



Full&Default Power Mode

LTE/HRP/AN/0	Power Average Power (dBm)			Tx Power Limit	Power Average Power (dBm)			Tx Power Limit
	20E	10E	20E		20E	10E	20E	
Frequency (MHz)	17.4	17.4	17.4	20	17.4	17.4	17.4	20
QPSK 1 Tx watt	32.00	32.00	32.00	33.00	31.00	31.00	31.00	34.00
QPSK 2 Tx watt	23.60	23.20	23.20	24.00	21.00	21.00	21.00	24.00
QPSK 3 Tx watt	28.41	28.74	28.80	30.00	24.10	24.48	24.50	27.74
QPSK 4 Tx watt	26.94	27.00	27.40	28.00	23.94	24.00	24.40	26.00
EDGE 1 Tx watt	26.74	26.80	26.80	28.00	17.74	17.80	17.80	19.00
EDGE 2 Tx watt	25.52	25.52	25.41	26.50	19.52	19.52	19.41	20.50
EDGE 3 Tx watt	24.10	24.10	24.00	25.00	19.00	19.00	19.74	20.74
EDGE 4 Tx watt	22.12	22.22	22.13	23.00	18.12	18.22	18.13	20.00

Band	WCDMA V.AN/0			Tx Power Limit
	4152	4152	4253	
Frequency (MHz)	4252	4407	4459	24.00
ISPP Full E	ISPP 12 Mbps	22.70	22.20	23.10
ISPP Full E	ISPP 12 Mbps	22.28	22.22	22.18
ISPP Full E	ISPP 12 Mbps	21.25	21.20	21.21
ISPP Full E	ISPP 12 Mbps	21.34	21.28	21.16
ISPP Full E	ISPPA Subclass-3	20.78	20.78	20.74
ISPP Full E	ISPPA Subclass-4	20.78	20.80	20.72
ISPP Full E	ISPPA Subclass-1	21.30	21.34	21.16
ISPP Full E	ISPPA Subclass-2	21.22	21.27	21.09
ISPP Full E	ISPPA Subclass-3	20.74	20.60	20.65
ISPP Full E	ISPPA Subclass-4	20.79	20.78	20.69
ISPP Full E	ISPPA Subclass-1	21.27	21.28	21.14
ISPP Full E	ISPPA Subclass-2	19.22	19.20	19.18
ISPP Full E	ISPPA Subclass-3	19.32	19.30	19.13
ISPP Full E	ISPPA Subclass-4	19.20	19.28	19.20
ISPP Full E	ISPPA Subclass-0	21.28	21.20	21.19



GSM450 Art 1	Band Average Power (dBm)			Turn-up Limit	Frame Average Power (dBm)			Turn-up Limit
	5W	10W	20W		5W	10W	20W	
Frequency (MHz)	174.2	174.4	174.6	(dBm)	174.2	174.4	174.6	(dBm)
OPRS 1 Tx side	31.99	32.19	32.19	33.50	22.99	23.19	23.19	24.50
OPRS 2 Tx side	29.96	30.23	30.12	31.50	23.96	24.20	24.12	25.50
OPRS 3 Tx side	28.38	28.55	28.46	29.50	24.72	24.90	24.90	26.24
OPRS 4 Tx side	28.76	27.72	28.92	28.00	23.76	24.02	23.92	25.00
EDGE 1 Tx side	28.12	28.13	28.12	27.00	17.12	17.12	17.12	18.00
EDGE 2 Tx side	25.01	25.01	24.94	26.00	19.01	19.03	18.94	20.00
EDGE 3 Tx side	23.40	23.44	23.54	24.50	17.14	17.20	17.28	20.24
EDGE 4 Tx side	21.48	21.72	21.69	22.50	18.48	18.72	18.69	19.50

GSM1900 Art 1	Band Average Power (dBm)			Turn-up Limit	Frame Average Power (dBm)			Turn-up Limit
	5W	10W	18W		5W	10W	18W	
Frequency (MHz)	1885.2	1885	1885.8	(dBm)	1885.2	1885	1885.8	(dBm)
GSM 1 Tx side	27.80	27.96	27.85	29.00	18.80	18.98	18.80	20.00
OPRS 1 Tx side	24.72	24.76	24.72	26.00	18.72	18.72	18.72	20.00
OPRS 2 Tx side	25.05	25.24	25.42	26.50	19.05	19.24	19.42	20.50
OPRS 3 Tx side	23.90	23.76	23.71	25.00	18.94	19.50	19.45	20.74
OPRS 4 Tx side	22.28	22.21	22.02	23.00	19.28	19.07	19.02	20.00
EDGE 1 Tx side	23.56	23.52	23.41	24.50	14.56	14.50	14.41	15.50
EDGE 2 Tx side	22.36	22.26	22.11	23.00	16.36	16.26	16.11	17.00
EDGE 3 Tx side	20.76	20.76	20.62	22.00	16.56	16.56	16.36	17.74
EDGE 4 Tx side	19.95	19.95	19.90	20.00	15.95	15.95	15.90	17.00

Band	WCDMA II Art 1			Turn-up Limit	WCDMA IV Art 1			Turn-up Limit	WCDMA V Art 1			Turn-up Limit
	5W	10W	18W		5W	10W	18W		41W	45W	49W	
TX Channel	1992	1990	1998	(dBm)	1912	1918	1913	(dBm)	4307	4407	4408	(dBm)
Frequency (MHz)	1920.2	1920	1920.8	(dBm)	1920.2	1920	1920.8	(dBm)	4307	4407	4408	(dBm)
ISPP Rel 99	20.90	20.90	20.96	22.50	21.01	21.00	21.00	22.00	22.85	22.86	22.81	24.00
ISPP Rel 99	PRNC 1C 20W	20.95	21.02	20.98	22.50	21.08	21.11	21.08	22.88	22.71	22.85	24.00
ISPP Rel 99	HSDPA Subclass 1	19.95	19.99	20.04	21.50	20.00	20.10	20.10	21.50	21.65	21.77	23.00
ISPP Rel 99	HSDPA Subclass 2	19.92	19.88	19.92	21.50	20.80	20.10	20.81	21.50	21.69	21.71	21.88
ISPP Rel 99	HSDPA Subclass 3	19.42	19.46	19.44	21.00	19.90	19.62	19.64	21.00	21.00	21.08	22.00
ISPP Rel 99	HSDPA Subclass 4	19.50	19.51	19.47	21.00	19.59	19.62	19.51	21.00	21.18	21.20	22.50
ISPP Rel 99	DC-HSDPA Subclass 1	19.52	19.56	19.57	21.50	20.10	20.10	20.11	21.50	21.69	21.71	23.00
ISPP Rel 99	DC-HSDPA Subclass 2	19.93	20.05	19.97	21.50	20.00	20.10	20.03	21.50	21.83	21.72	23.00
ISPP Rel 99	DC-HSDPA Subclass 3	19.47	19.55	19.43	21.00	19.88	19.80	19.51	21.00	21.19	21.23	21.74
ISPP Rel 99	DC-HSDPA Subclass 4	19.49	19.56	19.43	21.00	19.95	19.90	19.95	21.00	21.18	21.19	21.12
ISPP Rel 99	HSPA Subclass 1	19.97	20.00	20.02	21.50	20.02	20.10	20.05	21.50	21.65	21.65	21.69
ISPP Rel 99	HSPA Subclass 2	17.94	18.01	18.02	19.50	17.00	18.00	18.04	19.50	19.64	19.68	21.00
ISPP Rel 99	HSPA Subclass 3	18.92	18.97	18.99	20.50	19.03	19.13	19.03	20.50	20.71	20.75	20.86
ISPP Rel 99	HSPA Subclass 4	17.96	17.96	17.93	19.50	18.00	18.10	18.02	19.50	19.71	19.73	19.82
ISPP Rel 99	HSPA Subclass 5	19.94	19.95	19.97	21.50	20.10	20.00	20.04	21.50	21.66	21.73	23.00



GSM1900, Art 2 TX Channel	Burst Average Power (dBm)			Turn-up Limit	Frame Average Power (dBm)			Turn-up Limit
	1852	1865	1869.8		1852	1865	1869.8	
Frequency (MHz)	1852	1865	1869.8	(dBm)	1852	1865	1869.8	(dBm)
GSM 1 Tx watt	-28.79	-28.84	-28.80	30.00	-18.79	-18.84	-18.80	21.00
OPRS 1 Tx watt	26.11	26.36	26.92	27.00	20.11	20.35	20.80	21.00
OPRS 1 Tx watt	-23.05	-24.78	-24.74	26.00	-23.79	-25.52	-25.48	21.11
OPRS 4 Tx watt	23.49	23.07	23.00	24.00	20.49	20.07	20.00	21.00
EDGE 1 Tx watt	-24.87	-24.88	-24.65	19.00	-18.87	-18.88	-18.55	18.00
EDGE 2 Tx watt	-23.57	-23.31	-23.26	24.50	-17.57	-17.31	-17.26	18.50
EDGE 3 Tx watt	-21.86	-21.81	-21.69	22.00	-17.86	-17.81	-17.69	18.24
EDGE 4 Tx watt	-20.02	-20.02	-19.98	21.00	-17.02	-17.02	-16.98	18.00

Band TX Channel	WCDMA 8, Art 2			Turn-up Limit	WCDMA 1V, Art 2			Turn-up Limit
	8262	8400	8538		1312	1413	1513	
TX Channel	8262	8400	8538	(dBm)	1312	1413	1513	(dBm)
Frequency (MHz)	1852.4	1865	1869.8	1712.4	1722.6	1752.8	1752.8	
ISPP Pal 0	21.59	22.42	21.58	21.83	21.84	21.84	21.50	
ISPP Pal 0	20.15	20.15	21.12	21.00	21.00	21.01	21.00	
ISPP Pal 0	20.81	20.66	20.57	21.50	20.50	20.61	20.46	
ISPP Pal 0	21.13	21.13	21.11	22.00	21.11	21.09	21.04	
ISPP Pal 0	20.89	20.82	20.82	21.50	20.59	20.54	20.50	
ISPP Pal 0	20.92	20.81	20.89	21.00	20.60	20.61	20.49	
ISPP Pal 0	21.11	21.18	21.11	22.00	21.07	21.07	20.95	
ISPP Pal 0	21.15	21.10	21.13	22.00	21.01	21.05	21.07	
ISPP Pal 0	20.87	20.85	20.82	21.00	20.55	20.55	20.50	
ISPP Pal 0	20.81	20.66	20.57	21.50	20.50	20.61	20.46	
ISPP Pal 0	21.12	21.15	21.12	22.00	21.09	21.08	21.03	
ISPP Pal 0	18.13	18.10	18.09	20.00	18.03	18.07	18.02	
ISPP Pal 0	18.14	18.13	18.12	21.00	18.06	18.07	18.06	
ISPP Pal 0	18.13	18.10	18.08	20.00	18.03	18.04	18.00	
ISPP Pal 0	21.13	21.10	21.11	22.00	21.05	21.05	21.03	



Band 7 Ant 10

EW BWA	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up limit (dB)	MFR (dB)
Channel								
				2505	2535	2555		
Frequency (MHz)								
20	QPSK	1	0	22.99	22.96	22.89		
20	QPSK	1	49	22.78	22.82	22.77	24	0
20	QPSK	1	99	22.81	22.84	22.80		
20	QPSK	50	0	21.93	21.96	21.93		
20	QPSK	50	-24	21.78	21.86	21.73	23	1
20	QPSK	50	50	21.83	21.79	21.77		
20	QPSK	100	0	21.92	21.95	21.93		
20	HQAM	1	0	21.84	21.93	21.89		
20	HQAM	1	49	21.70	21.81	21.83	23	1
20	HQAM	1	99	21.77	21.71	21.76		
20	HQAM	50	0	20.98	20.99	20.96		
20	HQAM	50	24	20.77	20.89	20.58	22	2
20	HQAM	50	50	20.82	20.81	20.81		
20	HQAM	100	0	20.98	20.94	20.93		
20	HQAM	1	0	20.79	20.89	20.93		
20	HQAM	1	49	20.85	20.83	20.85	22	2
20	HQAM	1	99	20.78	20.99	20.79		
20	HQAM	50	0	19.88	19.98	19.90		
20	HQAM	50	24	19.82	19.91	19.71	21	3
20	HQAM	50	50	19.87	19.74	19.73		
20	HQAM	100	0	19.80	20.00	19.90		
20	SSBQAM	1	0	17.83	18.00	17.89		
20	SSBQAM	1	49	17.75	17.91	17.73	19	5
20	SSBQAM	1	99	17.78	17.78	17.79		
20	SSBQAM	50	0	17.85	17.96	17.81		
20	SSBQAM	50	-24	17.87	17.87	17.82	19	5
20	SSBQAM	50	50	17.74	17.84	17.60		
20	SSBQAM	100	0	17.74	17.74	17.75		
Channel								
				2507.5	2535	2562.5	Turn-up limit (dB)	MFR (dB)
Frequency (MHz)								
15	QPSK	1	0	22.80	22.90	22.76		
15	QPSK	1	37	22.84	22.73	22.66	24	0
15	QPSK	1	74	22.89	22.80	22.67		
15	QPSK	96	0	21.89	21.86	21.81		
15	QPSK	96	-20	21.69	21.92	21.64	23	1
15	QPSK	96	39	21.70	21.66	21.65		
15	HQAM	1	0	21.78	21.80	21.85		
15	HQAM	1	37	21.83	21.77	21.50	23	1
15	HQAM	1	74	21.87	21.66	21.62		
15	HQAM	96	0	20.88	20.91	20.89		
15	HQAM	96	20	20.85	20.82	20.55	22	2
15	HQAM	96	39	20.79	20.78	20.78		
15	HQAM	75	0	20.93	20.87	20.87		
15	HQAM	1	0	20.85	20.83	20.87	22	2
15	HQAM	1	37	20.88	20.74	20.69		
15	HQAM	1	74	20.71	20.95	20.74		
15	HQAM	96	0	19.82	19.92	19.81		
15	HQAM	96	20	19.74	19.81	19.87	21	3
15	HQAM	96	39	19.74	19.82	19.58		
15	HQAM	75	0	19.86	19.87	19.82		
15	SSBQAM	1	0	17.80	17.86	17.85		
15	SSBQAM	1	37	17.85	17.82	17.59	19	5
15	SSBQAM	1	74	17.85	17.84	17.69		
15	SSBQAM	96	0	17.87	17.81	17.71		
15	SSBQAM	96	20	17.73	17.78	17.61	19	5
15	SSBQAM	96	39	17.64	17.78	17.57		
15	SSBQAM	75	0	17.67	17.67	17.66		
Channel								
				2505	2535	2565	Turn-up limit (dB)	MFR (dB)
Frequency (MHz)								
10	QPSK	1	0	22.89	22.86	22.74		
10	QPSK	1	25	22.84	22.88	22.75	24	0
10	QPSK	1	49	22.77	22.77	22.66		
10	QPSK	25	0	21.87	21.96	21.80		
10	QPSK	25	12	21.88	21.83	21.62	23	1
10	QPSK	25	25	21.74	21.66	21.67		
10	QPSK	50	0	21.80	21.99	21.86		
10	HQAM	1	0	21.89	21.85	21.81		
10	HQAM	1	25	21.86	21.70	21.56	23	1
10	HQAM	1	49	21.84	21.63	21.51		
10	HQAM	25	0	20.84	20.88	20.83		
10	HQAM	25	12	20.70	20.81	20.56	22	2
10	HQAM	25	25	20.71	20.68	20.75		
10	HQAM	50	0	20.85	20.81	20.82		
10	HQAM	1	0	20.68	20.84	20.83	22	2
10	HQAM	1	25	20.52	20.72	20.56		
10	HQAM	1	49	20.70	20.62	20.76		
10	HQAM	25	0	19.79	19.84	19.82		
10	HQAM	25	12	19.77	19.85	19.60	21	3
10	HQAM	25	25	19.84	19.62	19.68		
10	HQAM	50	0	19.80	19.92	19.83		
10	SSBQAM	1	0	17.84	17.81	17.65		
10	SSBQAM	1	25	17.69	17.80	17.58	19	5
10	SSBQAM	1	49	17.70	17.72	17.66		
10	SSBQAM	25	0	17.89	17.84	17.60		
10	SSBQAM	25	12	17.73	17.74	17.68	19	5
10	SSBQAM	25	25	17.60	17.81	17.49		
10	SSBQAM	50	0	17.62	17.61	17.65		
Channel								
				2577.5	2595	2625	Turn-up limit (dB)	MFR (dB)
Frequency (MHz)								
5	QPSK	1	0	22.80	22.87	22.82		
5	QPSK	1	12	22.71	22.73	22.65	24	0
5	QPSK	1	24	22.78	22.80	22.75		
5	QPSK	12	0	21.84	21.98	21.81		
5	QPSK	12	7	21.89	21.71	21.67	23	1
5	QPSK	25	0	21.83	21.83	21.79		
5	HQAM	1	0	21.80	21.81	21.79		
5	HQAM	1	12	21.84	21.69	21.50	23	1
5	HQAM	1	24	21.85	21.81	21.61		
5	HQAM	12	0	20.85	20.86	20.88		
5	HQAM	12	7	20.64	20.77	20.56	22	2
5	HQAM	12	13	20.69	20.70	20.77		
5	HQAM	25	0	20.84	20.85	20.87		
5	HQAM	1	0	20.67	20.85	20.90	22	2
5	HQAM	1	12	20.68	20.74	20.52		
5	HQAM	1	24	20.71	20.57	20.71		
5	HQAM	12	0	19.82	19.92	19.85		
5	HQAM	12	7	19.77	19.87	19.61	21	3
5	HQAM	12	13	19.82	19.68	19.68		
5	HQAM	25	0	19.82	19.92	19.79		
5	SSBQAM	1	0	17.87	17.95	17.79		
5	SSBQAM	1	12	17.70	17.86	17.60	19	5
5	SSBQAM	1	24	17.71	17.88	17.76		
5	SSBQAM	12	0	17.81	17.85	17.81		
5	SSBQAM	12	7	17.81	17.79	17.84	19	5
5	SSBQAM	12	13	17.70	17.88	17.63		
5	SSBQAM	25	0	17.69	17.65	17.68		



Reduced Power Mode for DS12

COMBO: All 0 DS2	18W Average Power (dBm)			23W Average Power (dBm)		
Tx Channel	180	186	191	196	198	201
Frequency (MHz)	31.5	31.74	31.8	31.9	32.1	32.18
CDMA 1 Tx (w/)	32.00	32.28	32.52	33.00	33.28	33.52
OPRB 1 Tx (w/)	32.08	32.24	32.50	33.00	33.24	33.50
OPRB 2 Tx (w/)	29.86	30.20	30.39	31.00	31.68	32.00
OPRB 3 Tx (w/)	28.41	28.71	28.85	30.00	30.15	30.45
OPRB 4 Tx (w/)	26.84	27.00	27.40	28.00	28.94	29.40
EDGE 1 Tx (w/)	26.74	26.80	26.82	28.00	17.74	17.80
EDGE 2 Tx (w/)	25.52	25.52	25.41	26.50	19.52	19.41
EDGE 3 Tx (w/)	24.16	24.16	24.00	25.00	19.00	19.74
EDGE 4 Tx (w/)	22.12	22.22	22.13	23.00	19.12	19.13

Band	WCDMA V. All 0 DS2			Totals
Tx Channel	4190	4192	4293	Level (dB)
Frequency (MHz)	890.4	890.4	890.6	
SOPP Rule 1	22.10	22.28	22.13	24.00
SOPP Rule 6	22.28	22.32	22.18	24.00
SOPP Rule 8	21.00	21.21	21.22	21.00
SOPP Rule 9	21.24	21.25	21.16	21.00
SOPP Rule 1	20.78	20.72	20.74	22.00
SOPP Rule 2	20.78	20.82	20.72	22.00
SOPP Rule 3	21.30	21.31	21.16	23.00
SOPP Rule 4	21.20	21.27	21.10	23.00
SOPP Rule 5	20.74	20.80	20.85	22.00
SOPP Rule 6	20.70	20.76	20.69	22.00
SOPP Rule 7	21.27	21.25	21.14	23.00
SOPP Rule 8	19.22	19.20	19.16	21.00
SOPP Rule 9	19.30	19.31	19.13	22.00
SOPP Rule 10	19.20	19.20	19.20	21.00
SOPP Rule 11	21.33	21.30	21.19	23.00



Band 41 Ant 0 DSI2											
RW [MHz]	Modulation	RB Size	RB Offset	Power Low MHz Ch / Freq	Power High MHz Ch / Freq	Power Low MHz Ch / Freq	Power High MHz Ch / Freq	Power Low MHz Ch / Freq	Power High MHz Ch / Freq	Turn-up limit (dBm)	MPR (dB)
Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
20	QPSK	1	0	2146	2146	2153	2153	2144	2144	23.00	0
20	QPSK	1	49	2140	2147	2142	2147	2140	2147	23.00	0
20	QPSK	1	99	2134	2149	2142	2147	2134	2149	23.00	0
20	QPSK	50	0	2049	2049	2049	2049	2049	2049	22	1
20	QPSK	50	24	2051	2044	2039	2039	2051	2044	22	1
20	QPSK	100	0	2049	2049	2049	2049	2049	2049	22	1
20	QPSK	100	0	2049	2049	2049	2049	2049	2049	22	1
20	HS-DMA	1	0	2046	2042	2045	2046	2042	2045	21	2
20	HS-DMA	1	49	2044	2046	2044	2046	2044	2046	21	2
20	HS-DMA	1	99	2045	2045	2046	2045	2045	2046	21	2
20	HS-DMA	50	0	1945	1939	1942	1939	1945	1939	20	3
20	HS-DMA	50	24	1947	1946	1937	1931	1952	1937	20	3
20	HS-DMA	100	0	1945	1941	1943	1940	1941	1941	21	2
20	HS-DMA	100	0	1943	1942	1945	1933	1947	1947	21	2
20	HS-DMA	1	49	1941	1949	1945	1937	1947	1947	21	2
20	HS-DMA	1	99	1946	1939	1942	1942	1942	1942	21	2
20	HS-DMA	50	0	1841	1848	1845	1832	1841	1841	18	5
20	HS-DMA	50	24	1850	1848	1842	1829	1855	1842	18	5
20	HS-DMA	100	0	1841	1838	1841	1841	1841	1841	18	5
20	HS-DMA	100	0	1831	1833	1845	1840	1837	1837	18	5
20	HS-DMA	1	49	1845	1844	1851	1855	1845	1845	18	5
20	HS-DMA	1	99	1838	1838	1838	1838	1838	1838	18	5
20	HS-DMA	50	0	1842	1840	1848	1844	1842	1842	18	5
20	HS-DMA	50	24	1846	1844	1837	1842	1842	1842	18	5
20	HS-DMA	100	0	1839	1839	1839	1839	1839	1839	18	5
20	HS-DMA	100	0	1839	1839	1839	1839	1839	1839	18	5
Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
16	QPSK	1	0	2141	2146	2146	2146	2141	2146	23.00	0
16	QPSK	1	49	2135	2139	2139	2139	2135	2139	23.00	0
16	QPSK	1	99	2130	2143	2143	2143	2130	2143	23.00	0
16	QPSK	50	0	2146	2144	2144	2144	2146	2144	22	1
16	QPSK	50	24	2140	2148	2148	2148	2140	2148	22	1
16	QPSK	100	0	2046	2046	2046	2046	2046	2046	22	1
16	QPSK	100	0	2046	2046	2046	2046	2046	2046	22	1
16	HS-DMA	1	0	2048	2033	2042	2032	2048	2032	22	1
16	HS-DMA	1	49	2049	2036	2041	2044	2049	2036	22	1
16	HS-DMA	1	99	2048	2033	2042	2032	2048	2032	22	1
16	HS-DMA	50	0	2034	2036	2049	2039	2036	2049	21	2
16	HS-DMA	50	24	2034	2036	2049	2039	2034	2049	21	2
16	HS-DMA	100	0	1939	1938	1937	1945	1939	1937	21	2
16	HS-DMA	100	0	1941	1941	1941	1941	1941	1941	21	2
16	HS-DMA	1	49	1942	1935	1939	1942	1944	1944	21	2
16	HS-DMA	1	99	1938	1942	1942	1942	1938	1942	21	2
16	HS-DMA	1	99	1937	1937	1937	1937	1937	1937	21	2
16	HS-DMA	1	99	1936	1948	1937	1942	1937	1942	21	2
16	HS-DMA	50	0	1846	1840	1833	1825	1852	1840	20	3
16	HS-DMA	50	24	1830	1832	1832	1831	1830	1831	20	3
16	HS-DMA	100	0	1830	1824	1840	1829	1830	1829	20	3
16	HS-DMA	1	49	1841	1841	1851	1849	1843	1843	18	5
16	HS-DMA	1	99	1836	1836	1836	1836	1836	1836	18	5
16	HS-DMA	50	0	1832	1841	1842	1838	1838	1842	18	5
16	HS-DMA	50	24	1837	1843	1843	1843	1837	1843	18	5
16	HS-DMA	100	0	1834	1834	1834	1834	1834	1834	18	5
16	HS-DMA	100	0	1834	1834	1834	1834	1834	1834	18	5
Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
10	QPSK	1	0	2137	2142	2140	2146	2137	2142	23.00	0
10	QPSK	1	49	2131	2146	2146	2146	2131	2146	23.00	0
10	QPSK	1	99	2124	2153	2153	2153	2124	2153	23.00	0
10	QPSK	50	0	2046	2046	2046	2046	2046	2046	22	1
10	QPSK	50	24	2049	2046	2046	2046	2049	2046	22	1
10	QPSK	100	0	2046	2046	2046	2046	2046	2046	22	1
10	QPSK	100	0	2046	2046	2046	2046	2046	2046	22	1
10	HS-DMA	1	0	2047	2034	2044	2039	2047	2039	22	1
10	HS-DMA	1	49	2043	2043	2035	2028	2049	2028	22	1
10	HS-DMA	1	99	2036	2041	2029	2048	2037	2048	22	1
10	HS-DMA	50	0	1938	1938	1938	1945	1931	1945	21	2
10	HS-DMA	50	24	1944	1938	1930	1924	1941	1941	21	2
10	HS-DMA	100	0	1937	1936	1937	1931	1940	1940	21	2
10	HS-DMA	100	0	1939	1939	1938	1935	1936	1936	21	2
10	HS-DMA	1	49	1943	1943	1944	1944	1941	1944	21	2
10	HS-DMA	1	99	1940	1940	1943	1939	1941	1941	21	2
10	HS-DMA	50	0	1839	1848	1843	1839	1851	1848	20	3
10	HS-DMA	50	24	1835	1825	1842	1833	1844	1844	20	3
10	HS-DMA	100	0	1844	1836	1845	1845	1843	1843	20	3
10	HS-DMA	1	49	1854	1851	1838	1826	1850	1850	18	5
10	HS-DMA	1	99	1830	1837	1838	1835	1827	1827	18	5
10	HS-DMA	50	0	1843	1845	1841	1841	1843	1843	18	5
10	HS-DMA	50	24	1834	1840	1840	1840	1834	1840	18	5
10	HS-DMA	100	0	1830	1827	1831	1849	1828	1828	18	5
10	HS-DMA	100	0	1830	1827	1831	1849	1828	1828	18	5
Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
5	QPSK	1	0	2137	2139	2148	2146	2139	2139	23.00	0
5	QPSK	1	49	2132	2146	2153	2146	2132	2146	23.00	0
5	QPSK	1	99	2126	2140	2143	2144	2126	2140	23.00	0
5	QPSK	50	0	2046	2046	2046	2046	2046	2046	22	1
5	QPSK	50	24	2049	2046	2046	2046	2049	2046	22	1
5	QPSK	100	0	2046	2046	2046	2046	2046	2046	22	1
5	QPSK	100	0	2046	2046	2046	2046	2046	2046	22	1
5	HS-DMA	1	0	2047	2034	2044	2039	2047	2039	22	1
5	HS-DMA	1	49	2043	2043	2035	2028	2049	2028	22	1
5	HS-DMA	1	99	2036	2041	2029	2048	2037	2048	22	1
5	HS-DMA	50	0	1938	1938	1938	1945	1931	1945	21	2
5	HS-DMA	50	24	1944	1938	1930	1924	1941	1941	21	2
5	HS-DMA	100	0	1937	1936	1937	1931	1940	1940	21	2
5	HS-DMA	100	0	1939	1939	1938	1935	1936	1936	21	2
5	HS-DMA	1	49	1943	1943	1944	1944	1941	1944	21	2
5	HS-DMA	1	99	1940	1940	1943	1939	1941	1941	21	2
5	HS-DMA	50	0	1839	1848	1843	1839	1851	1848	20	3
5	HS-DMA	50	24	1835	1825	1842	1833	1844	1844	20	3
5	HS-DMA	100	0	1844	1836	1845	1845	1843	1843	20	3
5	HS-DMA	1	49	1854	1851	1838	1826	1850	1850	18	5
5	HS-DMA	1	99	1830	1837	1838	1835	1827	1827		



GSM900 Airtel DSS2		Band Average Power (dBm)			Frame Average Power (dBm)		
TX Channel	501	509	511	Line	508	516	511
Frequency (MHz)	124.2	124.4	124.6	(dBm)	124.2	124.4	124.6
GSM 1 Tx Watt	22.11	22.22	22.22	21.52	21.11	21.22	21.52
OPRR 1 Tx Watt	22.96	23.13	23.23	23.52	22.96	23.13	23.23
OPRR 2 Tx Watt	27.28	27.22	27.22	28.52	27.28	27.22	27.22
OPRR 3 Tx Watt	25.57	25.51	25.66	26.72	25.57	25.51	25.66
OPRR 4 Tx Watt	24.23	24.51	24.41	25.52	24.23	24.51	24.41
EDGE 1 Tx Watt	26.12	26.12	26.12	27.62	26.12	26.12	26.12
EDGE 2 Tx Watt	25.01	25.01	24.94	26.02	25.01	25.01	24.94
EDGE 3 Tx Watt	23.46	23.46	23.54	24.52	23.46	23.46	23.54
EDGE 4 Tx Watt	21.48	21.72	21.69	22.52	21.48	21.72	21.69

GSM1900 Airtel DSS2		Band Average Power (dBm)			Frame Average Power (dBm)		
TX Channel	512	561	610	Line	512	561	610
Frequency (MHz)	1880.2	1880	1880.8	(dBm)	1880.2	1880	1880.8
GSM 1 Tx Watt	23.38	23.62	23.39	24.62	23.38	23.62	23.39
OPRR 1 Tx Watt	23.29	23.56	23.26	24.46	23.29	23.56	23.26
OPRR 2 Tx Watt	25.15	25.22	25.20	27.22	25.15	25.22	25.20
OPRR 3 Tx Watt	19.76	19.50	19.48	19.82	19.76	19.50	19.48
OPRR 4 Tx Watt	17.81	17.62	17.62	18.62	17.81	17.62	17.62
EDGE 1 Tx Watt	23.56	23.52	23.41	24.52	23.56	23.52	23.41
EDGE 2 Tx Watt	21.00	20.62	20.74	21.62	21.00	20.62	20.74
EDGE 3 Tx Watt	18.50	18.51	18.40	19.62	18.50	18.51	18.40
EDGE 4 Tx Watt	17.06	17.62	17.62	18.52	17.06	17.62	17.62

Band	WCDMA II Airtel DSS2			WCDMA IV Airtel DSS2			WCDMA V Airtel DSS2		
	565	600	638	Line	1512	1513	Line	4132	4133
TX Channel	562	600	638	Line	1507	1508	Line	4127	4128
Frequency (MHz)	1624.8	1624	1624.8	(dBm)	1624.8	1624.8	(dBm)	1624.8	1624.8
SOPR Pwr (dB)	13.70	13.74	13.68	14.70	13.02	14.01	13.07	15.20	13.92
SOPR Pwr (dB)	13.73	13.85	13.75	14.70	13.08	14.04	14.00	15.20	14.01
SOPR Pwr (dB)	12.71	12.71	12.72	13.70	12.04	13.08	12.86	14.50	13.89
SOPR Pwr (dB)	13.26	13.26	13.31	13.20	12.41	12.51	13.20	14.48	13.46
SOPR Pwr (dB)	13.25	13.31	13.27	13.20	12.54	12.53	13.39	14.43	13.51
SOPR Pwr (dB)	12.71	12.74	12.67	13.70	12.46	13.00	14.00	14.00	13.86
SOPR Pwr (dB)	12.70	12.70	12.76	13.70	13.00	13.01	13.07	14.20	13.92
SOPR Pwr (dB)	13.21	13.30	13.25	13.20	12.46	12.55	13.60	14.42	13.53
SOPR Pwr (dB)	13.28	13.28	13.28	13.20	12.47	12.51	13.47	13.41	13.52
SOPR Pwr (dB)	12.71	12.72	12.72	13.70	12.07	13.10	13.04	14.50	13.00
SOPR Pwr (dB)	12.14	12.04	12.11	12.70	11.10	11.00	12.20	13.59	12.20
SOPR Pwr (dB)	11.77	11.83	11.73	12.70	11.98	12.00	11.99	13.30	12.97
SOPR Pwr (dB)	10.71	10.76	10.69	11.70	11.03	11.04	11.04	12.30	11.91
SOPR Pwr (dB)	12.69	12.76	12.76	13.70	13.00	13.00	13.00	14.20	13.97



Band 12 Ant 1 DSI2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)				704	707.5	711				
10	QPSK	1	0	20.96	20.99	20.94				
10	QPSK	1	25	20.96	20.99	20.94	22	0		
10	QPSK	1	49	20.96	20.94	20.93				
10	QPSK	25	0	20.92	20.94	20.91				
10	QPSK	25	12	20.93	20.93	20.93	22	0		
10	QPSK	25	25	20.87	20.90	20.90				
10	QPSK	50	0	20.86	20.90	20.86				
10	16QAM	1	0	20.82	20.82	20.82	22	0		
10	16QAM	1	25	20.78	20.84	20.85				
10	16QAM	1	49	20.92	20.79	20.86				
10	16QAM	25	0	20.78	20.81	20.81	22	0		
10	16QAM	25	12	20.80	20.85	20.78				
10	16QAM	25	25	20.76	20.82	20.77				
10	16QAM	50	0	20.72	20.81	20.81				
10	16QAM	1	0	20.87	20.87	20.83				
10	16QAM	1	25	20.79	20.91	20.86	22	0		
10	16QAM	1	49	20.86	20.86	20.85				
10	16QAM	25	0	19.94	19.98	19.90				
10	16QAM	25	12	19.91	19.94	19.91	21	1		
10	16QAM	25	25	19.93	19.93	19.94				
10	16QAM	50	0	19.92	19.97	19.94				
10	256QAM	1	0	17.93	17.96	17.93	19	3		
10	256QAM	1	25	17.88	17.88	17.84				
10	256QAM	1	49	17.92	17.90	17.86				
10	256QAM	25	0	17.90	17.93	17.89	19	3		
10	256QAM	25	12	17.90	17.90	17.88				
10	256QAM	25	25	17.83	17.90	17.86				
10	256QAM	50	0	17.82	17.82	17.82				
Channel										
Frequency (MHz)				23015	23065	23165	Turn-up (dB)	MPE (dB)		
5	QPSK	1	0	20.87	20.94	20.90				
5	QPSK	1	12	20.91	20.92	20.91	22	0		
5	QPSK	1	24	20.90	20.87	20.92				
5	QPSK	12	0	20.83	20.86	20.85				
5	QPSK	12	7	20.80	20.85	20.84	22	0		
5	QPSK	12	13	20.86	20.81	20.87				
5	QPSK	25	0	20.71	20.82	20.82				
5	16QAM	1	0	20.78	20.78	20.78	22	0		
5	16QAM	1	12	20.74	20.84	20.85				
5	16QAM	1	24	20.87	20.87	20.86				
5	16QAM	12	0	20.77	20.78	20.78	22	0		
5	16QAM	12	7	20.75	20.80	20.69				
5	16QAM	12	13	20.82	20.81	20.82				
5	16QAM	25	0	20.68	20.71	20.69				
5	16QAM	1	0	20.87	20.88	20.74	22	0		
5	16QAM	1	12	20.84	20.82	20.82				
5	16QAM	1	24	20.84	20.88	20.78				
5	16QAM	12	0	19.93	19.87	19.89				
5	16QAM	12	7	19.88	19.87	19.86	21	1		
5	16QAM	12	13	19.94	19.92	19.95				
5	16QAM	25	0	19.86	19.86	19.84				
5	256QAM	1	0	17.82	17.86	17.82	19	3		
5	256QAM	1	12	17.80	17.88	17.81				
5	256QAM	1	24	17.92	17.80	17.80				
5	256QAM	12	0	17.86	17.84	17.82	19	3		
5	256QAM	12	13	17.89	17.80	17.87				
5	256QAM	25	0	17.74	17.83	17.81				
Channel										
Frequency (MHz)				23017	23065	23173	Turn-up (dB)	MPE (dB)		
3	QPSK	1	0	20.88	20.87	20.83				
3	QPSK	1	8	20.79	20.93	20.84	22	0		
3	QPSK	1	14	20.89	20.94	20.91				
3	QPSK	8	0	20.83	20.86	20.89	22	0		
3	QPSK	8	4	20.81	20.85	20.84				
3	QPSK	8	7	20.86	20.86	20.89				
3	16QAM	1	0	20.81	20.84	20.79	22	0		
3	16QAM	1	8	20.68	20.86	20.85				
3	16QAM	1	14	20.85	20.81	20.79				
3	16QAM	8	0	20.73	20.76	20.85	22	0		
3	16QAM	8	4	20.74	20.85	20.87				
3	16QAM	8	7	20.74	20.81	20.79				
3	16QAM	16	0	20.63	20.81	20.73				
3	16QAM	1	0	20.83	20.81	20.74	22	0		
3	16QAM	1	8	20.72	20.84	20.79				
3	16QAM	1	14	20.85	20.83	20.73				
3	16QAM	8	0	19.94	19.90	19.89				
3	16QAM	8	4	19.87	19.82	19.81	21	1		
3	16QAM	8	7	19.93	19.92	19.93				
3	16QAM	16	0	19.90	19.88	19.90				
3	256QAM	1	0	17.92	17.91	17.86	19	3		
3	256QAM	1	8	17.88	17.85	17.84				
3	256QAM	1	14	17.85	17.88	17.88				
3	256QAM	8	0	17.81	17.80	17.77	19	3		
3	256QAM	8	4	17.84	17.81	17.84				
3	256QAM	8	7	17.94	17.81	17.84				
3	256QAM	16	0	17.74	17.85	17.82				
Channel										
Frequency (MHz)				23017	23065	23173	Turn-up (dB)	MPE (dB)		
1.4	QPSK	1	0	20.88	20.82	20.83				
1.4	QPSK	1	3	20.82	20.98	20.85	22	0		
1.4	QPSK	1	5	20.97	20.83	20.84				
1.4	QPSK	3	0	20.83	20.90	20.88	22	0		
1.4	QPSK	3	1	20.85	20.82	20.80				
1.4	QPSK	3	3	20.77	20.88	20.85				
1.4	QPSK	6	0	20.75	20.81	20.83	22	0		
1.4	16QAM	1	0	20.80	20.84	20.72				
1.4	16QAM	1	3	20.79	20.91	20.80				
1.4	16QAM	1	5	20.82	20.76	20.78	22	0		
1.4	16QAM	3	0	20.72	20.81	20.78				
1.4	16QAM	3	1	20.71	20.74	20.71				
1.4	16QAM	3	3	20.73	20.76	20.77	22	0		
1.4	16QAM	1	0	20.87	20.78	20.73				
1.4	16QAM	3	0	20.80	20.82	20.79				
1.4	16QAM	1	5	20.85	20.88	20.79	22	0		
1.4	16QAM	3	0	20.77	20.69	20.72				
1.4	16QAM	1	3	20.78	20.78	20.79				
1.4	16QAM	6	0	19.81	19.89	19.83	21	1		
1.4	256QAM	1	0	17.84	17.85	17.82				
1.4	256QAM	1	3	17.85	17.89	17.90	19	3		
1.4	256QAM	1	5	17.88	17.87	17.86				
1.4	256QAM	3	0	17.79	17.93	17.79				
1.4	256QAM	3	1	17.85	17.88	17.87				
1.4	256QAM	3	3	17.80	17.85	17.91	19	3		
1.4	256QAM	6	0	17.80	17.89	17.84				

Band 13 Ant 1 DSI2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)				762						
10	QPSK	1	0	19.82						
10	QPSK	1	25	19.82			21.2	0		
10	QPSK	1	49	19.79						
10	QPSK	25	0	19.76						
10	QPSK	25	12	19.76			21.2	0		
10	QPSK	25	25	19.74						
10	QPSK	50	0	19.70						
10	16QAM	1	0	19.69						
10	16QAM	1	25	19.70			21.2	0		
10	16QAM	1	49	19.79						
10	16QAM	25	0	19.68						
10	16QAM	25	12	19.69			21.2	0		
10	16QAM	25	25	19.63						
10	16QAM	50	0	19.69						
10	16QAM	1	0	19.80						
10	16QAM	1	25	19.77			21.2	0		
10	16QAM	1	49	19.78						



Band 26 Ant 1 DS12										
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)										
15	QPSK	1	0	19.52	19.67	19.60				
15	QPSK	1	37	19.54	19.69	19.63	21.1	0		
15	QPSK	1	74	19.54	19.68	19.61				
15	QPSK	36	0	19.51	19.66	19.49				
15	QPSK	36	20	19.51	19.65	19.52				
15	QPSK	36	39	19.55	19.61	19.54	21.1	0		
15	QPSK	75	0	19.52	19.62	19.59				
15	16QAM	1	0	19.53	19.61	19.52				
15	16QAM	1	37	19.44	19.59	19.42	21.1	0		
15	16QAM	1	74	19.46	19.49	19.40				
15	16QAM	36	0	19.41	19.61	19.50				
15	16QAM	36	20	19.53	19.57	19.48	21.1	0		
15	16QAM	36	39	19.53	19.54	19.51				
15	16QAM	75	0	19.52	19.54	19.49				
15	16QAM	1	0	19.58	19.59	19.60				
15	16QAM	1	37	19.46	19.60	19.52	21.1	0		
15	16QAM	1	74	19.48	19.48	19.48				
15	16QAM	36	0	19.50	19.59	19.45				
15	16QAM	36	20	19.45	19.48	19.42	21	0.1		
15	16QAM	36	39	19.39	19.50	19.43				
15	16QAM	75	0	19.44	19.51	19.53				
15	16QAM	1	0	17.49	17.51	17.46				
15	16QAM	1	37	17.49	17.51	17.46	19	2.1		
15	16QAM	1	74	17.44	17.52	17.39				
15	16QAM	36	0	17.42	17.48	17.38				
15	16QAM	36	20	17.50	17.53	17.45	19	2.1		
15	16QAM	36	39	17.46	17.48	17.48				
15	16QAM	75	0	17.43	17.58	17.39				
Channel										
Frequency (MHz)										
10	QPSK	1	0	19.56	19.66	19.60				
10	QPSK	1	25	19.48	19.50	19.49	21.1	0		
10	QPSK	1	49	19.49	19.52	19.48				
10	QPSK	25	0	19.49	19.60	19.49				
10	QPSK	25	12	19.54	19.66	19.52	21.1	0		
10	QPSK	25	25	19.48	19.59	19.47				
10	16QAM	1	0	19.53	19.59	19.51				
10	16QAM	1	25	19.51	19.56	19.51	21.1	0		
10	16QAM	1	49	19.48	19.54	19.38				
10	16QAM	25	0	19.46	19.50	19.46				
10	16QAM	25	12	19.48	19.55	19.40	21.1	0		
10	16QAM	25	25	19.52	19.56	19.46				
10	16QAM	50	0	19.46	19.45	19.41				
10	16QAM	1	0	19.54	19.54	19.52				
10	16QAM	1	25	19.41	19.48	19.43	21.1	0		
10	16QAM	1	49	19.40	19.41	19.41				
10	16QAM	25	0	19.48	19.52	19.42				
10	16QAM	25	12	19.54	19.48	19.43	21	0.1		
10	16QAM	25	25	19.50	19.43	19.25				
10	16QAM	50	0	17.47	17.54	17.48				
10	16QAM	1	0	17.48	17.49	17.41	19	2.1		
10	16QAM	1	49	17.37	17.49	17.32				
10	16QAM	25	0	17.42	17.45	17.35				
10	16QAM	25	12	17.46	17.54	17.39				
10	16QAM	25	25	17.39	17.45	17.37	19	2.1		
10	16QAM	50	0	17.38	17.53	17.39				
Channel										
Frequency (MHz)										
5	QPSK	1	0	19.52	19.64	19.61				
5	QPSK	1	12	19.52	19.53	19.54	21.1	0		
5	QPSK	1	24	19.47	19.52	19.42				
5	QPSK	12	0	19.48	19.60	19.49				
5	QPSK	12	7	19.57	19.60	19.44	21.1	0		
5	QPSK	12	13	19.54	19.52	19.44				
5	16QAM	1	0	19.49	19.59	19.51				
5	16QAM	1	12	19.46	19.54	19.32	21.1	0		
5	16QAM	1	24	19.45	19.41	19.41				
5	16QAM	12	0	19.52	19.55	19.39				
5	16QAM	12	7	19.43	19.51	19.39	21.1	0		
5	16QAM	12	13	19.48	19.48	19.44				
5	16QAM	25	0	19.49	19.44	19.45				
5	16QAM	1	0	19.49	19.49	19.51				
5	16QAM	1	12	19.47	19.61	19.49	21.1	0		
5	16QAM	1	24	19.43	19.42	19.46				
5	16QAM	12	0	19.45	19.49	19.40				
5	16QAM	12	7	19.45	19.39	19.41	21	0.1		
5	16QAM	12	13	19.30	19.43	19.35				
5	16QAM	25	0	17.42	17.50	17.49				
5	16QAM	25	13	17.39	17.49	17.42	19	2.1		
5	16QAM	25	25	17.39	17.50	17.48				
Channel										
Frequency (MHz)										
3	QPSK	1	0	19.52	19.61	19.63				
3	QPSK	1	8	19.47	19.53	19.51	21.1	0		
3	QPSK	1	14	19.52	19.58	19.48				
3	QPSK	8	0	19.48	19.60	19.49				
3	QPSK	8	4	19.59	19.65	19.51	21.1	0		
3	QPSK	8	7	19.51	19.55	19.54				
3	QPSK	15	0	19.55	19.57	19.52				
3	16QAM	1	0	19.43	19.58	19.47				
3	16QAM	1	8	19.39	19.50	19.34	21.1	0		
3	16QAM	1	14	19.38	19.43	19.38				
3	16QAM	8	0	19.40	19.58	19.46				
3	16QAM	8	4	19.52	19.63	19.45	21.1	0		
3	16QAM	8	7	19.51	19.52	19.47				
3	16QAM	15	0	19.53	19.42	19.44				
3	16QAM	1	0	19.48	19.45	19.50				
3	16QAM	1	8	19.39	19.56	19.45	21.1	0		
3	16QAM	1	14	19.44	19.41	19.41				
3	16QAM	8	0	19.41	19.49	19.35				
3	16QAM	8	4	19.43	19.41	19.39	21	0.1		
3	16QAM	8	7	19.34	19.46	19.43				
3	16QAM	15	0	19.44	19.47	19.49				
3	16QAM	1	0	17.50	17.57	17.47				
3	16QAM	1	8	17.41	17.53	17.45	19	2.1		
3	16QAM	8	0	17.34	17.50	17.34				
3	16QAM	8	4	17.40	17.49	17.42	19	2.1		
3	16QAM	15	0	17.35	17.58	17.48				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	19.52	19.65	19.63				
1.4	QPSK	1	3	19.54	19.61	19.44	21.1	0		
1.4	QPSK	1	5	19.54	19.55	19.43				
1.4	QPSK	3	0	19.45	19.66	19.49				
1.4	QPSK	3	1	19.56	19.62	19.62				
1.4	QPSK	3	3	19.46	19.61	19.48	21.1	0		
1.4	QPSK	8	0	19.49	19.54	19.58				
1.4	16QAM	1	0	19.52	19.60	19.49				
1.4	16QAM	1	3	19.44	19.50	19.32	21.1	0		
1.4	16QAM	1	5	19.46	19.41	19.35				
1.4	16QAM	3	0	19.39	19.53	19.47				
1.4	16QAM	3	1	19.45	19.48	19.45				
1.4	16QAM	3	3	19.52	19.47	19.40	21.1	0		
1.4	16QAM	6	0	19.43	19.48	19.46				
1.4	16QAM	1	0	19.47	19.59	19.52				
1.4	16QAM	1	3	19.40	19.53	19.47	21.1	0		
1.4	16QAM	1	5	19.43	19.46	19.48				
1.4	16QAM	3	0	19.42	19.53	19.38				
1.4	16QAM	3	1	19.43	19.38	19.36	21.1	0		
1.4	16QAM	3	3	19.34	19.43	19.44				
1.4	16QAM	8	0	19.38	19.49	19.26	21	0.1		
1.4	16QAM	1	0	17.44	17.55	17.37				
1.4	16QAM	1	3	17.39	17.50	17.43	19	2.1		
1.4	16QAM	3	0	17.39	17.51	17.37				
1.4	16QAM	3	1	17.43	17.27	17.29				



