	17.91	17.82	17.67	18.7	0.0
Channel				648000	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	17.88	17.96	17.74	18.7	0.0
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	17.80	17.87	17.75	18.7	0.0
Channel				647000	650000	654500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	17.84	17.86	17.72	18.7	0.0
Channel				647334	650000	654668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	17.83	17.87	17.69	18.7	0.0
Channel				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	17.80	17.85	17.68	18.7	0.0
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	17.82	17.89	17.72	18.7	0.0

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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)	MPR (dB)
Channel				65000	65000	65000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1		17.87		18.7	0.0
100	PI/2 BPSK	1	137		17.81			
100	PI/2 BPSK	1	271		17.78			
100	PI/2 BPSK	135	0		17.82		18.7	0.0
100	PI/2 BPSK	135	69		17.84		18.7	0.0
100	PI/2 BPSK	135	138		17.86		18.7	0.0
100	PI/2 BPSK	270	0		17.85		18.7	0.0
100	QPSK	1	1		17.80			
100	QPSK	1	137		17.88			
100	QPSK	1	271		17.82		18.7	0.0
100	QPSK	135	0		17.80			
100	QPSK	135	69		17.82			
100	QPSK	135	138		17.81		18.7	0.0
100	QPSK	270	0		17.79		18.7	0.0
100	16QAM	1	1		17.78			
100	16QAM	1	1		17.76			
100	256QAM	1	1		17.78		18.7	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	17.80	17.86	17.80	18.7	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	17.80	17.89	17.12	18.7	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	17.85	17.82	17.84	18.7	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	17.78	17.84	17.84	18.7	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	17.82	17.87	17.89	18.7	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	17.81	17.87	17.84	18.7	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	17.84	17.87	17.80	18.7	0.0
Channel				647000	650000	652500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	17.88	17.84	17.80	18.7	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	17.82	17.85	17.85	18.7	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	17.83	17.89	17.83	18.7	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	17.80	17.86	17.86	18.7	0.0

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BT 2.0 **Anti Full power**

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
SR / EDR	CH10	2402	16.80	13.38	13.09
	CH16	2441	16.00	14.20	14.16
	CH18	2480	16.80	13.17	13.29
	Time-up Limit		16.00	15.00	15.00

BT 2.0 **Anti Far head Simultaneous**

Mode	Frequency (MHz)	Average power (dBm)		
		1Mbps	2Mbps	3Mbps
BR / EDR	2402	12.49	9.25	9.93
	2441	12.54	10.14	10.05
	2480	12.46	9.12	9.25
Tune-up Limit		14.00	11.00	11.00

BT 2.0 **Anti Far Hotspot**

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
SR / EDR	CH10	2402	15.27	12.07	12.84
	CH16	2441	15.00	13.13	13.02
	CH18	2480	15.83	12.14	12.38
	Time-up Limit		17.00	14.00	14.00

BLE 1M **Anti Full power**

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH10	2402	6.31
	CH16	2441	6.66
	CH18	2480	6.45
	Time-up Limit		7.00

BLE 2M **Anti Full power**

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH10	2402	6.46
	CH16	2441	6.88
	CH18	2480	6.64
	Time-up Limit		7.00