Band 38 Ant 1 DSI2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up Int. (dBm)	MPR (dB)
Channel				37850	38050	38150		
Frequency (MHz)				2296	2296	2410		
20	QPSK	1	0	14.61	14.70	14.80	15.8	0
20	QPSK	1	49	14.54	14.73	14.84		
20	QPSK	1	99	14.63	14.69	14.71		
20	QPSK	50	0	14.63	14.70	14.73	15.8	0
20	QPSK	50	24	14.63	14.72	14.71		
20	QPSK	50	49	14.62	14.70	14.69		
20	QPSK	100	0	14.68	14.69	14.68		
20	HQAM	1	0	14.61	14.69	14.69	15.8	0
20	HQAM	1	49	14.54	14.70	14.64		
20	HQAM	1	99	14.57	14.54	14.53		
20	HQAM	50	0	14.52	14.56	14.59	15.8	0
20	HQAM	50	24	14.49	14.60	14.57		
20	HQAM	50	50	14.50	14.60	14.67		
20	HQAM	100	0	14.49	14.50	14.50		
20	HQAM	100	1	14.51	14.71	14.65		
20	HQAM	1	49	14.46	14.71	14.64	15.8	0
20	HQAM	1	99	14.50	14.51	14.50		
20	HQAM	50	0	14.57	14.70	14.64		
20	HQAM	50	24	14.44	14.58	14.59	15.8	0
20	HQAM	50	50	14.58	14.60	14.60		
20	HQAM	100	0	14.60	14.60	14.60		
20	HQAM	100	0	14.60	14.60	14.60		
20	ZSSBAM	1	0	14.60	14.70	14.60	15.8	0
20	ZSSBAM	1	49	14.62	14.60	14.60		
20	ZSSBAM	1	99	14.52	14.50	14.50		
20	ZSSBAM	50	0	14.62	14.72	14.60	15.8	0
20	ZSSBAM	50	24	14.46	14.67	14.67		
20	ZSSBAM	50	50	14.48	14.59	14.56		
20	ZSSBAM	100	0	14.47	14.50	14.50		
Channel				37825	38025	38175		
Frequency (MHz)				2277.5	2297.5	2412.5		
15	QPSK	1	0	14.62	14.60	14.59	15.8	0
15	QPSK	1	37	14.54	14.72	14.57		
15	QPSK	1	74	14.53	14.60	14.71		
15	QPSK	36	0	14.58	14.77	14.72	15.8	0
15	QPSK	36	20	14.58	14.70	14.63		
15	QPSK	36	39	14.48	14.61	14.60		
15	QPSK	75	0	14.60	14.61	14.60		
15	HQAM	1	0	14.51	14.63	14.60	15.8	0
15	HQAM	1	37	14.49	14.60	14.60		
15	HQAM	1	74	14.64	14.40	14.53		
15	HQAM	36	0	14.52	14.72	14.60	15.8	0
15	HQAM	36	20	14.63	14.57	14.53		
15	HQAM	36	39	14.48	14.60	14.63		
15	HQAM	75	0	14.63	14.60	14.60		
15	HQAM	1	37	14.41	14.61	14.54	15.8	0
15	HQAM	1	74	14.61	14.41	14.47		
15	HQAM	36	0	14.57	14.62	14.59		
15	HQAM	36	20	14.41	14.50	14.55	15.8	0
15	HQAM	36	39	14.50	14.50	14.50		
15	HQAM	75	0	14.55	14.60	14.62		
15	ZSSBAM	1	0	14.63	14.73	14.63	15.8	0
15	ZSSBAM	1	37	14.35	14.64	14.63		
15	ZSSBAM	1	74	14.40	14.40	14.40		
15	ZSSBAM	36	0	14.44	14.62	14.58	15.8	0
15	ZSSBAM	36	20	14.41	14.61	14.62		
15	ZSSBAM	36	39	14.38	14.57	14.50		
15	ZSSBAM	75	0	14.47	14.40	14.40		
Channel				37825	38025	38175		
Frequency (MHz)				2277.5	2297.5	2412.5		
10	QPSK	1	0	14.62	14.60	14.59	15.8	0
10	QPSK	1	25	14.43	14.63	14.62		
10	QPSK	1	49	14.60	14.60	14.70		
10	QPSK	12	0	14.62	14.60	14.60	15.8	0
10	QPSK	25	12	14.60	14.62	14.68		
10	QPSK	25	25	14.62	14.62	14.53		
10	QPSK	50	0	14.60	14.70	14.60		
10	HQAM	1	0	14.41	14.64	14.64	15.8	0
10	HQAM	1	25	14.62	14.60	14.50		
10	HQAM	1	49	14.60	14.40	14.52		
10	HQAM	25	0	14.42	14.77	14.64		
10	HQAM	25	12	14.40	14.61	14.51	15.8	0
10	HQAM	25	25	14.40	14.63	14.50		
10	HQAM	50	0	14.56	14.62	14.62		
10	HQAM	1	0	14.61	14.60	14.56	15.8	0
10	HQAM	1	49	14.49	14.45	14.53		
10	HQAM	25	0	14.63	14.70	14.61		
10	HQAM	25	12	14.34	14.57	14.60	15.8	0
10	HQAM	25	25	14.46	14.56	14.50		
10	HQAM	50	0	14.57	14.60	14.60		
10	ZSSBAM	1	0	14.59	14.60	14.60	15.8	0
10	ZSSBAM	1	25	14.30	14.64	14.57		
10	ZSSBAM	1	49	14.67	14.60	14.54		
10	ZSSBAM	25	0	14.50	14.60	14.59	15.8	0
10	ZSSBAM	25	12	14.40	14.60	14.62		
10	ZSSBAM	25	25	14.45	14.55	14.57		
10	ZSSBAM	50	0	14.50	14.56	14.51		

Band 38 HPUE Ant 1 DSI2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up Int. (dBm)	MPR (dB)
Channel				37860	38060	38160		
Frequency (MHz)				2296	2296	2410		
20	QPSK	1	0	16.42	16.34	16.43	17.4	0
20	QPSK	1	49	16.50	16.49	16.47		
20	QPSK	1	99	16.50	16.46	16.42		
20	QPSK	50	0	16.36	16.50	16.49	17.4	0
20	QPSK	50	24	16.38	16.51	16.46		
20	QPSK	50	49	16.39	16.41	16.40		
20	QPSK	100	0	16.39	16.40	16.46		
20	HQAM	1	0	16.40	16.47	16.37	17.4	0
20	HQAM	1	49	16.35	16.42	16.38		
20	HQAM	1	99	16.39	16.48	16.42		
20	HQAM	50	0	16.23	16.43	16.36	17.4	0
20	HQAM	50	24	16.41	16.39	16.39		
20	HQAM	50	50	16.24	16.28	16.34		
20	HQAM	100	0	16.41	16.36	16.36		
20	HQAM	100	1	16.34	16.43	16.43		
20	HQAM	1	49	16.39	16.38	16.43	17.4	0
20	HQAM	1	99	16.30	16.40	16.38		
20	HQAM	50	0	16.31	16.41	16.44	17.4	0
20	HQAM	50	24	16.31	16.41	16.44		
20	HQAM	50	50	16.32	16.44	16.44		
20	HQAM	100	0	16.31	16.41	16.50	17.4	0
20	HQAM	100	0	16.32	16.40	16.40		
Channel				37825	38025	38175		
Frequency (MHz)				2277.5	2297.5	2412.5		
15	QPSK	1	0	16.41	16.34	16.43	17.4	0
15	QPSK	1	37	16.40	16.45	16.47		
15	QPSK	1	74	16.30	16.37	16.36		
15	QPSK	36	0	16.25	16.42	16.44	17.4	0
15	QPSK	36	20	16.39	16.48	16.44		
15	QPSK	36	39	16.38	16.38	16.38		
15	QPSK	75	0	16.37	16.38	16.38		
15	HQAM	1	0	16.41	16.45	16.30	17.4	0
15	HQAM	1	37	16.25	16.35	16.39		
15	HQAM	1	74	16.40	16.47	16.40		
15	HQAM	36	0	16.23	16.38	16.31	17.4	0
15	HQAM	36	20	16.31	16.38	16.38		
15	HQAM	36	39	16.21	16.21	16.27		
15	HQAM	75	0	16.39	16.30	16.37	17.4	0
15	HQAM	75	0	16.27	16.32	16.26		
15	HQAM	1	37	16.39	16.29	16.37		
15	HQAM	1	74	16.26	16.40	16.35		
15	HQAM	36	0	16.30	16.40	16.33		
15	HQAM	36	20	16.23	16.36	16.34	17.4	0
15	HQAM	36	39	16.39	16.39	16.31		
15	HQAM	75	0	16.23	16.45	16.40		
15	ZSSBAM	1	0	16.34	16.32	16.47	17.4	0
15	ZSSBAM	1	37	16.30	16.42	16.40		
15	ZSSBAM	1	74	16.27	16.31	16.31		
15	ZSSBAM	36	0	16.25	16.38	16.34	17.4	0
15	ZSSBAM	36	20	16.30	16.40	16.41		
15	ZSSBAM	36	39	16.28	16.28	16.43		
15	ZSSBAM	75	0	16.30	16.20	16.32		
Channel				37825	38025	38175		
Frequency (MHz)				2277.5	2297.5	2412.5		
10	QPSK	1	0	16.41	16.34	16.43	17.4	0
10	QPSK	1	25	16.48	16.40	16.38		
10	QPSK	1	49	16.25	16.38	16.33		
10	QPSK	12	0	16.37	16.40	16.40	17.4	0
10	QPSK	25	12	16.30	16.44	16.38		
10	QPSK	25	25	16.37	16.38	16.42		
10	QPSK	50	0	16.39	16.46	16.44		
10	HQAM	1	0	16.43	16.40	16.37	17.4	0
10	HQAM	1	25	16.30	16.33	16.29		
10	HQAM	1	49	16.32	16.49	16.38		
10	HQAM	25	0	16.20	16.40	16.27		
10	HQAM	25	12	16.34	16.39	16.38	17.4	0
10	HQAM	25	25	16.22	16.26	16.26		
10	HQAM	50	0	16.34	16.31	16.29		
10	HQAM	1	0	16.32	16.40	16.41	17.4	0
10	HQAM	1	25	16.30	16.43	16.36		
10	HQAM	25	0	16.34	16.40	16.30		
10	HQAM	25	12	16.20	16.31	16.41	17.4	0
10	HQAM	25	25	16.37	16.41	16.26		
10	HQAM	50	0	16.31	16.45	16.39		
10	HQAM	1	0	16.29	16.39	16.40	17.4	0
10	ZSSBAM	1	0	16.40	16.41	16		



Band 41 Ant 1 DSI2													
RW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Mid Ch / Freq	Power High Low Ch / Freq	Power High High Ch / Freq	Turn-up time (dBm)	MPR (dB)			
Channel													
Frequency (MHz)				39790	40198	40600	41006	41490					
20	QPSK	1	0	14.72	14.72	14.73	14.74	14.75					
20	QPSK	1	40	14.66	14.62	14.74	14.74	14.88	15.8	0			
20	QPSK	1	80	14.72	14.72	14.80	14.71	14.87					
20	QPSK	50	0	14.65	14.64	14.76	14.76	14.82					
20	QPSK	50	24	14.68	14.64	14.76	14.73	14.87	15.8	0			
20	QPSK	100	0	14.60	14.60	14.71	14.71	14.82					
20	QPSK	100	0	14.74	14.69	14.72	14.70	14.87					
20	HQAM	1	0	14.65	14.62	14.77	14.72	14.87					
20	HQAM	1	40	14.61	14.56	14.76	14.71	14.82	15.8	0			
20	HQAM	1	80	14.72	14.70	14.85	14.82	14.84					
20	HQAM	1	120	14.65	14.63	14.78	14.73	14.83					
20	HQAM	50	24	14.60	14.56	14.65	14.62	14.87	15.8	0			
20	HQAM	50	50	14.60	14.60	14.69	14.68	14.88					
20	HQAM	100	0	14.59	14.70	14.72	14.66	14.89					
20	HQAM	100	0	14.75	14.63	14.71	14.67	14.85					
20	HQAM	1	40	14.57	14.52	14.74	14.64	14.85	15.8	0			
20	HQAM	1	80	14.52	14.53	14.60	14.64	14.83					
20	HQAM	50	24	14.59	14.54	14.66	14.68	14.83	15.8	0			
20	HQAM	50	50	14.59	14.57	14.65	14.69	14.89					
20	HQAM	100	0	14.64	14.68	14.74	14.69	14.88					
20	256QAM	1	0	14.73	14.70	14.76	14.74	14.86					
20	256QAM	1	40	14.60	14.53	14.72	14.69	14.88	15.8	0			
20	256QAM	1	80	14.73	14.62	14.83	14.66	14.88					
20	256QAM	50	24	14.63	14.54	14.76	14.66	14.87	15.8	0			
20	256QAM	50	50	14.59	14.57	14.67	14.67	14.71					
20	256QAM	100	0	14.67	14.63	14.69	14.68	14.82					
Channel													
Frequency (MHz)				39795	40173	40600	41006	41515	Turn-up time (dBm)	MPR (dB)			
15	QPSK	1	0	14.73	14.74	14.73	14.74	14.83					
15	QPSK	1	37	14.64	14.63	14.69	14.72	14.82	15.8	0			
15	QPSK	1	74	14.71	14.67	14.66	14.80	14.59					
15	QPSK	36	0	14.62	14.60	14.70	14.69	14.86					
15	QPSK	36	20	14.60	14.59	14.71	14.62	14.56	15.8	0			
15	QPSK	36	39	14.68	14.69	14.64	14.62	14.87					
15	QPSK	75	0	14.74	14.68	14.65	14.71	14.59					
15	HQAM	1	0	14.61	14.53	14.76	14.69	14.87					
15	HQAM	1	40	14.61	14.51	14.71	14.71	14.88	15.8	0			
15	HQAM	1	74	14.70	14.65	14.56	14.80	14.57					
15	HQAM	36	0	14.49	14.58	14.79	14.64	14.44					
15	HQAM	36	20	14.68	14.54	14.61	14.61	14.86	15.8	0			
15	HQAM	36	39	14.49	14.55	14.68	14.67	14.61					
15	HQAM	75	0	14.56	14.67	14.68	14.57	14.49					
15	HQAM	75	0	14.73	14.58	14.69	14.60	14.59	15.8	0			
15	HQAM	1	37	14.57	14.49	14.68	14.55	14.54					
15	HQAM	1	74	14.67	14.54	14.56	14.63	14.56					
15	HQAM	36	0	14.54	14.57	14.76	14.68	14.59					
15	HQAM	36	20	14.65	14.45	14.61	14.64	14.55	15.8	0			
15	HQAM	36	39	14.58	14.63	14.55	14.55	14.85					
15	HQAM	75	0	14.58	14.61	14.64	14.65	14.55					
15	256QAM	1	0	14.68	14.70	14.89	14.69	14.62					
15	256QAM	1	40	14.61	14.62	14.61	14.82	14.61	15.8	0			
15	256QAM	1	74	14.70	14.62	14.55	14.65	14.52					
15	256QAM	36	0	14.50	14.53	14.69	14.55	14.57					
15	256QAM	36	20	14.59	14.59	14.61	14.61	14.51	15.8	0			
15	256QAM	36	39	14.57	14.56	14.58	14.66	14.54					
15	256QAM	75	0	14.64	14.63	14.58	14.66	14.56					
Channel													
Frequency (MHz)				2901	2947	2993	2939	2985	Turn-up time (dBm)	MPR (dB)			
10	QPSK	1	0	14.68	14.62	14.68	14.68	14.68					
10	QPSK	1	25	14.60	14.57	14.74	14.65	14.65	15.8	0			
10	QPSK	1	49	14.67	14.70	14.81	14.84	14.65					
10	QPSK	1	73	14.65	14.54	14.74	14.65	14.65					
10	QPSK	25	12	14.60	14.54	14.68	14.60	14.59	15.8	0			
10	QPSK	25	25	14.67	14.59	14.65	14.67	14.66					
10	QPSK	25	49	14.72	14.64	14.67	14.61	14.68					
10	HQAM	1	0	14.65	14.62	14.74	14.61	14.64					
10	HQAM	1	25	14.60	14.56	14.71	14.67	14.51	15.8	0			
10	HQAM	1	49	14.72	14.70	14.87	14.82	14.54					
10	HQAM	25	0	14.53	14.61	14.73	14.74	14.50					
10	HQAM	25	12	14.58	14.56	14.65	14.69	14.62	15.8	0			
10	HQAM	25	49	14.54	14.55	14.67	14.62	14.62					
10	HQAM	50	0	14.68	14.63	14.66	14.65	14.50					
10	HQAM	50	0	14.69	14.54	14.60	14.61	14.68					
10	HQAM	1	25	14.52	14.52	14.71	14.58	14.54	15.8	0			
10	HQAM	1	49	14.66	14.57	14.49	14.62	14.62					
10	HQAM	25	0	14.59	14.49	14.75	14.73	14.59					
10	HQAM	25	12	14.65	14.47	14.64	14.58	14.58					
10	HQAM	25	25	14.58	14.49	14.60	14.65	14.67	15.8	0			
10	HQAM	50	0	14.64	14.64	14.67	14.68	14.59					
10	256QAM	1	0	14.68	14.67	14.73	14.67	14.62					
10	256QAM	1	25	14.53	14.48	14.64	14.60	14.61	15.8	0			
10	256QAM	1	49	14.70	14.69	14.85	14.82	14.64					
10	256QAM	25	0	14.50	14.50	14.67	14.62	14.49					
10	256QAM	25	12	14.63	14.53	14.71	14.64	14.61	15.8	0			
10	256QAM	25	25	14.55	14.63	14.56	14.63	14.51					
10	256QAM	50	0	14.64	14.60	14.63	14.71	14.53					

Band 41 HPUE Ant 1 DSI2													
RW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Mid Ch / Freq	Power High Low Ch / Freq	Power High High Ch / Freq	Turn-up time (dBm)	MPR (dB)			
Channel													
Frequency (MHz)				39790	40198	40600	41006	41490	Turn-up time (dBm)	MPR (dB)			
20	QPSK	1	0	14.72	14.72	14.73	14.74	14.75					
20	QPSK	1	40	14.59	14.49	14.57	14.47	14.83	17.4	0			
20	QPSK	1	80	14.67	14.61	14.54	14.59	14.66					
20	QPSK	50	0	14.40	14.44	14.54	14.51	14.50					
20	QPSK	50	24	14.64	14.47	14.63	14.53	14.60	17.4	0			
20	QPSK	100	0	14.62	14.42	14.50	14.44	14.58					
20	QPSK	100	0	14.42	14.43	14.52	14.46	14.44					
20	HQAM	1	0	14.64	14.52	14.69	14.49	14.65	17.4	0			
20	HQAM	1	40	14.43	14.43	14.54	14.54	14.43					
20	HQAM	1	80	14.42	14.38	14.52	14.41	14.37					
20	HQAM	1	120	14.50	14.49	14.60	14.51	14.46					
20	HQAM	50	24	14.53	14.34	14.51	14.46	14.46	15.8	0			
20	HQAM	50	50	14.50	14.35	14.37	14.42	14.43					
20	HQAM	100	0	14.42	14.42	14.50	14.44	14.58					
20	HQAM	100	0	14.58	14.42	14.50	14.51	14.47					
20	HQAM	1	40	14.35	14.48	14.46	14.47	14.41	17.4	0			
20	HQAM	1	80	14.43	14.37	14.54	14.46	14.44					
20	HQAM	50	24	14.43	14.38	14.50	14.43	14.47	17.4	0			
20	HQAM</												



CDMA 1X Rev 2 DS2 TV Channel	Burst Average Power (dBm)			Timing Limit (µs)	Frame Average Power (dBm)			Timing Limit (µs)
	1892.2	1892	1893.8		1895.2	1895	1896.8	
Frequency (MHz)	1892.2	1892	1893.8	0.0%	1895.2	1895	1896.8	0.0%
OPNS 1 Tx Rate	28.79	28.54	28.80	38.53	19.79	19.64	19.80	21.60
OPNS 2 Tx Rate	26.11	26.55	26.52	27.50	26.11	26.55	26.52	21.50
OPNS 3 Tx Rate	25.05	24.75	24.74	26.50	25.79	25.52	25.49	25.14
OPNS 4 Tx Rate	23.49	23.07	23.50	24.00	23.49	23.07	23.50	21.50
EDGE 1 Tx Rate	24.67	24.61	24.55	25.00	19.87	19.58	19.55	18.50
EDGE 2 Tx Rate	23.57	23.31	23.26	24.50	17.57	17.31	17.26	18.50
EDGE 3 Tx Rate	21.86	21.8	21.66	22.50	17.56	17.50	17.42	18.54
EDGE 4 Tx Rate	20.02	20.02	19.98	21.00	17.02	17.02	16.98	18.50

Band TV Channel	WCDMA II Rev 2 DS2			Timing Limit (µs)	WCDMA IV Rev 2 DS2			Timing Limit (µs)
	5882	5880	5878		1812	1813	1813	
Frequency (MHz)	5882	5880	5878	0.0%	1812.4	1812.6	1812.8	0.0%
SOPF Rate	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50
SOPF Rate	21.15	21.00	21.15	22.00	21.04	21.10	20.99	22.00
SOPF Rate	21.13	21.13	21.11	22.00	21.11	21.08	21.04	22.00
SOPF Rate	20.89	20.82	20.85	21.50	20.59	20.54	20.59	21.50
SOPF Rate	20.55	20.61	20.55	21.50	20.60	20.61	20.49	21.50
SOPF Rate	21.11	21.18	21.11	22.00	21.07	21.07	20.95	22.00
SOPF Rate	21.15	21.10	21.13	22.00	21.01	21.05	21.07	22.00
SOPF Rate	20.57	20.55	20.52	21.50	20.55	20.55	20.55	21.50
SOPF Rate	20.61	20.65	20.57	21.50	20.50	20.61	20.48	21.50
SOPF Rate	21.12	21.15	21.12	22.00	21.00	21.08	21.07	22.00
SOPF Rate	19.13	19.10	19.09	20.00	18.03	18.07	18.02	20.00
SOPF Rate	20.11	20.13	20.15	21.00	20.06	20.07	20.06	21.00
SOPF Rate	19.13	19.15	19.08	20.00	19.08	19.04	19.00	20.00
SOPF Rate	21.13	21.16	21.11	22.00	21.05	21.05	21.03	22.00



Band 7 Ant 10 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mode Ch / Freq.	Power High Ch / Freq.	Turn-up limit (dBm)	MPE (dB)
Channel								
				2050	2100	2150		
Frequency (MHz)				2050	2090	2130		
20	QPSK	1	0	21.50	21.54	21.52	22.9	0
20	QPSK	1	49	21.38	21.47	21.48		
20	QPSK	1	99	21.40	21.51	21.52		
20	QPSK	50	0	21.45	21.52	21.42		
20	QPSK	50	-24	21.50	21.44	21.47		
20	QPSK	50	50	21.48	21.45	21.41	22.9	0
20	QPSK	100	0	21.40	21.51	21.48		
20	HQAM	1	0	21.44	21.49	21.50		
20	HQAM	1	49	21.36	21.45	21.49	22.9	0
20	HQAM	1	99	21.29	21.47	21.51		
20	HQAM	50	0	20.58	20.80	20.94		
20	HQAM	50	24	20.47	20.55	20.53	22	0.9
20	HQAM	50	50	20.47	20.57	20.62		
20	HQAM	100	0	20.51	20.92	20.50		
20	HQAM	1	0	20.63	20.50	20.55		
20	HQAM	1	49	20.57	20.52	20.46	22	0.9
20	HQAM	1	99	20.53	20.65	20.61		
20	HQAM	50	0	19.65	19.69	19.62		
20	HQAM	50	24	19.45	19.53	19.55	21	1.9
20	HQAM	50	50	19.47	19.43	19.51		
20	HQAM	100	0	19.55	19.57	19.46		
20	SSBQAM	1	0	17.68	17.67	17.62		
20	SSBQAM	1	49	17.47	17.52	17.63	19	3.9
20	SSBQAM	1	99	17.49	17.57	17.63		
20	SSBQAM	50	0	17.52	17.56	17.46		
20	SSBQAM	50	-24	17.59	17.59	17.62	19	3.9
20	SSBQAM	50	50	17.63	17.59	17.48		
20	SSBQAM	100	0	17.63	17.58	17.52		
Channel								
				2075	2100	2125		
Frequency (MHz)				2075	2095	2115		
15	QPSK	1	0	21.38	21.49	21.42	22.9	0
15	QPSK	1	37	21.00	21.44	21.44		
15	QPSK	1	74	21.31	21.39	21.47		
15	QPSK	96	0	21.40	21.46	21.31		
15	QPSK	96	-20	21.45	21.40	21.54	22.9	0
15	QPSK	96	36	21.41	21.31	21.36		
15	HQAM	1	0	21.33	21.44	21.38		
15	HQAM	1	37	21.22	21.40	21.40	22.9	0
15	HQAM	1	74	21.28	21.43	21.42		
15	HQAM	96	0	20.47	20.54	20.50		
15	HQAM	96	20	20.38	20.46	20.51	22	0.9
15	HQAM	96	36	20.37	20.46	20.52		
15	HQAM	96	75	20.40	20.47	20.37		
15	HQAM	1	0	20.51	20.48	20.50	22	0.9
15	HQAM	1	37	20.48	20.42	20.43		
15	HQAM	1	74	20.43	20.53	20.57		
15	HQAM	96	0	19.52	19.55	19.52		
15	HQAM	96	20	19.33	19.40	19.42	21	1.9
15	HQAM	96	36	19.39	19.54	19.57		
15	HQAM	96	75	19.42	19.50	19.53		
15	SSBQAM	1	0	17.48	17.51	17.57		
15	SSBQAM	1	37	17.37	17.56	17.59	19	3.9
15	SSBQAM	1	74	17.38	17.49	17.50		
15	SSBQAM	96	0	17.48	17.58	17.55		
15	SSBQAM	96	20	17.50	17.54	17.55	19	3.9
15	SSBQAM	96	36	17.51	17.50	17.37		
15	SSBQAM	96	75	17.41	17.40	17.58		
Channel								
				2050	2100	2150		
Frequency (MHz)				2050	2095	2140		
10	QPSK	1	0	21.43	21.39	21.53	22.9	0
10	QPSK	1	25	21.30	21.41	21.41		
10	QPSK	1	49	21.28	21.37	21.46		
10	QPSK	25	0	21.30	21.42	21.32		
10	QPSK	25	12	21.45	21.35	21.36	22.9	0
10	QPSK	25	25	21.37	21.33	21.36		
10	QPSK	50	0	21.27	21.43	21.38		
10	HQAM	1	0	21.41	21.45	21.41		
10	HQAM	1	25	21.31	21.38	21.42	22.9	0
10	HQAM	1	49	21.17	21.37	21.38		
10	HQAM	25	0	20.42	20.52	20.53		
10	HQAM	25	12	20.34	20.48	20.57	22	0.9
10	HQAM	25	25	20.34	20.46	20.46		
10	HQAM	50	0	20.47	20.55	20.40		
10	HQAM	1	0	20.63	20.40	20.50		
10	HQAM	1	25	20.51	20.44	20.38	22	0.9
10	HQAM	1	49	20.41	20.51	20.54		
10	HQAM	25	0	19.54	19.62	19.57		
10	HQAM	25	12	19.60	19.41	19.48	21	1.9
10	HQAM	25	25	19.40	19.48	19.51		
10	HQAM	50	0	19.52	19.46	19.36		
10	SSBQAM	1	0	17.63	17.55	17.55		
10	SSBQAM	1	25	17.35	17.54	17.53	19	3.9
10	SSBQAM	1	49	17.49	17.51	17.51		
10	SSBQAM	25	0	17.37	17.51	17.54		
10	SSBQAM	25	12	17.46	17.49	17.48	19	3.9
10	SSBQAM	25	25	17.57	17.48	17.38		
10	SSBQAM	50	0	17.41	17.41	17.55		
Channel								
				2075	2100	2125		
Frequency (MHz)				2075	2095	2115		
5	QPSK	1	0	21.41	21.43	21.50	22.9	0
5	QPSK	1	12	21.29	21.39	21.38		
5	QPSK	1	24	21.27	21.39	21.40		
5	QPSK	12	0	21.37	21.40	21.39		
5	QPSK	12	7	21.35	21.39	21.38	22.9	0
5	QPSK	25	0	21.28	21.40	21.37		
5	HQAM	1	0	21.36	21.37	21.41		
5	HQAM	1	12	21.27	21.41	21.40	22.9	0
5	HQAM	1	24	21.22	21.34	21.40		
5	HQAM	12	0	20.43	20.48	20.58		
5	HQAM	12	7	20.42	20.45	20.54	22	0.9
5	HQAM	12	13	20.37	20.45	20.57		
5	HQAM	25	0	20.41	20.48	20.40		
5	HQAM	1	0	20.51	20.47	20.49	22	0.9
5	HQAM	1	12	20.52	20.48	20.51		
5	HQAM	1	24	20.48	20.56	20.55		
5	HQAM	12	0	19.61	19.54	19.50	21	1.9
5	HQAM	12	7	19.52	19.43	19.45		
5	HQAM	12	13	19.40	19.52	19.58		
5	HQAM	25	0	19.45	19.52	19.43		
5	SSBQAM	1	0	17.51	17.52	17.48		
5	SSBQAM	1	12	17.42	17.49	17.57	19	3.9
5	SSBQAM	1	24	17.41	17.50	17.53		
5	SSBQAM	12	0	17.42	17.52	17.52		
5	SSBQAM	12	7	17.63	17.46	17.55	19	3.9
5	SSBQAM	12	13	17.52	17.46	17.41		
5	SSBQAM	25	0	17.44	17.45	17.50		



Band 41 Ant 10 DSI2

Table with columns: RBW (MHz), Modulation, RB Size, RB Offset, Power (Low, Mid, High Ch / Freq), Turn-up (dBm), MPR (dB). Contains multiple rows for different modulation schemes (QPSK, 16QAM, 64QAM, 256QAM) and RB sizes (1, 2, 4, 8, 16, 32, 64, 128).

Band 41 HPUE Ant 10 DSI2

Table with columns: RBW (MHz), Modulation, RB Size, RB Offset, Power (Low, Mid, High Ch / Freq), Turn-up (dBm), MPR (dB). Contains multiple rows for different modulation schemes (QPSK, 16QAM, 64QAM, 256QAM) and RB sizes (1, 2, 4, 8, 16, 32, 64, 128).



Reduced Power Mode for DSI3

GSM900 AMR 0 DR3		Tx Channel			Tx Power			Tx Power		
Frequency (MHz)	18	18	18	18	18	18	18	18	18	18
Frequency (MHz)	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
GSM 1 Tx (dBm)	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
OPRR 1 Tx (dBm)	32.08	32.24	32.50	33.00	33.08	33.24	33.50	34.00	34.08	34.50
OPRR 2 Tx (dBm)	29.87	30.14	30.50	30.50	30.87	31.14	31.50	31.50	31.87	32.50
OPRR 3 Tx (dBm)	27.76	27.88	27.85	28.10	28.50	28.62	28.60	28.84	29.00	29.50
OPRR 4 Tx (dBm)	26.88	26.50	26.87	27.00	27.88	27.88	27.87	28.00	28.87	29.00
EDGE 1 Tx (dBm)	26.74	26.80	26.82	26.80	27.74	27.80	27.82	27.80	28.74	29.00
EDGE 2 Tx (dBm)	25.52	25.52	25.41	25.50	25.52	25.52	25.41	25.50	25.52	25.50
EDGE 3 Tx (dBm)	24.16	24.16	24.00	24.00	24.00	24.00	23.74	23.74	23.74	23.74
EDGE 4 Tx (dBm)	22.12	22.22	22.13	23.00	22.12	22.22	22.13	23.00	22.12	22.13

Base		WCDMA V.MR 0 DR3			Tx Power		
Frequency (MHz)	4150	4150	4150	4150	4150	4150	4150
Frequency (MHz)	4150	4150	4150	4150	4150	4150	4150
WCDMA 1 Tx (dBm)	33.04	33.04	33.04	33.04	33.04	33.04	33.04
WCDMA 2 Tx (dBm)	32.10	32.28	32.13	32.13	32.10	32.28	32.13
WCDMA 3 Tx (dBm)	22.28	22.32	22.18	22.00	22.28	22.32	22.18
WCDMA 4 Tx (dBm)	21.00	21.21	21.22	21.00	21.00	21.21	21.22
WCDMA 5 Tx (dBm)	21.24	21.25	21.16	21.00	21.24	21.25	21.16
WCDMA 6 Tx (dBm)	20.78	20.72	20.74	22.00	20.78	20.72	20.74
WCDMA 7 Tx (dBm)	20.78	20.82	20.72	22.00	20.78	20.82	20.72
WCDMA 8 Tx (dBm)	21.30	21.31	21.16	23.00	21.30	21.31	21.16
WCDMA 9 Tx (dBm)	21.26	21.27	21.10	23.00	21.26	21.27	21.10
WCDMA 10 Tx (dBm)	20.74	20.80	20.85	22.00	20.74	20.80	20.85
WCDMA 11 Tx (dBm)	20.70	20.78	20.69	22.00	20.70	20.78	20.69
WCDMA 12 Tx (dBm)	21.27	21.25	21.14	23.00	21.27	21.25	21.14
WCDMA 13 Tx (dBm)	19.22	19.22	19.16	21.00	19.22	19.22	19.16
WCDMA 14 Tx (dBm)	19.22	19.22	19.16	21.00	19.22	19.22	19.16
WCDMA 15 Tx (dBm)	19.22	19.22	19.20	21.00	19.22	19.22	19.20
WCDMA 16 Tx (dBm)	21.53	21.50	21.19	23.00	21.53	21.50	21.19



Band 5 Ant 0 DS13

Table with 11 columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./F.Freq., Power High Ch./F.Freq., Power High Ch./F.Freq., Turn-up (dB), MPR (dB), and MPR (dB). Rows include Channel, Frequency (MHz), and various modulation types (QPSK, 16QAM, 64QAM, 256QAM) across RB sizes 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16.

Band 7 Ant 0 DS13

Table with 11 columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./F.Freq., Power High Ch./F.Freq., Power High Ch./F.Freq., Turn-up (dB), MPR (dB), and MPR (dB). Rows include Channel, Frequency (MHz), and various modulation types (QPSK, 16QAM, 64QAM, 256QAM) across RB sizes 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16.

Band 12 Ant 0 DS13

Table with 11 columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./F.Freq., Power High Ch./F.Freq., Power High Ch./F.Freq., Turn-up (dB), MPR (dB), and MPR (dB). Rows include Channel, Frequency (MHz), and various modulation types (QPSK, 16QAM, 64QAM, 256QAM) across RB sizes 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16.



GSM1900 Airt 1 DSS3 TX Channel	Band Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	800	860	890		800	860	890	
Frequency (MHz)	144.2	144.4	144.6	144.5	144.4	144.6	144.6	144.6
OPRS 1 Tx.wat	31.84	32.11	32.68	33.40	32.84	33.11	33.08	32.60
OPRS 2 Tx.wat	28.87	29.11	29.08	30.40	29.87	29.11	29.08	29.40
OPRS 3 Tx.wat	27.52	27.75	27.64	28.92	28.26	28.31	28.26	28.24
OPRS 4 Tx.wat	26.30	26.42	26.27	27.62	26.30	26.42	26.27	26.60
EDGE 1 Tx.wat	26.12	26.15	26.12	27.60	26.12	26.15	26.12	26.60
EDGE 2 Tx.wat	25.01	25.01	24.94	26.00	25.01	25.01	24.94	25.00
EDGE 3 Tx.wat	23.40	23.44	23.54	24.80	23.44	23.20	23.28	23.24
EDGE 4 Tx.wat	21.48	21.72	21.69	22.50	18.48	18.72	18.69	18.60

GSM1900 Airt 1 DSS3 TX Channel	Band Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	800	860	890		800	860	890	
Frequency (MHz)	169.2	169.4	169.6	169.2	169.4	169.6	169.6	169.6
OPRS 1 Tx.wat	23.94	24.08	23.86	25.10	14.94	15.08	14.86	15.10
OPRS 2 Tx.wat	23.79	23.96	23.86	25.10	14.79	14.86	14.86	15.10
OPRS 3 Tx.wat	20.55	21.05	20.97	22.10	14.05	15.05	14.97	15.10
OPRS 4 Tx.wat	19.00	19.08	18.95	20.20	14.74	14.82	14.79	16.04
EDGE 1 Tx.wat	18.28	18.25	18.17	19.10	15.28	15.26	15.17	16.10
EDGE 2 Tx.wat	23.56	23.52	23.41	24.50	14.56	14.52	14.41	15.50
EDGE 3 Tx.wat	21.26	21.54	21.35	22.10	16.26	16.24	16.25	16.10
EDGE 4 Tx.wat	18.86	18.90	18.82	20.20	14.86	14.83	14.66	16.04
EDGE 5 Tx.wat	17.99	18.05	17.94	19.10	14.99	15.00	14.94	15.10

Band TX Channel	WCDMA II Airt 1 DSS3			Tune-up Limit (dBm)	WCDMA IV Airt 1 DSS3			Tune-up Limit (dBm)	WCDMA V Airt 1 DSS3			Tune-up Limit (dBm)	
	800	860	890		800	860	890		4120	4180	4200		
Frequency (MHz)	1692.8	1692.8	1692.8	1692.8	1692.8	1692.8	1692.8	4120.8	4180.8	4200.8	4120.8	4180.8	4200.8
ISPP Ref. #0	12.60	12.73	12.71	14.10	14.07	14.73	14.64	15.20	22.85	22.86	22.81	24.00	24.00
ISPP Ref. #1	12.71	12.75	12.73	14.10	14.73	14.75	14.70	15.70	22.88	22.71	22.85	24.00	24.00
ISPP Ref. #2	11.73	11.75	11.75	13.10	13.88	13.78	13.74	14.70	21.89	21.71	21.88	23.00	23.00
ISPP Ref. #3	11.26	11.28	11.18	12.60	13.35	13.31	13.81	14.20	21.00	21.28	21.18	22.86	22.86
ISPP Ref. #4	11.27	11.26	11.27	12.60	13.22	13.23	13.23	14.20	21.18	21.20	21.18	22.86	22.86
ISPP Ref. #5	11.14	11.72	11.68	12.78	13.71	13.71	13.67	14.20	21.89	21.71	21.85	23.00	23.00
ISPP Ref. #6	11.75	11.73	11.70	13.10	13.72	13.73	13.69	14.70	21.83	21.72	21.83	23.00	23.00
ISPP Ref. #7	11.16	11.30	11.19	12.60	13.25	13.24	13.24	14.20	21.19	21.23	21.14	22.50	22.50
ISPP Ref. #8	11.23	11.20	11.20	12.60	13.20	13.21	13.22	14.20	21.18	21.19	21.19	22.50	22.50
ISPP Ref. #9	11.76	11.81	11.70	13.10	13.73	13.77	13.71	14.70	21.85	21.85	21.89	23.00	23.00
ISPP Ref. #10	9.65	9.75	9.69	11.20	11.71	11.80	11.70	12.20	18.64	18.68	18.69	21.00	21.00
ISPP Ref. #11	10.68	10.80	10.68	12.10	12.74	12.73	12.70	13.70	20.71	20.70	20.66	22.00	22.00
ISPP Ref. #12	9.22	9.75	9.69	11.10	11.70	11.70	11.70	12.20	18.71	18.73	18.82	21.00	21.00
ISPP Ref. #13	11.69	11.73	11.77	13.10	13.68	13.72	13.69	14.70	21.86	21.73	21.90	23.00	23.00



CDMA 1X Rev 2 DS3	Burst Average Power (dBm)			Timing Limit	Frame Average Power (dBm)			Timing Limit
	1800.2	1800	1800.8		1800.2	1800	1800.8	
Frequency (MHz)	1800.2	1800	1800.8	(dBm)	1800.2	1800	1800.8	(dBm)
OPNS 1 Tx Wtd	28.79	28.54	28.80	-30.53	-19.79	-19.84	-19.80	-21.60
OPNS 2 Tx Wtd	26.11	26.55	26.52	-27.50	-20.11	-20.55	-20.50	-21.50
OPNS 3 Tx Wtd	25.05	24.75	24.74	-26.50	-20.75	-20.52	-20.48	-21.14
OPNS 4 Tx Wtd	23.49	23.07	23.50	-24.00	-20.49	-20.07	-20.50	-21.05
EDGE 1 Tx Wtd	24.67	24.61	24.55	-25.00	-19.67	-19.58	-19.55	-19.55
EDGE 2 Tx Wtd	23.57	23.31	23.26	-24.50	-17.57	-17.31	-17.26	-18.50
EDGE 3 Tx Wtd	21.86	21.8	21.86	-22.50	-17.86	-17.80	-17.86	-18.14
EDGE 4 Tx Wtd	20.02	20.02	19.98	-21.00	-17.02	-17.02	-16.98	-18.00

Band	WCDMA 1X Rev 2 DS3			Timing Limit	WCDMA 1X Rev 2 DS3			Timing Limit
	5882	5880	5878		1812.4	1812	1811.6	
TX Channel	5882	5880	5878	(dBm)	1812.4	1812	1811.6	(dBm)
Frequency (MHz)	1812.4	1812	1811.6	(dBm)	1812.4	1812	1811.6	(dBm)
SOPF Rule 1	20.16	20.17	20.17	-21.43	-18.78	-18.80	-18.80	-20.16
SOPF Rule 2	20.25	20.25	20.20	-21.45	-18.78	-18.58	-18.75	-20.10
SOPF Rule 3	19.21	19.21	19.25	-20.40	-17.73	-17.81	-17.75	-19.10
SOPF Rule 4	19.18	19.20	19.17	-20.40	-17.76	-17.84	-17.80	-19.10
SOPF Rule 5	18.77	18.70	18.75	-19.50	-17.52	-17.27	-17.28	-18.50
SOPF Rule 6	18.71	18.80	18.70	-19.50	-17.54	-17.24	-17.26	-18.50
SOPF Rule 7	18.28	18.20	18.19	-20.48	-17.78	-17.75	-17.77	-18.16
SOPF Rule 8	18.24	18.27	18.20	-20.40	-17.78	-17.83	-17.78	-18.10
SOPF Rule 9	18.74	18.75	18.85	-19.50	-17.25	-17.33	-17.27	-18.50
SOPF Rule 10	18.89	18.76	18.72	-19.50	-17.29	-17.27	-17.27	-18.50
SOPF Rule 11	19.27	19.21	19.22	-20.40	-17.78	-17.84	-17.81	-19.10
SOPF Rule 12	17.24	17.24	17.17	-18.40	-15.78	-15.77	-15.78	-17.10
SOPF Rule 13	18.21	18.20	18.16	-19.40	-16.78	-16.84	-16.78	-18.10
SOPF Rule 14	17.26	17.26	17.25	-18.40	-15.82	-15.78	-15.78	-17.10
SOPF Rule 15	18.22	18.20	18.25	-20.40	-17.83	-17.78	-17.70	-18.10



Table with 15 columns: BW (MHz), Modulation, RB Size, RB Offset, Power Ch./F.Freq., Power Hch./F.Freq., Power Lch./F.Freq., Turn-up Int. (min), MPR (dB). Header: Band 2 Ant 2 DS13. Rows: Channel, Frequency (MHz), Channel, MPR (dB).

Table with 15 columns: BW (MHz), Modulation, RB Size, RB Offset, Power Ch./F.Freq., Power Hch./F.Freq., Power Lch./F.Freq., Turn-up Int. (min), MPR (dB). Header: Band 4 Ant 2 DS13. Rows: Channel, Frequency (MHz), Channel, MPR (dB).

Table with 15 columns: BW (MHz), Modulation, RB Size, RB Offset, Power Ch./F.Freq., Power Hch./F.Freq., Power Lch./F.Freq., Turn-up Int. (min), MPR (dB). Header: Band 7 Ant 2 DS13. Rows: Channel, Frequency (MHz), Channel, MPR (dB).

Table with 15 columns: BW (MHz), Modulation, RB Size, RB Offset, Power Ch./F.Freq., Power Hch./F.Freq., Power Lch./F.Freq., Turn-up Int. (min), MPR (dB). Header: Band 66 Ant 2 DS13. Rows: Channel, Frequency (MHz), Channel, MPR (dB).



Reduced Power Mode for DS14

DS1400 V.AVI 0 DS14									
TX Channel	RAC Single Power (dBm)			Tx Power Limit	HSP/HP/PA Power (dBm)			Tx Power Limit	
	198	196	191		198	196	191		
Frequency (MHz)	171.2	171.4	171.6	33.00	21.2	21.4	21.6	24.00	
CDMA TX Rate	32.00	32.20	32.40	33.00	23.00	23.20	23.40	24.00	
OPRR-1 TX Rate	32.00	32.20	32.40	33.00	23.00	23.20	23.40	24.00	
OPRR-2 TX Rate	29.90	30.20	30.50	31.00	21.00	21.20	21.50	22.00	
OPRR-3 TX Rate	28.41	28.71	29.01	30.00	24.15	24.45	24.75	25.14	
OPRR-4 TX Rate	26.98	27.28	27.58	28.00	23.34	23.64	23.94	24.30	
EDGE-1 TX Rate	26.74	26.90	27.07	28.00	17.74	17.80	17.87	19.00	
EDGE-2 TX Rate	26.52	26.52	26.41	26.50	19.52	19.52	19.41	20.50	
EDGE-3 TX Rate	24.16	24.16	24.00	25.00	19.00	19.00	19.74	20.74	
EDGE-4 TX Rate	22.12	22.22	22.13	23.00	18.12	18.22	18.13	20.00	

WCDMA V.AVI 0 DS14									
TX Channel	RAC Single Power (dBm)			Tx Power Limit					
	4102	4102	4203						
Frequency (MHz)	4097	4097	4097	33.00					
SCPP Rate	RAC 12.2Rate	22.16	22.25	23.13					
SCPP Rate	RAC 12.2Rate	22.28	22.37	23.18					
SCPP Rate	HSP/PA Subcar-1	21.25	21.25	21.25					
SCPP Rate	HSP/PA Subcar-2	21.34	21.25	21.18					
SCPP Rate	HSP/PA Subcar-3	20.78	20.70	20.74					
SCPP Rate	HSP/PA Subcar-4	20.78	20.82	20.72					
SCPP Rate	DC-HSP/PA Subcar-1	21.30	21.34	21.18					
SCPP Rate	DC-HSP/PA Subcar-2	21.26	21.31	21.10					
SCPP Rate	DC-HSP/PA Subcar-3	20.74	20.80	20.85					
SCPP Rate	DC-HSP/PA Subcar-4	20.78	20.78	20.69					
SCPP Rate	HSP/PA Subcar-1	21.27	21.25	21.14					
SCPP Rate	HSP/PA Subcar-2	19.22	19.22	19.16					
SCPP Rate	HSP/PA Subcar-3	20.32	20.31	20.15					
SCPP Rate	HSP/PA Subcar-4	19.22	19.20	19.20					
SCPP Rate	HSP/PA Subcar-5	21.31	21.30	21.19					



GSM900 Airt 1 DS4 TX Channel	Band Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	800	808	816		800	808	816	
Frequency (MHz)	174.2	174.4	174.6	174.2	174.4	174.6	174.2	174.4
OPRR 1 Tx.lev	31.99	32.19	32.19	33.50	32.99	33.19	33.19	34.50
OPRR 2 Tx.levs	29.96	30.23	30.12	31.50	29.96	30.23	30.12	31.50
OPRR 3 Tx.levs	28.38	28.95	28.86	29.50	28.76	29.27	29.20	30.50
OPRR 4 Tx.levs	26.76	27.52	26.92	28.00	26.76	27.42	27.02	28.50
EDGE 1 Tx.levs	26.12	26.13	26.12	27.00	19.03	19.03	19.03	18.00
EDGE 2 Tx.levs	25.01	25.03	24.94	26.00	18.01	18.03	18.04	20.00
EDGE 3 Tx.levs	23.40	23.48	23.54	24.50	17.14	17.20	17.28	22.00
EDGE 4 Tx.levs	21.48	21.72	21.69	22.50	16.48	16.72	16.69	18.00

GSM1900 Airt 1 DS4 TX Channel	Band Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	861	861	861		861	861	861	
Frequency (MHz)	1880.0	1880.0	1880.0	1880.0	1880.0	1880.0	1880.0	1880.0
GSM 1 Tx.lev	27.80	27.96	27.80	29.00	18.80	18.96	18.80	20.00
OPRR 1 Tx.lev	24.72	24.76	24.72	26.00	16.72	16.76	16.72	20.00
OPRR 2 Tx.levs	23.05	23.54	23.42	26.50	15.05	16.54	16.42	20.50
OPRR 3 Tx.levs	23.00	23.76	23.71	25.00	16.84	19.50	19.45	20.74
OPRR 4 Tx.levs	22.28	22.73	22.62	23.00	16.28	19.07	18.92	20.00
EDGE 1 Tx.levs	23.56	23.52	23.41	24.50	14.56	14.52	14.41	15.50
EDGE 2 Tx.levs	22.36	22.26	22.11	23.00	16.36	16.26	16.11	17.00
EDGE 3 Tx.levs	20.76	20.76	20.62	22.00	16.56	16.56	16.36	17.74
EDGE 4 Tx.levs	18.95	18.95	18.90	20.00	15.95	15.95	15.90	17.00

Band	WCDMA II Airt 1 DS4			Tune-up Limit (dBm)	WCDMA IV Airt 1 DS8			Tune-up Limit (dBm)	WCDMA V Airt 1 DS8			Tune-up Limit (dBm)
	800	800	808		816	816	816		816	816	816	
Frequency (MHz)	1880.0	1880.0	1880.0	1880.0	1880.0	1880.0	1880.0	1880.0	1880.0	1880.0	1880.0	1880.0
ISPP Ref.lev	20.90	20.90	20.96	22.50	21.01	21.00	21.00	22.00	22.85	22.86	22.81	24.00
ISPP Ref.lev	19.95	19.95	20.08	22.50	21.08	21.11	21.08	22.50	22.88	22.71	22.85	24.00
ISPP Ref.lev	19.95	19.99	20.04	21.50	20.00	20.10	20.10	21.50	21.85	21.77	21.85	23.00
ISPP Ref.lev	19.92	19.88	19.92	21.50	20.88	20.10	20.81	21.50	21.89	21.71	21.88	23.00
ISPP Ref.lev	19.42	19.44	19.44	21.00	19.90	19.82	19.84	21.00	21.00	21.00	21.18	22.86
ISPP Ref.lev	19.50	19.51	19.47	21.00	19.59	19.62	19.51	21.00	21.18	21.20	21.18	22.86
ISPP Ref.lev	19.24	19.24	19.27	21.00	19.24	19.24	19.24	21.00	21.00	21.00	21.00	22.86
ISPP Ref.lev	19.53	19.55	19.57	21.50	20.00	20.10	20.03	21.50	21.83	21.72	21.83	23.00
ISPP Ref.lev	19.47	19.55	19.43	21.00	19.88	19.80	19.51	21.00	21.19	21.23	21.14	22.50
ISPP Ref.lev	19.48	19.56	19.43	21.00	19.95	19.86	19.95	21.00	21.18	21.19	21.12	22.50
ISPP Ref.lev	19.97	20.00	20.02	21.50	20.02	20.10	20.05	21.50	21.85	21.85	21.89	23.00
ISPP Ref.lev	17.94	18.01	18.02	19.50	18.00	18.00	18.04	19.50	19.64	19.68	19.69	21.00
ISPP Ref.lev	18.92	18.97	18.99	20.50	19.03	19.13	19.03	20.50	20.71	20.75	20.66	22.00
ISPP Ref.lev	17.96	17.96	17.93	19.50	18.00	18.10	18.02	19.50	19.71	19.73	19.82	21.00
ISPP Ref.lev	19.94	19.95	19.97	21.50	20.10	20.06	20.04	21.50	21.86	21.73	21.99	23.00



CDMA Rev 2 DS-SS	SFRs Average Power (dBm)			Turnup Limit (dBm)	E-UTRAN Average Power (dBm)			Turnup Limit (dBm)
	1800.2	1800	1800.8		1800.2	1800	1800.8	
Frequency (MHz)	1800.2	1800	1800.8	1800.2	1800	1800.8	1800	
QPSK 1 Tx Wtd	28.79	28.04	28.80	30.03	19.79	19.04	19.80	
QPSK 2 Tx Wtd	26.11	26.05	26.02	27.00	20.11	20.05	20.02	
QPSK 3 Tx Wtd	25.05	24.75	24.74	26.00	20.75	20.52	20.49	
QPSK 4 Tx Wtd	23.49	23.07	23.00	24.00	20.49	20.07	20.00	
EDGE 1 Tx Wtd	24.67	24.61	24.55	25.00	19.67	19.58	19.50	
EDGE 2 Tx Wtd	23.57	23.31	23.26	24.50	17.57	17.31	17.26	
EDGE 3 Tx Wtd	21.86	21.8	21.66	22.00	17.66	17.50	17.42	
EDGE 4 Tx Wtd	20.02	20.00	19.98	21.00	17.02	16.98	16.90	

Band	WCDMA Rev 2 DS-SS			Turnup Limit (dBm)	WCDMA Rev 2 DS-SS			Turnup Limit (dBm)
	5882	5880	5878		1812	1813	1813	
TV Channel	5882	5880	5878	1812	1813	1813	1813	
Frequency (MHz)	5882	5880	5878	1812	1813	1813	1813	
SOPF Rule	AVG 12 dBm	22.58	22.82	21.58	21.52	21.62	21.58	
SOPF Rule	HS-PA Subcar-1	21.15	21.09	21.15	22.00	21.04	21.10	
SOPF Rule	HS-PA Subcar-2	21.13	21.13	21.11	22.00	21.11	21.08	
SOPF Rule	HS-PA Subcar-3	20.89	20.82	20.85	21.50	20.59	20.54	
SOPF Rule	HS-PA Subcar-4	20.50	20.61	20.50	21.50	20.60	20.61	
SOPF Rule	DC-HSPA Subcar-1	21.11	21.18	21.11	22.00	21.07	21.07	
SOPF Rule	DC-HSPA Subcar-2	21.15	21.10	21.13	22.00	21.01	21.05	
SOPF Rule	DC-HSPA Subcar-3	20.87	20.95	20.82	21.50	20.95	20.95	
SOPF Rule	DC-HSPA Subcar-4	20.61	20.65	20.67	21.50	20.50	20.61	
SOPF Rule	HS-PA Subcar-1	21.12	21.15	21.12	22.00	21.00	21.08	
SOPF Rule	HS-PA Subcar-2	19.13	19.10	19.09	20.00	18.03	18.07	
SOPF Rule	HS-PA Subcar-3	20.11	20.13	20.15	21.00	20.06	20.07	
SOPF Rule	HS-PA Subcar-4	19.13	19.16	19.08	20.00	19.08	19.04	
SOPF Rule	HS-PA Subcar-5	21.13	21.16	21.11	22.00	21.05	21.05	



Band 2 Ant 2 DS14

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Ch./Freq., Power Hch./Freq., Power Lch./Freq., Turn-up (dB), MPR (dB). Rows include channels and subcarriers for Band 2 Ant 2 DS14.

Band 4 Ant 2 DS14

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Ch./Freq., Power Hch./Freq., Power Lch./Freq., Turn-up (dB), MPR (dB). Rows include channels and subcarriers for Band 4 Ant 2 DS14.

Band 7 Ant 2 DS14

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Ch./Freq., Power Hch./Freq., Power Lch./Freq., Turn-up (dB), MPR (dB). Rows include channels and subcarriers for Band 7 Ant 2 DS14.

Band 66 Ant 2 DS14

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Ch./Freq., Power Hch./Freq., Power Lch./Freq., Turn-up (dB), MPR (dB). Rows include channels and subcarriers for Band 66 Ant 2 DS14.



Band 41 Ant 2 DSI4

Table with columns: RBW (MHz), Modulation, RB Size, RB Offset, Power (Low Ch / Freq, Mid Ch / Freq, High Ch / Freq), Turn-up limit (dBm), MPR (dB). Includes Channel and Frequency (MHz) sub-headers.

Band 41 HPUe Ant 2 DSI4

Table with columns: RBW (MHz), Modulation, RB Size, RB Offset, Power (Low Ch / Freq, Mid Ch / Freq, High Ch / Freq), Turn-up limit (dBm), MPR (dB). Includes Channel and Frequency (MHz) sub-headers.



Reduced Power Mode for DS16

GSM-RG A/E O DRB									
Tx Channel	198	199	201	Limit	198	199	201	Limit	Turn-up
Frequency (MHz)	812	814	816	(dBm)	812	814	816	(dBm)	
GSM 1 Tx (ref)	33.00	32.25	32.02	33.00	23.00	23.00	23.02	24.00	
OPRS 1 Tx (ref)	33.08	32.24	32.00	33.00	23.08	23.24	23.00	24.00	
OPRS 2 Tx (ref)	29.98	30.20	30.30	31.00	23.98	24.20	24.30	25.00	
OPRS 3 Tx (ref)	28.41	28.74	28.85	30.00	24.15	24.40	24.50	25.74	
OPRS 4 Tx (ref)	26.94	27.00	27.40	28.00	23.64	24.00	24.40	25.00	
EDGE 1 Tx (ref)	26.74	26.60	26.62	28.00	17.74	17.60	17.62	19.00	
EDGE 2 Tx (ref)	25.52	25.50	25.41	26.00	19.52	19.50	19.41	20.00	
EDGE 3 Tx (ref)	24.18	24.15	24.00	25.00	18.90	18.80	18.74	20.74	
EDGE 4 Tx (ref)	22.12	22.22	22.13	23.00	19.12	19.22	19.13	20.00	

WCDMA V.A/E O DRB									
Tx Channel	452	454	456	Limit	452	454	456	Limit	Turn-up
Frequency (MHz)	511.4	513.4	515.4	(dBm)	511.4	513.4	515.4	(dBm)	
SCPP Rule 0	22.16	22.28	22.13	24.00					
SCPP Rule 0	RMIC 12 20bps	22.28	22.32	22.18	24.00				
SCPP Rule 1	HEOPA Subclass 1	21.25	21.31	21.33	23.00				
SCPP Rule 1	HEOPA Subclass 2	21.34	21.28	21.18	23.00				
SCPP Rule 1	HEOPA Subclass 3	20.78	20.72	20.74	22.50				
SCPP Rule 1	HEOPA Subclass 4	21.30	21.34	21.16	23.00				
SCPP Rule 1	DC-HEOPA Subclass 1	21.26	21.27	21.19	23.00				
SCPP Rule 1	DC-HEOPA Subclass 2	20.74	20.80	20.85	22.50				
SCPP Rule 1	DC-HEOPA Subclass 3	20.72	20.72	20.69	22.50				
SCPP Rule 1	HEOPA Subclass 1	21.27	21.25	21.14	23.00				
SCPP Rule 1	HEOPA Subclass 2	19.22	19.20	19.18	21.00				
SCPP Rule 1	HEOPA Subclass 3	20.32	20.33	20.13	22.00				
SCPP Rule 1	HEOPA Subclass 4	19.20	19.20	19.20	21.00				
SCPP Rule 1	HEOPA Subclass 5	21.33	21.30	21.19	23.00				



GSMDQ Aet 1 DSR	Best Average Power (dBm)			Tune-up Limit	Frame-Average Power (dBm)			Tune-up Limit
	598	599	601		598	599	601	
TX Channel	59.2	59.4	59.8	59.2	59.4	59.8	59.2	
Frequency (MHz)	33.2	33.2	33.2	33.0	33.1	33.2	33.2	
OPRR 1 Tx Limit	33.66	33.39	33.39	33.60	33.60	33.39	33.39	
OPRR 2 Tx Limit	26.96	26.23	26.12	27.00	26.96	26.23	26.12	
OPRR 3 Tx Limit	26.76	26.50	26.46	26.50	26.76	26.50	26.46	
OPRR 4 Tx Limit	26.76	27.02	26.92	26.00	23.76	24.02	23.92	
EDGE 1 Tx Limit	26.12	26.16	26.12	27.00	17.12	17.16	17.12	
EDGE 2 Tx Limit	25.01	25.03	24.94	26.00	16.01	16.03	15.94	
EDGE 3 Tx Limit	23.40	23.44	23.44	24.00	14.40	14.44	14.44	
EDGE 4 Tx Limit	23.48	23.72	23.60	22.00	16.48	16.72	16.60	

GSMDQ Aet 1 DSR	Best Average Power (dBm)			Tune-up Limit	Frame-Average Power (dBm)			Tune-up Limit
	592	593	610		592	593	610	
TX Channel	59.2	59.3	61.0	59.2	59.3	61.0	59.2	
Frequency (MHz)	160.2	160.3	160.8	160.2	160.3	160.8	160.2	
GSMD 1 Tx Limit	25.79	25.94	25.79	27.00	16.79	16.94	16.79	
OPRR 1 Tx Limit	25.76	25.88	25.76	27.00	16.76	16.88	16.76	
OPRR 2 Tx Limit	25.88	25.51	25.95	24.00	16.88	17.01	16.95	
OPRR 3 Tx Limit	21.00	21.03	20.97	22.00	16.74	16.77	16.71	
OPRR 4 Tx Limit	20.13	20.17	20.16	21.00	17.13	17.17	17.16	
EDGE 1 Tx Limit	23.56	23.50	23.41	24.00	14.56	14.50	14.41	
EDGE 2 Tx Limit	23.56	23.26	23.17	23.00	16.56	16.26	16.17	
EDGE 3 Tx Limit	20.76	20.78	20.62	22.00	16.50	16.49	16.36	
EDGE 4 Tx Limit	18.05	18.06	18.00	20.00	10.05	10.06	10.00	

Best	WCDMA II Aet 1 DSR			Tune-up Limit	WCDMA IV Aet 1 DSR			Tune-up Limit	WCDMA V Aet 1 DSR			Tune-up Limit
	805	806	808		812	813	813		810	815	823	
TX Channel	805	806	808	812	813	813	810	815	823	823	823	810
Frequency (MHz)	6662	6669	6668	6677	6677	6678	6678	6677	6677	6677	6677	6677
ISPP-RM-01	17.15	17.16	17.12	18.40	18.48	18.50	18.46	18.30	22.85	22.66	22.61	24.00
ISPP-RM-02	17.20	17.22	17.18	18.40	18.52	18.55	18.54	18.30	22.88	22.71	22.65	24.00
ISPP-Pa-01	18.14	18.24	18.14	17.40	17.96	17.95	17.95	18.00	21.65	21.77	21.65	23.00
ISPP-Pa-02	18.14	18.20	18.22	17.40	17.48	17.56	17.57	18.30	21.69	21.71	21.68	23.00
ISPP-Pa-03	15.80	15.87	15.70	16.50	16.90	17.09	16.99	16.40	21.29	21.26	21.18	22.50
ISPP-Pa-04	15.80	15.77	15.88	16.50	17.00	17.02	17.07	18.40	21.16	21.20	21.16	22.50
ISPP-Pa-05	15.15	15.2	15.31	17.40	17.37	17.40	17.44	18.00	21.09	21.10	21.00	23.00
ISPP-Pa-06	15.16	15.26	15.16	17.40	17.50	17.52	17.51	18.00	21.63	21.72	21.63	23.00
ISPP-Pa-07	15.88	15.74	15.72	16.50	16.98	17.10	17.05	18.40	21.19	21.23	21.14	22.50
ISPP-Pa-08	15.77	15.71	15.60	16.50	16.98	17.09	16.98	18.40	21.16	21.15	21.12	22.50
ISPP-Pa-09	16.21	16.27	16.17	17.40	17.51	17.57	17.40	18.00	21.65	21.65	21.60	23.00
ISPP-Pa-10	15.70	15.70	15.60	16.40	16.51	16.51	16.57	18.00	19.66	19.66	19.60	21.00
ISPP-Pa-11	15.25	15.17	15.13	16.40	16.58	16.57	16.54	17.90	20.73	20.75	20.62	22.00
ISPP-Pa-12	14.17	14.24	14.14	15.40	15.96	15.95	15.48	16.50	19.71	19.73	19.62	21.00
ISPP-Pa-13	15.26	15.23	15.16	17.40	17.54	17.52	17.50	18.00	21.66	21.73	21.66	23.00



CDMA 1X Rev 2 DS8	Burst Average Power (dBm)			Tuning Limit	Frame Average Power (dBm)			Tuning Limit
	TS Channel	1892	1893		1894	TS Channel	1892	
Frequency (MHz)	1892.2	1892	1893.8	(dB)	1892.2	1893	1893.8	(dB)
QPSK 1 Tx Rate	28.79	28.84	28.89	-30.53	19.79	19.84	19.89	-21.60
QPSK 2 Tx Rate	28.11	28.55	28.99	-27.50	20.11	20.55	20.99	-21.50
QPSK 3 Tx Rate	27.06	27.75	28.44	-26.00	20.79	21.52	22.25	-21.11
QPSK 4 Tx Rate	23.49	23.07	22.65	-24.00	20.49	20.07	19.65	-21.00
EDGE 1 Tx Rate	24.87	24.81	24.75	-26.00	19.87	19.81	19.75	-16.00
EDGE 2 Tx Rate	23.57	23.31	23.26	-24.50	17.57	17.31	17.26	-18.50
EDGE 3 Tx Rate	21.86	21.81	21.76	-22.50	17.86	17.81	17.76	-18.24
EDGE 4 Tx Rate	20.02	20.00	19.98	-21.00	17.02	17.00	16.98	-18.00

Band	WCDMA 1X Rev 2 DS8			Tuning Limit	WCDMA 1X Rev 2 DS8			Tuning Limit
	TS Channel	9682	9683		9684	9682	9683	
Frequency (MHz)	1824.4	1824	1823.6	(dB)	1715.4	1715.6	1715.8	(dB)
SOPP Rule	RUC 12 2Mbps	21.28	21.31	21.28	-22.50	-21.85	-21.87	-22.50
SOPP Rule	HSDPA Subcar-1	20.51	20.31	20.33	-21.80	-20.81	-20.82	-21.80
SOPP Rule	HSDPA Subcar-2	20.14	20.32	20.28	-21.80	-20.90	-20.90	-21.80
SOPP Rule	HSDPA Subcar-3	19.85	19.80	19.76	-21.30	-20.39	-20.39	-21.30
SOPP Rule	HSDPA Subcar-4	19.51	19.80	19.76	-21.30	-20.50	-20.47	-21.30
SOPP Rule	DC-HSDPA Subcar-1	20.34	20.40	20.28	-21.80	-20.91	-20.84	-21.80
SOPP Rule	DC-HSDPA Subcar-2	20.31	20.30	20.25	-21.80	-20.84	-20.90	-21.80
SOPP Rule	DC-HSDPA Subcar-3	19.81	19.95	19.81	-21.30	-20.35	-20.35	-21.30
SOPP Rule	DC-HSDPA Subcar-4	19.75	19.80	19.81	-21.30	-20.30	-20.37	-21.30
SOPP Rule	HSPA Subcar-1	20.27	20.25	20.33	-21.80	-20.83	-20.90	-21.80
SOPP Rule	HSPA Subcar-2	18.28	18.28	18.28	-19.50	-18.86	-18.87	-19.50
SOPP Rule	HSPA Subcar-3	18.25	18.28	18.28	-20.00	-18.87	-18.84	-20.00
SOPP Rule	HSPA Subcar-4	18.30	18.40	18.33	-19.50	-18.87	-18.84	-19.50
SOPP Rule	HSPA Subcar-5	20.38	20.34	20.23	-21.80	-20.88	-20.83	-21.80



Reduced Power Mode for DSI7

GSM-R AT 0 DSI7 TX Channel	Burst Average Power (dBm)			Tx Power Level (dB)	Frame Average Power (dBm)			Tx Power Level (dB)
	195	196	197.5		195	196	197.5	
Frequency (MHz)	32.5	31.74	31.9	33.50	22.5	21.4	21.5	24.50
GRMS 1 Tx Mode	32.00	32.78	32.92	33.50	23.00	23.28	23.52	24.50
OPRS 1 Tx Mode	32.88	32.24	32.50	33.50	23.08	23.24	23.50	24.50
OPRS 2 Tx Mode	29.87	26.38	27.08	30	23.87	24.38	24.58	24.50
GRMS 3 Tx Mode	27.76	27.85	27.85	29.50	23.50	23.67	23.69	24.84
OPRS 4 Tx Mode	26.88	26.50	26.87	27.50	23.88	23.88	23.87	24.50
EDGE 1 Tx Mode	26.74	26.82	26.82	28.00	17.74	17.80	17.82	19.00
EDGE 2 Tx Mode	26.52	26.52	26.41	28.50	18.52	18.52	18.41	20.50
EDGE 3 Tx Mode	24.16	24.15	24.03	25.00	18.00	18.00	18.74	20.74
EDGE 4 Tx Mode	22.12	22.22	22.13	23.50	18.12	18.22	18.13	20.00

Burst	WCDMA V AT 0 DSI7			Tx Power Level (dB)	
	4150	4162	4283		
TX Channel	4387	4407	4485		
Frequency (MHz)	836.4	836.4	836.6	24.00	
ISPP Rate 1	RAM 12 Subcar	22.16	22.22	22.13	24.00
ISPP Rate 6	RAM 12 Subcar	22.28	22.52	22.18	24.00
ISPP Rate 0	HS-DSPA Subcar 1	21.25	21.31	21.23	23.00
ISPP Rate 8	HS-DSPA Subcar 2	21.34	21.26	21.16	23.00
ISPP Rate 8	HS-DSPA Subcar 3	20.78	20.72	20.74	22.50
ISPP Rate 8	HS-DSPA Subcar 4	20.16	20.21	20.22	22.50
ISPP Rate 8	DC-HSDPA Subcar 1	21.30	21.31	21.16	23.00
ISPP Rate 8	DC-HSDPA Subcar 2	21.26	21.37	21.19	23.00
ISPP Rate 8	DC-HSDPA Subcar 3	20.74	20.50	20.05	22.50
ISPP Rate 8	DC-HSDPA Subcar 4	20.79	20.78	20.69	22.50
ISPP Rate 8	HS-DSPA Subcar 1	21.27	21.26	21.14	23.00
ISPP Rate 8	HS-DSPA Subcar 2	19.22	19.20	19.16	21.00
ISPP Rate 8	HS-DSPA Subcar 3	20.32	20.31	20.13	22.00
ISPP Rate 8	HS-DSPA Subcar 4	19.25	19.28	19.20	21.00
ISPP Rate 8	HS-DSPA Subcar 5	21.33	21.30	21.19	23.00



GSM900 Airtel 1 DSST		Band Average Power (dBm)			E-UTRA Average Power (dBm)		
TX Channel	881	889	891	Line	888	896	891
Frequency (MHz)	144.2	144.4	144.6	(dBm)	144.2	144.4	144.6
OPRR 1 Tx.lev	30.34	30.51	30.48	31.80	21.34	21.51	21.48
OPRR 2 Tx.lev	27.23	27.52	27.38	28.60	21.23	21.52	21.38
OPRR 3 Tx.lev	24.85	24.95	24.98	27.92	21.95	21.92	22.14
OPRR 4 Tx.lev	24.53	24.93	24.73	25.62	21.53	21.85	21.73
EDGE 2 Tx.lev	26.12	26.13	26.12	27.60	19.12	19.12	18.60
EDGE 3 Tx.lev	25.01	25.01	24.94	26.00	19.01	19.03	18.94
EDGE 4 Tx.lev	21.46	21.46	21.54	24.50	19.14	19.20	20.24
EDGE 1 Tx.lev	21.48	21.72	21.69	22.50	18.48	18.72	18.69

GSM1900 Airtel 1 DSST		Band Average Power (dBm)			E-UTRA Average Power (dBm)		
TX Channel	812	881	810	Line	812	881	810
Frequency (MHz)	1880.0	1880	1880.8	(dBm)	1880.0	1880	1880.8
OPRR 1 Tx.lev	22.24	22.20	22.16	23.30	13.24	13.29	13.16
OPRR 2 Tx.lev	22.16	22.26	22.18	23.30	13.16	13.26	13.18
OPRR 3 Tx.lev	19.22	19.35	19.27	20.30	13.22	13.35	13.27
OPRR 4 Tx.lev	17.23	17.30	17.24	18.50	12.97	13.04	12.98
EDGE 2 Tx.lev	16.27	16.33	16.31	17.50	13.27	13.33	13.31
EDGE 1 Tx.lev	22.33	22.28	22.15	23.30	13.33	13.28	13.15
EDGE 3 Tx.lev	18.54	18.54	18.50	20.30	13.54	13.54	13.50
EDGE 4 Tx.lev	17.24	17.21	17.17	18.50	12.88	13.01	12.91
EDGE 1 Tx.lev	16.23	16.23	16.22	17.30	13.23	13.23	13.22

Band	WCDMA II Airtel 1 DSST			WCDMA IV Airtel 1 DSST			WCDMA V Airtel 1 DSST		
	TX Channel	865	866	868	Line	865	866	868	Line
Frequency (MHz)	1880.0	1880	1880.8	(dBm)	1880.0	1880	1880.8	(dBm)	1880.0
ISPP Ref.lev	11.75	11.80	11.76	12.60	13.10	13.15	13.07	14.30	20.03
ISPP Ref.lev	11.79	11.83	11.77	12.60	13.14	13.18	13.11	14.30	20.08
ISPP Ref.lev	10.14	10.86	10.76	11.60	12.10	12.20	12.14	13.30	19.02
ISPP Ref.lev	10.76	10.84	10.76	11.60	12.10	12.20	12.14	13.30	19.08
ISPP Ref.lev	10.26	10.33	10.27	11.10	11.80	11.80	11.60	12.80	18.60
ISPP Ref.lev	10.35	10.38	10.33	11.10	11.81	11.71	11.66	12.80	18.58
ISPP Ref.lev	10.52	10.58	10.52	11.80	12.17	12.13	12.10	13.30	19.11
ISPP Ref.lev	10.76	10.84	10.76	11.60	12.17	12.24	12.13	13.30	19.13
ISPP Ref.lev	10.23	10.20	10.28	11.10	11.81	11.70	11.60	12.80	18.58
ISPP Ref.lev	10.27	10.30	10.28	11.10	11.84	11.71	11.65	12.80	18.63
ISPP Ref.lev	10.73	10.80	10.82	11.60	12.09	12.14	12.07	13.30	19.13
ISPP Ref.lev	8.84	8.77	8.77	9.60	10.11	10.24	10.07	11.30	17.59
ISPP Ref.lev	9.80	9.70	9.77	10.60	11.11	11.22	11.10	12.30	18.07
ISPP Ref.lev	8.78	8.81	8.78	8.60	10.16	10.16	10.11	11.30	17.59
ISPP Ref.lev	10.79	10.84	10.79	11.60	12.14	12.22	12.14	13.30	19.07



GSM 1900 Ant 2 DSB7	Burst Average Power (dBm)			Turnup Limit (dBm)	Frame Average Power (dBm)			Turnup Limit (dBm)
	1899.2	1899	1900.8		1909.2	1900	1900.8	
Frequency (MHz)	1899.2	1899	1900.8	1909.2	1900	1900.8		
OPRS 1 Tx side	22.50	22.68	22.70	22.43	18.70	18.70	20.00	
OPRS 1 Rx side	22.64	22.67	22.71	22.43	18.64	18.67	20.40	
OPRS 2 Tx side	20.33	20.47	20.38	20.40	19.33	19.47	20.40	
OPRS 2 Rx side	20.30	20.42	20.34	20.40	19.09	19.26	20.34	
OPRS 4 Tx side	22.49	22.58	22.55	23.40	19.49	19.58	20.60	
EDGE 1 Tx side	24.87	24.81	24.85	26.00	19.87	19.88	18.00	
EDGE 2 Tx side	23.57	23.31	23.26	24.50	17.57	17.31	18.50	
EDGE 3 Tx side	21.86	21.8	21.86	22.50	17.60	17.50	18.04	
EDGE 4 Tx side	20.02	20.00	19.98	21.00	17.02	16.98	18.00	

Band	WCDMA II Ant 2 DSB7			Turnup Limit (dBm)	WCDMA IV Ant 2 DSB7			Turnup Limit (dBm)
	9482	9480	9538		1312	1413	1513	
TV Channel	9482	9480	9538	1312	1413	1513		
Frequency (MHz)	9482	9480	9538	1312	1413	1513		
SOPF Rule 1	18.50	18.62	18.58	17.82	18.11	18.1	18.40	
SOPF Rule 2	18.00	18.00	18.01	18.00	18.14	18.15	18.00	
SOPF Rule 3	18.00	18.03	18.03	18.00	17.99	17.92	18.00	
SOPF Rule 4	18.00	18.00	17.99	18.00	17.95	17.98	18.00	
SOPF Rule 5	17.50	17.51	17.48	18.50	18.82	18.71	17.70	
SOPF Rule 6	17.41	17.40	17.51	18.00	18.60	18.65	17.70	
SOPF Rule 7	18.02	18.03	17.99	18.00	17.95	17.94	18.40	
SOPF Rule 8	18.00	18.01	18.00	18.00	17.98	17.94	18.00	
SOPF Rule 9	17.54	17.55	17.50	18.50	18.80	18.87	17.70	
SOPF Rule 10	17.53	17.54	17.51	18.50	18.82	18.84	17.70	
SOPF Rule 11	18.01	18.00	18.04	19.00	17.92	17.90	18.00	
SOPF Rule 12	18.00	18.00	18.08	17.00	18.00	18.22	18.20	
SOPF Rule 13	18.00	17.99	18.00	18.00	18.14	18.17	18.00	
SOPF Rule 14	18.03	18.00	18.07	17.00	18.11	18.12	18.00	
SOPF Rule 15	17.50	17.50	18.01	19.00	17.98	17.94	18.20	



Band 7 Ant 10 DSI7

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Turn-up	APPR
				Low	High	High		
Channel				Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	(dBm)	(dB)
Frequency (MHz)				2510	2510	2510		
20	QPSK	1	0	16.98	17.02	16.95		
20	QPSK	1	49	16.91	16.96	16.84	18	0
20	QPSK	1	99	16.89	16.87	16.84		
20	QPSK	50	0	16.90	16.96	16.88		
20	QPSK	50	24	16.82	16.90	16.79	18	0
20	QPSK	50	50	16.83	16.83	16.80		
20	QPSK	100	0	16.91	16.92	16.84		
20	HQAM	1	0	16.89	16.91	16.83		
20	HQAM	1	49	16.76	16.72	16.77	18	0
20	HQAM	1	99	16.78	16.75	16.79		
20	HQAM	50	0	16.88	16.83	16.85		
20	HQAM	50	24	16.70	16.85	16.85	18	0
20	HQAM	50	50	16.75	16.78	16.76		
20	HQAM	100	0	16.78	16.86	16.81		
20	HQAM	1	0	16.92	16.95	16.83		
20	HQAM	1	49	16.73	16.76	16.71	18	0
20	HQAM	1	99	16.81	16.78	16.74		
20	HQAM	50	0	16.76	16.87	16.82		
20	HQAM	50	24	16.68	16.83	16.87	18	0
20	HQAM	50	50	16.72	16.77	16.75		
20	HQAM	100	0	16.83	16.86	16.77		
20	ZSSBAM	1	0	16.85	16.81	16.86		
20	ZSSBAM	1	49	16.73	16.77	16.79	18	0
20	ZSSBAM	1	99	16.79	16.81	16.75		
20	ZSSBAM	50	0	16.76	16.81	16.84		
20	ZSSBAM	50	24	16.71	16.78	16.73	18	0
20	ZSSBAM	50	50	16.72	16.74	16.73		
20	ZSSBAM	100	0	16.80	16.81	16.80		
Channel				2085	2100	2175	Turn-up	APPR
Frequency (MHz)				2085.5	2085	2085.5	(dBm)	(dB)
15	QPSK	1	0	16.94	16.94	16.92		
15	QPSK	1	37	16.73	16.80	16.72	18	0
15	QPSK	1	74	16.77	16.83	16.71		
15	QPSK	36	0	16.85	16.92	16.77		
15	QPSK	36	20	16.75	16.84	16.71	18	0
15	QPSK	36	36	16.78	16.78	16.68		
15	HQAM	1	0	16.88	16.77	16.81		
15	HQAM	1	37	16.68	16.87	16.74	18	0
15	HQAM	1	74	16.73	16.83	16.67		
15	HQAM	36	0	16.80	16.72	16.79		
15	HQAM	36	20	16.68	16.79	16.58	18	0
15	HQAM	36	36	16.72	16.66	16.52		
15	HQAM	75	0	16.70	16.79	16.71		
15	HQAM	1	0	16.84	16.81	16.78		
15	HQAM	1	37	16.66	16.62	16.74	18	0
15	HQAM	1	74	16.71	16.71	16.70		
15	HQAM	36	0	16.83	16.78	16.78		
15	HQAM	36	20	16.65	16.74	16.68	18	0
15	HQAM	36	36	16.59	16.65	16.64		
15	HQAM	75	0	16.73	16.81	16.64		
15	ZSSBAM	1	0	16.86	16.84	16.74		
15	ZSSBAM	1	37	16.58	16.64	16.65	18	0
15	ZSSBAM	1	74	16.70	16.71	16.69		
15	ZSSBAM	36	0	16.71	16.73	16.73		
15	ZSSBAM	36	20	16.63	16.63	16.64	18	0
15	ZSSBAM	36	36	16.68	16.68	16.61		
15	ZSSBAM	75	0	16.68	16.70	16.70		
Channel				2080	2100	2140	Turn-up	APPR
Frequency (MHz)				2080	2085	2085	(dBm)	(dB)
10	QPSK	1	0	16.87	16.86	16.87		
10	QPSK	1	25	16.75	16.75	16.73	18	0
10	QPSK	1	49	16.86	16.80	16.81		
10	QPSK	25	0	16.87	16.89	16.77		
10	QPSK	25	12	16.73	16.85	16.67	18	0
10	QPSK	25	25	16.76	16.78	16.66		
10	QPSK	50	0	16.82	16.81	16.78		
10	HQAM	1	0	16.79	16.86	16.68		
10	HQAM	1	25	16.71	16.61	16.72	18	0
10	HQAM	1	49	16.68	16.70	16.70		
10	HQAM	25	0	16.75	16.76	16.72		
10	HQAM	25	12	16.68	16.73	16.67	18	0
10	HQAM	25	25	16.63	16.71	16.71		
10	HQAM	50	0	16.85	16.78	16.74		
10	HQAM	1	0	16.87	16.88	16.78		
10	HQAM	1	25	16.65	16.70	16.73	18	0
10	HQAM	1	49	16.73	16.61	16.70		
10	HQAM	25	0	16.65	16.75	16.74		
10	HQAM	25	12	16.63	16.78	16.64	18	0
10	HQAM	25	25	16.59	16.71	16.67		
10	HQAM	50	0	16.75	16.80	16.64		
10	ZSSBAM	1	0	16.80	16.82	16.70		
10	ZSSBAM	1	25	16.70	16.68	16.72	18	0
10	ZSSBAM	1	49	16.73	16.71	16.72		
10	ZSSBAM	25	0	16.69	16.70	16.73		
10	ZSSBAM	25	12	16.68	16.72	16.70	18	0
10	ZSSBAM	25	25	16.64	16.63	16.62		
10	ZSSBAM	50	0	16.68	16.72	16.75		
Channel				2077.5	2100	2142.5	Turn-up	APPR
Frequency (MHz)				2077.5	2085	2087.5	(dBm)	(dB)
5	QPSK	1	0	16.92	16.88	16.81		
5	QPSK	1	12	16.67	16.79	16.79	18	0
5	QPSK	1	24	16.79	16.79	16.75		
5	QPSK	12	0	16.76	16.93	16.80		
5	QPSK	12	7	16.77	16.76	16.75	18	0
5	QPSK	12	13	16.74	16.79	16.73		
5	QPSK	25	0	16.87	16.87	16.73		
5	HQAM	1	0	16.74	16.77	16.78		
5	HQAM	1	12	16.64	16.69	16.71	18	0
5	HQAM	1	24	16.63	16.61	16.66		
5	HQAM	12	0	16.79	16.73	16.79		
5	HQAM	12	7	16.68	16.71	16.68	18	0
5	HQAM	12	13	16.68	16.74	16.60		
5	HQAM	25	0	16.65	16.73	16.70		
5	HQAM	1	0	16.77	16.87	16.72		
5	HQAM	1	12	16.59	16.64	16.72	18	0
5	HQAM	1	24	16.74	16.73	16.69		
5	HQAM	12	0	16.72	16.78	16.70		
5	HQAM	12	7	16.67	16.72	16.67	18	0
5	HQAM	12	13	16.68	16.74	16.58		
5	HQAM	25	0	16.80	16.78	16.64		
5	ZSSBAM	1	0	16.85	16.77	16.78		
5	ZSSBAM	1	12	16.60	16.73	16.64	18	0
5	ZSSBAM	1	24	16.76	16.67	16.70		
5	ZSSBAM	12	0	16.64	16.76	16.76		
5	ZSSBAM	12	7	16.67	16.70	16.62	18	0
5	ZSSBAM	12	13	16.65	16.68	16.66		
5	ZSSBAM	25	0	16.68	16.71	16.70		



Downlink CA Power

CA List		PCC											SCC				Power	
		LTE	BW	BW	UL	UL	ULF		DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	W/B-CA	Without CA		
		Band	Ant.	(MHz)	Freq. (MHz)	Channel	Mod.	RB		Offset	Band	(MHz)	Freq. (MHz)		Channel	Tx. Power (dBm)	Tx. Power (dBm)	
CA_2C		Band 2	Ant 2	20M	1880	1890	QPSK	1	0	4xMIMO	Band 2	20M	1979.8	1098	4xMIMO	22.54	22.63	
CA_38A		Band 38	Ant 0	20M	2580	2780	QPSK	1	0	4xMIMO	Band 66	20M	2155	6986	4xMIMO	21.24	21.38	
CA_38A-66A		Band 38	Ant 1	20M	2580	2780	QPSK	1	0	4xMIMO	Band 66	20M	2155	6986	4xMIMO	21.51	21.58	
CA_38C		Band 38	Ant 0	20M	2580	2780	QPSK	1	0	4xMIMO	Band 38	20M	2599.8	38048	4xMIMO	21.30	21.38	
CA_38C		Band 38	Ant 1	20M	2580	2780	QPSK	1	0	4xMIMO	Band 38	20M	2599.8	38048	4xMIMO	21.50	21.58	
CA_41A-42A		Band 41	Ant 0	20M	2993	40620	QPSK	1	0	4xMIMO	Band 42	20M	3500	42590	4xMIMO	21.40	21.52	
CA_41A-42A		Band 41	Ant 1	20M	2993	40620	QPSK	1	0	4xMIMO	Band 42	20M	3500	42590	4xMIMO	21.67	21.66	
CA_41A-42A		Band 41	Ant 2	20M	2993	40620	QPSK	1	0	4xMIMO	Band 42	20M	3500	42590	4xMIMO	22.31	22.41	
CA_49A-42A		Band 42	Ant 7	20M	3500	42590	QPSK	1	0	4xMIMO	Band 41	20M	2593	40620	4xMIMO	22.72	22.80	
CA_5A-38A		Band 5	Ant 0	10M	836.5	20525	QPSK	1	0	4xMIMO	Band 38	20M	2599.8	38048	4xMIMO	22.65	22.70	
CA_5A-38A		Band 38	Ant 0	20M	2580	2780	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525		21.26	21.38	
CA_5A-38A		Band 38	Ant 1	20M	2580	2780	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525		21.42	21.58	
CA_5A-38A		Band 38	Ant 2	20M	2580	2780	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525		22.19	22.24	
CA_5A-38A		Band 38	Ant 10	20M	2580	2780	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525		22.58	22.68	
CA_5A-41A		Band 5	Ant 0	10M	836.5	20525	QPSK	1	0	4xMIMO	Band 41	20M	2593	40620	4xMIMO	22.81	22.75	
CA_5A-41A		Band 41	Ant 0	20M	2993	40620	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525		22.56	22.70	
CA_5A-41A		Band 41	Ant 1	20M	2993	40620	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525		21.38	21.52	
CA_5A-41A		Band 41	Ant 2	20M	2993	40620	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525		21.54	21.66	
CA_5A-41A		Band 41	Ant 10	20M	2993	40620	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525		22.31	22.41	
CA_66B		Band 66	Ant 2	15M	1745	13232	QPSK	1	0	4xMIMO	Band 66	5M	2154.3	69879	4xMIMO	22.49	22.59	
CA_7B		Band 7	Ant 0	15M	2535	21100	QPSK	1	0	4xMIMO	Band 7	5M	2544.3	3193	4xMIMO	20.78	20.86	
CA_7B		Band 7	Ant 1	15M	2535	21100	QPSK	1	0	4xMIMO	Band 7	5M	2544.3	3193	4xMIMO	21.98	21.11	
CA_7B		Band 7	Ant 2	15M	2535	21100	QPSK	1	0	4xMIMO	Band 7	5M	2544.3	3193	4xMIMO	22.61	22.67	
CA_7B		Band 7	Ant 10	15M	2535	21100	QPSK	1	0	4xMIMO	Band 7	5M	2544.3	3193	4xMIMO	22.78	22.80	
CA_7A-42A		Band 7	Ant 0	20M	2535	21100	QPSK	1	0	4xMIMO	Band 42	20M	3500	42590	4xMIMO	20.81	20.94	
CA_7A-42A		Band 7	Ant 1	20M	2535	21100	QPSK	1	0	4xMIMO	Band 42	20M	3500	42590	4xMIMO	21.02	21.15	
CA_7A-42A		Band 7	Ant 2	20M	2535	21100	QPSK	1	0	4xMIMO	Band 42	20M	3500	42590	4xMIMO	22.67	22.80	
CA_7A-42A		Band 7	Ant 10	20M	2535	21100	QPSK	1	0	4xMIMO	Band 42	20M	3500	42590	4xMIMO	22.87	21.56	
CA_7A-26A		Band 7	Ant 0	20M	2535	21100	QPSK	1	0	4xMIMO	Band 26	15M	8865	876.5		20.78	20.94	
CA_7A-26A		Band 7	Ant 1	20M	2535	21100	QPSK	1	0	4xMIMO	Band 26	15M	8865	876.5		21.07	21.15	
CA_7A-26A		Band 7	Ant 2	20M	2535	21100	QPSK	1	0	4xMIMO	Band 26	15M	8865	876.5		22.68	22.80	
CA_7A-26A		Band 7	Ant 10	20M	2535	21100	QPSK	1	0	4xMIMO	Band 26	15M	8865	876.5		22.81	22.95	
CA_7A-26A		Band 26	Ant 0	15M	831.5	26865	QPSK	1	0		Band 7	20M	2655	3100	4xMIMO	22.69	22.82	
CA_7A-26A		Band 26	Ant 1	15M	831.5	26865	QPSK	1	0		Band 7	20M	2655	3100	4xMIMO	22.76	22.77	



5CA DL

Configure	PCC					SCC1					SCC2					SCC3					SCC4					Power												
	LTE	BW	BW	UL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	Tx Power (dBm)	Tx Power (dBm)										
	Band	Ant	(MHz)	Freq (MHz)	Channel		Band	(MHz)	Freq (MHz)	Channel		Band	(MHz)	Freq (MHz)	Channel		Band	(MHz)	Freq (MHz)	Channel		Band	(MHz)	Freq (MHz)	Channel				Band	(MHz)	Freq (MHz)	Channel						
	Band 5	Ant 0	10M	836.5	2525	4x4MIMO	Band 7	20M	2555	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	10M	2115	66486	4x4MIMO	Band 66	20M	1770	67036	4x4MIMO	Band 66	20M	2554.8	3298	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO		
CA_5A-7C-66A-66A	Band 5	Ant 1	10M	836.5	2525	4x4MIMO	Band 7	20M	2554.8	3298 <td>4x4MIMO</td> <td>Band 66</td> <td>10M</td> <td>2115</td> <td>66486</td> <td>4x4MIMO</td> <td>Band 66</td> <td>20M</td> <td>1770</td> <td>67036</td> <td>4x4MIMO</td> <td>Band 5</td> <td>10M</td> <td>881.5</td> <td>2525</td> <td>4x4MIMO</td> <td>Band 66</td> <td>20M</td> <td>2554.8</td> <td>3298</td> <td>4x4MIMO</td> <td>Band 7</td> <td>20M</td> <td>2554.8</td> <td>3298</td> <td>4x4MIMO</td> <td>22.06</td> <td>22.75</td>	4x4MIMO	Band 66	10M	2115	66486	4x4MIMO	Band 66	20M	1770	67036	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 66	20M	2554.8	3298	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.06	22.75
	Band 7	Ant 0	20M	2535	21100	4x4MIMO	Band 7	20M	2554.8	3298 <td>4x4MIMO</td> <td>Band 66</td> <td>10M</td> <td>2115</td> <td>66486</td> <td>4x4MIMO</td> <td>Band 66</td> <td>20M</td> <td>1770</td> <td>67036</td> <td>4x4MIMO</td> <td>Band 5</td> <td>10M</td> <td>881.5</td> <td>2525</td> <td>4x4MIMO</td> <td>Band 66</td> <td>20M</td> <td>2554.8</td> <td>3298</td> <td>4x4MIMO</td> <td>Band 7</td> <td>20M</td> <td>2554.8</td> <td>3298</td> <td>4x4MIMO</td> <td>22.06</td> <td>22.75</td>	4x4MIMO	Band 66	10M	2115	66486	4x4MIMO	Band 66	20M	1770	67036	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 66	20M	2554.8	3298	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.06	22.75
	Band 7	Ant 1	20M	2535	21100	4x4MIMO	Band 7	20M	2554.8	3298 <td>4x4MIMO</td> <td>Band 66</td> <td>10M</td> <td>2115</td> <td>66486</td> <td>4x4MIMO</td> <td>Band 66</td> <td>20M</td> <td>1770</td> <td>67036</td> <td>4x4MIMO</td> <td>Band 5</td> <td>10M</td> <td>881.5</td> <td>2525</td> <td>4x4MIMO</td> <td>Band 66</td> <td>20M</td> <td>2554.8</td> <td>3298</td> <td>4x4MIMO</td> <td>Band 7</td> <td>20M</td> <td>2554.8</td> <td>3298</td> <td>4x4MIMO</td> <td>22.06</td> <td>22.75</td>	4x4MIMO	Band 66	10M	2115	66486	4x4MIMO	Band 66	20M	1770	67036	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 66	20M	2554.8	3298	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.06	22.75
	Band 7	Ant 2	20M	2535	21100	4x4MIMO	Band 7	20M	2554.8	3298 <td>4x4MIMO</td> <td>Band 66</td> <td>10M</td> <td>2115</td> <td>66486</td> <td>4x4MIMO</td> <td>Band 66</td> <td>20M</td> <td>1770</td> <td>67036</td> <td>4x4MIMO</td> <td>Band 5</td> <td>10M</td> <td>881.5</td> <td>2525</td> <td>4x4MIMO</td> <td>Band 66</td> <td>20M</td> <td>2554.8</td> <td>3298</td> <td>4x4MIMO</td> <td>Band 7</td> <td>20M</td> <td>2554.8</td> <td>3298</td> <td>4x4MIMO</td> <td>22.06</td> <td>22.75</td>	4x4MIMO	Band 66	10M	2115	66486	4x4MIMO	Band 66	20M	1770	67036	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 66	20M	2554.8	3298	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.06	22.75
	Band 7	Ant 10	20M	2535	21100	4x4MIMO	Band 7	20M	2554.8	3298 <td>4x4MIMO</td> <td>Band 66</td> <td>10M</td> <td>2115</td> <td>66486</td> <td>4x4MIMO</td> <td>Band 66</td> <td>20M</td> <td>1770</td> <td>67036</td> <td>4x4MIMO</td> <td>Band 5</td> <td>10M</td> <td>881.5</td> <td>2525</td> <td>4x4MIMO</td> <td>Band 66</td> <td>20M</td> <td>2554.8</td> <td>3298</td> <td>4x4MIMO</td> <td>Band 7</td> <td>20M</td> <td>2554.8</td> <td>3298</td> <td>4x4MIMO</td> <td>22.06</td> <td>22.75</td>	4x4MIMO	Band 66	10M	2115	66486	4x4MIMO	Band 66	20M	1770	67036	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 66	20M	2554.8	3298	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.06	22.75
CA_41C-41D	Band 66	Ant 2	10M	1715	13232	4x4MIMO	Band 66	20M	1770	67036	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	20M	2554.8	3298	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.06	22.75
	Band 66	Ant 1	10M	1715	13232	4x4MIMO	Band 66	20M	1770	67036	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	20M	2554.8	3298	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.06	22.75
	Band 41	Ant 0	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2596	39750	4x4MIMO	Band 41	20M	2525.8	39948	4x4MIMO	Band 41	20M	2545.6	40146	4x4MIMO	Band 41	20M	2545.6	40146	4x4MIMO	Band 41	20M	2545.6	40146	4x4MIMO	21.45	21.52
	Band 41	Ant 1	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2596	39750	4x4MIMO	Band 41	20M	2525.8	39948	4x4MIMO	Band 41	20M	2545.6	40146	4x4MIMO	Band 41	20M	2545.6	40146	4x4MIMO	Band 41	20M	2545.6	40146	4x4MIMO	21.67	21.66
	Band 41	Ant 10	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2596	39750	4x4MIMO	Band 41	20M	2525.8	39948	4x4MIMO	Band 41	20M	2545.6	40146	4x4MIMO	Band 41	20M	2545.6	40146	4x4MIMO	Band 41	20M	2545.6	40146	4x4MIMO	22.38	22.81
CA_2A-2A-5A-66A-66A	Band 2	Ant 2	20M	1880	18900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	1770	67036	4x4MIMO	Band 66	20M	2554.8	3298	4x4MIMO	Band 66	20M	2554.8	3298	4x4MIMO	22.06	22.63
	Band 5	Ant 0	10M	836.5	2525	4x4MIMO	Band 2	20M	1980	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 66	20M	2554.8	3298	4x4MIMO	Band 66	20M	2554.8	3298	4x4MIMO	22.06	22.75
	Band 66	Ant 2	20M	1745	13232	4x4MIMO	Band 2	20M	1980	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 66	20M	2554.8	3298	4x4MIMO	Band 66	20M	2554.8	3298	4x4MIMO	22.06	22.64
	Band 2	Ant 1	20M	1880	18900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	1770	67036	4x4MIMO	Band 66	20M	2554.8	3298	4x4MIMO	Band 66	20M	2554.8	3298	4x4MIMO	21.11	21.15
	Band 5	Ant 1	10M	836.5	2525	4x4MIMO	Band 2	20M	1980	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 66	20M	2554.8	3298	4x4MIMO	Band 66	20M	2554.8	3298	4x4MIMO	22.06	22.7
CA_41F	Band 66	Ant 1	20M	1745	13232	4x4MIMO	Band 2	20M	1980	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 66	20M	2554.8	3298	4x4MIMO	Band 66	20M	2554.8	3298	4x4MIMO	21.41	21.52
	Band 41	Ant 0	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO	Band 41	20M	2652.4	41214	4x4MIMO	Band 41	20M	2672.2	41412	4x4MIMO	Band 41	20M	2672.2	41412	4x4MIMO	Band 41	20M	2672.2	41412	4x4MIMO	21.52	21.66
	Band 41	Ant 1	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO	Band 41	20M	2652.4	41214	4x4MIMO	Band 41	20M	2672.2	41412	4x4MIMO	Band 41	20M	2672.2	41412	4x4MIMO	Band 41	20M	2672.2	41412	4x4MIMO	22.32	22.41
	Band 41	Ant 2	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO	Band 41	20M	2652.4	41214	4x4MIMO	Band 41	20M	2672.2	41412	4x4MIMO	Band 41	20M	2672.2	41412	4x4MIMO	Band 41	20M	2672.2	41412	4x4MIMO	22.32	22.41
	Band 41	Ant 10	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO	Band 41	20M	2652.4	41214	4x4MIMO	Band 41	20M	2672.2	41412	4x4MIMO	Band 41	20M	2672.2	41412	4x4MIMO	Band 41	20M	2672.2	41412	4x4MIMO	22.09	22.81



UL CA power

CA_66B Ant 2								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	22.26	24.00
132322	132415	QPSK	1	74	1	0	22.34	24.00
132597	132504	QPSK	1	0	1	24	22.25	24.00

CA_7C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	22.63	24.00
21100	21298	QPSK	1	99	1	0	22.66	24.00
21350	21152	QPSK	1	0	1	99	22.62	24.00

CA_66B Ant 1								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	21.02	22.50
132322	132415	QPSK	1	74	1	0	21.06	22.50
132597	132504	QPSK	1	0	1	24	21.04	22.50

CA_7C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	21.01	22.50
21100	21298	QPSK	1	99	1	0	21.09	22.50
21350	21152	QPSK	1	0	1	99	20.98	22.50

CA_7C Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	22.72	24.00
21100	21298	QPSK	1	99	1	0	22.81	24.00
21350	21152	QPSK	1	0	1	99	22.76	24.00

CA_7C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	20.79	22.50
21100	21298	QPSK	1	99	1	0	20.85	22.50
21350	21152	QPSK	1	0	1	99	20.76	22.50



CA_38C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	22.07	23.50
37901	38099	QPSK	1	99	1	0	22.18	23.50
38150	37952	QPSK	1	0	1	99	22.11	23.50

CA_38C HPUE Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	25.11	26.50
37901	38099	QPSK	1	99	1	0	25.16	26.50
38150	37952	QPSK	1	0	1	99	25.14	26.50

CA_38C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	21.47	23.00
37901	38099	QPSK	1	99	1	0	21.5	23.00
38150	37952	QPSK	1	0	1	99	21.48	23.00

CA_38C HPUE Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	24.46	26.00
37901	38099	QPSK	1	99	1	0	22.42	26.00
38150	37952	QPSK	1	0	1	99	24.44	26.00

CA_38C Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	22.52	24.00
37901	38099	QPSK	1	99	1	0	22.61	24.00
38150	37952	QPSK	1	0	1	99	22.58	24.00

CA_38C HPUE Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	25.54	27.00
37901	38099	QPSK	1	99	1	0	25.66	27.00
38150	37952	QPSK	1	0	1	99	25.59	27.00

CA_38C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	21.29	23.00
37901	38099	QPSK	1	99	1	0	21.34	23.00
38150	37952	QPSK	1	0	1	99	21.25	23.00

CA_38C HPUE Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	24.26	26.00
37901	38099	QPSK	1	99	1	0	24.29	26.00
38150	37952	QPSK	1	0	1	99	24.21	26.00



CA_41C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.22	23.50
40185	40383	QPSK	1	99	1	0	22.16	23.50
40620	40818	QPSK	1	99	1	0	22.31	23.50
41055	41253	QPSK	1	99	1	0	22.19	23.50
41490	41292	QPSK	1	0	1	99	22.13	23.50

CA_41C HPUE Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	25.17	26.50
40185	40383	QPSK	1	99	1	0	25.20	26.50
40620	40818	QPSK	1	99	1	0	25.33	26.50
41055	41253	QPSK	1	99	1	0	25.29	26.50
41490	41292	QPSK	1	0	1	99	25.15	26.50

CA_41C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	21.35	23.00
40185	40383	QPSK	1	99	1	0	21.42	23.00
40620	40818	QPSK	1	99	1	0	21.56	23.00
41055	41253	QPSK	1	99	1	0	21.52	23.00
41490	41292	QPSK	1	0	1	99	21.47	23.00

CA_41C HPUE Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	24.31	26.00
40185	40383	QPSK	1	99	1	0	24.43	26.00
40620	40818	QPSK	1	99	1	0	24.47	26.00
41055	41253	QPSK	1	99	1	0	24.43	26.00
41490	41292	QPSK	1	0	1	99	24.45	26.00

CA_41C Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.49	24.00
40185	40383	QPSK	1	99	1	0	22.56	24.00
40620	40818	QPSK	1	99	1	0	22.63	24.00
41055	41253	QPSK	1	99	1	0	22.52	24.00
41490	41292	QPSK	1	0	1	99	22.54	24.00

CA_41C HPUE Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	25.56	27.00
40185	40383	QPSK	1	99	1	0	25.64	27.00
40620	40818	QPSK	1	99	1	0	25.66	27.00
41055	41253	QPSK	1	99	1	0	25.59	27.00
41490	41292	QPSK	1	0	1	99	25.53	27.00

CA_41C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	21.33	23.00
40185	40383	QPSK	1	99	1	0	21.36	23.00
40620	40818	QPSK	1	99	1	0	21.41	23.00
41055	41253	QPSK	1	99	1	0	21.35	23.00
41490	41292	QPSK	1	0	1	99	21.31	23.00

CA_41C HPUE Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	24.31	26.00
40185	40383	QPSK	1	99	1	0	24.39	26.00
40620	40818	QPSK	1	99	1	0	24.42	26.00
41055	41253	QPSK	1	99	1	0	24.32	26.00
41490	41292	QPSK	1	0	1	99	24.29	26.00



CA_42C Ant 7								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	22.54	24.00
42590	42788	QPSK	1	99	1	0	22.69	24.00
42990	42792	QPSK	1	0	1	99	22.51	24.00



CA_66B Ant 2								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	22.26	24.00
132322	132415	QPSK	1	74	1	0	22.34	24.00
132597	132504	QPSK	1	0	1	24	22.25	24.00

CA_7C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	22.63	24.00
21100	21298	QPSK	1	99	1	0	22.66	24.00
21350	21152	QPSK	1	0	1	99	22.62	24.00

CA_66B Ant 1								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	14.85	16.30
132322	132415	QPSK	1	74	1	0	14.97	16.30
132597	132504	QPSK	1	0	1	24	14.90	16.30

CA_7C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	12.65	13.70
21100	21298	QPSK	1	99	1	0	12.70	13.70
21350	21152	QPSK	1	0	1	99	12.67	13.70

CA_7C Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	21.42	22.90
21100	21298	QPSK	1	99	1	0	21.46	22.90
21350	21152	QPSK	1	0	1	99	21.41	22.90

CA_7C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	20.79	22.50
21100	21298	QPSK	1	99	1	0	20.85	22.50
21350	21152	QPSK	1	0	1	99	20.76	22.50



CA_38C Ant 2										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	99	1	0	22.07	23.50		
37901	38099	QPSK	1	99	1	0	22.18	23.50		
38150	37952	QPSK	1	0	1	99	22.11	23.50		

CA_38C HPUE Ant 2										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	99	1	0	25.11	26.50		
37901	38099	QPSK	1	99	1	0	25.16	26.50		
38150	37952	QPSK	1	0	1	99	25.14	26.50		

CA_38C Ant 1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	99	1	0	14.49	15.80		
37901	38099	QPSK	1	99	1	0	14.63	15.80		
38150	37952	QPSK	1	0	1	99	14.57	15.80		

CA_38C HPUE Ant 1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	99	1	0	16.30	17.40		
37901	38099	QPSK	1	99	1	0	16.48	17.40		
38150	37952	QPSK	1	0	1	99	16.41	17.40		

CA_38C Ant 10										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	99	1	0	21.89	23.30		
37901	38099	QPSK	1	99	1	0	22.06	23.30		
38150	37952	QPSK	1	0	1	99	21.98	23.30		

CA_38C HPUE Ant 10										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	99	1	0	23.59	24.90		
37901	38099	QPSK	1	99	1	0	23.65	24.90		
38150	37952	QPSK	1	0	1	99	23.54	24.90		

CA_38C Ant 0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	99	1	0	21.29	23.00		
37901	38099	QPSK	1	99	1	0	21.34	23.00		
38150	37952	QPSK	1	0	1	99	21.25	23.00		

CA_38C HPUE Ant 0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	99	1	0	24.26	26.00		
37901	38099	QPSK	1	99	1	0	24.29	26.00		
38150	37952	QPSK	1	0	1	99	24.21	26.00		



CA_41C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.22	23.50
40185	40383	QPSK	1	99	1	0	22.16	23.50
40620	40818	QPSK	1	99	1	0	22.31	23.50
41055	41253	QPSK	1	99	1	0	22.19	23.50
41490	41292	QPSK	1	0	1	99	22.13	23.50

CA_41C HPUE Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	25.17	26.50
40185	40383	QPSK	1	99	1	0	25.20	26.50
40620	40818	QPSK	1	99	1	0	25.33	26.50
41055	41253	QPSK	1	99	1	0	25.29	26.50
41490	41292	QPSK	1	0	1	99	25.15	26.50

CA_41C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	14.66	15.80
40185	40383	QPSK	1	99	1	0	14.66	15.80
40620	40818	QPSK	1	99	1	0	14.68	15.80
41055	41253	QPSK	1	99	1	0	14.64	15.80
41490	41292	QPSK	1	0	1	99	14.63	15.80

CA_41C HPUE Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	16.46	17.40
40185	40383	QPSK	1	99	1	0	16.42	17.40
40620	40818	QPSK	1	99	1	0	16.53	17.40
41055	41253	QPSK	1	99	1	0	16.44	17.40
41490	41292	QPSK	1	0	1	99	16.47	17.40

CA_41C Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	21.99	23.30
40185	40383	QPSK	1	99	1	0	22.07	23.30
40620	40818	QPSK	1	99	1	0	22.12	23.30
41055	41253	QPSK	1	99	1	0	22.04	23.30
41490	41292	QPSK	1	0	1	99	22.09	23.30

CA_41C HPUE Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	23.58	24.90
40185	40383	QPSK	1	99	1	0	23.66	24.90
40620	40818	QPSK	1	99	1	0	23.67	24.90
41055	41253	QPSK	1	99	1	0	23.64	24.90
41490	41292	QPSK	1	0	1	99	23.63	24.90

CA_41C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	21.33	23.00
40185	40383	QPSK	1	99	1	0	21.36	23.00
40620	40818	QPSK	1	99	1	0	21.41	23.00
41055	41253	QPSK	1	99	1	0	21.35	23.00
41490	41292	QPSK	1	0	1	99	21.31	23.00

CA_41C HPUE Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	24.31	26.00
40185	40383	QPSK	1	99	1	0	24.39	26.00
40620	40818	QPSK	1	99	1	0	24.42	26.00
41055	41253	QPSK	1	99	1	0	24.32	26.00
41490	41292	QPSK	1	0	1	99	24.29	26.00



CA_42C Ant 7								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	18.12	19.20
42590	42788	QPSK	1	99	1	0	18.15	19.20
42990	42792	QPSK	1	0	1	99	18.17	19.20



CA_66B Ant 2								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	19.57	21.00
132322	132415	QPSK	1	74	1	0	19.65	21.00
132597	132504	QPSK	1	0	1	24	19.58	21.00

CA_7C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	20.94	22.10
21100	21298	QPSK	1	99	1	0	20.97	22.10
21350	21152	QPSK	1	0	1	99	20.90	22.10

CA_66B Ant 1								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	14.61	15.70
132322	132415	QPSK	1	74	1	0	14.66	15.70
132597	132504	QPSK	1	0	1	24	14.64	15.70

CA_7C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	16.05	17.10
21100	21298	QPSK	1	99	1	0	16.09	17.10
21350	21152	QPSK	1	0	1	99	16.00	17.10

CA_7C Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	18.42	19.60
21100	21298	QPSK	1	99	1	0	18.44	19.60
21350	21152	QPSK	1	0	1	99	18.38	19.60

CA_7C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	20.79	22.50
21100	21298	QPSK	1	99	1	0	20.85	22.50
21350	21152	QPSK	1	0	1	99	20.76	22.50



CA_38C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	22.07	23.50
37901	38099	QPSK	1	99	1	0	22.18	23.50
38150	37952	QPSK	1	0	1	99	22.11	23.50

CA_38C HPUE Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	23.67	25.10
37901	38099	QPSK	1	99	1	0	23.71	25.10
38150	37952	QPSK	1	0	1	99	23.59	25.10

CA_38C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	17.01	18.40
37901	38099	QPSK	1	99	1	0	17.12	18.40
38150	37952	QPSK	1	0	1	99	16.99	18.40

CA_38C HPUE Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	18.77	20.00
37901	38099	QPSK	1	99	1	0	18.85	20.00
38150	37952	QPSK	1	0	1	99	18.73	20.00

CA_38C Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	20.52	22.00
37901	38099	QPSK	1	99	1	0	20.55	22.00
38150	37952	QPSK	1	0	1	99	20.39	22.00

CA_38C HPUE Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	22.22	23.60
37901	38099	QPSK	1	99	1	0	22.24	23.60
38150	37952	QPSK	1	0	1	99	22.16	23.60

CA_38C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	21.62	22.80
37901	38099	QPSK	1	99	1	0	21.67	22.80
38150	37952	QPSK	1	0	1	99	21.59	22.80

CA_38C HPUE Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	23.33	24.40
37901	38099	QPSK	1	99	1	0	23.41	24.40
38150	37952	QPSK	1	0	1	99	23.23	24.40



CA_41C Ant 2										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	22.22	23.50		
40185	40383	QPSK	1	99	1	0	22.16	23.50		
40620	40818	QPSK	1	99	1	0	22.31	23.50		
41055	41253	QPSK	1	99	1	0	22.19	23.50		
41490	41292	QPSK	1	0	1	99	22.13	23.50		

CA_41C HPUE Ant 2										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	23.74	25.10		
40185	40383	QPSK	1	99	1	0	23.67	25.10		
40620	40818	QPSK	1	99	1	0	23.79	25.10		
41055	41253	QPSK	1	99	1	0	23.78	25.10		
41490	41292	QPSK	1	0	1	99	23.63	25.10		

CA_41C Ant 1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	17.11	18.40		
40185	40383	QPSK	1	99	1	0	17.14	18.40		
40620	40818	QPSK	1	99	1	0	17.16	18.40		
41055	41253	QPSK	1	99	1	0	17.14	18.40		
41490	41292	QPSK	1	0	1	99	17.04	18.40		

CA_41C HPUE Ant 1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	18.82	20.00		
40185	40383	QPSK	1	99	1	0	18.77	20.00		
40620	40818	QPSK	1	99	1	0	18.93	20.00		
41055	41253	QPSK	1	99	1	0	18.86	20.00		
41490	41292	QPSK	1	0	1	99	18.83	20.00		

CA_41C Ant 10										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	20.54	22.00		
40185	40383	QPSK	1	99	1	0	20.56	22.00		
40620	40818	QPSK	1	99	1	0	20.61	22.00		
41055	41253	QPSK	1	99	1	0	20.49	22.00		
41490	41292	QPSK	1	0	1	99	20.51	22.00		

CA_41C HPUE Ant 10										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	22.33	23.60		
40185	40383	QPSK	1	99	1	0	22.29	23.60		
40620	40818	QPSK	1	99	1	0	22.36	23.60		
41055	41253	QPSK	1	99	1	0	22.35	23.60		
41490	41292	QPSK	1	0	1	99	22.19	23.60		

CA_41C Ant 0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	21.56	22.80		
40185	40383	QPSK	1	99	1	0	21.64	22.80		
40620	40818	QPSK	1	99	1	0	21.69	22.80		
41055	41253	QPSK	1	99	1	0	21.65	22.80		
41490	41292	QPSK	1	0	1	99	21.62	22.80		

CA_41C HPUE Ant 0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	23.25	24.40		
40185	40383	QPSK	1	99	1	0	23.34	24.40		
40620	40818	QPSK	1	99	1	0	23.42	24.40		
41055	41253	QPSK	1	99	1	0	23.27	24.40		
41490	41292	QPSK	1	0	1	99	23.33	24.40		



CA_42C Ant 7								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	19.48	20.40
42590	42788	QPSK	1	99	1	0	19.50	20.40
42990	42792	QPSK	1	0	1	99	19.45	20.40



CA_66B Ant 2								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	18.63	19.90
132322	132415	QPSK	1	74	1	0	18.68	19.90
132597	132504	QPSK	1	0	1	24	18.58	19.90

CA_7C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	19.01	20.40
21100	21298	QPSK	1	99	1	0	19.07	20.40
21350	21152	QPSK	1	0	1	99	18.99	20.40

CA_66B Ant 1								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	12.11	13.90
132322	132415	QPSK	1	74	1	0	12.16	13.90
132597	132504	QPSK	1	0	1	24	12.08	13.90

CA_7C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	12.14	13.20
21100	21298	QPSK	1	99	1	0	12.16	13.20
21350	21152	QPSK	1	0	1	99	12.08	13.20

CA_7C Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	16.86	18.00
21100	21298	QPSK	1	99	1	0	16.95	18.00
21350	21152	QPSK	1	0	1	99	16.81	18.00

CA_7C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	20.83	21.90
21100	21298	QPSK	1	99	1	0	20.88	21.90
21350	21152	QPSK	1	0	1	99	20.79	21.90



CA_38C Ant 2										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	99	1	0	21.08	22.50		
37901	38099	QPSK	1	99	1	0	21.16	22.50		
38150	37952	QPSK	1	0	1	99	21.07	22.50		

CA_38C HPUE Ant 2										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	99	1	0	22.67	24.10		
37901	38099	QPSK	1	99	1	0	22.72	24.10		
38150	37952	QPSK	1	0	1	99	22.65	24.10		

CA_38C Ant 1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	99	1	0	12.57	13.90		
37901	38099	QPSK	1	99	1	0	12.66	13.90		
38150	37952	QPSK	1	0	1	99	12.49	13.90		

CA_38C HPUE Ant 1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	99	1	0	14.19	15.50		
37901	38099	QPSK	1	99	1	0	14.33	15.50		
38150	37952	QPSK	1	0	1	99	14.25	15.50		

CA_38C Ant 10										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	99	1	0	18.08	19.20		
37901	38099	QPSK	1	99	1	0	18.16	19.20		
38150	37952	QPSK	1	0	1	99	18.13	19.20		

CA_38C HPUE Ant 10										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	99	1	0	19.78	20.80		
37901	38099	QPSK	1	99	1	0	19.82	20.80		
38150	37952	QPSK	1	0	1	99	19.67	20.80		

CA_38C Ant 0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	99	1	0	18.39	19.90		
37901	38099	QPSK	1	99	1	0	18.49	19.90		
38150	37952	QPSK	1	0	1	99	18.33	19.90		

CA_38C HPUE Ant 0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	99	1	0	19.99	21.50		
37901	38099	QPSK	1	99	1	0	20.06	21.50		
38150	37952	QPSK	1	0	1	99	20.04	21.50		



CA_41C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	21.15	22.50
40185	40383	QPSK	1	99	1	0	21.16	22.50
40620	40818	QPSK	1	99	1	0	21.24	22.50
41055	41253	QPSK	1	99	1	0	21.19	22.50
41490	41292	QPSK	1	0	1	99	21.12	22.50

CA_41C HPUE Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.84	24.10
40185	40383	QPSK	1	99	1	0	22.87	24.10
40620	40818	QPSK	1	99	1	0	22.91	24.10
41055	41253	QPSK	1	99	1	0	22.78	24.10
41490	41292	QPSK	1	0	1	99	22.82	24.10

CA_41C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	12.74	13.90
40185	40383	QPSK	1	99	1	0	12.67	13.90
40620	40818	QPSK	1	99	1	0	12.77	13.90
41055	41253	QPSK	1	99	1	0	12.68	13.90
41490	41292	QPSK	1	0	1	99	12.69	13.90

CA_41C HPUE Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	14.41	15.50
40185	40383	QPSK	1	99	1	0	14.36	15.50
40620	40818	QPSK	1	99	1	0	14.44	15.50
41055	41253	QPSK	1	99	1	0	14.28	15.50
41490	41292	QPSK	1	0	1	99	14.35	15.50

CA_41C Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	18.16	19.20
40185	40383	QPSK	1	99	1	0	18.16	19.20
40620	40818	QPSK	1	99	1	0	18.24	19.20
41055	41253	QPSK	1	99	1	0	18.17	19.20
41490	41292	QPSK	1	0	1	99	18.17	19.20

CA_41C HPUE Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	19.79	20.80
40185	40383	QPSK	1	99	1	0	19.81	20.80
40620	40818	QPSK	1	99	1	0	19.87	20.80
41055	41253	QPSK	1	99	1	0	19.82	20.80
41490	41292	QPSK	1	0	1	99	19.76	20.80

CA_41C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	18.46	19.90
40185	40383	QPSK	1	99	1	0	18.48	19.90
40620	40818	QPSK	1	99	1	0	18.57	19.90
41055	41253	QPSK	1	99	1	0	18.44	19.90
41490	41292	QPSK	1	0	1	99	18.50	19.90

CA_41C HPUE Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	20.05	21.50
40185	40383	QPSK	1	99	1	0	20.01	21.50
40620	40818	QPSK	1	99	1	0	20.13	21.50
41055	41253	QPSK	1	99	1	0	20.05	21.50
41490	41292	QPSK	1	0	1	99	20.08	21.50



CA_42C Ant 7								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	16.84	18.60
42590	42788	QPSK	1	99	1	0	16.90	18.60
42990	42792	QPSK	1	0	1	99	16.83	18.60



CA_66B Ant 2								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	21.72	22.90
132322	132415	QPSK	1	74	1	0	21.76	22.90
132597	132504	QPSK	1	0	1	24	21.71	22.90

CA_7C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	20.32	21.80
21100	21298	QPSK	1	99	1	0	20.43	21.80
21350	21152	QPSK	1	0	1	99	20.39	21.80

CA_66B Ant 1								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	17.93	19.30
132322	132415	QPSK	1	74	1	0	17.95	19.30
132597	132504	QPSK	1	0	1	24	17.92	19.30

CA_7C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	17.48	18.60
21100	21298	QPSK	1	99	1	0	17.51	18.60
21350	21152	QPSK	1	0	1	99	17.49	18.60

CA_7C Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	18.42	19.60
21100	21298	QPSK	1	99	1	0	18.44	19.60
21350	21152	QPSK	1	0	1	99	18.38	19.60

CA_7C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	20.83	22.10
21100	21298	QPSK	1	99	1	0	20.88	22.10
21350	21152	QPSK	1	0	1	99	20.71	22.10



CA_38C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	22.07	23.50
37901	38099	QPSK	1	99	1	0	22.18	23.50
38150	37952	QPSK	1	0	1	99	22.11	23.50

CA_38C HPUE Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	24.37	25.50
37901	38099	QPSK	1	99	1	0	24.47	25.50
38150	37952	QPSK	1	0	1	99	24.34	25.50

CA_38C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	19.11	20.50
37901	38099	QPSK	1	99	1	0	19.28	20.50
38150	37952	QPSK	1	0	1	99	19.05	20.50

CA_38C HPUE Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	20.77	22.10
37901	38099	QPSK	1	99	1	0	20.91	22.10
38150	37952	QPSK	1	0	1	99	20.79	22.10

CA_38C Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	20.52	22.00
37901	38099	QPSK	1	99	1	0	20.55	22.00
38150	37952	QPSK	1	0	1	99	20.39	22.00

CA_38C HPUE Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	22.22	23.60
37901	38099	QPSK	1	99	1	0	22.24	23.60
38150	37952	QPSK	1	0	1	99	22.16	23.60

CA_38C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	20.78	22.50
37901	38099	QPSK	1	99	1	0	20.88	22.50
38150	37952	QPSK	1	0	1	99	20.78	22.50

CA_38C HPUE Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	22.32	24.10
37901	38099	QPSK	1	99	1	0	22.35	24.10
38150	37952	QPSK	1	0	1	99	22.17	24.10



CA_41C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.22	23.50
40185	40383	QPSK	1	99	1	0	22.16	23.50
40620	40818	QPSK	1	99	1	0	22.31	23.50
41055	41253	QPSK	1	99	1	0	22.19	23.50
41490	41292	QPSK	1	0	1	99	22.13	23.50

CA_41C HPUE Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	24.48	25.50
40185	40383	QPSK	1	99	1	0	24.38	25.50
40620	40818	QPSK	1	99	1	0	24.54	25.50
41055	41253	QPSK	1	99	1	0	24.41	25.50
41490	41292	QPSK	1	0	1	99	24.44	25.50

CA_41C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	19.18	20.50
40185	40383	QPSK	1	99	1	0	19.21	20.50
40620	40818	QPSK	1	99	1	0	19.33	20.50
41055	41253	QPSK	1	99	1	0	19.24	20.50
41490	41292	QPSK	1	0	1	99	19.22	20.50

CA_41C HPUE Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	20.88	22.10
40185	40383	QPSK	1	99	1	0	20.91	22.10
40620	40818	QPSK	1	99	1	0	20.96	22.10
41055	41253	QPSK	1	99	1	0	20.84	22.10
41490	41292	QPSK	1	0	1	99	20.89	22.10

CA_41C Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	20.54	22.00
40185	40383	QPSK	1	99	1	0	20.56	22.00
40620	40818	QPSK	1	99	1	0	20.61	22.00
41055	41253	QPSK	1	99	1	0	20.49	22.00
41490	41292	QPSK	1	0	1	99	20.51	22.00

CA_41C HPUE Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.33	23.60
40185	40383	QPSK	1	99	1	0	22.29	23.60
40620	40818	QPSK	1	99	1	0	22.36	23.60
41055	41253	QPSK	1	99	1	0	22.35	23.60
41490	41292	QPSK	1	0	1	99	22.19	23.60

CA_41C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	20.79	22.50
40185	40383	QPSK	1	99	1	0	20.82	22.50
40620	40818	QPSK	1	99	1	0	20.94	22.50
41055	41253	QPSK	1	99	1	0	20.81	22.50
41490	41292	QPSK	1	0	1	99	20.77	22.50

CA_41C HPUE Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.36	24.10
40185	40383	QPSK	1	99	1	0	22.37	24.10
40620	40818	QPSK	1	99	1	0	22.44	24.10
41055	41253	QPSK	1	99	1	0	22.34	24.10
41490	41292	QPSK	1	0	1	99	22.3	24.10



CA_42C Ant 7								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	19.48	20.40
42590	42788	QPSK	1	99	1	0	19.50	20.40
42990	42792	QPSK	1	0	1	99	19.45	20.40



CA_7C Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	18.42	19.60
21100	21298	QPSK	1	99	1	0	18.44	19.60
21350	21152	QPSK	1	0	1	99	18.38	19.60

CA_38C Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	20.52	22.00
37901	38099	QPSK	1	99	1	0	20.55	22.00
38150	37952	QPSK	1	0	1	99	20.39	22.00

CA_41C Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	20.54	22.00
40185	40383	QPSK	1	99	1	0	20.56	22.00
40620	40818	QPSK	1	99	1	0	20.61	22.00
41055	41253	QPSK	1	99	1	0	20.49	22.00
41490	41292	QPSK	1	0	1	99	20.51	22.00



CA_38C HPUE Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	22.22	23.60
37901	38099	QPSK	1	99	1	0	22.24	23.60
38150	37952	QPSK	1	0	1	99	22.16	23.60

CA_42C Ant 7								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	22.54	24.00
42590	42788	QPSK	1	99	1	0	22.69	24.00
42990	42792	QPSK	1	0	1	99	22.51	24.00

CA_41C HPUE Ant 10								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.33	23.60
40165	40383	QPSK	1	99	1	0	22.29	23.60
40620	40818	QPSK	1	99	1	0	22.36	23.60
41055	41253	QPSK	1	99	1	0	22.35	23.60
41490	41292	QPSK	1	0	1	99	22.19	23.60



Full&Default Power Mode

n5 Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mode Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				164800	167300	167800		
Frequency (MHz)				824	836.5	848		
20	Pi2 BPSK	1	1	22.40	22.70	22.62		
20	Pi2 BPSK	1	53	22.54	22.71	22.71	24.0	0.0
20	Pi2 BPSK	1	104	22.53	22.76	22.72		
20	Pi2 BPSK	50	0	22.16	22.32	22.44	23.5	0.5
20	Pi2 BPSK	50	28	22.52	22.71	22.66	24.0	0.0
20	Pi2 BPSK	50	56	22.11	22.31	22.28	23.5	0.5
20	Pi2 BPSK	100	0	22.18	22.33	22.29		
20	QPSK	1	1	22.36	22.66	22.77		
20	QPSK	1	53	22.50	22.64	22.64	24.0	0.0
20	QPSK	1	104	22.53	22.76	22.61		
20	QPSK	50	0	21.63	21.74	21.71	23.0	1.0
20	QPSK	50	28	22.56	22.73	22.63	24.0	0.0
20	QPSK	50	56	21.65	21.81	21.76	23.0	1.0
20	QPSK	100	0	21.70	21.78	21.75		
20	16QAM	1	1	21.71	21.76	21.76	23.0	1.0
20	64QAM	1	1	20.15	20.27	20.29	21.5	2.5
20	256QAM	1	1	18.14	18.34	18.22	19.5	4.5
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	22.37	22.53	22.44	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	22.32	22.53	22.53	24.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				836.5	836.5	846.5	24.0	0.0
5	QPSK	1	1	22.32	22.52	22.49	24.0	0.0

n26 Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mode Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				164800	166300	167800		
Frequency (MHz)				824	831.5	839		
20	Pi2 BPSK	1	1	22.73	22.73	22.69		
20	Pi2 BPSK	1	53	22.69	22.73	22.67	24.0	0.0
20	Pi2 BPSK	1	104	22.73	22.82	22.68		
20	Pi2 BPSK	50	0	22.26	22.37	22.27	23.5	0.5
20	Pi2 BPSK	50	28	22.67	22.76	22.63	24.0	0.0
20	Pi2 BPSK	50	56	22.38	22.32	22.24	23.5	0.5
20	Pi2 BPSK	100	0	22.30	22.39	22.27		
20	QPSK	1	1	22.36	22.66	22.76		
20	QPSK	1	53	22.72	22.80	22.66	24.0	0.0
20	QPSK	1	104	22.74	22.81	22.70		
20	QPSK	50	0	21.78	21.82	21.79	23.0	1.0
20	QPSK	50	28	22.67	22.71	22.68	24.0	0.0
20	QPSK	50	56	21.79	21.81	21.79	23.0	1.0
20	QPSK	100	0	21.74	21.86	21.75		
20	16QAM	1	1	21.74	21.84	21.76	23.0	1.0
20	64QAM	1	1	20.34	20.39	20.24	21.5	2.5
20	256QAM	1	1	18.30	18.38	18.32	19.5	4.5
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				811.5	831.5	841.5	24.0	0.0
15	QPSK	1	1	22.53	22.54	22.50	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	22.51	22.58	22.48	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	22.46	22.55	22.41	24.0	0.0



n38 Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power High Ch. / Freq	Power Typ Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
				516004	519000	519996		
	Frequency (MHz)			2030.02	2050	2050.98		
40	PQPSK	1	1	20.68	20.76	20.67		
40	PQPSK	1	93	20.72	20.69	20.75	22.0	0.0
40	PQPSK	1	104	20.71	20.89	20.69		
40	PQPSK	90	0	20.25	20.37	20.32	21.5	0.5
40	PQPSK	90	99	20.67	20.70	20.75	22.0	0.0
40	PQPSK	90	95	20.32	20.32	20.29		
40	PQPSK	100	0	20.28	20.30	20.30	21.5	0.5
40	QPSK	1	1	20.81	20.95	20.82		
40	QPSK	1	63	20.67	20.79	20.69	22.0	0.0
40	QPSK	1	104	20.73	20.81	20.73		
40	QPSK	90	0	19.80	19.79	19.80	21.0	1.0
40	QPSK	90	26	20.78	20.78	20.75	22.0	0.0
40	QPSK	90	90	19.77	19.86	19.84		
40	QPSK	100	0	19.83	19.91	19.82	21.0	1.0
40	16QAM	1	1	19.83	19.83	19.77	21.0	1.0
40	64QAM	1	1	19.28	19.32	19.38	19.5	2.5
40	256QAM	1	1	16.30	16.41	16.31	17.5	4.5
Channel								
	Frequency (MHz)			517002	519000	520998		
30	QPSK	1	1	20.54	20.58	20.53	22.0	0.0
Channel								
	Frequency (MHz)			516000	519000	522000		
20	QPSK	1	1	20.50	20.55	20.48	22.0	0.0
Channel								
	Frequency (MHz)			515002	519000	522998		
15	QPSK	1	1	20.55	20.55	20.58	22.0	0.0
Channel								
	Frequency (MHz)			515004	519000	522996		
10	QPSK	1	1	20.48	20.51	20.54	22.0	0.0

n41 Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power High Ch. / Freq	Power Typ Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
				509002	518998	528000		
	Frequency (MHz)			2040.01	2050.99	2040		
100	PQPSK	1	1	20.75	20.83	20.86		
100	PQPSK	1	137	20.79	20.83	20.81	22.0	0.0
100	PQPSK	1	271	20.74	20.86	20.85		
100	PQPSK	135	0	20.42	20.48	20.38	21.5	0.5
100	PQPSK	135	69	20.81	20.88	20.84	22.0	0.0
100	PQPSK	135	138	20.41	20.44	20.43		
100	PQPSK	270	0	20.38	20.38	20.41	21.5	0.5
100	QPSK	1	1	20.89	20.94	20.91		
100	QPSK	1	137	20.75	20.84	20.77	22.0	0.0
100	QPSK	1	271	20.81	20.84	20.80		
100	QPSK	135	0	19.84	19.95	19.89	21.0	1.0
100	QPSK	135	69	20.78	20.88	20.81	22.0	0.0
100	QPSK	135	138	19.92	19.99	19.88		
100	QPSK	270	0	19.93	19.97	19.92	21.0	1.0
100	16QAM	1	1	19.84	19.82	19.82	21.0	1.0
100	64QAM	1	1	16.38	16.43	16.43	16.5	2.5
100	256QAM	1	1	16.41	16.42	16.39	17.5	4.5
Channel								
	Frequency (MHz)			508000	518998	528996		
80	QPSK	1	1	20.41	20.52	20.44	22.0	0.0
Channel								
	Frequency (MHz)			507004	518998	529998		
80	QPSK	1	1	20.80	20.69	20.66	22.0	0.0
Channel								
	Frequency (MHz)			508002	518998	531000		
70	QPSK	1	1	20.82	20.83	20.82	22.0	0.0
Channel								
	Frequency (MHz)			509000	518998	531996		
60	QPSK	1	1	20.65	20.59	20.56	22.0	0.0
Channel								
	Frequency (MHz)			504204	518998	532998		
50	QPSK	1	1	20.61	20.62	20.64	22.0	0.0
Channel								
	Frequency (MHz)			505002	518998	533000		
40	QPSK	1	1	20.68	20.60	20.58	22.0	0.0
Channel								
	Frequency (MHz)			502200	518998	534996		
30	QPSK	1	1	20.61	20.68	20.58	22.0	0.0
Channel								
	Frequency (MHz)			500802	518998	537000		
20	QPSK	1	1	20.66	20.66	20.60	22.0	0.0
Channel								
	Frequency (MHz)			500700	518998	536496		
15	QPSK	1	1	20.55	20.63	20.58	22.0	0.0
Channel								
	Frequency (MHz)			500202	518998	537000		
10	QPSK	1	1	20.51	20.62	20.65	22.0	0.0



n2 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				372000	376000	380000		
Frequency (MHz)				1860	1860	1900		
20	PI2 BPSK	1	1	22.39	22.45	22.41		
20	PI2 BPSK	1	53	22.35	22.42	22.30	24.0	0.0
20	PI2 BPSK	1	104	22.25	22.41	22.31		
20	PI2 BPSK	50	0	21.95	22.01	21.96	23.5	0.5
20	PI2 BPSK	50	26	22.33	22.37	22.32	24.0	0.0
20	PI2 BPSK	50	56	21.81	21.95	21.87		
20	PI2 BPSK	100	0	21.87	22.01	21.85	23.0	0.5
20	QPSK	1	1	22.47	22.30	22.44		
20	QPSK	1	53	22.33	22.30	22.33	24.0	0.0
20	QPSK	1	104	22.31	22.36	22.25		
20	QPSK	50	0	21.41	21.50	21.41	23.0	1.0
20	QPSK	50	26	22.34	22.43	22.30	24.0	0.0
20	QPSK	50	56	21.40	21.46	21.33		
20	QPSK	100	0	21.41	21.47	21.40	23.0	1.0
20	16QAM	1	1	21.43	21.58	21.46	23.0	1.0
20	16QAM	1	1	20.12	20.17	20.01	21.5	2.5
20	256QAM	1	1	18.35	18.43	18.37	19.5	4.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1860	1862.5		
15	QPSK	1	1	22.23	22.29	22.24	24.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1860	1865		
10	QPSK	1	1	22.21	22.28	22.20	24.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1860	1867.5		
5	QPSK	1	1	22.20	22.25	22.22	24.0	0.0

n5 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				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	22.41	22.55	22.51		
20	PI2 BPSK	1	53	22.35	22.48	22.32	24.0	0.0
20	PI2 BPSK	1	104	22.39	22.51	22.44		
20	PI2 BPSK	50	0	22.08	22.13	21.99	23.5	0.5
20	PI2 BPSK	50	26	22.47	22.51	22.44	24.0	0.0
20	PI2 BPSK	50	56	21.97	22.03	21.90		
20	PI2 BPSK	100	0	21.96	22.06	21.94	23.0	0.5
20	QPSK	1	1	22.49	22.36	22.53		
20	QPSK	1	53	22.35	22.40	22.34	24.0	0.0
20	QPSK	1	104	22.39	22.48	22.37		
20	QPSK	50	0	21.52	21.62	21.49	23.0	1.0
20	QPSK	50	26	22.38	22.41	22.31	24.0	0.0
20	QPSK	50	56	21.40	21.51	21.36		
20	QPSK	100	0	21.42	21.55	21.48	23.0	1.0
20	16QAM	1	1	21.37	21.49	21.34	23.0	1.0
20	16QAM	1	1	18.88	20.05	19.90	21.5	2.5
20	256QAM	1	1	18.25	18.39	18.25	19.5	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.26	22.31	22.19	24.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	22.24	22.39	22.21	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	22.19	22.32	22.29	24.0	0.0

n7 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				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	22.52	22.58	22.48		
40	PI2 BPSK	1	108	22.38	22.46	22.37	24.0	0.0
40	PI2 BPSK	1	214	22.41	22.45	22.38		
40	PI2 BPSK	108	0	21.87	22.03	21.94	23.5	0.5
40	PI2 BPSK	108	54	22.40	22.49	22.38	24.0	0.0
40	PI2 BPSK	108	108	21.78	21.93	21.78		
40	PI2 BPSK	216	0	21.81	21.95	21.86	23.0	0.5
40	QPSK	1	1	22.56	22.64	22.56		
40	QPSK	1	108	22.38	22.48	22.41	24.0	0.0
40	QPSK	1	214	22.47	22.52	22.47		
40	QPSK	108	0	21.48	21.55	21.44	23.0	1.0
40	QPSK	108	54	22.45	22.52	22.43	24.0	0.0
40	QPSK	108	108	21.38	21.43	21.29		
40	QPSK	216	0	21.37	21.45	21.37	23.0	1.0
40	16QAM	1	1	21.19	21.29	21.16	23.0	1.0
40	16QAM	1	1	20.03	20.08	19.94	21.5	2.5
40	256QAM	1	1	17.92	18.07	18.02	19.5	4.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	22.27	22.38	22.28	24.0	0.0
Channel				502000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	22.29	22.41	22.28	24.0	0.0
Channel				501000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	22.31	22.38	22.28	24.0	0.0
Channel				501000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	22.23	22.34	22.25	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.33	22.43	22.27	24.0	0.0
Channel				500000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	22.24	22.33	22.33	24.0	0.0



n26 Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)				164800	166300	167800	
20	P12 BPSK	1	1	22.38	22.51	22.45	24.0
20	P12 BPSK	1	53	22.30	22.39	22.26	24.0
20	P12 BPSK	1	104	22.31	22.46	22.37	24.0
20	P12 BPSK	50	0	22.04	22.16	22.11	23.5
20	P12 BPSK	50	26	22.29	22.38	22.32	24.0
20	P12 BPSK	50	56	21.89	22.00	21.88	23.5
20	P12 BPSK	100	0	22.02	22.07	22.00	24.0
20	QPSK	1	1	22.41	22.36	22.49	24.0
20	QPSK	1	53	22.40	22.46	22.38	24.0
20	QPSK	1	104	22.41	22.52	22.40	24.0
20	QPSK	50	0	21.58	21.66	21.51	23.0
20	QPSK	50	26	22.39	22.46	22.42	24.0
20	QPSK	50	56	21.37	21.52	21.36	23.0
20	QPSK	100	0	21.49	21.55	21.46	23.0
20	16QAM	1	1	21.40	21.49	21.34	23.0
20	16QAM	1	1	19.96	20.02	19.97	21.5
20	256QAM	1	1	18.25	18.30	18.17	19.5
Channel							
Frequency (MHz)				164300	166300	168300	MPR (dB)
15	QPSK	1	1	22.35	22.41	22.39	24.0
Channel							
Frequency (MHz)				163800	165300	166800	MPR (dB)
10	QPSK	1	1	818	831.5	844	24.0
Channel							
Frequency (MHz)				163300	165300	165300	MPR (dB)
5	QPSK	1	1	22.34	22.46	22.39	24.0

n66 Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)				346000	349000	352000	
40	P12 BPSK	1	1	22.54	22.63	22.69	24.0
40	P12 BPSK	1	108	22.49	22.63	22.56	24.0
40	P12 BPSK	1	214	22.52	22.58	22.54	24.0
40	P12 BPSK	108	0	22.32	22.37	22.33	23.5
40	P12 BPSK	108	84	22.47	22.60	22.50	24.0
40	P12 BPSK	108	168	22.16	22.28	22.13	23.5
40	P12 BPSK	216	0	22.06	22.18	22.04	23.5
40	QPSK	1	1	22.68	22.72	22.62	24.0
40	QPSK	1	108	22.48	22.57	22.52	24.0
40	QPSK	1	214	22.54	22.64	22.52	24.0
40	QPSK	108	0	21.63	21.79	21.69	23.0
40	QPSK	108	84	22.50	22.58	22.47	24.0
40	QPSK	108	168	21.64	21.76	21.71	23.0
40	QPSK	216	0	21.52	21.61	21.48	23.0
40	16QAM	1	1	21.48	21.63	21.49	23.0
40	16QAM	1	1	19.96	20.05	19.93	21.5
40	256QAM	1	1	18.60	18.65	18.57	19.5
Channel							
Frequency (MHz)				345500	349000	352500	MPR (dB)
35	QPSK	1	1	172.5	1745	1762.5	24.0
Channel							
Frequency (MHz)				345000	349000	353000	MPR (dB)
30	QPSK	1	1	1725	1745	1765	24.0
Channel							
Frequency (MHz)				344500	349000	353500	MPR (dB)
25	QPSK	1	1	22.63	22.60	22.63	24.0
Channel							
Frequency (MHz)				344000	349000	354000	MPR (dB)
20	QPSK	1	1	22.53	22.65	22.55	24.0
Channel							
Frequency (MHz)				343500	349000	354500	MPR (dB)
15	QPSK	1	1	22.63	22.58	22.48	24.0
Channel							
Frequency (MHz)				343000	349000	355000	MPR (dB)
10	QPSK	1	1	1715	1745	1775	24.0
Channel							
Frequency (MHz)				342500	349000	355500	MPR (dB)
5	QPSK	1	1	1712.5	1745	1777.5	24.0



n38 Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mide Ch / Freq	Power Hgh Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	P12 BPSK	1	1	20.91	21.00	20.85		
40	P12 BPSK	1	53	20.83	20.91	20.79	22.5	0.0
40	P12 BPSK	1	104	20.76	20.87	20.78		
40	P12 BPSK	50	0	20.32	20.46	20.26	22.0	0.5
40	P12 BPSK	50	59	20.81	20.90	20.84	22.5	0.0
40	P12 BPSK	50	56	20.37	20.42	20.37	22.0	0.5
40	P12 BPSK	100	0	20.26	20.38	20.22		
40	QPSK	1	1	20.96	21.02	21.00		
40	QPSK	1	53	20.78	20.81	20.81	22.5	0.0
40	QPSK	1	104	20.79	20.88	20.82		
40	QPSK	50	0	19.93	19.97	19.95	21.5	1.0
40	QPSK	50	26	20.83	20.95	20.80	22.5	0.0
40	QPSK	50	56	19.75	19.91	19.85	21.5	1.0
40	QPSK	100	0	19.81	19.92	19.83		
40	16QAM	1	1	19.71	19.81	19.76	21.5	1.0
40	64QAM	1	1	19.17	19.32	19.20	20.0	2.5
40	256QAM	1	1	16.52	16.60	16.52	18.0	4.5
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.62	20.75	20.70	22.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.72	20.76	20.68	22.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	20.70	20.82	20.76	22.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	20.68	20.76	20.66	22.5	0.0

n41 Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mide Ch / Freq	Power Hgh Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	20.92	21.00	20.90		
100	P12 BPSK	1	137	20.90	20.96	20.89	22.5	0.0
100	P12 BPSK	1	271	20.77	20.90	20.84		
100	P12 BPSK	135	0	20.47	20.63	20.59	22.0	0.5
100	P12 BPSK	135	69	20.86	20.94	20.87	22.5	0.0
100	P12 BPSK	135	138	20.51	20.64	20.55	22.0	0.5
100	P12 BPSK	270	0	20.51	20.59	20.46		
100	QPSK	1	1	21.05	21.08	20.97		
100	QPSK	1	137	20.90	21.02	20.95	22.5	0.0
100	QPSK	1	271	20.87	20.92	20.78		
100	QPSK	135	0	19.99	20.13	20.08	21.5	1.0
100	QPSK	135	69	20.83	20.88	20.88	22.5	0.0
100	QPSK	135	138	20.05	20.10	19.97	21.5	1.0
100	QPSK	270	0	19.84	19.87	19.88		
100	16QAM	1	1	19.87	20.01	19.90	21.5	1.0
100	64QAM	1	1	19.26	19.39	19.26	20.0	2.5
100	256QAM	1	1	16.91	17.03	16.96	18.0	4.5
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.41	20.52	20.44	22.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.76	20.87	20.86	22.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	20.97	21.01	20.82	22.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.86	20.93	20.82	22.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	20.92	20.97	20.84	22.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	20.85	20.92	20.83	22.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.76	20.95	20.86	22.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.86	20.96	20.86	22.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	20.78	20.87	20.89	22.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	20.75	20.80	20.80	22.5	0.0



n2 Ant 2

Channel	Power	Power	Power	Tune-up limit	MPR
Frequency (MHz)	Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.	(dBm)	(dB)
Channel 376000 376000 380000					
20 Pz2 BPSK 1 1 22.02 22.70 22.98 24.0 0.0					
20 Pz2 BPSK 1 53 22.50 22.55 22.39 24.0 0.0					
20 Pz2 BPSK 1 104 22.51 22.58 22.43 24.0 0.0					
20 Pz2 BPSK 50 0 22.07 22.19 22.11 23.5 0.5					
20 Pz2 BPSK 50 25 22.45 22.37 22.32 24.0 0.0					
20 Pz2 BPSK 50 56 22.03 22.14 22.08 23.5 0.5					
20 Pz2 BPSK 100 0 21.98 22.07 21.97 23.0 1.0					
20 QPSK 1 1 22.98 22.72 22.70 24.0 0.0					
20 QPSK 1 53 22.50 22.58 22.53 24.0 0.0					
20 QPSK 1 104 22.81 22.86 22.82 23.0 1.0					
20 QPSK 50 0 21.81 21.66 21.62 23.0 1.0					
20 QPSK 50 25 22.54 22.81 22.56 24.0 0.0					
20 QPSK 50 56 21.46 21.60 21.50 23.0 1.0					
20 QPSK 100 0 21.49 21.61 21.49 23.0 1.0					
20 16QAM 1 1 21.22 21.30 21.15 23.0 1.0					
20 16QAM 1 1 20.02 20.08 19.99 21.5 2.5					
20 256QAM 1 1 18.26 18.35 18.29 19.5 4.5					
Channel 371500 376000 380000					
Frequency (MHz) 1827.5 1830 1823.5					
15 QPSK 1 1 22.42 22.51 22.40 24.0 0.0					
Channel 371500 376000 381000					
Frequency (MHz) 1855 1860 1805					
10 QPSK 1 1 22.39 22.46 22.42 24.0 0.0					
Channel 1852.5 1880 1867.5					
Frequency (MHz) 1852.5 1880 1867.5					
5 QPSK 1 1 22.42 22.48 22.38 24.0 0.0					

n7 Ant 2

Channel	Power	Power	Power	Tune-up limit	MPR
Frequency (MHz)	Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.	(dBm)	(dB)
Channel 504000 507000 510000					
40 Pz2 BPSK 1 1 22.44 22.50 22.42 24.0 0.0					
40 Pz2 BPSK 1 108 22.23 22.39 22.29 24.0 0.0					
40 Pz2 BPSK 1 214 22.37 22.41 22.25 24.0 0.0					
40 Pz2 BPSK 108 0 21.93 22.07 22.00 23.5 0.5					
40 Pz2 BPSK 108 54 22.28 22.40 22.26 24.0 0.0					
40 Pz2 BPSK 108 108 22.04 22.18 22.05 23.5 0.5					
40 Pz2 BPSK 216 0 22.02 22.12 22.01 23.0 1.0					
40 QPSK 1 1 22.98 22.83 22.81 24.0 0.0					
40 QPSK 1 108 22.43 22.52 22.38 24.0 0.0					
40 QPSK 1 214 22.43 22.50 22.44 23.0 1.0					
40 QPSK 108 0 21.38 21.54 21.43 23.0 1.0					
40 QPSK 108 54 22.49 22.54 22.49 24.0 0.0					
40 QPSK 108 108 21.42 21.52 21.42 23.0 1.0					
40 QPSK 216 0 21.38 21.46 21.31 23.0 1.0					
40 16QAM 1 1 21.41 21.48 21.44 23.0 1.0					
40 16QAM 1 1 19.86 19.75 19.84 21.5 2.5					
40 256QAM 1 1 17.98 18.07 17.95 19.5 4.5					
Channel 505000 507000 511000					
Frequency (MHz) 2915 2935 2955					
30 QPSK 1 1 22.29 22.44 22.31 24.0 0.0					
Channel 502500 507000 511000					
Frequency (MHz) 2912.5 2935 2917.5					
25 QPSK 1 1 22.37 22.44 22.32 24.0 0.0					
Channel 502500 507000 512000					
Frequency (MHz) 2910 2935 2960					
20 QPSK 1 1 22.33 22.41 22.33 24.0 0.0					
Channel 507500 507000 512000					
Frequency (MHz) 2907.5 2935 2922.5					
15 QPSK 1 1 22.32 22.39 22.23 24.0 0.0					
Channel 501000 507000 515000					
Frequency (MHz) 2905 2935 2965					
10 QPSK 1 1 22.39 22.38 22.24 24.0 0.0					
Channel 500500 507000 515000					
Frequency (MHz) 2902.5 2935 2917.5					
5 QPSK 1 1 22.36 22.38 22.31 24.0 0.0					

n66 Ant 2

Channel	Power	Power	Power	Tune-up limit	MPR
Frequency (MHz)	Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.	(dBm)	(dB)
Channel 345000 349000 352000					
40 Pz2 BPSK 1 1 22.43 22.55 22.41 24.0 0.0					
40 Pz2 BPSK 1 108 22.38 22.46 22.36 24.0 0.0					
40 Pz2 BPSK 1 214 22.45 22.50 22.42 24.0 0.0					
40 Pz2 BPSK 108 0 22.01 22.09 22.06 23.5 0.5					
40 Pz2 BPSK 108 54 22.33 22.45 22.34 24.0 0.0					
40 Pz2 BPSK 108 108 21.92 22.02 21.92 23.5 0.5					
40 Pz2 BPSK 216 0 21.99 22.03 21.94 23.0 1.0					
40 QPSK 1 1 22.81 22.58 22.54 24.0 0.0					
40 QPSK 1 108 22.40 22.52 22.43 24.0 0.0					
40 QPSK 1 214 22.44 22.53 22.48 23.0 1.0					
40 QPSK 108 0 21.42 21.88 21.42 23.0 1.0					
40 QPSK 108 54 22.41 22.53 22.42 24.0 0.0					
40 QPSK 108 108 21.47 21.51 21.45 23.0 1.0					
40 QPSK 216 0 21.33 21.47 21.35 23.0 1.0					
40 16QAM 1 1 21.27 21.33 21.21 23.0 1.0					
40 16QAM 1 1 19.76 19.81 19.76 21.5 2.5					
40 256QAM 1 1 18.26 18.37 18.27 19.5 4.5					
Channel 345000 349000 352000					
Frequency (MHz) 1727.5 1745 1742.5					
35 QPSK 1 1 22.27 22.42 22.31 24.0 0.0					
Channel 345000 349000 353000					
Frequency (MHz) 1725 1745 1765					
30 QPSK 1 1 22.27 22.38 22.39 24.0 0.0					
Channel 345000 349000 353000					
Frequency (MHz) 1722.5 1745 1792.5					
25 QPSK 1 1 22.30 22.48 22.36 24.0 0.0					
Channel 345000 349000 354000					
Frequency (MHz) 1720 1745 1770					
20 QPSK 1 1 22.34 22.37 22.29 24.0 0.0					
Channel 345000 349000 354500					
Frequency (MHz) 1717.5 1745 1812.5					
15 QPSK 1 1 22.26 22.45 22.35 24.0 0.0					
Channel 345000 349000 355000					
Frequency (MHz) 1715 1745 1775					
10 QPSK 1 1 22.27 22.45 22.23 24.0 0.0					
Channel 345000 349000 355000					
Frequency (MHz) 1712.5 1745 1777.5					
5 QPSK 1 1 22.34 22.40 22.38 24.0 0.0					



n38 Ant 2								
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)				518004	519000	519996		
40	P2/BPSK	1	1	22.38	22.45	22.38		
40	P2/BPSK	1	53	22.18	22.30	22.15	24.0	0.0
40	P2/BPSK	1	104	22.27	22.39	22.29		
40	P2/BPSK	50	0	21.85	22.01	21.88	23.5	0.5
40	P2/BPSK	50	59	22.35	22.39	22.27	24.0	0.0
40	P2/BPSK	50	56	21.88	22.12	22.00		
40	P2/BPSK	100	0	21.91	22.01	21.96	23.5	0.5
40	QPSK	1	1	22.49	22.56	22.53		
40	QPSK	1	53	22.27	22.45	22.32	24.0	0.0
40	QPSK	1	104	22.35	22.51	22.39		
40	QPSK	50	0	21.49	21.55	21.51	23.0	1.0
40	QPSK	50	28	22.38	22.50	22.38	24.0	0.0
40	QPSK	50	56	21.42	21.52	21.37		
40	QPSK	100	0	21.34	21.48	21.34	23.0	1.0
40	16QAM	1	1	21.38	21.48	21.36	23.0	1.0
40	64QAM	1	1	19.78	19.97	19.83	21.5	2.5
40	256QAM	1	1	18.04	18.13	18.08	19.5	4.5
Channel								
Frequency (MHz)				517002	516000	509998	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.85	22.95	22.84	24.0	0.0
Channel								
Frequency (MHz)				516000	515000	502000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.30	22.32	22.20	24.0	0.0
Channel								
Frequency (MHz)				515002	515000	509998	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.32	22.38	22.19	24.0	0.0
Channel								
Frequency (MHz)				515004	515000	502996	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.27	22.38	22.24	24.0	0.0

n41 Ant 2								
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)				509002	518598	526000		
100	P2/BPSK	1	1	22.43	22.63	22.55		
100	P2/BPSK	1	137	22.38	22.53	22.43	24.0	0.0
100	P2/BPSK	1	271	22.53	22.60	22.49		
100	P2/BPSK	135	0	21.95	22.11	22.01	23.5	0.5
100	P2/BPSK	135	69	22.47	22.57	22.49	24.0	0.0
100	P2/BPSK	135	138	22.16	22.23	22.15		
100	P2/BPSK	270	0	21.93	22.01	21.90	23.5	0.5
100	QPSK	1	1	22.57	22.66	22.61		
100	QPSK	1	137	22.48	22.58	22.49	24.0	0.0
100	QPSK	1	271	22.44	22.54	22.39		
100	QPSK	135	0	21.49	21.61	21.52	23.0	1.0
100	QPSK	135	69	22.52	22.58	22.44	24.0	0.0
100	QPSK	135	138	21.61	21.75	21.68		
100	QPSK	270	0	21.54	21.60	21.44	23.0	1.0
100	16QAM	1	1	21.49	21.53	21.42	23.0	1.0
100	64QAM	1	1	19.93	19.98	19.85	21.5	2.5
100	256QAM	1	1	17.90	17.98	17.82	19.5	4.5
Channel								
Frequency (MHz)				508000	518598	526996	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	22.41	22.52	22.44	24.0	0.0
Channel								
Frequency (MHz)				507004	518598	509998	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	22.40	22.45	22.41	24.0	0.0
Channel								
Frequency (MHz)				506002	518598	504996	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	22.49	22.58	22.56	24.0	0.0
Channel								
Frequency (MHz)				505000	518598	503996	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	22.40	22.49	22.40	24.0	0.0
Channel								
Frequency (MHz)				504004	518598	502998	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	22.39	22.52	22.44	24.0	0.0
Channel								
Frequency (MHz)				503002	518598	503000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	22.34	22.52	22.43	24.0	0.0
Channel								
Frequency (MHz)				502000	518598	504996	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.34	22.52	22.45	24.0	0.0
Channel								
Frequency (MHz)				501004	518598	507999	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.44	22.52	22.40	24.0	0.0
Channel								
Frequency (MHz)				500700	518598	506496	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.33	22.45	22.42	24.0	0.0
Channel								
Frequency (MHz)				500002	518598	507000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.31	22.52	22.40	24.0	0.0



Part270 n77 Ant 4

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Main Ch. / Freq	High Ch. / Freq		
Channel								
Frequency (MHz)				650000	650000	650000		
100	PI2 BPSK	1	1	22.44	22.55	22.43		
100	PI2 BPSK	1	137	22.42	22.48	22.49	24.0	0.0
100	PI2 BPSK	1	271	22.43	22.51	22.49		
100	PI2 BPSK	135	0	21.97	22.09	21.97	23.5	0.5
100	PI2 BPSK	135	69	22.36	22.50	22.43	24.0	0.0
100	PI2 BPSK	135	138	21.96	22.10	22.09		
100	PI2 BPSK	270	0	22.06	22.06	22.08	23.5	0.5
100	QPSK	1	1	22.50	22.50	22.53		
100	QPSK	1	137	22.43	22.50	22.46	24.0	0.0
100	QPSK	1	271	22.36	22.56	22.42		
100	QPSK	135	0	21.90	21.54	21.97	23.0	1.0
100	QPSK	135	69	22.35	22.46	22.43	24.0	0.0
100	QPSK	135	138	21.54	21.54	21.55		
100	QPSK	270	0	21.54	21.58	21.53	23.0	1.0
100	16QAM	1	1	21.53	21.56	21.51	23.0	1.0
100	16QAM	1	1	20.02	20.04	20.03	21.5	2.5
100	256QAM	1	1	18.03	18.12	18.09	19.5	4.5
Channel								
Frequency (MHz)				649668	650000	652334	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3742.02	3840	3925.01		
Channel								
Frequency (MHz)				649334	650000	652668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3740.01	3840	3940.02		
Channel								
Frequency (MHz)				3735	3840	3945	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	22.38	22.48	22.37	24.0	0.0
Channel								
Frequency (MHz)				648968	650000	652334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	22.43	22.43	22.38	24.0	0.0
Channel								
Frequency (MHz)				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	22.42	22.53	22.42	24.0	0.0
Channel								
Frequency (MHz)				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	3720	3840	3960		
Channel								
Frequency (MHz)				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	3718.02	3840	3950.01		
Channel								
Frequency (MHz)				3718.02	3840	3950.01	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.38	22.44	22.45	24.0	0.0
Channel								
Frequency (MHz)				3710.01	3840	3970.02	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.38	22.49	22.42	24.0	0.0
Channel								
Frequency (MHz)				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.35	22.52	22.44	24.0	0.0
Channel								
Frequency (MHz)				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	3705	3840	3975		
10	QPSK	1	1	22.35	22.50	22.37	24.0	0.0

Part270 n77 HPUe Ant 4

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Main Ch. / Freq	High Ch. / Freq		
Channel								
Frequency (MHz)				650000	650000	650000		
100	PI2 BPSK	1	1	25.17	25.34	25.34		
100	PI2 BPSK	1	137	25.20	25.27	25.07	27.0	0.0
100	PI2 BPSK	1	271	25.22	25.22	25.18		
100	PI2 BPSK	135	0	24.91	24.99	24.91	26.5	0.5
100	PI2 BPSK	135	69	25.28	25.31	25.25	27.0	0.0
100	PI2 BPSK	135	138	24.86	24.98	24.88		
100	PI2 BPSK	270	0	24.89	24.96	24.90	26.5	0.5
100	QPSK	1	1	25.40	25.44	25.38		
100	QPSK	1	137	25.36	25.35	25.21	27.0	0.0
100	QPSK	1	271	25.35	25.35	25.32		
100	QPSK	135	0	24.45	24.38	24.36	26.0	1.0
100	QPSK	135	69	25.33	25.36	25.20	27.0	0.0
100	QPSK	135	138	24.43	24.42	24.40		
100	QPSK	270	0	24.40	24.45	24.29	26.0	1.0
100	16QAM	1	1	24.38	24.46	24.30	26.0	1.0
100	16QAM	1	1	22.90	22.94	22.82	24.5	2.5
100	256QAM	1	1	20.92	20.92	20.83	22.5	4.5
Channel								
Frequency (MHz)				649668	650000	652334	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3742.02	3840	3925.01		
Channel								
Frequency (MHz)				649334	650000	652668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3740.01	3840	3940.02		
Channel								
Frequency (MHz)				3735	3840	3945	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	25.27	25.32	25.31	27.0	0.0
Channel								
Frequency (MHz)				648968	650000	652334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	25.26	25.39	25.25	27.0	0.0
Channel								
Frequency (MHz)				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	25.31	25.32	25.21	27.0	0.0
Channel								
Frequency (MHz)				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	3720	3840	3960		
Channel								
Frequency (MHz)				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	3718.02	3840	3950.01		
Channel								
Frequency (MHz)				3718.02	3840	3950.01	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	25.27	25.36	25.25	27.0	0.0
Channel								
Frequency (MHz)				3710.01	3840	3970.02	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	25.31	25.37	25.26	27.0	0.0
Channel								
Frequency (MHz)				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	25.33	25.33	25.32	27.0	0.0
Channel								
Frequency (MHz)				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	25.32	25.38	25.23	27.0	0.0



Part270 n78 Ant 4									
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				650000	650000	650000			
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137		22.45				
100	PI2 BPSK	1	271		22.37		24.0	0.0	
100	PI2 BPSK	135	0		22.41				
100	PI2 BPSK	135	69		22.91		23.5	0.5	
100	PI2 BPSK	135	138		22.42		24.0	0.0	
100	PI2 BPSK	270	0		21.98		23.5	0.5	
100	QPSK	1	1		22.47				
100	QPSK	1	137		22.35		24.0	0.0	
100	QPSK	1	271		22.44				
100	QPSK	135	0		21.40		23.0	1.0	
100	QPSK	135	69		22.38		24.0	0.0	
100	QPSK	135	138		21.41		23.0	1.0	
100	QPSK	270	0		21.50		23.0	1.0	
100	16QAM	1	1		21.46		23.0	1.0	
100	64QAM	1	1		19.92		21.5	2.5	
100	256QAM	1	1		18.05		19.5	4.5	
Channel									
Frequency (MHz)				648668	650000	650334	Tune-up limit (dbm)	MFR (db)	
90	QPSK	1	1	3745.02	3750	3755.01			
Channel									
Frequency (MHz)				649334	650000	650668	Tune-up limit (dbm)	MFR (db)	
80	QPSK	1	1	3740.01	3750	3760.02			
Channel									
Frequency (MHz)				649500	650000	650000	Tune-up limit (dbm)	MFR (db)	
70	QPSK	1	1	22.20	22.39	22.26	24.0	0.0	
Channel									
Frequency (MHz)				648998	650000	651334	Tune-up limit (dbm)	MFR (db)	
60	QPSK	1	1	22.29	22.38	22.31	24.0	0.0	
Channel									
Frequency (MHz)				648334	650000	651668	Tune-up limit (dbm)	MFR (db)	
50	QPSK	1	1	3750.02	3750	3750.02			
Channel									
Frequency (MHz)				648000	650000	652000	Tune-up limit (dbm)	MFR (db)	
40	QPSK	1	1	3750	3750	3750			
Channel									
Frequency (MHz)				647668	650000	652334	Tune-up limit (dbm)	MFR (db)	
30	QPSK	1	1	3715.02	3750	3765.01			
Channel									
Frequency (MHz)				647334	650000	652668	Tune-up limit (dbm)	MFR (db)	
20	QPSK	1	1	3710.01	3750	3790.02			
Channel									
Frequency (MHz)				647168	650000	652834	Tune-up limit (dbm)	MFR (db)	
15	QPSK	1	1	22.26	22.40	22.25	24.0	0.0	
Channel									
Frequency (MHz)				647000	650000	653000	Tune-up limit (dbm)	MFR (db)	
10	QPSK	1	0	22.28	22.35	22.27	24.0	0.0	

Part270 n78 HPUE Ant 4									
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				650000	650000	650000			
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137		25.23				
100	PI2 BPSK	1	271		25.10				
100	PI2 BPSK	135	0		24.95		26.5	0.5	
100	PI2 BPSK	135	69		25.23		27.0	0.0	
100	PI2 BPSK	135	138		24.85		26.5	0.5	
100	PI2 BPSK	270	0		24.92				
100	QPSK	1	1		25.40				
100	QPSK	1	137		25.28		27.0	0.0	
100	QPSK	1	271		25.23				
100	QPSK	135	0		24.23		26.0	1.0	
100	QPSK	135	69		25.33		27.0	0.0	
100	QPSK	135	138		24.37		26.0	1.0	
100	QPSK	270	0		24.48		26.0	1.0	
100	16QAM	1	1		24.41		26.0	1.0	
100	64QAM	1	1		22.80		24.5	2.5	
100	256QAM	1	1		20.78		22.5	4.5	
Channel									
Frequency (MHz)				648668	650000	650334	Tune-up limit (dbm)	MFR (db)	
90	QPSK	1	1	3745.02	3750	3755.01			
Channel									
Frequency (MHz)				649334	650000	650668	Tune-up limit (dbm)	MFR (db)	
80	QPSK	1	1	3740.01	3750	3760.02			
Channel									
Frequency (MHz)				649500	650000	650000	Tune-up limit (dbm)	MFR (db)	
70	QPSK	1	1	25.22	25.36	25.16	27.0	0.0	
Channel									
Frequency (MHz)				648998	650000	651334	Tune-up limit (dbm)	MFR (db)	
60	QPSK	1	1	25.22	25.37	25.24	27.0	0.0	
Channel									
Frequency (MHz)				648334	650000	651668	Tune-up limit (dbm)	MFR (db)	
50	QPSK	1	1	3750.02	3750	3750.02			
Channel									
Frequency (MHz)				648000	650000	652000	Tune-up limit (dbm)	MFR (db)	
40	QPSK	1	1	3750	3750	3750			
Channel									
Frequency (MHz)				647668	650000	652334	Tune-up limit (dbm)	MFR (db)	
30	QPSK	1	1	3715.02	3750	3765.01			
Channel									
Frequency (MHz)				647334	650000	652668	Tune-up limit (dbm)	MFR (db)	
20	QPSK	1	1	3710.01	3750	3790.02			
Channel									
Frequency (MHz)				647168	650000	652834	Tune-up limit (dbm)	MFR (db)	
15	QPSK	1	1	25.20	25.31	25.24	27.0	0.0	
Channel									
Frequency (MHz)				647000	650000	653000	Tune-up limit (dbm)	MFR (db)	
10	QPSK	1	0	25.15	25.32	25.15	27.0	0.0	



Part270 n77 Ant 5

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Main Ch. / Freq	High Ch. / Freq		
Channel								
Frequency (MHz)				650000	650000	650000		
100	PI2 BPSK	1	1	22.09	22.69	22.72		
100	PI2 BPSK	1	137	22.84	22.69	22.72	24.0	0.0
100	PI2 BPSK	1	271	22.84	22.84	22.84		
100	PI2 BPSK	135	0	22.27	22.26	22.30	23.5	0.5
100	PI2 BPSK	135	69	22.84	22.68	22.80	24.0	0.0
100	PI2 BPSK	135	138	22.19	22.26	22.29		
100	PI2 BPSK	270	0	22.22	22.33	22.22	23.5	0.5
100	QPSK	1	1	22.72	22.79	22.75		
100	QPSK	1	137	22.58	22.72	22.85	24.0	0.0
100	QPSK	1	271	22.57	22.76	22.71		
100	QPSK	135	0	21.87	21.76	21.72	23.0	1.0
100	QPSK	135	69	22.59	22.74	22.71	24.0	0.0
100	QPSK	135	138	21.76	21.73	21.78		
100	QPSK	270	0	21.74	21.78	21.72	23.0	1.0
100	16QAM	1	1	21.77	21.74	21.70	23.0	1.0
100	16QAM	1	1	26.25	26.31	26.23	21.5	2.5
100	256QAM	1	1	18.22	18.32	18.27	19.5	4.5
Channel								
Frequency (MHz)				649668	650000	652334	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3745.02	3840	3925.01		
Channel								
Frequency (MHz)				649334	650000	652668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3740.01	3840	3940.02		
Channel								
Frequency (MHz)				3735	3840	3945	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	22.55	22.72	22.84	24.0	0.0
Channel								
Frequency (MHz)				648969	650000	652334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	22.58	22.87	22.80	24.0	0.0
Channel								
Frequency (MHz)				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	22.58	22.72	22.59	24.0	0.0
Channel								
Frequency (MHz)				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	3720	3840	3960		
Channel								
Frequency (MHz)				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	3715.02	3840	3955.01		
Channel								
Frequency (MHz)				3715.02	3840	3955.01	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.59	22.65	22.64	24.0	0.0
Channel								
Frequency (MHz)				3710.01	3840	3970.02	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.61	22.84	22.85	24.0	0.0
Channel								
Frequency (MHz)				647188	650000	654834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.82	22.84	22.88	24.0	0.0
Channel								
Frequency (MHz)				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	3705	3840	3975		
10	QPSK	1	0	22.05	22.87	22.87	24.0	0.0

Part270 n77 HPUe Ant 5

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Main Ch. / Freq	High Ch. / Freq		
Channel								
Frequency (MHz)				650000	650000	650000		
100	PI2 BPSK	1	1	25.61	25.76	25.76		
100	PI2 BPSK	1	137	25.61	25.66	25.71	27.0	0.0
100	PI2 BPSK	1	271	25.61	25.61	25.64		
100	PI2 BPSK	135	0	25.31	25.27	25.26	26.5	0.5
100	PI2 BPSK	135	69	25.60	25.64	25.61	27.0	0.0
100	PI2 BPSK	135	138	25.20	25.28	25.28		
100	PI2 BPSK	270	0	25.27	25.33	25.20	26.5	0.5
100	QPSK	1	1	25.76	25.82	25.77		
100	QPSK	1	137	25.53	25.71	25.60	27.0	0.0
100	QPSK	1	271	25.53	25.76	25.73		
100	QPSK	135	0	24.89	24.78	24.88	26.0	1.0
100	QPSK	135	69	25.73	25.70	25.74	27.0	0.0
100	QPSK	135	138	24.74	24.71	24.80		
100	QPSK	270	0	24.71	24.76	24.72	26.0	1.0
100	16QAM	1	1	24.80	24.70	24.71	26.0	1.0
100	16QAM	1	1	23.20	23.26	23.20	24.5	2.5
100	256QAM	1	1	21.21	21.28	21.33	22.5	4.5
Channel								
Frequency (MHz)				649668	650000	652334	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3745.02	3840	3925.01		
Channel								
Frequency (MHz)				649334	650000	652668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3740.01	3840	3940.02		
Channel								
Frequency (MHz)				3735	3840	3945	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	25.60	25.65	25.63	27.0	0.0
Channel								
Frequency (MHz)				648969	650000	652334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	25.66	25.71	25.65	27.0	0.0
Channel								
Frequency (MHz)				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	25.60	25.72	25.64	27.0	0.0
Channel								
Frequency (MHz)				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	3720	3840	3960		
Channel								
Frequency (MHz)				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	3715.02	3840	3955.01		
Channel								
Frequency (MHz)				3715.02	3840	3955.01	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	25.69	25.70	25.70	27.0	0.0
Channel								
Frequency (MHz)				3710.01	3840	3970.02	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	25.62	25.67	25.67	27.0	0.0
Channel								
Frequency (MHz)				647188	650000	654834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	25.59	25.70	25.61	27.0	0.0
Channel								
Frequency (MHz)				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	25.63	25.65	25.65	27.0	0.0



Part270 n78 Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mid Ch. / Freq	Power High Freq Ch. / Freq	Tune-up limit (dbm)	MFR (dB)	
Channel									
Frequency (MHz)									
100	P2/BPSK	1	1	3750	3750	3750			
100	P2/BPSK	1	137		22.62		24.0	0.0	
100	P2/BPSK	1	271		22.58				
100	P2/BPSK	135	0		22.18		23.5	0.5	
100	P2/BPSK	135	69		22.58		24.0	0.0	
100	P2/BPSK	135	138		22.23		23.5	0.5	
100	P2/BPSK	270	0		22.24				
100	QPSK	1	1		22.75				
100	QPSK	1	137		22.67		24.0	0.0	
100	QPSK	1	271		22.71				
100	QPSK	135	0		21.70		23.0	1.0	
100	QPSK	135	69		22.70		24.0	0.0	
100	QPSK	135	138		21.68		23.0	1.0	
100	QPSK	270	0		21.64				
100	16QAM	1	1		21.83		23.0	1.0	
100	64QAM	1	1		20.28		21.5	2.5	
100	256QAM	1	1		18.28		19.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3745.02	3750	3755.01			
Channel									
Frequency (MHz)									
80	QPSK	1	1	3740.01	3750	3760.02			
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.51	22.69	22.45	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.61	22.59	22.47	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.58	22.64	22.43	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.54	22.57	22.50	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.57	22.62	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.54	22.64	22.46	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.54	22.59	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.53	22.57	22.45	24.0	0.0	

Part270 n78 HPUE Ant 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mid Ch. / Freq	Power High Freq Ch. / Freq	Tune-up limit (dbm)	MFR (dB)	
Channel									
Frequency (MHz)									
100	P2/BPSK	1	1	3750	3750	3750			
100	P2/BPSK	1	137		25.62		27.0	0.0	
100	P2/BPSK	1	271		25.58				
100	P2/BPSK	135	0		25.21		26.5	0.5	
100	P2/BPSK	135	69		25.50		27.0	0.0	
100	P2/BPSK	135	138		25.24		26.5	0.5	
100	P2/BPSK	270	0		25.26				
100	QPSK	1	1		25.77				
100	QPSK	1	137		25.69		27.0	0.0	
100	QPSK	1	271		25.72				
100	QPSK	135	0		24.72		26.0	1.0	
100	QPSK	135	69		25.68		27.0	0.0	
100	QPSK	135	138		24.65		26.0	1.0	
100	QPSK	270	0		24.70				
100	16QAM	1	1		24.56		26.0	1.0	
100	64QAM	1	1		23.18		24.5	2.5	
100	256QAM	1	1		21.24		22.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3745.02	3750	3755.01			
Channel									
Frequency (MHz)									
80	QPSK	1	1	3740.01	3750	3760.02			
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.56	25.64	25.57	27.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.50	25.68	25.61	27.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.54	25.56	25.59	27.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.60	25.61	25.54	27.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.57	25.60	25.58	27.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.56	25.61	25.53	27.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.60	25.64	25.55	27.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	0	25.55	25.67	25.55	27.0	0.0	



Part270 n77 Ant 7

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)				650000	650000	662000		
100	Pi2 BPSK	1	1	22.48	22.54	22.48		
100	Pi2 BPSK	1	137	22.51	22.61	22.48	24.0	0.0
100	Pi2 BPSK	1	271	22.49	22.59	22.53		
100	Pi2 BPSK	136	0	22.10	22.10	22.17	23.5	0.5
100	Pi2 BPSK	136	69	22.06	22.02	22.02	24.0	0.0
100	Pi2 BPSK	136	138	22.05	22.16	22.09		
100	Pi2 BPSK	270	0	22.08	22.17	22.12	23.5	0.5
100	QPSK	1	1	22.59	22.68	22.62		
100	QPSK	1	137	22.51	22.54	22.37	24.0	0.0
100	QPSK	1	271	22.46	22.61	22.54		
100	QPSK	136	0	21.83	21.61	21.59	23.0	1.0
100	QPSK	136	69	22.53	22.02	22.50	24.0	0.0
100	QPSK	136	138	21.37	21.63	21.58		
100	QPSK	270	0	21.58	21.63	21.67	23.0	1.0
100	16QAM	1	1	21.58	21.63	21.59	23.0	1.0
100	16QAM	1	1	26.05	26.14	26.17	21.5	2.5
100	256QAM	1	1	18.04	18.13	18.17	19.5	4.5
Channel								
Frequency (MHz)				649668	650000	662334	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3740.02	3840	3925.01		
Channel								
Frequency (MHz)				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3740.01	3840	3940.02		
Channel								
Frequency (MHz)				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	22.45	22.50	22.53	24.0	0.0
Channel								
Frequency (MHz)				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	22.45	22.53	22.50	24.0	0.0
Channel								
Frequency (MHz)				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	22.41	22.52	22.52	24.0	0.0
Channel								
Frequency (MHz)				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	3720	3840	3960		
Channel								
Frequency (MHz)				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.51	22.57	22.56	24.0	0.0
Channel								
Frequency (MHz)				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.46	22.50	22.49	24.0	0.0
Channel								
Frequency (MHz)				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.50	22.56	22.47	24.0	0.0
Channel								
Frequency (MHz)				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	3705	3840	3975		
10	QPSK	1	0	22.43	22.58	22.45	24.0	0.0

Part270 n77 HPUE Ant 7

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)				650000	650000	662000		
100	Pi2 BPSK	1	1	25.48	25.53	25.50		
100	Pi2 BPSK	1	137	25.54	25.61	25.44	27.0	0.0
100	Pi2 BPSK	1	271	25.53	25.61	25.52		
100	Pi2 BPSK	136	0	25.12	25.11	25.17	26.5	0.5
100	Pi2 BPSK	136	69	25.00	25.37	25.48	27.0	0.0
100	Pi2 BPSK	136	138	25.01	25.22	25.05		
100	Pi2 BPSK	270	0	25.05	25.14	25.17	26.5	0.5
100	QPSK	1	1	25.80	25.89	25.89		
100	QPSK	1	137	25.88	25.97	25.84	27.0	0.0
100	QPSK	1	271	25.45	25.56	25.53		
100	QPSK	136	0	24.80	24.65	24.85	26.0	1.0
100	QPSK	136	69	26.49	26.56	26.56	27.0	0.0
100	QPSK	136	138	24.32	24.62	24.92		
100	QPSK	270	0	24.59	24.71	24.65	26.0	1.0
100	16QAM	1	1	24.51	24.68	24.85	26.0	1.0
100	16QAM	1	1	23.09	23.14	23.20	24.5	2.5
100	256QAM	1	1	21.01	21.10	21.15	22.5	4.5
Channel								
Frequency (MHz)				649668	650000	662334	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3740.02	3840	3925.01		
Channel								
Frequency (MHz)				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3740.01	3840	3940.02		
Channel								
Frequency (MHz)				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	25.51	25.63	25.51	27.0	0.0
Channel								
Frequency (MHz)				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	25.47	25.63	25.54	27.0	0.0
Channel								
Frequency (MHz)				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	25.48	25.65	25.47	27.0	0.0
Channel								
Frequency (MHz)				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	25.55	25.59	25.43	27.0	0.0
Channel								
Frequency (MHz)				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	25.50	25.60	25.55	27.0	0.0
Channel								
Frequency (MHz)				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	25.46	25.57	25.50	27.0	0.0
Channel								
Frequency (MHz)				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	25.56	25.65	25.50	27.0	0.0
Channel								
Frequency (MHz)				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	25.53	25.60	25.45	27.0	0.0



Part270 n78 Ant 7									
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)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137		22.43				
100	PI2 BPSK	1	271		22.52				
100	PI2 BPSK	135	0		22.07		24.0	0.0	
100	PI2 BPSK	135	69		22.48		24.0	0.0	
100	PI2 BPSK	135	138		22.04				
100	PI2 BPSK	270	0		22.05		23.5	0.5	
100	QPSK	1	1		22.99				
100	QPSK	1	137		22.42		24.0	0.0	
100	QPSK	1	271		22.51				
100	QPSK	135	0		21.51		23.0	1.0	
100	QPSK	135	69		21.58		24.0	0.0	
100	QPSK	135	138		21.58				
100	QPSK	270	0		21.60		23.0	1.0	
100	16QAM	1	1		21.54		23.0	1.0	
100	64QAM	1	1		20.90		21.5	2.5	
100	256QAM	1	1		18.01		19.5	4.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	64868	65000	65034	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3745.02	3750	3755.01	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.33	22.45	22.35	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.33	22.44	22.43	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.28	22.39	22.48	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.33	22.42	22.36	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.34	22.42	22.47	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.35	22.51	22.36	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.28	22.48	22.43	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.28	22.50	22.38	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.28	22.50	22.43	Tune-up limit (dBm)	MFR (dB)	

Part270 n78 HPUE Ant 7									
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)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137		25.40				
100	PI2 BPSK	1	271		25.51				
100	PI2 BPSK	135	0		25.01		26.5	0.5	
100	PI2 BPSK	135	69		25.47		27.0	0.0	
100	PI2 BPSK	135	138		25.18				
100	PI2 BPSK	270	0		25.04		26.5	0.5	
100	QPSK	1	1		25.42				
100	QPSK	1	137		25.44		27.0	0.0	
100	QPSK	1	271		25.48				
100	QPSK	135	0		24.61		26.0	1.0	
100	QPSK	135	69		25.48		27.0	0.0	
100	QPSK	135	138		24.50				
100	QPSK	270	0		24.58		26.0	1.0	
100	16QAM	1	1		24.57		26.0	1.0	
100	64QAM	1	1		23.98		24.5	2.5	
100	256QAM	1	1		21.05		22.5	4.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	64868	65000	65034	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3745.02	3750	3755.01	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.33	25.55	25.51	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.42	25.53	25.40	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.32	25.57	25.44	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.33	25.54	25.48	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.33	25.54	25.50	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.32	25.48	25.50	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.34	25.53	25.50	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.38	25.55	25.47	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	25.38	25.55	25.49	Tune-up limit (dBm)	MFR (dB)	



Part270 n77 Ant 8

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Main Ch. / Freq	High Ch. / Freq		
Channel								
Frequency (MHz)				650000	650000	650000		
100	PI2 BPSK	1	1	22.18	22.15	22.11		
100	PI2 BPSK	1	137	22.13	22.21	22.17	24.0	0.0
100	PI2 BPSK	1	271	22.18	22.14	22.13		
100	PI2 BPSK	135	0	21.73	21.82	21.70	23.5	0.5
100	PI2 BPSK	135	69	22.14	22.04	22.21	24.0	0.0
100	PI2 BPSK	135	138	21.73	21.82	21.72		
100	PI2 BPSK	270	0	21.09	21.82	21.74	23.5	0.5
100	QPSK	1	1	22.23	22.29	22.25		
100	QPSK	1	137	22.12	22.15	22.12	24.0	0.0
100	QPSK	1	271	22.09	22.17	22.19		
100	QPSK	135	0	21.18	21.23	21.24	23.0	1.0
100	QPSK	135	69	22.13	22.26	22.11	24.0	0.0
100	QPSK	135	138	21.25	21.27	21.20		
100	QPSK	270	0	21.23	21.34	21.22	23.0	1.0
100	16QAM	1	1	21.26	21.28	21.28	23.0	1.0
100	16QAM	1	1	18.74	18.77	18.81	21.5	2.5
100	256QAM	1	1	17.72	17.75	17.76	19.5	4.5
Channel								
Frequency (MHz)				649668	650000	652334	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3742.02	3840	3925.01		
Channel								
Frequency (MHz)				649334	650000	652668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3740.01	3840	3940.02		
Channel								
Frequency (MHz)				3735	3840	3945	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	22.16	22.21	22.13	24.0	0.0
Channel								
Frequency (MHz)				648969	650000	653334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	22.12	22.22	22.17	24.0	0.0
Channel								
Frequency (MHz)				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	22.16	22.25	22.21	24.0	0.0
Channel								
Frequency (MHz)				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	3720	3840	3960		
Channel								
Frequency (MHz)				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	3718.02	3840	3955.01		
Channel								
Frequency (MHz)				3718.02	3840	3955.01	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.16	22.17	22.14	24.0	0.0
Channel								
Frequency (MHz)				3710.01	3840	3970.02	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.11	22.15	22.16	24.0	0.0
Channel								
Frequency (MHz)				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.11	22.18	22.21	24.0	0.0
Channel								
Frequency (MHz)				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	3705	3840	3975		
10	QPSK	1	0	22.11	22.18	22.16	24.0	0.0

Part270 n77 HPUE Ant 8

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Main Ch. / Freq	High Ch. / Freq		
Channel								
Frequency (MHz)				650000	650000	650000		
100	PI2 BPSK	1	1	25.16	25.21	25.16		
100	PI2 BPSK	1	137	25.15	25.26	25.15	27.0	0.0
100	PI2 BPSK	1	271	25.24	25.17	25.11		
100	PI2 BPSK	135	0	24.87	24.84	24.74	26.5	0.5
100	PI2 BPSK	135	69	25.15	25.25	25.22	27.0	0.0
100	PI2 BPSK	135	138	24.77	24.83	24.77		
100	PI2 BPSK	270	0	24.68	24.81	24.71	26.5	0.5
100	QPSK	1	1	25.24	25.26	25.24		
100	QPSK	1	137	25.08	25.16	25.18	27.0	0.0
100	QPSK	1	271	25.10	25.22	25.16		
100	QPSK	135	0	24.19	24.22	24.26	26.0	1.0
100	QPSK	135	69	25.14	25.19	25.12	27.0	0.0
100	QPSK	135	138	24.25	24.30	24.23		
100	QPSK	270	0	24.23	24.31	24.25	26.0	1.0
100	16QAM	1	1	24.21	24.22	24.23	26.0	1.0
100	16QAM	1	1	22.74	22.72	22.78	24.5	2.5
100	256QAM	1	1	20.77	20.75	20.70	22.5	4.5
Channel								
Frequency (MHz)				649668	650000	652334	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3742.02	3840	3925.01		
Channel								
Frequency (MHz)				649334	650000	652668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3740.01	3840	3940.02		
Channel								
Frequency (MHz)				3735	3840	3945	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	25.10	25.19	25.11	27.0	0.0
Channel								
Frequency (MHz)				648969	650000	653334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	25.17	25.24	25.19	27.0	0.0
Channel								
Frequency (MHz)				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	25.19	25.24	25.14	27.0	0.0
Channel								
Frequency (MHz)				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	3720	3840	3960		
Channel								
Frequency (MHz)				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	3718.02	3840	3955.01		
Channel								
Frequency (MHz)				3718.02	3840	3955.01	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	25.14	25.22	25.14	27.0	0.0
Channel								
Frequency (MHz)				3710.01	3840	3970.02	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	25.09	25.22	25.14	27.0	0.0
Channel								
Frequency (MHz)				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	25.12	25.15	25.11	27.0	0.0
Channel								
Frequency (MHz)				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	25.21	25.20	25.20	27.0	0.0



Part270 n78 Ant 8									
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				650000	650000	650000			
Channel									
Frequency (MHz)									
100	P2/BPSK	1	1	3750	3750	3750			
100	P2/BPSK	1	137	22.07	22.06		24.0	0.0	
100	P2/BPSK	1	271		22.03				
100	P2/BPSK	135	0	21.76			23.5	0.5	
100	P2/BPSK	135	69	22.20			24.0	0.0	
100	P2/BPSK	135	138	21.73			23.5	0.5	
100	P2/BPSK	270	0	21.74					
100	QPSK	1	1	22.22					
100	QPSK	1	137	22.01			24.0	0.0	
100	QPSK	1	271	21.11					
100	QPSK	135	0	21.16			23.0	1.0	
100	QPSK	135	69	22.12			24.0	0.0	
100	QPSK	135	138	21.17			23.0	1.0	
100	QPSK	270	0	21.28					
100	16QAM	1	1	21.15			23.0	1.0	
100	64QAM	1	1	19.71			21.5	2.5	
100	256QAM	1	1	17.71			19.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3745.02	3750	3755.01			
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.02	22.01	22.01	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.06	22.17	22.08	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.03	22.13	22.01	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.02	22.15	22.07	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.02	22.05	22.05	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.02	22.09	22.10	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.06	22.16	22.05	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.05	22.13	22.02	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.01	22.12	22.01	24.0	0.0	

Part270 n78 HPUE Ant 8									
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				650000	650000	650000			
Channel									
Frequency (MHz)									
100	P2/BPSK	1	1	3750	3750	3750			
100	P2/BPSK	1	137	25.17			27.0	0.0	
100	P2/BPSK	1	271		25.10				
100	P2/BPSK	135	0	24.70			26.5	0.5	
100	P2/BPSK	135	69	25.16			27.0	0.0	
100	P2/BPSK	135	138	24.76			26.5	0.5	
100	P2/BPSK	270	0	24.69					
100	QPSK	1	1	25.23					
100	QPSK	1	137	25.05			27.0	0.0	
100	QPSK	1	271	25.18					
100	QPSK	135	0	24.18			26.0	1.0	
100	QPSK	135	69	25.13			27.0	0.0	
100	QPSK	135	138	24.17			26.0	1.0	
100	QPSK	270	0	24.24					
100	16QAM	1	1	24.08			26.0	1.0	
100	64QAM	1	1	22.68			24.5	2.5	
100	256QAM	1	1	20.67			22.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3745.02	3750	3755.01			
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.01	25.20	25.07	27.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.07	25.17	25.03	27.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.11	25.10	25.05	27.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.04	25.15	25.05	27.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.11	25.18	25.09	27.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.10	25.10	25.04	27.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.16	25.20	25.06	27.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.04	25.10	25.01	27.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	25.02	25.15	25.03	27.0	0.0	



n38 Ant 10								
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)				516004	516000	519996		
40	P2/BPSK	1	1	22.61	22.82	22.73		
40	P2/BPSK	1	53	22.68	22.77	22.70	24.0	0.0
40	P2/BPSK	1	104	22.82	22.68	22.61		
40	P2/BPSK	50	0	22.15	22.24	22.15	23.5	0.5
40	P2/BPSK	50	59	22.58	22.68	22.58	24.0	0.0
40	P2/BPSK	50	55	22.40	22.48	22.33	23.5	0.5
40	P2/BPSK	100	0	22.30	22.41	22.31		
40	QPSK	1	1	22.81	22.91	22.90		
40	QPSK	1	53	22.63	22.75	22.65	24.0	0.0
40	QPSK	1	104	22.70	22.84	22.70		
40	QPSK	50	0	21.81	21.89	21.82	23.0	1.0
40	QPSK	50	28	22.78	22.78	22.69	24.0	0.0
40	QPSK	50	50	21.79	21.86	21.74	23.0	1.0
40	QPSK	100	0	21.69	21.81	21.69		
40	16QAM	1	1	21.80	21.88	21.77	23.0	1.0
40	64QAM	1	1	20.32	20.45	20.29	21.5	2.5
40	256QAM	1	1	18.46	18.52	18.38	19.5	4.5
Channel								
Frequency (MHz)				517002	516000	509998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2535.01	2595	2504.99	(dB)	
30	QPSK	1	1	22.54	22.60	22.60	24.0	0.0
Channel								
Frequency (MHz)				516000	519000	522000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2560	2595	2610	(dB)	
20	QPSK	1	1	22.51	22.74	22.62	24.0	0.0
Channel								
Frequency (MHz)				515002	519000	529998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2877.51	2955	2812.49	(dB)	
15	QPSK	1	1	22.51	22.72	22.60	24.0	0.0
Channel								
Frequency (MHz)				515004	519000	529996	Tune-up limit (dBm)	MPR
Frequency (MHz)				2919.02	2955	2814.98	(dB)	
10	QPSK	1	1	22.48	22.73	22.59	24.0	0.0

n41 Ant 10								
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)				509002	518598	526000		
100	P2/BPSK	1	1	22.81	22.92	22.81		
100	P2/BPSK	1	137	22.74	22.79	22.72	24.0	0.0
100	P2/BPSK	1	271	22.72	22.79	22.72		
100	P2/BPSK	135	0	22.42	22.46	22.27	23.5	0.5
100	P2/BPSK	135	69	22.74	22.81	22.75	24.0	0.0
100	P2/BPSK	135	138	22.46	22.54	22.48	23.5	0.5
100	P2/BPSK	270	0	22.35	22.41	22.34		
100	QPSK	1	1	22.81	22.91	22.88		
100	QPSK	1	137	22.69	22.81	22.75	24.0	0.0
100	QPSK	1	271	22.68	22.83	22.79		
100	QPSK	135	0	21.81	21.95	21.81	23.0	1.0
100	QPSK	135	69	22.78	22.88	22.72	24.0	0.0
100	QPSK	135	138	21.83	21.80	21.79	23.0	1.0
100	QPSK	270	0	21.77	21.84	21.69		
100	16QAM	1	1	21.84	21.90	21.78	23.0	1.0
100	64QAM	1	1	20.40	20.53	20.39	21.5	2.5
100	256QAM	1	1	18.25	18.38	18.33	19.5	4.5
Channel								
Frequency (MHz)				508000	518598	526998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2341	2392.99	2344.98	(dB)	
80	QPSK	1	1	22.60	22.72	22.64	24.0	0.0
Channel								
Frequency (MHz)				507004	518598	529998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2638.02	2692.99	2649.99	(dB)	
80	QPSK	1	1	22.65	22.75	22.60	24.0	0.0
Channel								
Frequency (MHz)				506002	518598	531000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2631.01	2692.99	2655	(dB)	
70	QPSK	1	1	22.75	22.83	22.75	24.0	0.0
Channel								
Frequency (MHz)				505000	518598	531996	Tune-up limit (dBm)	MPR
Frequency (MHz)				2595	2692.99	2659.98	(dB)	
60	QPSK	1	1	22.62	22.76	22.65	24.0	0.0
Channel								
Frequency (MHz)				504004	518598	532998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2591.02	2692.99	2654.99	(dB)	
50	QPSK	1	1	22.59	22.77	22.67	24.0	0.0
Channel								
Frequency (MHz)				503002	518598	534000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2518.01	2692.99	2670	(dB)	
40	QPSK	1	1	22.62	22.65	22.61	24.0	0.0
Channel								
Frequency (MHz)				502000	518598	534996	Tune-up limit (dBm)	MPR
Frequency (MHz)				2511	2692.99	2674.98	(dB)	
30	QPSK	1	1	22.60	22.71	22.61	24.0	0.0
Channel								
Frequency (MHz)				501004	518598	535998	Tune-up limit (dBm)	MPR
Frequency (MHz)				2508.02	2692.99	2678.99	(dB)	
20	QPSK	1	1	22.63	22.68	22.69	24.0	0.0
Channel								
Frequency (MHz)				500700	518598	536496	Tune-up limit (dBm)	MPR
Frequency (MHz)				2503.05	2692.99	2682.48	(dB)	
15	QPSK	1	1	22.64	22.69	22.70	24.0	0.0
Channel								
Frequency (MHz)				500002	518598	537000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2501.01	2692.99	2685	(dB)	
10	QPSK	1	1	22.63	22.73	22.65	24.0	0.0



n2 Ant 1

Channel	Frequency (MHz)	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel						
Frequency (MHz)						
20	PI2 BPSK	1	1	21.37	21.48	21.41
20	PI2 BPSK	1	53	21.34	21.37	21.35
20	PI2 BPSK	1	104	21.22	21.44	21.28
20	PI2 BPSK	50	0	20.90	20.99	21.01
20	PI2 BPSK	50	28	21.27	21.35	21.36
20	PI2 BPSK	50	56	20.79	20.99	20.87
20	PI2 BPSK	100	0	20.89	21.04	20.88
20	QPSK	1	1	21.44	21.49	21.39
20	QPSK	1	53	21.34	21.35	21.31
20	QPSK	1	104	21.27	21.32	21.19
20	QPSK	50	0	20.38	20.51	20.46
20	QPSK	50	28	21.31	21.42	21.26
20	QPSK	50	56	20.45	20.45	20.37
20	QPSK	100	0	20.43	20.51	20.36
20	16QAM	1	1	20.42	20.53	20.46
20	64QAM	1	1	19.09	18.17	18.04
20	256QAM	1	1	17.36	17.46	17.35
Channel						
Frequency (MHz)						
15	QPSK	1	1	21.33	21.37	21.25
Channel						
Frequency (MHz)						
10	QPSK	1	1	21.38	21.41	21.25
Channel						
Frequency (MHz)						
5	QPSK	1	1	21.30	21.35	21.36

Full&Default Power Mode Other PA

n7 Ant 1

Channel	Frequency (MHz)	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel						
Frequency (MHz)						
40	PI2 BPSK	1	1	21.02	21.04	20.92
40	PI2 BPSK	1	108	20.90	21.01	20.92
40	PI2 BPSK	1	214	20.92	20.93	20.91
40	PI2 BPSK	108	0	20.38	20.55	20.41
40	PI2 BPSK	108	54	20.84	20.93	20.89
40	PI2 BPSK	108	108	20.24	20.46	20.32
40	PI2 BPSK	216	0	20.36	20.42	20.38
40	QPSK	1	1	21.02	21.14	21.08
40	QPSK	1	108	20.98	20.92	20.88
40	QPSK	1	214	20.97	21.03	21.00
40	QPSK	108	0	20.01	20.02	19.93
40	QPSK	108	54	21.01	21.07	20.93
40	QPSK	108	108	19.83	19.88	19.73
40	QPSK	216	0	19.95	19.91	19.86
40	16QAM	1	1	19.66	19.78	19.72
40	64QAM	1	1	18.57	18.54	18.48
40	256QAM	1	1	18.46	18.52	18.48
Channel						
Frequency (MHz)						
30	QPSK	1	1	20.89	21.02	21.04
Channel						
Frequency (MHz)						
25	QPSK	1	1	20.96	21.01	21.05
Channel						
Frequency (MHz)						
20	QPSK	1	1	20.99	21.11	21.01
Channel						
Frequency (MHz)						
15	QPSK	1	1	20.90	21.02	20.98
Channel						
Frequency (MHz)						
10	QPSK	1	1	20.98	21.04	20.99
Channel						
Frequency (MHz)						
5	QPSK	1	1	20.91	21.00	20.94

n66 Ant 1

Channel	Frequency (MHz)	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel						
Frequency (MHz)						
40	PI2 BPSK	1	1	22.44	22.46	22.42
40	PI2 BPSK	1	108	22.24	22.49	22.33
40	PI2 BPSK	1	214	22.35	22.41	22.37
40	PI2 BPSK	108	0	22.14	22.16	22.15
40	PI2 BPSK	108	54	22.22	22.41	22.34
40	PI2 BPSK	108	108	21.99	22.01	21.96
40	PI2 BPSK	216	0	21.89	22.03	21.78
40	QPSK	1	1	22.44	22.58	22.38
40	QPSK	1	108	22.27	22.40	22.31
40	QPSK	1	214	22.38	22.43	22.26
40	QPSK	108	0	21.39	21.53	21.48
40	QPSK	108	54	22.24	22.36	22.29
40	QPSK	108	108	21.49	21.55	21.55
40	QPSK	216	0	21.29	21.38	21.30
40	16QAM	1	1	21.27	21.44	21.26
40	64QAM	1	1	19.82	19.90	19.74
40	256QAM	1	1	18.40	18.49	18.32
Channel						
Frequency (MHz)						
35	QPSK	1	1	22.40	22.50	22.27
Channel						
Frequency (MHz)						
30	QPSK	1	1	22.31	22.47	22.30
Channel						
Frequency (MHz)						
25	QPSK	1	1	22.41	22.51	22.31
Channel						
Frequency (MHz)						
20	QPSK	1	1	22.29	22.48	22.24
Channel						
Frequency (MHz)						
15	QPSK	1	1	22.34	22.54	22.32
Channel						
Frequency (MHz)						
10	QPSK	1	1	22.35	22.45	22.30
Channel						
Frequency (MHz)						
5	QPSK	1	1	22.31	22.50	22.34



n2 Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel				1860	1880	1900	
Frequency (MHz)				37200	37200	38000	
20	PI/2 BPSK	1	1	21.54	21.61	21.45	
20	PI/2 BPSK	1	53	21.36	21.48	21.35	23.0
20	PI/2 BPSK	1	104	21.39	21.48	21.39	
20	PI/2 BPSK	50	0	20.97	21.13	21.01	22.5
20	PI/2 BPSK	50	28	21.30	21.51	21.48	23.0
20	PI/2 BPSK	50	56	20.88	21.00	21.01	22.5
20	PI/2 BPSK	100	0	20.92	20.94	20.83	0.0
20	QPSK	1	1	21.60	21.67	21.57	
20	QPSK	1	53	21.42	21.44	21.48	23.0
20	QPSK	1	104	21.51	21.54	21.48	
20	QPSK	50	0	20.50	20.57	20.51	22.0
20	QPSK	50	28	21.49	21.50	21.49	23.0
20	QPSK	80	56	20.31	20.55	20.38	22.0
20	QPSK	100	0	20.35	20.57	20.42	22.0
20	16QAM	1	1	20.17	20.20	20.08	22.0
20	16QAM	1	1	18.89	18.94	18.92	20.5
20	256QAM	1	1	17.19	17.27	17.24	18.5
Channel				37150	37000	36500	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	1	21.53	21.59	21.51	23.0
Channel				371000	376000	381000	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	1	21.47	21.55	21.48	23.0
Channel				370500	375000	381500	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	1	21.51	21.58	21.47	23.0

n66 Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel				34500	34900	35300	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	21.28	21.42	21.33	
40	PI/2 BPSK	1	108	21.30	21.35	21.27	23.0
40	PI/2 BPSK	1	214	21.34	21.38	21.29	
40	PI/2 BPSK	108	0	20.96	20.95	21.00	22.5
40	PI/2 BPSK	108	54	21.27	21.40	21.27	23.0
40	PI/2 BPSK	108	108	20.86	20.91	20.80	22.5
40	PI/2 BPSK	216	0	20.92	20.97	20.85	0.0
40	QPSK	1	1	21.40	21.49	21.39	
40	QPSK	1	108	21.25	21.44	21.39	23.0
40	QPSK	1	214	21.33	21.45	21.42	
40	QPSK	108	0	20.33	20.52	20.31	22.0
40	QPSK	108	54	21.33	21.42	21.28	23.0
40	QPSK	108	108	20.33	20.37	20.34	22.0
40	QPSK	216	0	20.23	20.39	20.29	22.0
40	16QAM	1	1	20.22	20.19	20.11	22.0
40	16QAM	1	1	18.65	18.73	18.64	20.5
40	256QAM	1	1	17.13	17.25	17.16	18.5
Channel				34550	34900	35250	
Frequency (MHz)				1722.5	1745	1762.5	
35	QPSK	1	1	21.31	21.36	21.32	23.0
Channel				345000	349000	353000	
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	21.30	21.42	21.34	23.0
Channel				344500	349000	353500	
Frequency (MHz)				1722.5	1745	1767.5	
25	QPSK	1	1	21.31	21.42	21.31	23.0
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	21.27	21.42	21.34	23.0
Channel				343500	349000	354500	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	21.30	21.40	21.31	23.0
Channel				343000	349000	355000	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	21.35	21.40	21.30	23.0
Channel				342500	349000	355500	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	21.32	21.43	21.24	23.0



Reduced Power Mode for DSI2

n5 Ant 0 DSI2									
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	838.5	839			
20	PI/2 BPSK	1	1	22.60	22.70	22.82	24.0	0.0	
20	PI/2 BPSK	1	53	22.54	22.71	22.71			
20	PI/2 BPSK	1	104	22.53	22.76	22.72			
20	PI/2 BPSK	50	0	22.15	22.32	22.24	23.5	0.5	
20	PI/2 BPSK	50	28	22.52	22.71	22.66	24.0	0.0	
20	PI/2 BPSK	50	56	22.11	22.31	22.28	23.5	0.5	
20	PI/2 BPSK	100	0	22.18	22.33	22.29			
20	QPSK	1	1	22.66	22.60	22.77			
20	QPSK	1	53	22.50	22.64	22.64	24.0	0.0	
20	QPSK	1	104	22.53	22.70	22.61	23.0	1.0	
20	QPSK	50	0	21.63	21.74	21.71			
20	QPSK	50	28	22.56	22.73	22.63			
20	QPSK	50	56	21.65	21.81	21.76	23.0	1.0	
20	QPSK	100	0	21.70	21.79	21.75	23.0	1.0	
20	16QAM	1	1	21.71	21.78	21.76			
20	64QAM	1	1	20.15	20.27	20.28			
20	256QAM	1	1	18.14	18.34	18.22	19.5	4.5	
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR	
Frequency (MHz)				831.5	838.5	841.5	24.0	0.0	
15	QPSK	1	1	22.37	22.53	22.44	24.0	0.0	
Channel				165900	167300	168800	Tune-up limit (dBm)	MPR	
Frequency (MHz)				829	838.5	844	24.0	0.0	
10	QPSK	1	1	22.32	22.53	22.53	24.0	0.0	
Channel				165300	167300	165300	Tune-up limit (dBm)	MPR	
Frequency (MHz)				826.5	838.5	846.5	24.0	0.0	
5	QPSK	1	1	22.32	22.52	22.49	24.0	0.0	

n26 Ant 0 DSI2									
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			
Frequency (MHz)				824	831.5	839			
20	PI/2 BPSK	1	1	22.73	22.78	22.89	24.0	0.0	
20	PI/2 BPSK	1	53	22.69	22.73	22.67			
20	PI/2 BPSK	1	104	22.73	22.82	22.88			
20	PI/2 BPSK	50	0	22.25	22.37	22.27	23.5	0.5	
20	PI/2 BPSK	50	28	22.67	22.76	22.63	24.0	0.0	
20	PI/2 BPSK	50	56	22.36	22.32	22.24	23.5	0.5	
20	PI/2 BPSK	100	0	22.30	22.39	22.27			
20	QPSK	1	1	22.80	22.86	22.76			
20	QPSK	1	53	22.72	22.80	22.66	24.0	0.0	
20	QPSK	1	104	22.74	22.81	22.70	23.0	1.0	
20	QPSK	50	0	21.78	21.92	21.79			
20	QPSK	50	28	22.67	22.71	22.68			
20	QPSK	50	56	21.79	21.81	21.79	23.0	1.0	
20	QPSK	100	0	21.74	21.85	21.75	23.0	1.0	
20	16QAM	1	1	21.74	21.84	21.76			
20	64QAM	1	1	20.34	20.39	20.24			
20	256QAM	1	1	18.30	18.38	18.32	19.5	4.5	
Channel				164900	166300	166300	Tune-up limit (dBm)	MPR	
Frequency (MHz)				831.5	831.5	841.5	24.0	0.0	
15	QPSK	1	1	22.53	22.54	22.50	24.0	0.0	
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR	
Frequency (MHz)				819	831.5	844	24.0	0.0	
10	QPSK	1	1	22.51	22.59	22.46	24.0	0.0	
Channel				163300	166300	163300	Tune-up limit (dBm)	MPR	
Frequency (MHz)				816.5	831.5	846.5	24.0	0.0	
5	QPSK	1	1	22.46	22.55	22.41	24.0	0.0	



n38 Ant 0 DSI2								
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				2590.02	2595	2599.98		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	20.68	20.76	20.87		
40	PI/2 BPSK	1	53	20.72	20.69	20.75	22.0	0.0
40	PI/2 BPSK	1	104	20.71	20.80	20.89		
40	PI/2 BPSK	50	0	20.29	20.37	20.32	21.5	0.5
40	PI/2 BPSK	50	28	20.67	20.70	20.75	22.0	0.0
40	PI/2 BPSK	50	56	20.32	20.32	20.29	21.5	0.5
40	PI/2 BPSK	100	0	20.28	20.30	20.30		
40	QPSK	1	1	20.81	20.85	20.82		
40	QPSK	1	53	20.67	20.79	20.69	22.0	0.0
40	QPSK	1	104	20.73	20.81	20.73		
40	QPSK	50	0	19.80	19.79	19.80	21.0	1.0
40	QPSK	50	28	20.70	20.78	20.75	22.0	0.0
40	QPSK	80	56	19.77	19.86	19.84	21.0	1.0
40	QPSK	100	0	19.83	19.91	19.82		
40	16QAM	1	1	19.83	19.83	19.77	21.0	1.0
40	16QAM	1	1	18.28	18.32	18.38	19.5	2.5
40	256QAM	1	1	18.30	18.41	18.31	17.5	4.5
Channel				5170.02	5190.00	5209.98	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				5170.02	5190.00	5209.98		
30	QPSK	1	1	20.54	20.58	20.53	22.0	0.0
Channel				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				516000	519000	520000		
20	QPSK	1	1	20.55	20.59	20.48	22.0	0.0
Channel				515502	519000	522498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				515502	519000	522498		
15	QPSK	1	1	20.56	20.55	20.58	22.0	0.0
Channel				515004	519000	522998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				515004	519000	522998		
10	QPSK	1	1	20.48	20.51	20.54	22.0	0.0

n41 Ant 0 DSI2								
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				2546.01	2592.99	2640		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	20.76	20.88	20.86		
100	PI/2 BPSK	1	137	20.79	20.83	20.81	22.0	0.0
100	PI/2 BPSK	1	271	20.74	20.86	20.85		
100	PI/2 BPSK	135	0	20.42	20.48	20.38	21.5	0.5
100	PI/2 BPSK	135	69	20.83	20.88	20.84	22.0	0.0
100	PI/2 BPSK	135	138	20.41	20.44	20.43	21.5	0.5
100	PI/2 BPSK	270	0	20.38	20.38	20.41		
100	QPSK	1	1	20.89	20.94	20.91		
100	QPSK	1	137	20.75	20.84	20.77	22.0	0.0
100	QPSK	1	271	20.81	20.84	20.80		
100	QPSK	135	0	19.94	19.95	19.89	21.0	1.0
100	QPSK	135	69	20.78	20.85	20.81	22.0	0.0
100	QPSK	135	138	19.92	19.99	19.86	21.0	1.0
100	QPSK	270	0	19.93	19.97	19.82		
100	16QAM	1	1	19.84	19.92	19.82	21.0	1.0
100	16QAM	1	1	18.36	18.43	18.43	19.5	2.5
100	256QAM	1	1	18.41	18.42	18.39	17.5	4.5
Channel				509200	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				509200	518598	529998		
90	QPSK	1	1	20.61	20.61	20.60	22.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				507204	518598	529998		
80	QPSK	1	1	20.60	20.69	20.58	22.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				506202	518598	531000		
70	QPSK	1	1	20.82	20.83	20.82	22.0	0.0
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				505200	518598	531998		
60	QPSK	1	1	20.65	20.59	20.56	22.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	20.61	20.60	20.63	22.0	0.0
Channel				503202	518598	533000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				503202	518598	533000		
40	QPSK	1	1	20.64	20.60	20.58	22.0	0.0
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				502200	518598	534998		
30	QPSK	1	1	20.61	20.63	20.59	22.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				501204	518598	535998		
20	QPSK	1	1	20.60	20.65	20.60	22.0	0.0
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				500700	518598	536498		
15	QPSK	1	1	20.55	20.63	20.58	22.0	0.0
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				500202	518598	537000		
10	QPSK	1	1	20.59	20.69	20.65	22.0	0.0



n2 Ant 1 DSI2

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)				1860	1860	1900		
20	PI2 BPSK	1	1	15.96	16.04	16.01		
20	PI2 BPSK	1	53	15.99	16.08	16.07	17.5	0.0
20	PI2 BPSK	1	104	16.07	16.06	15.97		
20	PI2 BPSK	50	0	16.04	16.07	16.07	17.5	0.0
20	PI2 BPSK	50	28	16.06	16.01	16.04	17.5	0.0
20	PI2 BPSK	50	58	15.98	16.08	15.97	17.5	0.0
20	PI2 BPSK	100	0	15.98	16.09	16.01		
20	QPSK	1	1	16.10	16.16	16.12		
20	QPSK	1	53	15.95	16.12	15.99	17.5	0.0
20	QPSK	1	104	16.07	16.10	16.08		
20	QPSK	50	0	15.97	16.01	15.98	17.5	0.0
20	QPSK	50	28	15.99	16.13	16.07	17.5	0.0
20	QPSK	50	58	15.96	16.04	15.98	17.5	0.0
20	QPSK	100	0	16.00	16.07	16.01	17.5	0.0
20	16QAM	1	1	16.05	16.04	16.00	17.5	0.0
20	16QAM	1	1	15.97	16.04	16.07	17.5	0.0
20	256QAM	1	1	16.04	16.03	15.97	17.5	0.0
Channel								
Frequency (MHz)				37000	37000	38000	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	16.04	16.06	15.98	17.5	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	16.04	16.02	15.99	17.5	0.0
Channel								
Frequency (MHz)				375000	376000	381500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	16.00	16.10	16.08	17.5	0.0

n5 Ant 1 DSI2

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)				834	836.5	839		
20	PI2 BPSK	1	1	21.26	21.29	21.23		
20	PI2 BPSK	1	53	21.26	21.29	21.35	23.0	0.0
20	PI2 BPSK	1	104	21.22	21.32	21.26		
20	PI2 BPSK	50	0	21.17	21.23	21.28	23.0	0.0
20	PI2 BPSK	50	28	21.26	21.34	21.30	23.0	0.0
20	PI2 BPSK	50	58	21.35	21.30	21.29	23.0	0.0
20	PI2 BPSK	100	0	21.19	21.30	21.33		
20	QPSK	1	1	21.40	21.46	21.40		
20	QPSK	1	53	21.28	21.33	21.31	23.0	0.0
20	QPSK	1	104	21.20	21.28	21.29		
20	QPSK	50	0	21.24	21.40	21.23	23.0	0.0
20	QPSK	50	28	21.31	21.34	21.31	23.0	0.0
20	QPSK	50	58	21.19	21.21	21.27	23.0	0.0
20	QPSK	100	0	21.34	21.38	21.37	23.0	0.0
20	16QAM	1	1	21.19	21.32	21.31	23.0	0.0
20	16QAM	1	1	19.88	19.86	19.94	21.5	1.5
20	256QAM	1	1	17.80	17.92	17.89	19.5	3.5
Channel								
Frequency (MHz)				165300	167300	168300	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	21.32	21.33	21.32	23.0	0.0
Channel								
Frequency (MHz)				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	21.28	21.31	21.22	23.0	0.0
Channel								
Frequency (MHz)				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	21.29	21.29	21.29	23.0	0.0

n7 Ant 1 DSI2

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)				2520	2535	2550		
40	PI2 BPSK	1	1	15.88	15.92	15.87		
40	PI2 BPSK	1	108	15.82	15.88	15.96	17.0	0.0
40	PI2 BPSK	1	214	15.94	15.87	15.94		
40	PI2 BPSK	108	0	15.93	15.96	15.96	17.0	0.0
40	PI2 BPSK	108	54	15.91	15.90	15.87	17.0	0.0
40	PI2 BPSK	108	108	15.88	15.94	15.90	17.0	0.0
40	PI2 BPSK	216	0	15.88	15.91	15.88		
40	QPSK	1	1	16.00	16.05	16.02		
40	QPSK	1	108	15.87	15.92	15.93	17.0	0.0
40	QPSK	1	214	15.84	15.92	15.84		
40	QPSK	108	0	15.91	15.95	15.95	17.0	0.0
40	QPSK	108	54	15.97	16.01	15.97	17.0	0.0
40	QPSK	108	108	15.82	15.96	15.92	17.0	0.0
40	QPSK	216	0	15.95	15.96	15.98	17.0	0.0
40	16QAM	1	1	15.89	15.99	15.89	17.0	0.0
40	16QAM	1	1	15.88	15.88	15.90	17.0	0.0
40	256QAM	1	1	15.85	15.94	15.89	17.0	0.0
Channel								
Frequency (MHz)				50300	50700	51000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	15.82	15.98	15.92	17.0	0.0
Channel								
Frequency (MHz)				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	15.84	15.98	15.89	17.0	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	15.88	15.95	15.93	17.0	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	15.87	15.96	15.85	17.0	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	15.91	15.96	15.91	17.0	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	15.93	15.97	15.91	17.0	0.0



n26 Ant 1 DSI2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel				168300	169300	167600	
Frequency (MHz)				824	831.5	839	
20	PI2 BPSK	1	1	21.29	21.33	21.34	
20	PI2 BPSK	1	53	21.28	21.39	21.38	
20	PI2 BPSK	1	104	21.33	21.37	21.34	
20	PI2 BPSK	50	0	21.26	21.30	21.38	23.0
20	PI2 BPSK	50	28	21.28	21.36	21.37	23.0
20	PI2 BPSK	50	56	21.35	21.39	21.32	23.0
20	PI2 BPSK	100	0	21.26	21.30	21.34	
20	QPSK	1	1	21.42	21.47	21.45	
20	QPSK	1	53	21.36	21.39	21.38	23.0
20	QPSK	1	104	21.30	21.33	21.29	
20	QPSK	50	0	21.33	21.36	21.30	23.0
20	QPSK	50	28	21.42	21.44	21.37	23.0
20	QPSK	50	56	21.27	21.29	21.37	23.0
20	QPSK	100	0	21.35	21.43	21.38	23.0
20	16QAM	1	1	21.27	21.40	21.35	23.0
20	64QAM	1	1	19.95	19.94	19.96	21.5
20	256QAM	1	1	17.90	18.01	17.88	19.5
Channel				168300	169300	168300	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	1	21.33	21.32	21.37	23.0
Channel				163800	166800	166800	
Frequency (MHz)				819	831.5	841	
10	QPSK	1	1	21.24	21.33	21.31	23.0
Channel				163300	166300	166300	
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	1	21.27	21.39	21.35	23.0

n66 Ant 1 DSI2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel				345000	349000	349000	
Frequency (MHz)				1725	1745	1760	
40	PI2 BPSK	1	1	16.00	16.07	16.01	
40	PI2 BPSK	1	108	15.99	16.05	15.93	
40	PI2 BPSK	1	214	15.96	16.02	15.85	
40	PI2 BPSK	108	0	16.04	16.05	15.85	16.9
40	PI2 BPSK	108	54	15.99	16.01	16.03	16.9
40	PI2 BPSK	108	108	16.01	16.00	15.98	16.9
40	PI2 BPSK	216	0	15.97	16.03	15.99	
40	QPSK	1	1	16.12	16.16	16.10	
40	QPSK	1	108	15.98	16.05	16.02	16.9
40	QPSK	1	214	16.04	15.98	16.00	
40	QPSK	108	0	16.00	16.02	15.98	16.9
40	QPSK	108	54	16.09	16.12	16.06	16.9
40	QPSK	108	108	15.95	15.98	15.85	16.9
40	QPSK	216	0	16.02	16.05	15.99	16.9
40	16QAM	1	1	15.99	16.05	15.94	16.9
40	64QAM	1	1	16.05	16.04	16.02	16.9
40	256QAM	1	1	15.98	16.00	16.04	16.9
Channel				345000	349000	345000	
Frequency (MHz)				1722.5	1745	1762.5	
35	QPSK	1	1	16.05	16.08	15.93	16.9
Channel				345000	349000	353000	
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	15.95	15.99	15.84	16.9
Channel				344500	349000	353500	
Frequency (MHz)				1722.5	1745	1767.5	
25	QPSK	1	1	15.99	16.00	15.93	16.9
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	16.03	15.97	16.01	16.9
Channel				343500	349000	354500	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	16.05	16.02	15.85	16.9
Channel				343000	349000	355000	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	16.00	16.01	16.02	16.9
Channel				342500	349000	355500	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	15.94	15.97	15.84	16.9



n38 Ant 1 DSI2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2590.02	2595	2599.98	
Frequency (MHz)				5190.04	5190.00	5189.96	
40	Pl/2 BPSK	1	1	13.62	13.64	13.64	
40	Pl/2 BPSK	1	53	13.72	13.72	13.62	14.8
40	Pl/2 BPSK	1	104	13.70	13.78	13.74	14.8
40	Pl/2 BPSK	50	0	13.65	13.60	13.69	14.8
40	Pl/2 BPSK	50	28	13.61	13.77	13.63	14.8
40	Pl/2 BPSK	50	56	13.67	13.71	13.65	14.8
40	Pl/2 BPSK	100	0	13.59	13.74	13.61	14.8
40	QPSK	1	1	13.76	13.61	13.75	14.8
40	QPSK	1	53	13.66	13.68	13.71	14.8
40	QPSK	1	104	13.68	13.77	13.68	14.8
40	QPSK	50	0	13.52	13.68	13.69	14.8
40	QPSK	50	28	13.68	13.78	13.69	14.8
40	QPSK	80	56	13.59	13.75	13.67	14.8
40	QPSK	100	0	13.63	13.73	13.67	14.8
40	16QAM	1	1	13.61	13.64	13.58	14.8
40	16QAM	1	1	13.61	13.68	13.58	14.8
40	256QAM	1	1	13.64	13.62	13.73	14.8
Channel				5170.02	5190.00	5209.98	
Frequency (MHz)				2585.01	2595	2604.99	
30	QPSK	1	1	13.66	13.66	13.70	14.8
Channel				516000	519000	522000	
Frequency (MHz)				2570	2595	2610	
20	QPSK	1	1	13.69	13.77	13.61	14.8
Channel				515502	519000	522498	
Frequency (MHz)				2677.51	2595	2612.49	
15	QPSK	1	1	13.63	13.74	13.61	14.8
Channel				515004	519000	522996	
Frequency (MHz)				2672.02	2595	2614.98	
10	QPSK	1	1	13.71	13.74	13.69	14.8

n41 Ant 1 DSI2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2546.01	2592.99	2640	
Frequency (MHz)				5092.00	5185.98	5280.00	
100	Pl/2 BPSK	1	1	13.75	13.76	13.74	
100	Pl/2 BPSK	1	137	13.76	13.83	13.75	14.8
100	Pl/2 BPSK	1	271	13.72	13.82	13.80	14.8
100	Pl/2 BPSK	135	0	13.74	13.75	13.74	14.8
100	Pl/2 BPSK	135	69	13.72	13.81	13.69	14.8
100	Pl/2 BPSK	135	138	13.75	13.78	13.77	14.8
100	Pl/2 BPSK	270	0	13.66	13.83	13.75	14.8
100	QPSK	1	1	13.83	13.80	13.86	14.8
100	QPSK	1	137	13.72	13.82	13.78	14.8
100	QPSK	1	271	13.77	13.81	13.74	14.8
100	QPSK	135	0	13.66	13.78	13.79	14.8
100	QPSK	135	69	13.75	13.83	13.80	14.8
100	QPSK	135	138	13.66	13.81	13.78	14.8
100	QPSK	270	0	13.78	13.81	13.78	14.8
100	16QAM	1	1	13.75	13.78	13.72	14.8
100	16QAM	1	1	13.76	13.82	13.70	14.8
100	256QAM	1	1	13.68	13.75	13.79	14.8
Channel				5060.00	5185.98	5289.98	
Frequency (MHz)				2541	2592.99	2644.99	
90	QPSK	1	1	13.67	13.72	13.77	14.8
Channel				507204	518598	529988	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	QPSK	1	1	13.72	13.83	13.70	14.8
Channel				506202	518598	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	13.72	13.74	13.69	14.8
Channel				505200	518598	531998	
Frequency (MHz)				2524	2592.99	2659.99	
60	QPSK	1	1	13.69	13.77	13.79	14.8
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	13.71	13.77	13.68	14.8
Channel				503202	518598	533998	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	13.67	13.79	13.75	14.8
Channel				502200	518598	534998	
Frequency (MHz)				2511	2592.99	2674.99	
30	QPSK	1	1	13.72	13.80	13.69	14.8
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	13.66	13.77	13.76	14.8
Channel				500700	518598	536498	
Frequency (MHz)				2503.05	2592.99	2684.98	
15	QPSK	1	1	13.72	13.78	13.69	14.8
Channel				500202	518598	537000	
Frequency (MHz)				2501.01	2592.99	2685	
10	QPSK	1	1	13.68	13.77	13.73	14.8



n2 Ant 2 DSI2

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)				1860	1880	1900		
20	P1/2 BPSK	1	1	22.62	22.70	22.58		
20	P1/2 BPSK	1	53	22.50	22.55	22.39	24.0	0.0
20	P1/2 BPSK	1	164	22.51	22.56	22.43		
20	P1/2 BPSK	50	0	22.07	22.19	22.11	23.5	0.5
20	P1/2 BPSK	50	28	22.45	22.57	22.52	24.0	0.0
20	P1/2 BPSK	50	58	22.03	22.14	22.08		
20	P1/2 BPSK	100	0	21.98	22.07	21.97	23.5	0.5
20	QPSK	1	1	22.68	22.72	22.70		
20	QPSK	1	53	22.50	22.58	22.53	24.0	0.0
20	QPSK	1	104	22.61	22.66	22.52		
20	QPSK	50	0	21.81	21.66	21.62	23.0	1.0
20	QPSK	50	28	22.54	22.61	22.55	24.0	0.0
20	QPSK	50	58	21.46	21.60	21.50		
20	QPSK	100	0	21.49	21.61	21.49	23.0	1.0
20	16QAM	1	1	21.22	21.30	21.15	23.0	1.0
20	64QAM	1	1	20.02	20.08	19.99	21.5	2.5
20	256QAM	1	1	18.28	18.35	18.29	19.5	4.5
Channel				373500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	22.42	22.51	22.40	24.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	22.39	22.40	22.42	24.0	0.0
Channel				373500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	22.42	22.48	22.38	24.0	0.0

n7 Ant 2 DSI2

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)				2520	2535	2550		
40	P1/2 BPSK	1	1	22.44	22.50	22.42		
40	P1/2 BPSK	1	108	22.23	22.39	22.29	24.0	0.0
40	P1/2 BPSK	1	214	22.37	22.41	22.28		
40	P1/2 BPSK	108	0	21.93	22.07	22.00	23.5	0.5
40	P1/2 BPSK	108	54	22.28	22.40	22.26	24.0	0.0
40	P1/2 BPSK	108	108	22.04	22.18	22.05	23.5	0.5
40	P1/2 BPSK	216	0	22.02	22.12	22.01		
40	QPSK	1	1	22.58	22.63	22.61		
40	QPSK	1	108	22.43	22.52	22.38	24.0	0.0
40	QPSK	1	214	22.43	22.50	22.44		
40	QPSK	108	0	21.38	21.54	21.43	23.0	1.0
40	QPSK	108	54	22.49	22.54	22.40	24.0	0.0
40	QPSK	108	108	21.42	21.52	21.42	23.0	1.0
40	QPSK	216	0	21.38	21.46	21.31		
40	16QAM	1	1	21.41	21.48	21.44	23.0	1.0
40	64QAM	1	1	19.66	19.75	19.64	21.5	2.5
40	256QAM	1	1	17.98	18.07	17.95	19.5	4.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	22.29	22.44	22.31	24.0	0.0
Channel				502000	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	22.37	22.44	22.32	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	22.33	22.41	22.33	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	22.32	22.39	22.23	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.30	22.38	22.24	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	22.36	22.36	22.31	24.0	0.0

n66 Ant 2 DSI2

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)				1730	1745	1760		
40	P1/2 BPSK	1	1	22.43	22.55	22.41		
40	P1/2 BPSK	1	108	22.38	22.46	22.36	24.0	0.0
40	P1/2 BPSK	1	214	22.45	22.50	22.42		
40	P1/2 BPSK	108	0	22.01	22.09	22.05	23.5	0.5
40	P1/2 BPSK	108	54	22.33	22.45	22.34	24.0	0.0
40	P1/2 BPSK	108	108	21.92	22.02	21.92	23.5	0.5
40	P1/2 BPSK	216	0	21.99	22.03	21.94		
40	QPSK	1	1	22.51	22.56	22.52		
40	QPSK	1	108	22.40	22.52	22.43	24.0	0.0
40	QPSK	1	214	22.44	22.53	22.48		
40	QPSK	108	0	21.42	21.58	21.42	23.0	1.0
40	QPSK	108	54	22.41	22.53	22.42	24.0	0.0
40	QPSK	108	108	21.47	21.51	21.46	23.0	1.0
40	QPSK	216	0	21.33	21.47	21.35		
40	16QAM	1	1	21.27	21.33	21.21	23.0	1.0
40	64QAM	1	1	19.76	19.81	19.76	21.5	2.5
40	256QAM	1	1	18.28	18.37	18.27	19.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1727.5	1745	1762.5		
35	QPSK	1	1	22.27	22.42	22.31	24.0	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	22.27	22.38	22.30	24.0	0.0
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	22.30	22.48	22.36	24.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	22.34	22.37	22.29	24.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	22.36	22.45	22.35	24.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.27	22.46	22.29	24.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	22.34	22.40	22.35	24.0	0.0



n38 Ant 2 DS12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2590.02	2595	2599.98	
Frequency (MHz)				518004	519000	519996	
40	PI/2 BPSK	1	1	22.36	22.45	22.38	
40	PI/2 BPSK	1	53	22.18	22.30	22.15	24.0
40	PI/2 BPSK	1	104	22.27	22.39	22.29	
40	PI/2 BPSK	50	0	21.89	22.01	21.88	23.5
40	PI/2 BPSK	50	28	22.35	22.39	22.27	24.0
40	PI/2 BPSK	50	56	21.98	22.12	22.00	23.5
40	PI/2 BPSK	100	0	21.91	22.01	21.96	
40	QPSK	1	1	22.49	22.56	22.53	
40	QPSK	1	53	22.37	22.48	22.32	24.0
40	QPSK	1	104	22.36	22.51	22.39	
40	QPSK	50	0	21.49	21.55	21.51	23.0
40	QPSK	50	28	22.38	22.50	22.38	24.0
40	QPSK	50	56	21.42	21.52	21.37	23.0
40	QPSK	100	0	21.34	21.48	21.34	
40	16QAM	1	1	21.38	21.48	21.38	23.0
40	16QAM	1	1	19.78	19.87	19.83	21.5
40	256QAM	1	1	18.04	18.13	18.08	19.5
Channel				517002	519000	520998	
Frequency (MHz)				2585.01	2595	2604.99	
30	QPSK	1	1	22.22	22.34	22.24	24.0
Channel				516000	519000	522000	
Frequency (MHz)				2590	2595	2610	
20	QPSK	1	1	22.30	22.32	22.20	24.0
Channel				515502	519000	522498	
Frequency (MHz)				2577.51	2595	2612.49	
15	QPSK	1	1	22.32	22.38	22.19	24.0
Channel				515004	519000	522996	
Frequency (MHz)				2574.02	2595	2614.98	
10	QPSK	1	1	22.27	22.38	22.24	24.0

n41 Ant 2 DS12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				2546.01	2592.99	2640	
Frequency (MHz)				5242	51898	52000	
100	PI/2 BPSK	1	1	22.58	22.65	22.55	
100	PI/2 BPSK	1	137	22.38	22.53	22.43	24.0
100	PI/2 BPSK	1	271	22.53	22.60	22.49	
100	PI/2 BPSK	135	0	21.95	22.11	22.01	23.5
100	PI/2 BPSK	135	69	22.47	22.57	22.49	24.0
100	PI/2 BPSK	135	138	22.16	22.23	22.15	23.5
100	PI/2 BPSK	270	0	21.93	22.01	21.90	
100	QPSK	1	1	22.57	22.66	22.61	
100	QPSK	1	137	22.48	22.58	22.48	24.0
100	QPSK	1	271	22.44	22.54	22.39	
100	QPSK	135	0	21.49	21.61	21.52	23.0
100	QPSK	135	69	22.52	22.56	22.45	24.0
100	QPSK	135	138	21.61	21.75	21.68	23.0
100	QPSK	270	0	21.54	21.59	21.44	
100	16QAM	1	1	21.49	21.53	21.42	23.0
100	16QAM	1	1	19.83	19.98	19.85	21.5
100	256QAM	1	1	17.90	17.98	17.82	19.5
Channel				509000	51898	52898	
Frequency (MHz)				2541	2592.99	2644.99	
90	QPSK	1	1	22.32	22.45	22.34	24.0
Channel				507204	51898	52998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	QPSK	1	1	22.40	22.45	22.11	24.0
Channel				506202	51898	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	22.49	22.58	22.56	24.0
Channel				505200	51898	531998	
Frequency (MHz)				2524	2592.99	2659.99	
60	QPSK	1	1	22.40	22.49	22.40	24.0
Channel				504204	51898	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	22.39	22.52	22.44	24.0
Channel				503202	51898	533000	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	22.34	22.52	22.43	24.0
Channel				502200	51898	534998	
Frequency (MHz)				2511	2592.99	2674.99	
30	QPSK	1	1	22.34	22.52	22.45	24.0
Channel				501204	51898	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	22.44	22.52	22.40	24.0
Channel				500700	51898	536498	
Frequency (MHz)				2503.05	2592.99	2684.98	
15	QPSK	1	1	22.33	22.45	22.42	24.0
Channel				500202	51898	537000	
Frequency (MHz)				2501.01	2592.99	2685	
10	QPSK	1	1	22.35	22.52	22.40	24.0



Part270 n77 Ant 5 DS12

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	PI2 BPSK	1	1	14.57	14.75	14.65		
100	PI2 BPSK	1	137	14.56	14.72	14.72	15.6	0.0
100	PI2 BPSK	1	271	14.56	14.72	14.71		
100	PI2 BPSK	135	6	14.55	14.71	14.73	15.6	0.0
100	PI2 BPSK	135	69	14.64	14.74	14.72	15.6	0.0
100	PI2 BPSK	135	138	14.62	14.74	14.68	15.6	0.0
100	PI2 BPSK	270	0	14.59	14.73	14.67		
100	QPSK	1	1	14.62	14.85	14.81		
100	QPSK	1	137	14.54	14.72	14.68	15.6	0.0
100	QPSK	1	271	14.55	14.89	14.65		
100	QPSK	135	0	14.63	14.64	14.70	15.6	0.0
100	QPSK	135	69	14.76	14.80	14.75	15.6	0.0
100	QPSK	135	138	14.65	14.70	14.67	15.6	0.0
100	QPSK	270	0	14.65	14.74	14.72		
100	16QAM	1	1	14.57	14.69	14.65	15.6	0.0
100	64QAM	1	1	14.56	14.70	14.70	15.6	0.0
100	256QAM	1	1	14.62	14.71	14.72	15.6	0.0
Channel								
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	14.65	14.67	14.65	15.6	0.0
Channel								
Frequency (MHz)				649334	650000	650968		
80	QPSK	1	1	14.63	14.72	14.71	15.6	0.0
Channel								
Frequency (MHz)				649000	650000	650000		
70	QPSK	1	1	14.56	14.74	14.65	15.6	0.0
Channel								
Frequency (MHz)				648668	650000	653334		
60	QPSK	1	1	14.57	14.75	14.70	15.6	0.0
Channel								
Frequency (MHz)				648334	650000	653668		
50	QPSK	1	1	14.60	14.72	14.67	15.6	0.0
Channel								
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	14.60	14.67	14.66	15.6	0.0
Channel								
Frequency (MHz)				647668	650000	654334		
30	QPSK	1	1	14.65	14.65	14.65	15.6	0.0
Channel								
Frequency (MHz)				647334	650000	654668		
20	QPSK	1	1	14.63	14.69	14.62	15.6	0.0
Channel								
Frequency (MHz)				647168	650000	654834		
15	QPSK	1	1	14.60	14.65	14.69	15.6	0.0
Channel								
Frequency (MHz)				647000	650000	655000		
10	QPSK	1	1	14.64	14.65	14.71	15.6	0.0

Part270 n77 HPUe Ant 5 DS12

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	PI2 BPSK	1	1	17.57	17.66	17.59		
100	PI2 BPSK	1	137	17.68	17.70	17.61	18.6	0.0
100	PI2 BPSK	1	271	17.61	17.65	17.61		
100	PI2 BPSK	135	6	17.61	17.67	17.58	18.6	0.0
100	PI2 BPSK	135	69	17.69	17.65	17.58	18.6	0.0
100	PI2 BPSK	135	138	17.63	17.69	17.56	18.6	0.0
100	PI2 BPSK	270	0	17.63	17.65	17.58		
100	QPSK	1	1	17.62	17.67	17.60		
100	QPSK	1	137	17.61	17.70	17.52	18.6	0.0
100	QPSK	1	271	17.64	17.70	17.61		
100	QPSK	135	0	17.61	17.71	17.62	18.6	0.0
100	QPSK	135	69	17.77	17.80	17.75	18.6	0.0
100	QPSK	135	138	17.66	17.64	17.58	18.6	0.0
100	QPSK	270	0	17.72	17.77	17.68		
100	16QAM	1	1	17.67	17.73	17.58	18.6	0.0
100	64QAM	1	1	17.69	17.66	17.57	18.6	0.0
100	256QAM	1	1	17.63	17.70	17.54	18.6	0.0
Channel								
Frequency (MHz)				648668	650000	653334		
90	QPSK	1	1	17.66	17.65	17.61	18.6	0.0
Channel								
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	17.63	17.64	17.60	18.6	0.0
Channel								
Frequency (MHz)				649000	650000	653000		
70	QPSK	1	1	17.67	17.66	17.58	18.6	0.0
Channel								
Frequency (MHz)				648668	650000	653334		
60	QPSK	1	1	17.63	17.70	17.60	18.6	0.0
Channel								
Frequency (MHz)				648334	650000	653668		
50	QPSK	1	1	17.62	17.69	17.55	18.6	0.0
Channel								
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	17.67	17.71	17.52	18.6	0.0
Channel								
Frequency (MHz)				647668	650000	654334		
30	QPSK	1	1	17.62	17.65	17.62	18.6	0.0
Channel								
Frequency (MHz)				647334	650000	654668		
20	QPSK	1	1	17.64	17.65	17.62	18.6	0.0
Channel								
Frequency (MHz)				647168	650000	654834		
15	QPSK	1	1	17.59	17.67	17.55	18.6	0.0
Channel								
Frequency (MHz)				647000	650000	655000		
10	QPSK	1	1	17.65	17.66	17.59	18.6	0.0

Part270 n78 Ant 5 DS12

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	3750	3750		
100	PI2 BPSK	1	1	14.71			15.6	0.0
100	PI2 BPSK	1	137	14.67				
100	PI2 BPSK	1	271	14.63				
100	PI2 BPSK	135	0	14.59			15.6	0.0
100	PI2 BPSK	135	69	14.59			15.6	0.0
100	PI2 BPSK	135	138	14.67			15.6	0.0
100	PI2 BPSK	270	0	14.62				
100	QPSK	1	1	14.72				
100	QPSK	1	137	14.64			15.6	0.0
100	QPSK	1	271	14.62				
100	QPSK	135	0	14.57			15.6	0.0
100	QPSK	135	69	14.70			15.6	0.0
100	QPSK	135	138	14.56			15.6	0.0
100	QPSK	270	0	14.66				
100	16QAM	1	1	14.65			15.6	0.0
100	64QAM	1	1	14.67			15.6	0.0
100	256QAM	1	1	14.65			15.6	0.0
Channel								
Frequency (MHz)				648668	650000	653334		
90	QPSK	1	1	14.57	14.69	14.65	15.6	0.0
Channel								
Frequency (MHz)				649334	650000	650968		
80	QPSK	1	1	14.59	14.80	14.64	15.6	0.0
Channel								
Frequency (MHz)				649000	650000	651000		
70	QPSK	1	1	14.52	14.84	14.63	15.6	0.0
Channel								
Frequency (MHz)				648668	650000	651334		
60	QPSK	1	1	14.54	14.83	14.61	15.6	0.0
Channel								
Frequency (MHz)				648334	650000	651668		
50	QPSK	1	1	14.60	14.82	14.62	15.6	0.0
Channel								
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	14.53	14.80	14.67	15.6	0.0
Channel								
Frequency (MHz)				647668	650000	652334		
30	QPSK	1	1	14.62	14.66	14.58	15.6	0.0
Channel								
Frequency (MHz)				647334	650000	652668		
20	QPSK	1	1	14.52	14.82	14.63	15.6	0.0
Channel								
Frequency (MHz)				647168	650000	652834		
15	QPSK	1	1	14.56	14.81	14.64	15.6	0.0
Channel								
Frequency (MHz)				647000	650000	653000		
10	QPSK	1	1	14.68	14.70	14.67	15.6	0.0



Part270 n78 HPUE Ant 5 DS12

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		17.52				
100	PI2 BPSK	1	137		17.62		18.6	0.0	
100	PI2 BPSK	1	271		17.53				
100	PI2 BPSK	135	0		17.59		18.6	0.0	
100	PI2 BPSK	135	89		17.57		18.6	0.0	
100	PI2 BPSK	135	138		17.64		18.6	0.0	
100	PI2 BPSK	270	0		17.54				
100	QPSK	1	1		17.76				
100	QPSK	1	137		17.59		18.6	0.0	
100	QPSK	1	271		17.58				
100	QPSK	135	0		17.68		18.6	0.0	
100	QPSK	135	89		17.73		18.6	0.0	
100	QPSK	135	138		17.53				
100	QPSK	270	0		17.65		18.6	0.0	
100	16QAM	1	1		17.61		18.6	0.0	
100	16QAM	1	1		17.56		18.6	0.0	
100	256QAM	1	1		17.58		18.6	0.0	
Channel				649688	650000	650334	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	1		17.59	17.65	17.60	18.6	0.0
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1		17.65	17.65	17.59	18.6	0.0
Channel				649000	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1		17.60	17.69	17.55	18.6	0.0
Channel				648668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3730.01	(dBm)	(dB)	
60	QPSK	1	1		17.58	17.74	17.93	18.6	0.0
Channel				648334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1		17.65	17.71	17.82	18.6	0.0
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1		17.60	17.67	17.61	18.6	0.0
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3725.01	(dBm)	(dB)	
30	QPSK	1	1		17.60	17.69	17.54	18.6	0.0
Channel				647334	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1		17.58	17.68	17.55	18.6	0.0
Channel				647000	650000	653334	Tune-up limit	MPR	
Frequency (MHz)				3705.02	3750	3785.01	(dBm)	(dB)	
15	QPSK	1	1		17.61	17.64	17.55	18.6	0.0
Channel				647000	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1		17.65	17.63	17.60	18.6	0.0



Part270 n77 Ant 7 DS12

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	PI2 BPSK	1	1	16.03	16.65	16.65		
100	PI2 BPSK	1	137	16.65	16.59	16.27		0.0
100	PI2 BPSK	1	271	16.56	16.68	16.66		
100	PI2 BPSK	135	6	16.54	16.83	16.57	17.7	0.0
100	PI2 BPSK	135	69	16.65	16.82	16.57	17.7	0.0
100	PI2 BPSK	135	138	16.04	16.67	16.58		0.0
100	PI2 BPSK	270	0	16.59	16.84	16.58		
100	QPSK	1	1	16.76	16.81	16.79		
100	QPSK	1	137	16.54	16.58	16.61	17.7	0.0
100	QPSK	1	271	16.66	16.88	16.60		
100	QPSK	135	0	16.04	16.66	16.58	17.7	0.0
100	QPSK	135	69	16.71	16.75	16.73	17.7	0.0
100	QPSK	135	138	16.54	16.63	16.63		
100	QPSK	270	0	16.69	16.73	16.70		
100	16QAM	1	1	16.58	16.64	16.65	17.7	0.0
100	16QAM	1	1	16.61	16.66	16.60	17.7	0.0
100	256QAM	1	1	16.65	16.59	16.66	17.7	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	16.59	16.61	16.64	17.7	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	16.54	16.60	16.58	17.7	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	16.56	16.69	16.61	17.7	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	16.58	16.60	16.66	17.7	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.56	16.69	16.61	17.7	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.64	16.69	16.66	17.7	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.54	16.62	16.62	17.7	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.60	16.63	16.58	17.7	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	16.63	16.66	16.58	17.7	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	16.60	16.67	16.55	17.7	0.0

Part270 n77 HPUE Ant 7 DS12

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	PI2 BPSK	1	1	19.42	19.55	19.44		
100	PI2 BPSK	1	137	19.46	19.46	19.48	20.7	0.0
100	PI2 BPSK	1	271	19.50	19.53	19.40		
100	PI2 BPSK	135	6	19.49	19.46	19.50	20.7	0.0
100	PI2 BPSK	135	69	19.41	19.47	19.41	20.7	0.0
100	PI2 BPSK	135	138	19.44	19.52	19.51		
100	PI2 BPSK	270	0	19.46	19.48	19.40		
100	QPSK	1	1	19.67	19.68	19.65		
100	QPSK	1	137	19.50	19.54	19.48	20.7	0.0
100	QPSK	1	271	19.43	19.52	19.47		
100	QPSK	135	0	19.46	19.46	19.44	20.7	0.0
100	QPSK	135	69	19.62	19.65	19.60	20.7	0.0
100	QPSK	135	138	19.46	19.53	19.44		
100	QPSK	270	0	19.54	19.59	19.54	20.7	0.0
100	16QAM	1	1	19.47	19.45	19.49	20.7	0.0
100	16QAM	1	1	19.43	19.54	19.46	20.7	0.0
100	256QAM	1	1	19.43	19.53	19.47	20.7	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.41	19.54	19.46	20.7	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.50	19.44	19.45	20.7	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.49	19.45	19.47	20.7	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.49	19.52	19.46	20.7	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.51	19.55	19.45	20.7	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.47	19.50	19.50	20.7	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.40	19.49	19.41	20.7	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.43	19.49	19.46	20.7	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.42	19.44	19.51	20.7	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.43	19.47	19.40	20.7	0.0

Part270 n78 Ant 7 DS12

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	PI2 BPSK	1	1	16.56	16.56	16.56		
100	PI2 BPSK	1	137	16.56	16.56	16.56	17.7	0.0
100	PI2 BPSK	1	271	16.56	16.56	16.56		
100	PI2 BPSK	135	0	16.56	16.56	16.56	17.7	0.0
100	PI2 BPSK	135	69	16.57	16.57	16.57	17.7	0.0
100	PI2 BPSK	135	138	16.54	16.54	16.54		
100	PI2 BPSK	270	0	16.59	16.59	16.59		
100	QPSK	1	1	16.72	16.72	16.72		
100	QPSK	1	137	16.57	16.57	16.57	17.7	0.0
100	QPSK	1	271	16.61	16.61	16.61		
100	QPSK	135	0	16.51	16.51	16.51	17.7	0.0
100	QPSK	135	69	16.71	16.71	16.71	17.7	0.0
100	QPSK	135	138	16.50	16.50	16.50		
100	QPSK	270	0	16.70	16.70	16.70		
100	16QAM	1	1	16.58	16.58	16.58	17.7	0.0
100	16QAM	1	1	16.51	16.51	16.51	17.7	0.0
100	256QAM	1	1	16.53	16.53	16.53	17.7	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	16.59	16.66	16.64	17.7	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	16.61	16.62	16.60	17.7	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	16.62	16.62	16.61	17.7	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	16.55	16.65	16.60	17.7	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.68	16.65	16.65	17.7	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.57	16.60	16.58	17.7	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.60	16.70	16.59	17.7	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.64	16.64	16.61	17.7	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	16.57	16.59	16.58	17.7	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	16.67	16.65	16.64	17.7	0.0



Part270 n78 HPUE Ant 7 DS12

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		19.42			
100	PI2 BPSK	1	137		19.39		20.7	0.0
100	PI2 BPSK	1	271		19.47			
100	PI2 BPSK	135	0		19.37		20.7	0.0
100	PI2 BPSK	135	69		19.39		20.7	0.0
100	PI2 BPSK	135	138		19.46			
100	PI2 BPSK	270	0		19.35		20.7	0.0
100	QPSK	1	1		19.55			
100	QPSK	1	137		19.43		20.7	0.0
100	QPSK	1	271		19.40			
100	QPSK	135	0		19.32		20.7	0.0
100	QPSK	135	69		19.55		20.7	0.0
100	QPSK	135	138		19.40			
100	QPSK	270	0		19.46		20.7	0.0
100	16QAM	1	1		19.35		20.7	0.0
100	16QAM	1	1		19.45		20.7	0.0
100	256QAM	1	1		19.48		20.7	0.0
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	19.46	19.52	19.47	20.7	0.0
Channel				649334	650000	650668	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	19.49	19.45	19.41	20.7	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	19.44	19.47	19.47	20.7	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3750.01		
60	QPSK	1	1	19.45	19.49	19.49	20.7	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	19.46	19.45	19.49	20.7	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	19.41	19.48	19.50	20.7	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3765.01		
30	QPSK	1	1	19.50	19.49	19.41	20.7	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	19.50	19.45	19.41	20.7	0.0
Channel				647168	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3782.51		
15	QPSK	1	1	19.42	19.56	19.47	20.7	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3785		
10	QPSK	1	1	19.45	19.65	19.47	20.7	0.0



Part270 n77 Ant 8 DS12

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								
Frequency (MHz)								
3750								
100	PI2 BPSK	1	1	22.18	22.15	22.30		
100	PI2 BPSK	1	137	22.13	22.21	22.17	24.0	0.0
100	PI2 BPSK	1	271	22.18	22.14	22.13		
100	PI2 BPSK	135	6	21.73	21.82	21.70	23.5	0.5
100	PI2 BPSK	135	69	22.14	22.24	22.21	24.0	0.0
100	PI2 BPSK	135	138	21.73	21.82	21.72	23.5	0.5
100	PI2 BPSK	270	0	21.89	21.82	21.74		
100	QPSK	1	1	22.23	22.28	22.26		
100	QPSK	1	137	22.12	22.15	22.12	24.0	0.0
100	QPSK	1	271	22.09	22.17	22.19		
100	QPSK	135	6	21.18	21.23	21.24	23.0	1.0
100	QPSK	135	69	22.13	22.25	22.11	24.0	0.0
100	QPSK	135	138	21.25	21.27	21.20	23.0	1.0
100	QPSK	270	0	21.23	21.34	21.22		
100	16QAM	1	1	21.28	21.28	21.28	23.0	1.0
100	16QAM	1	1	19.74	19.77	19.81	21.5	2.5
100	256QAM	1	1	17.72	17.75	17.76	19.5	4.5
Channel								
Frequency (MHz)								
3745.02								
3840								
90	QPSK	1	1	22.10	22.22	22.13	24.0	0.0
Channel								
Frequency (MHz)								
3740.01								
3840								
80	QPSK	1	1	22.10	22.23	22.11	24.0	0.0
Channel								
Frequency (MHz)								
3735								
70	QPSK	1	1	22.16	22.21	22.13	24.0	0.0
Channel								
Frequency (MHz)								
648968								
65000								
60	QPSK	1	1	22.12	22.22	22.17	24.0	0.0
Channel								
Frequency (MHz)								
3725.01								
3840								
50	QPSK	1	1	22.16	22.25	22.21	24.0	0.0
Channel								
Frequency (MHz)								
3720								
40	QPSK	1	1	22.16	22.24	22.15	24.0	0.0
Channel								
Frequency (MHz)								
647668								
65000								
30	QPSK	1	1	22.16	22.17	22.14	24.0	0.0
Channel								
Frequency (MHz)								
647334								
65000								
20	QPSK	1	1	22.11	22.15	22.16	24.0	0.0
Channel								
Frequency (MHz)								
647168								
65000								
15	QPSK	1	1	22.11	22.18	22.21	24.0	0.0
Channel								
Frequency (MHz)								
3705								
10	QPSK	1	1	22.11	22.18	22.16	24.0	0.0

Part270 n77 HPUe Ant 8 DS12

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								
Frequency (MHz)								
3750								
100	PI2 BPSK	1	1	25.16	25.21	25.16		
100	PI2 BPSK	1	137	25.15	25.26	25.15	27.0	0.0
100	PI2 BPSK	1	271	25.24	25.17	25.11		
100	PI2 BPSK	135	6	24.87	24.84	24.74	26.5	0.5
100	PI2 BPSK	135	69	25.15	25.25	25.22	27.0	0.0
100	PI2 BPSK	135	138	24.77	24.83	24.77	26.5	0.5
100	PI2 BPSK	270	0	24.68	24.81	24.71		
100	QPSK	1	1	25.24	25.28	25.24		
100	QPSK	1	137	25.08	25.16	25.18	27.0	0.0
100	QPSK	1	271	25.10	25.22	25.16		
100	QPSK	135	0	24.19	24.22	24.28	26.0	1.0
100	QPSK	135	69	25.14	25.19	25.12	27.0	0.0
100	QPSK	135	138	24.25	24.30	24.23	26.0	1.0
100	QPSK	270	0	24.23	24.31	24.25		
100	16QAM	1	1	24.21	24.22	24.23	26.0	1.0
100	16QAM	1	1	22.74	22.72	22.78	24.5	2.5
100	256QAM	1	1	20.77	20.75	20.70	22.5	4.5
Channel								
Frequency (MHz)								
3745.02								
3840								
90	QPSK	1	1	25.15	25.24	25.13	27.0	0.0
Channel								
Frequency (MHz)								
3740.01								
3840								
80	QPSK	1	1	25.15	25.14	25.15	27.0	0.0
Channel								
Frequency (MHz)								
3735								
70	QPSK	1	1	25.10	25.19	25.11	27.0	0.0
Channel								
Frequency (MHz)								
648668								
65000								
60	QPSK	1	1	25.17	25.24	25.19	27.0	0.0
Channel								
Frequency (MHz)								
3725.01								
3840								
50	QPSK	1	1	25.19	25.24	25.14	27.0	0.0
Channel								
Frequency (MHz)								
3720								
40	QPSK	1	1	25.13	25.20	25.18	27.0	0.0
Channel								
Frequency (MHz)								
647668								
65000								
30	QPSK	1	1	25.14	25.22	25.13	27.0	0.0
Channel								
Frequency (MHz)								
647334								
65000								
20	QPSK	1	1	25.09	25.22	25.14	27.0	0.0
Channel								
Frequency (MHz)								
647168								
65000								
15	QPSK	1	1	25.12	25.15	25.11	27.0	0.0
Channel								
Frequency (MHz)								
3705								
10	QPSK	1	1	25.21	25.20	25.20	27.0	0.0

Part270 n78 Ant 8 DS12

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								
Frequency (MHz)								
3750								
100	PI2 BPSK	1	1		22.07			
100	PI2 BPSK	1	137		22.06		24.0	0.0
100	PI2 BPSK	1	271		22.03			
100	PI2 BPSK	135	0		21.78		23.5	0.5
100	PI2 BPSK	135	69		22.20		24.0	0.0
100	PI2 BPSK	135	138		21.73		23.5	0.5
100	PI2 BPSK	270	0		21.74			
100	QPSK	1	1		22.22			
100	QPSK	1	137		22.01		24.0	0.0
100	QPSK	1	271		22.11			
100	QPSK	135	0		21.16		23.0	1.0
100	QPSK	135	69		22.12		24.0	0.0
100	QPSK	135	138		21.17		23.0	1.0
100	QPSK	270	0		21.28			
100	16QAM	1	1		21.15		23.0	1.0
100	16QAM	1	1		19.71		21.5	2.5
100	256QAM	1	1		17.71		19.5	4.5
Channel								
Frequency (MHz)								
648968								
65000								
90	QPSK	1	1		22.02		24.0	0.0
Channel								
Frequency (MHz)								
3740.01								
3750								
80	QPSK	1	1		22.03		24.0	0.0
Channel								
Frequency (MHz)								
3735								
70	QPSK	1	1		22.08		24.0	0.0
Channel								
Frequency (MHz)								
648668								
65000								
60	QPSK	1	1		22.03		24.0	0.0
Channel								
Frequency (MHz)								
3725.01								
3750								
50	QPSK	1	1		22.02		24.0	0.0
Channel								
Frequency (MHz)								
3720								
40	QPSK	1	1		22.02		24.0	0.0
Channel								
Frequency (MHz)								
647668								
65000								
30	QPSK	1	1		22.02		24.0	0.0
Channel								
Frequency (MHz)								
647334								
65000								
20	QPSK	1	1		22.06		24.0	0.0
Channel								
Frequency (MHz)								
647168								
65000								
15	QPSK	1	1		22.05		24.0	0.0
Channel								
Frequency (MHz)								
3705								
10	QPSK	1	1		22.01		24.0	0.0



Part270 n78 HPUE Ant 8 DS12

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		25.07				
100	PI/2 BPSK	1	137		25.15		27.0	0.0	
100	PI/2 BPSK	1	271		25.10		28.5	0.5	
100	PI/2 BPSK	135	0		24.70		27.0	0.0	
100	PI/2 BPSK	135	69		25.16		28.0	1.0	
100	PI/2 BPSK	135	138		24.76		27.0	0.0	
100	PI/2 BPSK	270	0		24.69		28.0	1.0	
100	QPSK	1	1		25.23				
100	QPSK	1	137		25.05		27.0	0.0	
100	QPSK	1	271		25.18		28.0	1.0	
100	QPSK	135	0		24.18		27.0	0.0	
100	QPSK	135	69		25.13		28.0	1.0	
100	QPSK	135	138		24.17		27.0	0.0	
100	QPSK	270	0		24.24		28.0	1.0	
100	16QAM	1	1		24.08		26.0	1.0	
100	16QAM	1	1		22.68		24.5	2.5	
100	256QAM	1	1		20.67		22.5	4.5	
Channel				649688	650000	650334			
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		25.01	25.20	25.07	27.0	0.0
Channel				649334	650000	650668			
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		25.09	25.14	25.09	27.0	0.0
Channel				649000	650000	651000			
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		25.07	25.17	25.03	27.0	0.0
Channel				648668	650000	651334			
Frequency (MHz)				3730.02	3750	3730.01			
60	QPSK	1	1		25.11	25.10	25.05	27.0	0.0
Channel				648334	650000	651668			
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		25.04	25.13	25.05	27.0	0.0
Channel				648000	650000	652000			
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		25.11	25.18	25.09	27.0	0.0
Channel				647668	650000	652334			
Frequency (MHz)				3715.02	3750	3765.01			
30	QPSK	1	1		25.10	25.10	25.04	27.0	0.0
Channel				647334	650000	653000			
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		25.10	25.20	25.06	27.0	0.0
Channel				647000	650000	653334			
Frequency (MHz)				3705	3750	3795			
15	QPSK	1	1		25.04	25.10	25.01	27.0	0.0
Channel				647000	650000	653000			
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		25.02	25.18	25.03	27.0	0.0



n38 Ant 10 DS12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				519304	519300	519396	
Frequency (MHz)				2590.02	2595	2599.98	
40	PI/2 BPSK	1	1	22.67	22.82	22.76	
40	PI/2 BPSK	1	53	22.68	22.77	22.70	24.0
40	PI/2 BPSK	1	104	22.62	22.68	22.61	0.0
40	PI/2 BPSK	50	0	22.15	22.24	22.15	23.5
40	PI/2 BPSK	50	28	22.58	22.66	22.58	24.0
40	PI/2 BPSK	50	56	22.40	22.46	22.33	23.5
40	PI/2 BPSK	100	0	22.30	22.41	22.31	0.0
40	QPSK	1	1	22.81	22.91	22.90	24.0
40	QPSK	1	53	22.63	22.78	22.69	0.0
40	QPSK	1	104	22.70	22.84	22.70	0.0
40	QPSK	50	0	21.81	21.89	21.82	23.0
40	QPSK	50	28	22.73	22.78	22.69	24.0
40	QPSK	50	56	21.79	21.86	21.74	23.0
40	QPSK	100	0	21.69	21.81	21.69	0.0
40	16QAM	1	1	21.80	21.88	21.77	23.0
40	16QAM	1	1	20.32	20.45	20.29	21.5
40	256QAM	1	1	18.46	18.52	18.38	19.5
Channel				517002	516900	520398	
Frequency (MHz)				2585.01	2595	2604.99	
30	QPSK	1	1	22.54	22.69	22.60	24.0
Channel				516000	519000	520000	
Frequency (MHz)				2550	2595	2610	
20	QPSK	1	1	22.51	22.74	22.52	24.0
Channel				515502	519000	523498	
Frequency (MHz)				2677.51	2595	2612.49	
15	QPSK	1	1	22.51	22.72	22.60	24.0
Channel				515004	519000	523998	
Frequency (MHz)				2676.02	2595	2614.98	
10	QPSK	1	1	22.48	22.73	22.59	24.0

n41 Ant 10 DS12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				526202	518998	529200	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.87	22.92	22.87	
100	PI/2 BPSK	1	137	22.74	22.79	22.72	24.0
100	PI/2 BPSK	1	271	22.72	22.79	22.72	0.0
100	PI/2 BPSK	135	0	22.42	22.46	22.37	23.5
100	PI/2 BPSK	135	69	22.74	22.81	22.75	24.0
100	PI/2 BPSK	135	138	22.46	22.54	22.48	23.5
100	PI/2 BPSK	270	0	22.35	22.41	22.34	0.0
100	QPSK	1	1	22.81	22.96	22.86	
100	QPSK	1	137	22.89	22.81	22.75	24.0
100	QPSK	1	271	22.88	22.83	22.79	0.0
100	QPSK	135	0	21.81	21.95	21.81	23.0
100	QPSK	135	69	22.75	22.65	22.72	24.0
100	QPSK	135	138	21.83	21.90	21.79	23.0
100	QPSK	270	0	21.77	21.84	21.69	0.0
100	16QAM	1	1	21.84	21.90	21.78	23.0
100	16QAM	1	1	20.40	20.53	20.39	21.5
100	256QAM	1	1	18.25	18.38	18.33	19.5
Channel				506200	518998	529398	
Frequency (MHz)				2541	2592.99	2644.99	
90	QPSK	1	1	22.80	22.72	22.84	24.0
Channel				507204	518998	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	QPSK	1	1	22.65	22.75	22.60	24.0
Channel				506202	518998	531000	
Frequency (MHz)				2531.01	2592.99	2655	
70	QPSK	1	1	22.75	22.83	22.75	24.0
Channel				505200	518998	531998	
Frequency (MHz)				2524	2592.99	2659.99	
60	QPSK	1	1	22.82	22.76	22.65	24.0
Channel				504204	518998	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	22.55	22.77	22.67	24.0
Channel				503202	518998	533000	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	22.82	22.65	22.81	24.0
Channel				502200	518998	534998	
Frequency (MHz)				2511	2592.99	2674.99	
30	QPSK	1	1	22.65	22.71	22.61	24.0
Channel				501204	518998	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	22.63	22.68	22.69	24.0
Channel				500700	518998	536498	
Frequency (MHz)				2503.05	2592.99	2684.98	
15	QPSK	1	1	22.84	22.69	22.70	24.0
Channel				500202	518998	537000	
Frequency (MHz)				2501.01	2592.99	2685	
10	QPSK	1	1	22.63	22.73	22.69	24.0



Reduced Power Mode for Other PA DS12

n2 Ant 1 DS12									
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)									
20	PI2 BPSK	1	1	15.83	15.96	15.87			
30	PI2 BPSK	1	53	15.93	15.92	15.95			
40	PI2 BPSK	1	104	15.94	15.93	15.92			
20	PI2 BPSK	50	0	15.96	15.95	15.99	17.5	0.0	
20	PI2 BPSK	50	28	15.96	15.98	15.97	17.5	0.0	
20	PI2 BPSK	50	56	15.92	16.01	15.89	17.5	0.0	
20	PI2 BPSK	100	0	15.92	15.99	15.92			
20	QPSK	1	1	15.94	15.93	15.96			
20	QPSK	1	53	15.84	15.97	15.96	17.5	0.0	
20	QPSK	1	104	15.88	16.02	16.03			
20	QPSK	50	0	15.96	15.94	15.99	17.5	0.0	
20	QPSK	50	28	15.86	16.06	16.00	17.5	0.5	
20	QPSK	50	56	15.90	15.95	15.85			
20	QPSK	100	0	15.94	15.97	15.90	17.5	0.0	
20	16QAM	1	1	15.84	15.92	15.95	17.5	0.5	
20	16QAM	1	1	15.83	15.99	15.99	17.5	0.0	
20	16QAM	1	1	15.93	15.90	15.90	17.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	37.59	37.60	38.05	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
15	QPSK	1	1	37.59	37.60	38.05	Tune-up limit (dBm)	MPR	
Channel									
Frequency (MHz)									
5	QPSK	1	1	15.95	15.99	15.90	17.5	0.0	

n7 Ant 1 DS12									
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)									
40	PI2 BPSK	1	1	15.82	15.81	15.80			
40	PI2 BPSK	1	108	15.90	15.72	15.90	17.0	0.0	
40	PI2 BPSK	1	214	15.83	15.78	15.78			
40	PI2 BPSK	108	0	15.83	15.92	15.82	17.0	0.0	
40	PI2 BPSK	108	54	15.82	15.81	15.80			
40	PI2 BPSK	108	108	15.75	15.82	15.76	17.0	0.0	
40	PI2 BPSK	216	0	15.76	15.77	15.81			
40	QPSK	1	1	15.87	15.96	15.90			
40	QPSK	1	108	15.73	15.81	15.78	17.0	0.0	
40	QPSK	1	214	15.76	15.86	15.76			
40	QPSK	108	0	15.85	15.79	15.79	17.0	0.0	
40	QPSK	108	54	15.84	15.91	15.87	17.0	0.0	
40	QPSK	108	108	15.88	15.80	15.77	17.0	0.0	
40	QPSK	216	0	15.83	15.90	15.86			
40	16QAM	1	1	15.78	15.91	15.75	17.0	0.0	
40	16QAM	1	1	15.76	15.80	15.84	17.0	0.0	
40	16QAM	1	1	15.76	15.86	15.75	17.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.76	15.87	15.73	17.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	15.79	15.85	15.80	17.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.77	15.80	15.85	17.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.72	15.89	15.78	17.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.74	15.89	15.75	17.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	15.77	15.82	15.76	17.0	0.0	

n66 Ant 1 DS12									
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)									
40	PI2 BPSK	1	1	15.95	16.00	15.87			
40	PI2 BPSK	1	108	15.93	15.93	15.70	16.9	0.0	
40	PI2 BPSK	1	214	15.88	15.86	15.87			
40	PI2 BPSK	108	0	15.93	15.92	15.92	16.9	0.0	
40	PI2 BPSK	108	54	15.87	15.90	15.90	16.9	0.0	
40	PI2 BPSK	108	108	15.87	15.85	15.88	16.9	0.0	
40	PI2 BPSK	216	0	15.89	15.87	15.91			
40	QPSK	1	1	15.92	15.99	15.94			
40	QPSK	1	108	15.84	15.92	15.89	16.9	0.0	
40	QPSK	1	214	15.87	15.91	15.88			
40	QPSK	108	0	15.83	15.92	15.90	16.9	0.0	
40	QPSK	108	54	15.95	15.97	16.01	16.9	0.0	
40	QPSK	108	108	15.89	15.85	15.90	16.9	0.0	
40	QPSK	216	0	15.90	15.95	15.94			
40	16QAM	1	1	15.84	15.91	15.78	16.9	0.0	
40	16QAM	1	1	15.90	15.94	15.90	16.9	0.0	
40	16QAM	1	1	15.90	15.94	15.89	16.9	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	15.91	15.99	15.87	16.9	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.95	16.02	15.86	16.9	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	15.89	15.99	15.86	16.9	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.84	15.90	15.80	16.9	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.84	15.90	15.84	16.9	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.88	15.96	15.85	16.9	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	15.89	15.98	15.87	16.9	0.0	



n2 Ant 2 DSI2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
20	PL2 BPSK	1	1	21.54	21.61	21.45			
20	PL2 BPSK	1	53	21.38	21.46	21.25	23.0	0.0	
20	PL2 BPSK	1	104	21.39	21.48	21.39			
20	PL2 BPSK	50	0	20.97	21.13	21.01	22.5	0.5	
20	PL2 BPSK	50	28	21.30	21.51	21.48	23.0	0.0	
20	PL2 BPSK	50	56	20.88	21.00	21.01	22.5	0.5	
20	PL2 BPSK	100	0	20.92	20.94	20.83			
20	QPSK	1	1	21.60	21.67	21.57			
20	QPSK	1	53	21.42	21.44	21.48	23.0	0.0	
20	QPSK	1	104	21.51	21.54	21.48			
20	QPSK	50	0	20.90	20.97	20.91	22.0	1.0	
20	QPSK	50	28	21.49	21.50	21.49	23.0	0.0	
20	QPSK	50	56	20.91	20.95	20.90	22.0	1.0	
20	QPSK	100	0	20.95	20.97	20.92			
20	16QAM	1	1	20.17	20.20	20.08	22.0	1.0	
20	16QAM	1	1	18.89	18.94	18.92	20.5	2.5	
20	256QAM	1	1	17.99	17.97	17.94	18.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.53	21.59	21.51	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.47	21.55	21.48	23.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	21.51	21.58	21.47	23.0	0.0	

n66 Ant 2 DSI2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
40	PL2 BPSK	1	1	21.28	21.42	21.33			
40	PL2 BPSK	1	108	21.30	21.35	21.27	23.0	0.0	
40	PL2 BPSK	1	214	21.34	21.38	21.29			
40	PL2 BPSK	108	0	20.96	20.95	21.00	22.5	0.5	
40	PL2 BPSK	108	54	21.27	21.40	21.27	23.0	0.0	
40	PL2 BPSK	108	108	20.86	20.91	20.80	22.5	0.5	
40	PL2 BPSK	216	0	20.82	20.97	20.85			
40	QPSK	1	1	21.60	21.65	21.59			
40	QPSK	1	108	21.25	21.40	21.30	23.0	0.0	
40	QPSK	1	214	21.33	21.45	21.42			
40	QPSK	108	0	20.93	20.92	20.91	22.0	1.0	
40	QPSK	108	54	21.33	21.42	21.28	23.0	0.0	
40	QPSK	108	108	20.93	20.97	20.94	22.0	1.0	
40	QPSK	216	0	20.93	20.95	20.92			
40	16QAM	1	1	20.22	20.19	20.11	22.0	1.0	
40	16QAM	1	1	19.45	19.71	19.94	20.5	2.5	
40	256QAM	1	1	17.93	17.95	17.95	18.5	4.5	
Channel									
Frequency (MHz)									
35	QPSK	1	1	21.23	21.40	21.02			
35	QPSK	1	1	21.51	21.38	21.35	23.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.56	21.42	21.34	23.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	21.31	21.42	21.31	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.27	21.42	21.34	23.0	0.0	
Channel									
Frequency (MHz)									
16	QPSK	1	1	21.25	21.40	21.31	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.35	21.40	21.30	23.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	21.32	21.43	21.24	23.0	0.0	



Reduced Power Mode for DSI3

n5 Ant 0 DSI3								
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)								
				854	858.5	859		
20	PI/2 BPSK	1	1	22.60	22.70	22.62		
20	PI/2 BPSK	1	53	22.94	22.71	22.71	24.0	0.0
20	PI/2 BPSK	1	104	22.53	22.78	22.72		
20	PI/2 BPSK	50	0	22.15	22.32	22.24	23.5	0.5
20	PI/2 BPSK	50	28	22.52	22.71	22.66	24.0	0.0
20	PI/2 BPSK	50	56	22.11	22.31	22.28		
20	PI/2 BPSK	100	0	22.18	22.33	22.29	23.5	0.5
20	QPSK	1	1	22.66	22.80	22.77		
20	QPSK	1	53	22.50	22.64	22.64	24.0	0.0
20	QPSK	1	104	22.53	22.70	22.61		
20	QPSK	50	0	21.63	21.74	21.71	23.0	1.0
20	QPSK	50	28	22.58	22.73	22.63	24.0	0.0
20	QPSK	50	56	21.85	21.81	21.76		
20	QPSK	100	0	21.70	21.79	21.75	23.0	1.0
20	16QAM	1	1	21.71	21.78	21.76	23.0	1.0
20	64QAM	1	1	20.15	20.27	20.28	21.5	2.5
20	256QAM	1	1	18.14	18.34	18.22	19.5	4.5
Channel								
Frequency (MHz)								
				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.37	22.53	22.44	24.0	0.0
Channel								
Frequency (MHz)								
				829	836.5	844	(dBm)	MPR (dB)
10	QPSK	1	1	22.32	22.63	22.53	24.0	0.0
Channel								
Frequency (MHz)								
				826.5	836.5	846.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	22.32	22.52	22.49	24.0	0.0

n26 Ant 0 DSI3								
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)								
				824	831.5	839		
20	PI/2 BPSK	1	1	22.73	22.78	22.69		
20	PI/2 BPSK	1	53	22.69	22.73	22.67	24.0	0.0
20	PI/2 BPSK	1	104	22.73	22.62	22.68		
20	PI/2 BPSK	50	0	22.25	22.37	22.27	23.5	0.5
20	PI/2 BPSK	50	28	22.67	22.76	22.63	24.0	0.0
20	PI/2 BPSK	50	56	22.30	22.32	22.24		
20	PI/2 BPSK	100	0	22.30	22.39	22.27	23.5	0.5
20	QPSK	1	1	22.80	22.85	22.76		
20	QPSK	1	53	22.72	22.80	22.66	24.0	0.0
20	QPSK	1	104	22.74	22.81	22.70		
20	QPSK	50	0	21.78	21.92	21.79	23.0	1.0
20	QPSK	50	28	22.67	22.71	22.68	24.0	0.0
20	QPSK	50	56	21.79	21.81	21.79		
20	QPSK	100	0	21.74	21.88	21.75	23.0	1.0
20	16QAM	1	1	21.74	21.84	21.76	23.0	1.0
20	64QAM	1	1	20.34	20.39	20.24	21.5	2.5
20	256QAM	1	1	18.30	18.38	18.32	19.5	4.5
Channel								
Frequency (MHz)								
				164300	166300	166300	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.53	22.54	22.50	24.0	0.0
Channel								
Frequency (MHz)								
				819	831.5	844	(dBm)	MPR (dB)
10	QPSK	1	1	22.51	22.59	22.46	24.0	0.0
Channel								
Frequency (MHz)								
				816.5	831.5	846.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	22.46	22.55	22.41	24.0	0.0



n38 Ant 0 DSI3								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 518004	Middle Ch. / Freq. 519000	High Ch. / Freq. 519996		
Channel								
Frequency (MHz)								
40	PI/2 BPSK	1	1	19.69	19.67	19.58	20.8	0.0
40	PI/2 BPSK	1	53	19.59	19.65	19.62		
40	PI/2 BPSK	1	104	19.67	19.68	19.61		
40	PI/2 BPSK	50	0	19.65	19.69	19.05	20.8	0.0
40	PI/2 BPSK	50	28	19.60	19.75	19.68	20.8	0.0
40	PI/2 BPSK	50	56	19.67	19.70	19.69	20.8	0.0
40	PI/2 BPSK	100	0	19.55	19.66	19.68	20.8	0.0
40	QPSK	1	1	19.76	19.86	19.77	20.8	0.0
40	QPSK	1	53	19.68	19.68	19.68		
40	QPSK	1	104	19.85	19.63	19.66		
40	QPSK	50	0	19.67	19.61	19.69	20.8	0.0
40	QPSK	50	28	19.77	19.87	19.83	20.8	0.0
40	QPSK	50	56	19.69	19.63	19.62	20.8	0.0
40	QPSK	100	0	19.66	19.75	19.71	20.8	0.0
40	16QAM	1	1	19.74	19.80	19.72	20.8	0.0
40	64QAM	1	1	18.48	18.46	18.54	19.5	1.3
40	256QAM	1	1	16.50	16.67	16.41	17.5	3.3
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.63	19.82	19.73	20.8	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.62	19.81	19.74	20.8	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.62	19.79	19.74	20.8	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.61	19.73	19.72	20.8	0.0

n41 Ant 0 DSI3								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 509202	Middle Ch. / Freq. 518596	High Ch. / Freq. 528000		
Channel								
Frequency (MHz)								
100	PI/2 BPSK	1	1	19.76	19.76	19.68	20.8	0.0
100	PI/2 BPSK	1	137	19.70	19.76	19.68		
100	PI/2 BPSK	1	271	19.69	19.78	19.74		
100	PI/2 BPSK	135	0	19.77	19.82	19.69	20.8	0.0
100	PI/2 BPSK	135	69	19.68	19.82	19.74	20.8	0.0
100	PI/2 BPSK	135	138	19.74	19.74	19.74	20.8	0.0
100	PI/2 BPSK	270	0	19.67	19.77	19.70	20.8	0.0
100	QPSK	1	1	19.87	19.93	19.89	20.8	0.0
100	QPSK	1	137	19.73	19.76	19.80		
100	QPSK	1	271	19.74	19.77	19.76		
100	QPSK	135	0	19.76	19.73	19.74	20.8	0.0
100	QPSK	135	69	19.84	19.80	19.86	20.8	0.0
100	QPSK	135	138	19.72	19.76	19.71	20.8	0.0
100	QPSK	270	0	19.75	19.87	19.75	20.8	0.0
100	16QAM	1	1	19.77	19.83	19.78	20.8	0.0
100	64QAM	1	1	18.51	18.56	18.61	19.5	1.3
100	256QAM	1	1	16.59	16.61	16.51	17.5	3.3
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.69	19.81	19.77	20.8	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.75	19.73	19.78	20.8	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.77	19.75	19.81	20.8	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.68	19.72	19.79	20.8	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.68	19.80	19.78	20.8	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.70	19.80	19.70	20.8	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.73	19.82	19.77	20.8	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.78	19.82	19.76	20.8	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.78	19.81	19.72	20.8	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.77	19.77	19.71	20.8	0.0



n2 Ant 1 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				1860	1880	1900		
Frequency (MHz)								
20	PI2 BPSK	1	1	15.29	15.35	15.41		
20	PI2 BPSK	1	53	15.35	15.40	15.40	16.9	0.0
20	PI2 BPSK	1	104	15.29	15.40	15.36		
20	PI2 BPSK	50	0	15.30	15.38	15.38	16.9	0.0
20	PI2 BPSK	50	28	15.29	15.34	15.40	16.9	0.0
20	PI2 BPSK	50	56	15.30	15.37	15.30		
20	PI2 BPSK	100	0	15.37	15.43	15.39	16.9	0.0
20	QPSK	1	1	15.50	15.57	15.52		
20	QPSK	1	53	15.29	15.42	15.41	16.9	0.0
20	QPSK	1	104	15.38	15.32	15.33		
20	QPSK	50	0	15.35	15.38	15.38	16.9	0.0
20	QPSK	50	28	15.45	15.50	15.48	16.9	0.0
20	QPSK	50	56	15.38	15.32	15.38		
20	QPSK	100	0	15.32	15.41	15.38	16.9	0.0
20	16QAM	1	1	15.25	15.30	15.37	16.9	0.0
20	64QAM	1	1	15.31	15.36	15.34	16.9	0.0
20	256QAM	1	1	15.39	15.35	15.34	16.9	0.0
Channel				37150	37600	38050	Tune-up limit	MPR
Frequency (MHz)				1827.5	1880	1932.5	(dBm)	(dB)
15	QPSK	1	1	15.30	15.34	15.33	16.9	0.0
Channel				371000	376000	381000	Tune-up limit	MPR
Frequency (MHz)				1852	1880	1905	(dBm)	(dB)
10	QPSK	1	1	15.34	15.37	15.33	16.9	0.0
Channel				376500	376000	381500	Tune-up limit	MPR
Frequency (MHz)				1825.5	1880	1907.5	(dBm)	(dB)
5	QPSK	1	1	15.30	15.35	15.36	16.9	0.0

n5 Ant 1 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				166800	167500	167800		
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	22.41	22.55	22.51		
20	PI2 BPSK	1	53	22.35	22.48	22.32	24.0	0.0
20	PI2 BPSK	1	104	22.39	22.51	22.44		
20	PI2 BPSK	50	0	22.08	22.13	21.99	23.5	0.5
20	PI2 BPSK	50	28	22.47	22.51	22.44	24.0	0.0
20	PI2 BPSK	50	56	21.97	22.03	21.90		
20	PI2 BPSK	100	0	21.96	22.06	21.94	23.5	0.5
20	QPSK	1	1	22.49	22.56	22.53		
20	QPSK	1	53	22.35	22.45	22.34	24.0	0.0
20	QPSK	1	104	22.39	22.48	22.37		
20	QPSK	50	0	21.52	21.62	21.49	23.0	1.0
20	QPSK	50	28	22.30	22.41	22.31	24.0	0.0
20	QPSK	50	56	21.40	21.51	21.38		
20	QPSK	100	0	21.42	21.55	21.48	23.0	1.0
20	16QAM	1	1	21.37	21.49	21.34	23.0	1.0
20	64QAM	1	1	19.89	20.05	19.90	21.5	2.5
20	256QAM	1	1	18.25	18.39	18.25	19.5	4.5
Channel				165300	167300	169300	Tune-up limit	MPR
Frequency (MHz)				8311.5	835.5	841.5	(dBm)	(dB)
15	QPSK	1	1	22.26	22.31	22.19	24.0	0.0
Channel				165800	167300	168800	Tune-up limit	MPR
Frequency (MHz)				839	838.5	834	(dBm)	(dB)
10	QPSK	1	1	22.24	22.30	22.21	24.0	0.0
Channel				165300	167300	169300	Tune-up limit	MPR
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)
5	QPSK	1	1	22.19	22.32	22.29	24.0	0.0

n7 Ant 1 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	15.98	16.03	15.92		
40	PI2 BPSK	1	108	15.93	16.02	16.01	17.4	0.0
40	PI2 BPSK	1	214	16.00	16.04	15.98		
40	PI2 BPSK	108	0	16.00	15.96	15.95	17.4	0.0
40	PI2 BPSK	108	54	16.01	16.02	16.03	17.4	0.0
40	PI2 BPSK	108	108	15.97	15.94	16.03		
40	PI2 BPSK	216	0	15.93	15.98	16.00	17.4	0.0
40	QPSK	1	1	16.08	16.12	16.10		
40	QPSK	1	108	15.93	16.05	16.03	17.4	0.0
40	QPSK	1	214	15.96	16.05	16.00		
40	QPSK	108	0	15.98	16.03	15.95	17.4	0.0
40	QPSK	108	54	16.05	16.07	15.99	17.4	0.0
40	QPSK	108	108	16.01	15.95	15.95		
40	QPSK	216	0	15.98	16.05	15.98	17.4	0.0
40	16QAM	1	1	15.99	15.95	15.95	17.4	0.0
40	64QAM	1	1	15.94	15.96	16.00	17.4	0.0
40	256QAM	1	1	15.94	16.02	16.00	17.4	0.0
Channel				503000	507000	511000	Tune-up limit	MPR
Frequency (MHz)				2515	2535	2555	(dBm)	(dB)
30	QPSK	1	1	15.95	16.01	16.03	17.4	0.0
Channel				502500	507000	511500	Tune-up limit	MPR
Frequency (MHz)				2512.5	2535	2537.5	(dBm)	(dB)
25	QPSK	1	1	16.01	15.98	15.92	17.4	0.0
Channel				502000	507000	512000	Tune-up limit	MPR
Frequency (MHz)				2510	2535	2560	(dBm)	(dB)
20	QPSK	1	1	15.99	16.02	15.92	17.4	0.0
Channel				501500	507000	512500	Tune-up limit	MPR
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)
15	QPSK	1	1	16.00	16.02	15.96	17.4	0.0
Channel				501000	507000	513000	Tune-up limit	MPR
Frequency (MHz)				2505	2535	2565	(dBm)	(dB)
10	QPSK	1	1	15.93	16.00	15.98	17.4	0.0
Channel				500500	507000	513500	Tune-up limit	MPR
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)
5	QPSK	1	1	15.93	16.03	15.94	17.4	0.0



n26 Ant 1 DSI3								
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 164800	Middle Ch. / Freq. 166300	High Ch. / Freq. 167800		
Channel								
Frequency (MHz)				824	831.5	839		
20	PI2 BPSK	1	1	22.38	22.51	22.45	24.0	0.0
20	PI2 BPSK	1	53	22.30	22.39	22.28		
20	PI2 BPSK	1	104	22.31	22.46	22.37		
20	PI2 BPSK	50	0	22.04	22.16	22.11	23.5	0.5
20	PI2 BPSK	50	28	22.29	22.38	22.32	24.0	0.0
20	PI2 BPSK	50	56	21.89	22.00	21.88		
20	PI2 BPSK	100	0	22.02	22.07	22.00	23.5	0.5
20	QPSK	1	1	22.47	22.56	22.49		
20	QPSK	1	53	22.40	22.46	22.38	24.0	0.0
20	QPSK	1	104	22.41	22.52	22.40		
20	QPSK	50	0	21.58	21.66	21.51	23.0	1.0
20	QPSK	50	28	22.39	22.45	22.42	24.0	0.0
20	QPSK	50	56	21.37	21.52	21.36		
20	QPSK	100	0	21.49	21.55	21.46	23.0	1.0
20	16QAM	1	1	21.40	21.49	21.34	23.0	1.0
20	64QAM	1	1	19.98	20.02	19.97	21.5	2.5
20	256QAM	1	1	18.25	18.30	18.17	19.5	4.5
Channel								
Frequency (MHz)				163300	166300	168300	Tune-up limit (dBm)	MPR (dB)
Channel				811.5	831.5	841.5		
15	QPSK	1	1	22.36	22.47	22.39	24.0	0.0
Channel								
Frequency (MHz)				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)
Channel				819	831.5	841		
10	QPSK	1	1	22.32	22.53	22.37	24.0	0.0
Channel								
Frequency (MHz)				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Channel				816.5	831.5	846.5		
5	QPSK	1	1	22.34	22.46	22.39	24.0	0.0

n66 Ant 1 DSI3								
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 346000	Middle Ch. / Freq. 348000	High Ch. / Freq. 352000		
Channel								
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	15.68	15.78	15.72		
40	PI2 BPSK	1	108	15.65	15.78	15.66	16.8	0.0
40	PI2 BPSK	1	214	15.75	15.71	15.70		
40	PI2 BPSK	108	0	15.65	15.67	15.69	16.8	0.0
40	PI2 BPSK	108	54	15.72	15.71	15.66	16.8	0.0
40	PI2 BPSK	108	108	15.72	15.69	15.69		
40	PI2 BPSK	216	0	15.68	15.79	15.74	16.8	0.0
40	QPSK	1	1	15.82	15.85	15.80		
40	QPSK	1	108	15.73	15.72	15.70	16.8	0.0
40	QPSK	1	214	15.65	15.77	15.84		
40	QPSK	108	0	15.74	15.76	15.74	16.8	0.0
40	QPSK	108	54	15.81	15.83	15.81	16.8	0.0
40	QPSK	108	108	15.74	15.68	15.72		
40	QPSK	216	0	15.72	15.78	15.74	16.8	0.0
40	16QAM	1	1	15.76	15.69	15.66	16.8	0.0
40	64QAM	1	1	15.64	15.74	15.63	16.8	0.0
40	256QAM	1	1	15.72	15.75	15.64	16.8	0.0
Channel								
Frequency (MHz)				345000	348000	352000	Tune-up limit (dBm)	MPR (dB)
Channel				1727.5	1745	1762.5		
35	QPSK	1	1	15.66	15.72	15.70	16.8	0.0
Channel								
Frequency (MHz)				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Channel				1725	1745	1765		
30	QPSK	1	1	15.73	15.70	15.62	16.8	0.0
Channel								
Frequency (MHz)				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)
Channel				1722.5	1745	1767.5		
25	QPSK	1	1	15.72	15.70	15.64	16.8	0.0
Channel								
Frequency (MHz)				345000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Channel				1730	1745	1770		
20	QPSK	1	1	15.70	15.79	15.66	16.8	0.0
Channel								
Frequency (MHz)				345000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Channel				1727.5	1745	1772.5		
15	QPSK	1	1	15.66	15.69	15.67	16.8	0.0
Channel								
Frequency (MHz)				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Channel				1715	1745	1775		
10	QPSK	1	1	15.70	15.75	15.67	16.8	0.0
Channel								
Frequency (MHz)				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Channel				1712.5	1745	1777.5		
5	QPSK	1	1	15.70	15.77	15.64	16.8	0.0



n38 Ant 1 DSI3								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 518004	Middle Ch. / Freq. 519000	High Ch. / Freq. 519996		
Channel				2590.02	2595	2599.98		
Frequency (MHz)								
40	PI/2 BPSK	1	1	15.87	15.81	15.73	17.3	0.0
40	PI/2 BPSK	1	53	15.81	15.88	15.94		
40	PI/2 BPSK	1	104	15.88	15.87	15.78		
40	PI/2 BPSK	50	0	15.85	15.84	15.78	17.3	0.0
40	PI/2 BPSK	50	28	15.85	15.83	15.85	17.3	0.0
40	PI/2 BPSK	80	88	15.71	15.94	15.76		
40	PI/2 BPSK	100	0	15.81	15.81	15.77	17.3	0.0
40	QPSK	1	1	15.90	16.01	15.86		
40	QPSK	1	53	15.81	15.85	15.79	17.3	0.0
40	QPSK	1	104	15.78	15.88	15.75		
40	QPSK	50	0	15.88	15.90	15.84	17.3	0.0
40	QPSK	50	28	15.93	15.95	15.86	17.3	0.0
40	QPSK	50	58	15.81	15.83	15.78	17.3	0.0
40	QPSK	100	0	15.81	15.90	15.84	17.3	0.0
40	16QAM	1	1	15.77	15.78	15.82	17.3	0.0
40	16QAM	1	1	15.77	15.82	15.71	17.3	0.0
40	256QAM	1	1	15.79	15.88	15.79	17.3	0.0
Channel				5170.02	519000	520996		
Frequency (MHz)				2585.91	2595	2604.98		
30	QPSK	1	1	15.82	15.89	15.79	17.3	0.0
Channel				516000	519000	520000		
Frequency (MHz)				2590	2595	2610		
20	QPSK	1	1	15.87	15.83	15.81	17.3	0.0
Channel				515502	519000	524998		
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	15.84	15.98	15.73	17.3	0.0
Channel				515204	519000	526996		
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	15.81	15.87	15.81	17.3	0.0

n41 Ant 1 DSI3								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 509202	Middle Ch. / Freq. 518598	High Ch. / Freq. 528000		
Channel				2546.01	2592.99	2640		
Frequency (MHz)								
100	PI/2 BPSK	1	1	15.90	15.94	15.86		
100	PI/2 BPSK	1	137	15.91	15.94	15.91	17.3	0.0
100	PI/2 BPSK	1	271	15.94	15.91	15.86		
100	PI/2 BPSK	135	0	15.95	15.93	15.92	17.3	0.0
100	PI/2 BPSK	135	69	15.92	15.87	15.89	17.3	0.0
100	PI/2 BPSK	135	138	15.95	15.88	15.95		
100	PI/2 BPSK	270	0	15.88	15.90	15.90	17.3	0.0
100	QPSK	1	1	16.02	16.05	16.00		
100	QPSK	1	137	15.95	15.94	15.87	17.3	0.0
100	QPSK	1	271	15.98	15.89	15.86		
100	QPSK	135	0	15.92	15.97	15.88	17.3	0.0
100	QPSK	135	69	15.99	16.01	15.92	17.3	0.0
100	QPSK	135	138	15.90	15.96	15.87	17.3	0.0
100	QPSK	270	0	15.95	15.97	15.92		
100	16QAM	1	1	15.90	15.88	15.88	17.3	0.0
100	64QAM	1	1	15.89	15.89	15.84	17.3	0.0
100	256QAM	1	1	15.87	15.96	15.83	17.3	0.0
Channel				509200	518598	528000		
Frequency (MHz)				2551	2592.99	2644.98		
90	QPSK	1	1	15.92	15.90	15.87	17.3	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2538.02	2592.99	2648.99		
80	QPSK	1	1	15.94	15.87	15.84	17.3	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	15.90	15.83	15.85	17.3	0.0
Channel				505200	518598	533998		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	15.93	15.96	15.92	17.3	0.0
Channel				504204	518598	536998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	15.86	15.89	15.87	17.3	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	15.90	15.91	15.84	17.3	0.0
Channel				502200	518598	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	15.95	15.95	15.91	17.3	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	15.94	15.92	15.91	17.3	0.0
Channel				500700	518598	538498		
Frequency (MHz)				2503.15	2592.99	2682.48		
15	QPSK	1	1	15.90	15.92	15.90	17.3	0.0
Channel				500202	518598	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	15.90	15.99	15.83	17.3	0.0



n2 Ant 2 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.		
Channel				1860	1860	1900		
Frequency (MHz)								
20	PI2 BPSK	1	1	20.47	20.45	20.49	21.7	0.0
20	PI2 BPSK	1	59	20.48	20.50	20.48		
20	PI2 BPSK	1	104	20.42	20.54	20.50		
20	PI2 BPSK	50	0	20.43	20.50	20.42	21.7	0.0
20	PI2 BPSK	50	28	20.44	20.46	20.49	21.7	0.0
20	PI2 BPSK	50	56	20.50	20.48	20.41	21.7	0.0
20	PI2 BPSK	100	0	20.52	20.52	20.50		
20	QPSK	1	1	20.62	20.65	20.60		
20	QPSK	1	53	20.46	20.54	20.47	21.7	0.0
20	QPSK	1	104	20.52	20.53	20.47	21.7	0.0
20	QPSK	50	0	20.43	20.50	20.51		
20	QPSK	50	28	20.51	20.62	20.48		
20	QPSK	50	56	20.48	20.48	20.48	21.7	0.0
20	QPSK	100	0	20.52	20.54	20.53	21.7	0.0
20	16QAM	1	1	20.48	20.55	20.48		
20	64QAM	1	1	20.32	20.37	20.38		
20	256QAM	1	1	18.46	18.41	18.35	19.5	2.2
Channel				37150	37600	38050	Tune-up limit	MPR
Frequency (MHz)				1857.5	1860	1902.5	(dBm)	(dB)
15	QPSK	1	1	20.48	20.47	20.43	21.7	0.0
Channel				371000	376000	381000	Tune-up limit	MPR
Frequency (MHz)				1855	1860	1905	(dBm)	(dB)
10	QPSK	1	1	20.52	20.56	20.43	21.7	0.0
Channel				370500	376000	381500	Tune-up limit	MPR
Frequency (MHz)				1852.5	1860	1907.5	(dBm)	(dB)
5	QPSK	1	1	20.47	20.52	20.47	21.7	0.0

n7 Ant 2 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.		
Channel				50400	50700	51000		
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	19.92	20.06	19.99	21.3	0.0
40	PI2 BPSK	1	109	19.94	20.05	19.95		
40	PI2 BPSK	1	214	20.02	19.95	20.00		
40	PI2 BPSK	108	0	20.01	19.97	19.99	21.3	0.0
40	PI2 BPSK	108	54	19.95	20.00	19.98	21.3	0.0
40	PI2 BPSK	108	108	19.92	20.00	19.98	21.3	0.0
40	PI2 BPSK	216	0	19.96	20.02	20.04		
40	QPSK	1	1	20.11	20.15	20.13		
40	QPSK	1	108	19.95	20.03	19.95	21.3	0.0
40	QPSK	1	214	19.95	19.98	20.00	21.3	0.0
40	QPSK	108	0	19.91	20.05	19.97		
40	QPSK	108	54	20.00	20.10	20.05		
40	QPSK	108	108	19.99	20.06	20.00	21.3	0.0
40	QPSK	216	0	19.97	20.06	20.02	21.3	0.0
40	16QAM	1	1	19.85	20.03	20.00		
40	64QAM	1	1	20.02	19.99	19.98		
40	256QAM	1	1	18.33	18.41	18.36	19.5	1.8
Channel				508000	507000	511000	Tune-up limit	MPR
Frequency (MHz)				2515	2535	2555	(dBm)	(dB)
30	QPSK	1	1	20.01	20.04	19.98	21.3	0.0
Channel				502500	507000	511500	Tune-up limit	MPR
Frequency (MHz)				2512.5	2535	2557.5	(dBm)	(dB)
25	QPSK	1	1	19.98	20.03	19.97	21.3	0.0
Channel				502000	507000	512000	Tune-up limit	MPR
Frequency (MHz)				2510	2535	2560	(dBm)	(dB)
20	QPSK	1	1	19.95	19.95	19.94	21.3	0.0
Channel				501500	507000	512500	Tune-up limit	MPR
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)
15	QPSK	1	1	19.94	20.05	19.99	21.3	0.0
Channel				501000	507000	513000	Tune-up limit	MPR
Frequency (MHz)				2505	2535	2565	(dBm)	(dB)
10	QPSK	1	1	19.93	19.99	19.97	21.3	0.0
Channel				500500	507000	513500	Tune-up limit	MPR
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)
5	QPSK	1	1	20.00	20.03	20.02	21.3	0.0

n66 Ant 2 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.		
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	20.45	20.48	20.50	21.9	0.0
40	PI2 BPSK	1	108	20.51	20.48	20.48		
40	PI2 BPSK	1	214	20.44	20.48	20.39		
40	PI2 BPSK	108	0	20.47	20.48	20.49	21.9	0.0
40	PI2 BPSK	108	54	20.48	20.45	20.38	21.9	0.0
40	PI2 BPSK	108	108	20.45	20.51	20.40	21.9	0.0
40	PI2 BPSK	216	0	20.44	20.53	20.42		
40	QPSK	1	1	20.58	20.61	20.56		
40	QPSK	1	108	20.41	20.43	20.45	21.9	0.0
40	QPSK	1	214	20.42	20.54	20.46	21.9	0.0
40	QPSK	108	0	20.45	20.48	20.41		
40	QPSK	108	54	20.55	20.58	20.46		
40	QPSK	108	108	20.48	20.46	20.41	21.9	0.0
40	QPSK	216	0	20.46	20.52	20.48	21.9	0.0
40	16QAM	1	1	20.47	20.53	20.38		
40	64QAM	1	1	20.17	20.22	20.11		
40	256QAM	1	1	18.19	18.23	18.15	19.5	2.4
Channel				345500	349000	352500	Tune-up limit	MPR
Frequency (MHz)				1727.5	1745	1762.5	(dBm)	(dB)
35	QPSK	1	1	20.41	20.47	20.43	21.9	0.0
Channel				345000	349000	353000	Tune-up limit	MPR
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)
30	QPSK	1	1	20.47	20.44	20.45	21.9	0.0
Channel				344500	349000	353500	Tune-up limit	MPR
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)
25	QPSK	1	1	20.44	20.48	20.40	21.3	0.0
Channel				344000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	QPSK	1	1	20.42	20.45	20.48	21.9	0.0
Channel				343500	349000	354500	Tune-up limit	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	QPSK	1	1	20.50	20.55	20.45	21.9	0.0
Channel				343000	349000	355000	Tune-up limit	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	QPSK	1	1	20.49	20.45	20.44	21.9	0.0
Channel				342500	349000	355500	Tune-up limit	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	QPSK	1	1	20.41	20.55	20.40	21.9	0.0



n38 Ant 2 DSI3								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 518004	Middle Ch. / Freq. 519000	High Ch. / Freq. 519996		
Channel				2590.02	2595	2599.98		
Frequency (MHz)								
40	PI/2 BPSK	1	1	19.93	19.94	19.97	21.1	0.0
40	PI/2 BPSK	1	53	19.96	19.98	19.97		
40	PI/2 BPSK	1	104	19.92	19.98	19.82		
40	PI/2 BPSK	50	0	19.93	20.04	19.96	21.1	0.0
40	PI/2 BPSK	50	28	19.99	19.99	19.98	21.1	0.0
40	PI/2 BPSK	50	58	19.90	19.96	19.92		
40	PI/2 BPSK	100	0	19.85	20.02	19.92	21.1	0.0
40	QPSK	1	1	20.08	20.12	20.05		
40	QPSK	1	53	19.93	19.91	19.88	21.1	0.0
40	QPSK	1	104	19.96	19.95	19.93		
40	QPSK	50	0	19.93	19.95	19.92	21.1	0.0
40	QPSK	50	28	20.01	20.07	20.01	21.1	0.0
40	QPSK	50	58	19.96	19.95	19.84	21.1	0.0
40	QPSK	100	0	20.02	20.08	20.02	21.1	0.0
40	16QAM	1	1	20.00	20.01	19.92	21.1	0.0
40	64QAM	1	1	19.94	19.99	19.96	21.1	0.0
40	256QAM	1	1	18.54	18.49	18.45	19.5	1.6
Channel				517002	519000	520998		
Frequency (MHz)				2585.91	2595	2604.98		
30	QPSK	1	1	20.00	20.01	20.01	21.1	0.0
Channel				516000	519000	520000		
Frequency (MHz)				2590	2595	2610		
20	QPSK	1	1	19.97	20.03	20.01	21.1	0.0
Channel				515502	519000	524988		
Frequency (MHz)				2577.51	2595	2612.49		
15	QPSK	1	1	20.00	19.98	19.99	21.1	0.0
Channel				515004	519000	526996		
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	19.99	19.99	20.01	21.1	0.0

n41 Ant 2 DSI3								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 509202	Middle Ch. / Freq. 518598	High Ch. / Freq. 528000		
Channel				2546.01	2592.99	2640		
Frequency (MHz)								
100	PI/2 BPSK	1	1	20.00	20.08	20.01	21.1	0.0
100	PI/2 BPSK	1	137	19.99	20.01	19.97		
100	PI/2 BPSK	1	271	19.98	20.10	19.95		
100	PI/2 BPSK	135	0	20.03	20.07	20.02	21.1	0.0
100	PI/2 BPSK	135	69	20.01	20.03	20.03	21.1	0.0
100	PI/2 BPSK	135	138	20.01	20.08	19.96		
100	PI/2 BPSK	270	0	19.98	20.05	19.99	21.1	0.0
100	QPSK	1	1	20.18	20.20	20.15		
100	QPSK	1	137	19.99	20.03	19.95	21.1	0.0
100	QPSK	1	271	20.03	20.08	19.97		
100	QPSK	135	0	20.06	20.02	19.96	21.1	0.0
100	QPSK	135	69	20.15	20.16	20.08	21.1	0.0
100	QPSK	135	138	20.01	20.08	19.96	21.1	0.0
100	QPSK	270	0	20.16	20.13	20.10		
100	16QAM	1	1	20.03	20.04	19.95	21.1	0.0
100	64QAM	1	1	20.05	20.06	20.01	21.1	0.0
100	256QAM	1	1	18.58	18.61	18.52	19.5	1.8
Channel				509200	518598	528000		
Frequency (MHz)				2551	2592.99	2644.98		
90	QPSK	1	1	19.98	20.03	19.95	21.1	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2538.02	2592.99	2648.99		
80	QPSK	1	1	20.05	20.03	20.03	21.1	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	20.08	20.05	19.99	21.1	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	20.08	20.04	20.01	21.1	0.0
Channel				502204	518598	534998		
Frequency (MHz)				2511.02	2592.99	2664.98		
50	QPSK	1	1	20.02	20.01	20.04	21.1	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.98	20.10	20.05	21.1	0.0
Channel				502200	518598	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	20.01	20.07	19.98	21.1	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.97	20.10	19.98	21.1	0.0
Channel				500700	518598	536498		
Frequency (MHz)				2503.15	2592.99	2682.48		
15	QPSK	1	1	19.98	20.01	20.05	21.1	0.0
Channel				500202	518598	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	20.08	20.05	20.05	21.1	0.0



Part270 n77 Ant 4 DS13

Ch. Freq.	Power Low	Power Middle	Power High	Modulation	RB Size	RB Offset	Tune-up limit (dBm)	MPR (dB)
Channel	650000	650000	650000					
Frequency (MHz)	3750	3840	3930					
100	PI2 BPSK	1	1	17.84	17.85	17.87		
100	PI2 BPSK	1	137	17.86	17.89	17.88	19.0	0.0
100	PI2 BPSK	1	271	17.80	17.95	17.89		
100	PI2 BPSK	135	0	17.81	17.95	17.91	19.0	0.0
100	PI2 BPSK	135	69	17.78	17.95	17.81	19.0	0.0
100	PI2 BPSK	135	138	17.84	17.85	17.89	19.0	0.0
100	PI2 BPSK	270	0	17.89	17.88	17.85		
100	QPSK	1	1	18.04	18.05	18.03		
100	QPSK	1	137	17.77	17.90	17.89	19.0	0.0
100	QPSK	1	271	17.85	17.85	17.86		
100	QPSK	135	0	17.80	17.85	17.91	19.0	0.0
100	QPSK	135	69	17.95	18.02	17.98	19.0	0.0
100	QPSK	135	138	17.80	17.84	17.82	19.0	0.0
100	QPSK	270	0	17.87	17.89	17.86		
100	16QAM	1	1	17.78	17.85	17.81	19.0	0.0
100	16QAM	1	1	17.79	17.85	17.80	19.0	0.0
100	256QAM	1	1	17.80	17.95	17.87	19.0	0.0
Channel	649668	650000	650334	Tune-up limit	MPR			
Frequency (MHz)	3745.02	3840	3935.01	(dBm)	(dB)			
90	QPSK	1	1	17.81	17.91	17.85	19.0	0.0
Channel	649334	650000	650668	Tune-up limit	MPR			
Frequency (MHz)	3740.01	3840	3940.02	(dBm)	(dB)			
80	QPSK	1	1	17.79	17.90	17.82	19.0	0.0
Channel	649000	650000	653000	Tune-up limit	MPR			
Frequency (MHz)	3735	3840	3945	(dBm)	(dB)			
70	QPSK	1	1	17.76	17.92	17.84	19.0	0.0
Channel	648668	650000	653334	Tune-up limit	MPR			
Frequency (MHz)	3730.02	3840	3950.01	(dBm)	(dB)			
60	QPSK	1	1	17.81	17.95	17.87	19.0	0.0
Channel	648334	650000	653668	Tune-up limit	MPR			
Frequency (MHz)	3725.01	3840	3955.02	(dBm)	(dB)			
50	QPSK	1	1	17.85	17.85	17.90	19.0	0.0
Channel	648000	650000	664000	Tune-up limit	MPR			
Frequency (MHz)	3720	3840	3960	(dBm)	(dB)			
40	QPSK	1	1	17.81	17.90	17.87	19.0	0.0
Channel	647668	650000	664334	Tune-up limit	MPR			
Frequency (MHz)	3715.02	3840	3965.01	(dBm)	(dB)			
30	QPSK	1	1	17.87	17.92	17.87	19.0	0.0
Channel	647334	650000	664668	Tune-up limit	MPR			
Frequency (MHz)	3710.01	3840	3970.02	(dBm)	(dB)			
20	QPSK	1	1	17.79	17.88	17.90	19.0	0.0
Channel	647168	650000	664834	Tune-up limit	MPR			
Frequency (MHz)	3705.02	3840	3975.01	(dBm)	(dB)			
15	QPSK	1	1	17.82	17.88	17.82	19.0	0.0
Channel	647000	650000	665000	Tune-up limit	MPR			
Frequency (MHz)	3705	3840	3975	(dBm)	(dB)			
10	QPSK	1	1	17.88	17.80	17.90	19.0	0.0

Part270 n77 HPUE Ant 4 DS13

Ch. Freq.	Power Low	Power Middle	Power High	Modulation	RB Size	RB Offset	Tune-up limit (dBm)	MPR (dB)
Channel	650000	650000	650000					
Frequency (MHz)	3750	3840	3930					
100	PI2 BPSK	1	1	20.80	20.92	20.81		
100	PI2 BPSK	1	137	20.86	20.90	20.79	22.0	0.0
100	PI2 BPSK	1	271	20.82	20.88	20.87		
100	PI2 BPSK	135	0	20.79	20.91	20.83	22.0	0.0
100	PI2 BPSK	135	69	20.83	20.93	20.90	22.0	0.0
100	PI2 BPSK	135	138	20.81	20.92	20.88	22.0	0.0
100	PI2 BPSK	270	0	20.80	20.91	20.80		
100	QPSK	1	1	20.98	21.05	20.98		
100	QPSK	1	137	20.81	20.90	20.90	22.0	0.0
100	QPSK	1	271	20.80	20.86	20.90		
100	QPSK	135	0	20.79	20.86	20.89	22.0	0.0
100	QPSK	135	69	20.95	21.00	20.98	22.0	0.0
100	QPSK	135	138	20.83	20.92	20.84	22.0	0.0
100	QPSK	270	0	20.86	20.93	20.90		
100	16QAM	1	1	20.97	20.92	20.85	22.0	0.0
100	16QAM	1	1	20.85	20.82	20.80	22.0	0.0
100	256QAM	1	1	20.78	20.85	20.82	22.0	0.0
Channel	649668	650000	650334	Tune-up limit	MPR			
Frequency (MHz)	3745.02	3840	3935.01	(dBm)	(dB)			
90	QPSK	1	1	20.87	20.88	20.84	22.0	0.0
Channel	649334	650000	650668	Tune-up limit	MPR			
Frequency (MHz)	3740.01	3840	3940.02	(dBm)	(dB)			
80	QPSK	1	1	20.82	20.92	20.81	22.0	0.0
Channel	649000	650000	653000	Tune-up limit	MPR			
Frequency (MHz)	3735	3840	3945	(dBm)	(dB)			
70	QPSK	1	1	20.80	20.83	20.83	22.0	0.0
Channel	648668	650000	653334	Tune-up limit	MPR			
Frequency (MHz)	3730.02	3840	3950.01	(dBm)	(dB)			
60	QPSK	1	1	20.85	20.83	20.83	22.0	0.0
Channel	648334	650000	653668	Tune-up limit	MPR			
Frequency (MHz)	3725.01	3840	3955.02	(dBm)	(dB)			
50	QPSK	1	1	20.83	20.87	20.85	22.0	0.0
Channel	648000	650000	664000	Tune-up limit	MPR			
Frequency (MHz)	3720	3840	3960	(dBm)	(dB)			
40	QPSK	1	1	20.87	20.90	20.82	22.0	0.0
Channel	647668	650000	664334	Tune-up limit	MPR			
Frequency (MHz)	3715.02	3840	3965.01	(dBm)	(dB)			
30	QPSK	1	1	20.81	20.88	20.90	22.0	0.0
Channel	647334	650000	664668	Tune-up limit	MPR			
Frequency (MHz)	3710.01	3840	3970.02	(dBm)	(dB)			
20	QPSK	1	1	20.81	20.91	20.87	22.0	0.0
Channel	647168	650000	664834	Tune-up limit	MPR			
Frequency (MHz)	3705.02	3840	3975.01	(dBm)	(dB)			
15	QPSK	1	1	20.82	20.82	20.81	22.0	0.0
Channel	647000	650000	665000	Tune-up limit	MPR			
Frequency (MHz)	3705	3840	3975	(dBm)	(dB)			
10	QPSK	1	1	20.86	20.84	20.81	22.0	0.0

Part270 n78 Ant 4 DS13

Ch. Freq.	Power Low	Power Middle	Power High	Modulation	RB Size	RB Offset	Tune-up limit (dBm)	MPR (dB)
Channel	650000	650000	650000					
Frequency (MHz)	3750	3750	3750					
100	PI2 BPSK	1	1	17.72				
100	PI2 BPSK	1	137	17.86			19.0	0.0
100	PI2 BPSK	1	271	17.83				
100	PI2 BPSK	135	0	17.86			19.0	0.0
100	PI2 BPSK	135	69	17.87			19.0	0.0
100	PI2 BPSK	135	138	17.80			19.0	0.0
100	PI2 BPSK	270	0	17.80				
100	QPSK	1	1	17.95				
100	QPSK	1	137	17.85			19.0	0.0
100	QPSK	1	271	17.77				
100	QPSK	135	0	17.73			19.0	0.0
100	QPSK	135	69	17.87			19.0	0.0
100	QPSK	135	138	17.72			19.0	0.0
100	QPSK	270	0	17.82				
100	16QAM	1	1	17.82			19.0	0.0
100	16QAM	1	1	17.79			19.0	0.0
100	256QAM	1	1	17.80			19.0	0.0
Channel	649668	650000	650334	Tune-up limit	MPR			
Frequency (MHz)	3745.02	3750	3755.01	(dBm)	(dB)			
90	QPSK	1	1	17.82	17.80	17.94	19.0	0.0
Channel	649334	650000	650668	Tune-up limit	MPR			
Frequency (MHz)	3740.01	3750	3740.02	(dBm)	(dB)			
80	QPSK	1	1	17.81	17.87	17.83	19.0	0.0
Channel	649000	650000	651000	Tune-up limit	MPR			
Frequency (MHz)	3735	3750	3765	(dBm)	(dB)			
70	QPSK	1	1	17.88	17.92	17.83	19.0	0.0
Channel	648668	650000	651334	Tune-up limit	MPR			
Frequency (MHz)	3730.02	3750	3770.01	(dBm)	(dB)			
60	QPSK	1	1	17.83	17.90	17.87	19.0	0.0
Channel	648334	650000	651668	Tune-up limit	MPR			
Frequency (MHz)	3725.01	3750	3785.02	(dBm)	(dB)			
50	QPSK	1	1	17.84	17.87	17.91	19.0	0.0
Channel	648000	650000	652000	Tune-up limit	MPR			
Frequency (MHz)	3720	3750	3790.02	(dBm)	(dB)			
40	QPSK	1	1	17.92	17.89	17.93	19.0	0.0
Channel	647668	650000	652334	Tune-up limit	MPR			
Frequency (MHz)	3715.02	3750	3785.01	(dBm)	(dB)			
30	QPSK	1	1	17.82	17.94	17.88	19.0	0.0
Channel	647334	650000	652668	Tune-up limit	MPR			
Frequency (MHz)	3710.01	3750	3790.02	(dBm)	(dB)			
20	QPSK	1	1	17.80	17.93	17.89	19.0	0.0
Channel	647168	650000	652834	Tune-up limit	MPR			
Frequency (MHz)	3705.02	3750	3785.01	(dBm)	(dB)			
15	QPSK	1	1	17.82	17.91	17.87	19.0	0.0
Channel	647000	650000	653000	Tune-up limit	MPR			
Frequency (MHz)	3705	3750	3795	(dBm)	(dB)			
10	QPSK	1	1	17.87	17.88	17.80	19.0	0.0



Part270 n78 HPUE Ant 4 DSI3

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	PI/2 BPSK	1	1	3750	3750	3750		
100	PI/2 BPSK	1	137		20.81			
100	PI/2 BPSK	1	271		20.78		22.0	0.0
100	PI/2 BPSK	135	0		20.82			
100	PI/2 BPSK	135	69		20.83		22.0	0.0
100	PI/2 BPSK	135	138		20.85			
100	PI/2 BPSK	270	0		20.85		22.0	0.0
100	QPSK	1	1		20.82			
100	QPSK	1	137		20.75		22.0	0.0
100	QPSK	1	271		20.81			
100	QPSK	135	0		20.71		22.0	0.0
100	QPSK	135	69		20.88		22.0	0.0
100	QPSK	135	138		20.82		22.0	0.0
100	QPSK	270	0		20.91			
100	16QAM	1	1		20.73		22.0	0.0
100	64QAM	1	1		20.71		22.0	0.0
100	256QAM	1	1		20.75		22.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	649688	650000	650334		MPR
				3745.02	3750	3755.01		(dB)
				20.85	20.91	20.88	22.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	649334	650000	650668		MPR
				3749.01	3750	3763.02		(dB)
				20.79	20.84	20.84	22.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	649000	650000	651000		MPR
				3735	3750	3765		(dB)
				20.79	20.85	20.85	22.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	648668	650000	651334		MPR
				3730.02	3750	3770.01		(dB)
				20.80	20.90	20.77	22.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	648334	650000	651668		MPR
				3725.01	3750	3765.00		(dB)
				20.83	20.88	20.87	22.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	648000	650000	652000		MPR
				3720	3750	3750		(dB)
				20.82	20.90	20.81	22.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	647668	650000	652334		MPR
				3715.02	3750	3785.01		(dB)
				20.84	20.88	20.86	22.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	647334	650000	652668		MPR
				3710.01	3750	3790.02		(dB)
				20.84	20.87	20.80	22.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	647168	650000	652834		MPR
				3707.62	3750	3782.5		(dB)
				20.78	20.90	20.82	22.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	647000	650000	653000		MPR
				3705	3750	3795		(dB)
				20.85	20.87	20.78	22.0	0.0



Part270 n77 Ant 5 DS13

Table with 10 columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low, Power Middle, Power High, Tune-up limit (dBm), MPR (dB). Contains multiple rows of channel data for Part270 n77 Ant 5 DS13.

Part270 n77 HPUE Ant 5 DS13

Table with 10 columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low, Power Middle, Power High, Tune-up limit (dBm), MPR (dB). Contains multiple rows of channel data for Part270 n77 HPUE Ant 5 DS13.

Part270 n78 Ant 5 DS13

Table with 10 columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low, Power Middle, Power High, Tune-up limit (dBm), MPR (dB). Contains multiple rows of channel data for Part270 n78 Ant 5 DS13.



Part270 n78 HPUE Ant 5 DSI3

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	PI/2 BPSK	1	1	3750	3750	3750		
100	PI/2 BPSK	1	137		19.60			
100	PI/2 BPSK	1	271		19.52		20.8	0.0
100	PI/2 BPSK	135	0		19.61			
100	PI/2 BPSK	135	69		19.62		20.8	0.0
100	PI/2 BPSK	135	138		19.55			
100	PI/2 BPSK	270	0		19.54		20.8	0.0
100	QPSK	1	1		19.69			
100	QPSK	1	137		19.62		20.8	0.0
100	QPSK	1	271		19.52			
100	QPSK	135	0		19.54		20.8	0.0
100	QPSK	135	69		19.66			
100	QPSK	135	138		19.63		20.8	0.0
100	QPSK	270	0		19.62			
100	16QAM	1	1		19.63		20.8	0.0
100	64QAM	1	1		19.63		20.8	0.0
100	256QAM	1	1		19.55		20.8	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	649688	650000	650334	MPR	
Channel								
Frequency (MHz)								
80	QPSK	1	1	3745.02	3750	3755.01	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.65	19.64	19.55	20.8	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	3730.02	3750	3770.01	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.58	19.63	19.62	20.8	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	648000	650000	652000	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
30	QPSK	1	1	3720	3750	3780	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
20	QPSK	1	1	647688	650000	652334	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
15	QPSK	1	1	3715.02	3750	3785.01	Tune-up limit (dBm)	MPR
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.60	19.60	19.57	20.8	0.0



Part270 n77 Ant 7 DS14

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 650000	Middle Ch. Freq. 650000	High Ch. Freq. 650000		
	Channel			3750	3840	3930		
	Frequency (MHz)			3750	3840	3930		
100	PI2 BPSK	1	1	17.98	18.01	17.89		
100	PI2 BPSK	1	137	18.04	18.11	18.04	19.5	0.0
100	PI2 BPSK	1	271	17.97	18.06	18.08		
100	PI2 BPSK	135	0	18.03	18.11	18.03	19.5	0.0
100	PI2 BPSK	135	69	18.05	18.09	18.03	19.5	0.0
100	PI2 BPSK	135	138	18.00	18.04	17.89	19.5	0.0
100	PI2 BPSK	270	0	18.03	18.03	17.89	19.5	0.0
100	QPSK	1	1	18.15	18.20	18.18		
100	QPSK	1	137	18.02	18.04	18.01	19.5	0.0
100	QPSK	1	271	18.04	18.09	18.08		
100	QPSK	135	0	17.95	18.00	18.01	19.5	0.0
100	QPSK	135	69	18.05	18.17	18.08	19.5	0.0
100	QPSK	135	138	18.05	18.04	17.89	19.5	0.0
100	QPSK	270	0	18.07	18.10	18.09	19.5	0.0
100	16QAM	1	1	18.05	18.00	18.03	19.5	0.0
100	64QAM	1	1	18.05	18.02	18.08	19.5	0.0
100	256QAM	1	1	18.01	18.02	18.04	19.5	0.0
	Channel			649688	650000	652334		
	Frequency (MHz)			649688	650000	652334		
90	QPSK	1	1	18.00	18.08	18.01	19.5	0.0
	Channel			649334	650000	652688		
	Frequency (MHz)			649334	650000	652688		
80	QPSK	1	1	17.98	18.01	18.00	19.5	0.0
	Channel			648000	650000	653000		
	Frequency (MHz)			648000	650000	653000		
70	QPSK	1	1	18.04	18.09	18.03	19.5	0.0
	Channel			3730.02	3840	3950.01		
	Frequency (MHz)			3730.02	3840	3950.01		
60	QPSK	1	1	18.05	18.02	17.99	19.5	0.0
	Channel			648334	650000	653688		
	Frequency (MHz)			648334	650000	653688		
50	QPSK	1	1	18.04	18.09	18.07	19.5	0.0
	Channel			648000	650000	654000		
	Frequency (MHz)			648000	650000	654000		
40	QPSK	1	1	18.03	17.99	17.89	19.5	0.0
	Channel			647688	650000	654334		
	Frequency (MHz)			647688	650000	654334		
30	QPSK	1	1	18.01	18.01	17.89	19.5	0.0
	Channel			647334	650000	654688		
	Frequency (MHz)			647334	650000	654688		
20	QPSK	1	1	17.97	18.07	18.08	19.5	0.0
	Channel			647188	650000	654834		
	Frequency (MHz)			647188	650000	654834		
15	QPSK	1	1	18.07	18.07	17.98	19.5	0.0
	Channel			647000	650000	655000		
	Frequency (MHz)			647000	650000	655000		
10	QPSK	1	1	17.98	18.02	18.07	19.5	0.0

Part270 n77 HPUE Ant 7 DS14

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 650000	Middle Ch. Freq. 650000	High Ch. Freq. 650000		
	Channel			3750	3840	3930		
	Frequency (MHz)			3750	3840	3930		
100	PI2 BPSK	1	1	21.05	21.00	20.94		
100	PI2 BPSK	1	137	21.08	21.08	20.99	22.5	0.0
100	PI2 BPSK	1	271	21.02	21.08	21.00		
100	PI2 BPSK	135	0	20.97	21.06	20.97	22.5	0.0
100	PI2 BPSK	135	69	20.99	20.99	21.03	22.5	0.0
100	PI2 BPSK	135	138	21.05	21.10	20.95	22.5	0.0
100	PI2 BPSK	270	0	20.99	21.10	20.99	22.5	0.0
100	QPSK	1	1	21.16	21.19	21.14		
100	QPSK	1	137	21.03	21.09	21.01	22.5	0.0
100	QPSK	1	271	20.99	21.04	21.04		
100	QPSK	135	0	21.02	21.00	21.04	22.5	0.0
100	QPSK	135	69	21.03	21.17	21.00	22.5	0.0
100	QPSK	135	138	20.98	21.03	21.01	22.5	0.0
100	QPSK	270	0	21.04	21.14	21.03	22.5	0.0
100	16QAM	1	1	21.08	21.02	21.05	22.5	0.0
100	64QAM	1	1	21.07	21.04	20.94	22.5	0.0
100	256QAM	1	1	21.08	21.01	21.04	22.5	0.0
	Channel			648688	650000	652334		
	Frequency (MHz)			648688	650000	652334		
90	QPSK	1	1	21.03	21.07	21.04	22.5	0.0
	Channel			648334	650000	652688		
	Frequency (MHz)			648334	650000	652688		
80	QPSK	1	1	21.02	20.98	21.00	22.5	0.0
	Channel			648000	650000	653000		
	Frequency (MHz)			648000	650000	653000		
70	QPSK	1	1	20.97	21.05	20.94	22.5	0.0
	Channel			3730.02	3840	3950.01		
	Frequency (MHz)			3730.02	3840	3950.01		
60	QPSK	1	1	21.00	21.08	20.94	22.5	0.0
	Channel			648334	650000	653688		
	Frequency (MHz)			648334	650000	653688		
50	QPSK	1	1	21.05	21.00	20.96	22.5	0.0
	Channel			648000	650000	654000		
	Frequency (MHz)			648000	650000	654000		
40	QPSK	1	1	21.08	21.09	21.00	22.5	0.0
	Channel			647688	650000	654334		
	Frequency (MHz)			647688	650000	654334		
30	QPSK	1	1	20.96	21.08	21.01	22.5	0.0
	Channel			647334	650000	654688		
	Frequency (MHz)			647334	650000	654688		
20	QPSK	1	1	20.98	21.05	20.95	22.5	0.0
	Channel			647188	650000	654834		
	Frequency (MHz)			647188	650000	654834		
15	QPSK	1	1	21.02	21.08	20.94	22.5	0.0
	Channel			647000	650000	655000		
	Frequency (MHz)			647000	650000	655000		
10	QPSK	1	1	21.08	21.09	20.95	22.5	0.0

Part270 n78 Ant 7 DS14

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 650000	Middle Ch. Freq. 650000	High Ch. Freq. 650000		
	Channel			3750	3750	3750		
	Frequency (MHz)			3750	3750	3750		
100	PI2 BPSK	1	1				19.5	0.0
100	PI2 BPSK	1	137					
100	PI2 BPSK	1	271					
100	PI2 BPSK	135	0				19.5	0.0
100	PI2 BPSK	135	69				19.5	0.0
100	PI2 BPSK	135	138				19.5	0.0
100	PI2 BPSK	270	0				19.5	0.0
100	QPSK	1	1					
100	QPSK	1	137				19.5	0.0
100	QPSK	1	271					
100	QPSK	135	0				19.5	0.0
100	QPSK	135	69				19.5	0.0
100	QPSK	135	138				19.5	0.0
100	QPSK	270	0				19.5	0.0
100	16QAM	1	1				19.5	0.0
100	64QAM	1	1				19.5	0.0
100	256QAM	1	1				19.5	0.0
	Channel			648688	650000	652334		
	Frequency (MHz)			648688	650000	652334		
90	QPSK	1	1	17.93	18.01	17.99	19.5	0.0
	Channel			649334	650000	652688		
	Frequency (MHz)			649334	650000	652688		
80	QPSK	1	1	18.01	17.99	18.02	19.5	0.0
	Channel			648000	650000	653000		
	Frequency (MHz)			648000	650000	653000		
70	QPSK	1	1	17.77	17.97	18.04	19.5	0.0
	Channel			3730.02	3750	3770.01		
	Frequency (MHz)			3730.02	3750	3770.01		
60	QPSK	1	1	17.99	18.06	17.96	19.5	0.0
	Channel			648334	650000	653688		
	Frequency (MHz)			648334	650000	653688		
50	QPSK	1	1	18.04	18.01	18.05	19.5	0.0
	Channel			648000	650000	652000		
	Frequency (MHz)			648000	650000	652000		
40	QPSK	1	1	17.93	17.98	18.00	19.5	0.0
	Channel			647688	650000	652334		
	Frequency (MHz)			647688	650000	652334		
30	QPSK	1	1	17.94	18.00	18.05	19.5	0.0
	Channel			647334	650000	652688		
	Frequency (MHz)			647334	650000	652688		
20	QPSK	1	1	18.02	17.97	17.97	19.5	0.0
	Channel			647188	650000	652834		
	Frequency (MHz)			647188	650000	652834		
15	QPSK	1	1	17.93	18.07	18.00	19.5	0.0
	Channel			647000	650000	653000		
	Frequency (MHz)			647000	650000	653000		
10	QPSK	1	1	17.94	17.98	18.04	19.5	0.0



Part270 n78 HPUE Ant 7 DSI4

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		20.96				
100	PI/2 BPSK	1	137		20.97		22.5	0.0	
100	PI/2 BPSK	1	271		20.99				
100	PI/2 BPSK	135	0		21.02		22.5	0.0	
100	PI/2 BPSK	135	69		20.85		22.5	0.0	
100	PI/2 BPSK	135	138		21.05				
100	PI/2 BPSK	270	0		20.98		22.5	0.0	
100	QPSK	1	1		21.09				
100	QPSK	1	137		20.95		22.5	0.0	
100	QPSK	1	271		21.00				
100	QPSK	135	0		20.99		22.5	0.0	
100	QPSK	135	69		21.07		22.5	0.0	
100	QPSK	135	138		20.93		22.5	0.0	
100	QPSK	270	0		21.01				
100	16QAM	1	1		20.95		22.5	0.0	
100	64QAM	1	1		20.90		22.5	0.0	
100	256QAM	1	1		20.89		22.5	0.0	
Channel				649668	650000	650334		MPR	
Frequency (MHz)				3745.02	3750	3755.01		(dB)	
90	QPSK	1	1		20.92	21.06	20.92	22.5	0.0
Channel				649334	650000	650668		MPR	
Frequency (MHz)				3740.01	3750	3760.02		(dB)	
80	QPSK	1	1		21.00	21.04	20.91	22.5	0.0
Channel				649000	650000	651000		MPR	
Frequency (MHz)				3735	3750	3765		(dB)	
70	QPSK	1	1		21.00	21.08	20.88	22.5	0.0
Channel				648668	650000	651334		MPR	
Frequency (MHz)				3730.02	3750	3770.01		(dB)	
60	QPSK	1	1		20.99	21.02	20.98	22.5	0.0
Channel				648334	650000	651668		MPR	
Frequency (MHz)				3725.01	3750	3755.02		(dB)	
50	QPSK	1	1		20.92	21.00	20.94	22.5	0.0
Channel				648000	650000	652000		MPR	
Frequency (MHz)				3720	3750	3780		(dB)	
40	QPSK	1	1		20.89	21.00	20.97	22.5	0.0
Channel				647668	650000	652334		MPR	
Frequency (MHz)				3715.02	3750	3785.01		(dB)	
30	QPSK	1	1		20.89	21.00	20.97	22.5	0.0
Channel				647334	650000	652668		MPR	
Frequency (MHz)				3710.01	3750	3790.02		(dB)	
20	QPSK	1	1		20.96	21.04	20.94	22.5	0.0
Channel				647000	650000	653000		MPR	
Frequency (MHz)				3707.92	3750	3792.5		(dB)	
15	QPSK	1	1		21.01	21.08	20.96	22.5	0.0
Channel				647000	650000	653000		MPR	
Frequency (MHz)				3705	3750	3795		(dB)	
10	QPSK	1	1		20.91	21.05	20.92	22.5	0.0



Part270 n77 Ant 8 DS14

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	3840	3930		
100	PI2 BPSK	1	1	21.55	21.58	21.60		
100	PI2 BPSK	1	137	21.53	21.63	21.60	23.3	0.0
100	PI2 BPSK	1	271	21.51	21.54	21.58		
100	PI2 BPSK	135	0	21.59	21.58	21.53	23.3	0.0
100	PI2 BPSK	135	69	21.56	21.63	21.55	23.3	0.0
100	PI2 BPSK	135	138	21.59	21.55	21.59	23.3	0.0
100	PI2 BPSK	270	0	21.50	21.54	21.52		
100	QPSK	1	1	21.70	21.75	21.72		
100	QPSK	1	137	21.58	21.84	21.82	23.3	0.0
100	QPSK	1	271	21.50	21.62	21.62		
100	QPSK	135	0	21.39	21.42	21.43	23.0	0.3
100	QPSK	135	69	21.63	21.72	21.67	23.3	0.0
100	QPSK	135	138	21.43	21.46	21.45		
100	QPSK	270	0	21.36	21.48	21.39	23.0	0.3
100	16QAM	1	1	21.40	21.43	21.41	23.0	0.3
100	64QAM	1	1	19.95	20.00	19.99	21.5	1.8
100	256QAM	1	1	17.92	18.00	17.94	19.5	3.8
Channel				650000	650000	650000	Tune-up limit	MPR
Frequency (MHz)				649334	650000	650668	(dBm)	(dB)
90	QPSK	1	1	21.56	21.65	21.57	23.3	0.0
Channel				649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3742.01	3840	3938.02	(dBm)	(dB)
80	QPSK	1	1	21.49	21.62	21.51	23.3	0.0
Channel				650000	650000	650000	Tune-up limit	MPR
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)
70	QPSK	1	1	21.53	21.55	21.63	23.3	0.0
Channel				649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)
60	QPSK	1	1	21.57	21.61	21.63	23.3	0.0
Channel				649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)
50	QPSK	1	1	21.52	21.59	21.53	23.3	0.0
Channel				649000	650000	650000	Tune-up limit	MPR
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)
40	QPSK	1	1	21.52	21.54	21.59	23.3	0.0
Channel				647668	650000	654334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)
30	QPSK	1	1	21.59	21.63	21.62	23.3	0.0
Channel				647334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)
20	QPSK	1	1	21.59	21.62	21.53	23.3	0.0
Channel				647168	650000	654834	Tune-up limit	MPR
Frequency (MHz)				3705.01	3840	3975.01	(dBm)	(dB)
15	QPSK	1	1	21.50	21.56	21.61	23.3	0.0
Channel				647000	650000	650000	Tune-up limit	MPR
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)
10	QPSK	1	1	21.57	21.63	21.53	23.3	0.0

Part270 n77 HPUE Ant 8 DS14

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	3840	3930		
100	PI2 BPSK	1	1	24.64	24.70	24.59		
100	PI2 BPSK	1	137	24.65	24.69	24.60	26.3	0.0
100	PI2 BPSK	1	271	24.58	24.62	24.63		
100	PI2 BPSK	135	0	24.59	24.64	24.66	26.3	0.0
100	PI2 BPSK	135	69	24.61	24.63	24.60	26.3	0.0
100	PI2 BPSK	135	138	24.66	24.64	24.59	26.3	0.0
100	PI2 BPSK	270	0	24.63	24.60	24.65		
100	QPSK	1	1	24.76	24.81	24.78		
100	QPSK	1	137	24.66	24.69	24.66	26.3	0.0
100	QPSK	1	271	24.66	24.67	24.60		
100	QPSK	135	0	24.38	24.43	24.43	26.0	0.3
100	QPSK	135	69	24.69	24.72	24.69	26.3	0.0
100	QPSK	135	138	24.40	24.42	24.34		
100	QPSK	270	0	24.38	24.47	24.37	26.0	0.3
100	16QAM	1	1	24.36	24.36	24.32	26.0	0.3
100	64QAM	1	1	22.91	22.91	22.87	24.5	1.8
100	256QAM	1	1	20.88	20.95	20.90	22.5	3.8
Channel				650000	650000	650000	Tune-up limit	MPR
Frequency (MHz)				649334	650000	650668	(dBm)	(dB)
90	QPSK	1	1	24.58	24.71	24.60	26.3	0.0
Channel				649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3742.01	3840	3942.02	(dBm)	(dB)
80	QPSK	1	1	24.68	24.70	24.64	26.3	0.0
Channel				650000	650000	650000	Tune-up limit	MPR
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)
70	QPSK	1	1	24.58	24.61	24.65	26.3	0.0
Channel				649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)
60	QPSK	1	1	24.59	24.69	24.62	26.3	0.0
Channel				648334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)
50	QPSK	1	1	24.57	24.71	24.69	26.3	0.0
Channel				648000	650000	650000	Tune-up limit	MPR
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)
40	QPSK	1	1	24.59	24.65	24.60	26.3	0.0
Channel				647668	650000	654334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)
30	QPSK	1	1	24.58	24.68	24.62	26.3	0.0
Channel				647334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)
20	QPSK	1	1	24.64	24.70	24.60	26.3	0.0
Channel				647168	650000	654834	Tune-up limit	MPR
Frequency (MHz)				3705.01	3840	3975.01	(dBm)	(dB)
15	QPSK	1	1	24.60	24.84	24.67	26.3	0.0
Channel				647000	650000	650000	Tune-up limit	MPR
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)
10	QPSK	1	1	24.57	24.65	24.67	26.3	0.0

Part270 n78 Ant 8 DS14

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		21.54				
100	PI2 BPSK	1	137		21.55		23.3	0.0	
100	PI2 BPSK	1	271		21.42				
100	PI2 BPSK	135	0		21.48		23.3	0.0	
100	PI2 BPSK	135	69		21.55		23.3	0.0	
100	PI2 BPSK	135	138		21.45		23.0	0.3	
100	PI2 BPSK	270	0		21.40				
100	QPSK	1	1		21.66				
100	QPSK	1	137		21.57		23.3	0.0	
100	QPSK	1	271		21.53				
100	QPSK	135	0		21.28		23.0	0.3	
100	QPSK	135	69		21.63		23.3	0.0	
100	QPSK	135	138		21.41				
100	QPSK	270	0		21.43		23.0	0.3	
100	16QAM	1	1		21.38		23.0	0.3	
100	64QAM	1	1		19.86		21.5	1.8	
100	256QAM	1	1		17.87		19.5	3.8	
Channel				650000	650000	650000	Tune-up limit	MPR	
Frequency (MHz)				649668	650000	650334	(dBm)	(dB)	
90	QPSK	1	1		21.47	21.58	21.46	23.3	0.0
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3742.01	3750	3762.02	(dBm)	(dB)	
80	QPSK	1	1		21.44	21.56	21.47	23.3	0.0
Channel				650000	650000	650000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1		21.48	21.54	21.51	23.3	0.0
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1		21.47	21.54	21.49	23.3	0.0
Channel				648334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3765.01	(dBm)	(dB)	
50	QPSK	1	1		21.51	21.53	21.43	23.3	0.0
Channel				648000	650000	650000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3760	(dBm)	(dB)	
40	QPSK	1	1		21.45	21.53	21.53	23.3	0.0
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3765.01	(dBm)	(dB)	
30	QPSK	1	1		21.49	21.52	21.46	23.3	0.0
Channel				647334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3760.02	(dBm)	(dB)	
20	QPSK	1	1		21.42	21.51	21.51	23.3	0.0
Channel				647168	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3705.01	3750	3762.01	(dBm)	(dB)	
15	QPSK	1	1		21.43	21.80	21.45	23.3	0.0
Channel				647000	650000	650000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3765	(dBm)	(dB)	
10	QPSK	1	1		21.45	21.81	21.42	23.3	0.0



Part270 n78 HPUE Ant 8 DS14

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		24.65			
100	PI/2 BPSK	1	137		24.59		28.3	0.0
100	PI/2 BPSK	1	271		24.50			
100	PI/2 BPSK	135	0		24.57		28.3	0.0
100	PI/2 BPSK	135	69		24.56		28.3	0.0
100	PI/2 BPSK	135	138		24.59			
100	PI/2 BPSK	270	0		24.48		28.3	0.0
100	QPSK	1	1		24.77			
100	QPSK	1	137		24.55		28.3	0.0
100	QPSK	1	271		24.53			
100	QPSK	135	0		24.39		28.0	0.3
100	QPSK	135	69		24.68		28.3	0.0
100	QPSK	135	138		24.32		28.0	0.3
100	QPSK	270	0		24.34			
100	16QAM	1	1		24.22		28.0	0.3
100	64QAM	1	1		22.86		24.5	1.8
100	256QAM	1	1		20.84		22.5	3.8
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	24.52	24.61	24.57	28.3	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	24.51	24.52	24.51	28.3	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	24.51	24.63	24.53	28.3	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	24.48	24.62	24.48	28.3	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3755.00	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	24.50	24.67	24.48	28.3	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	24.49	24.59	24.58	28.3	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	24.50	24.61	24.49	28.3	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	24.46	24.62	24.48	28.3	0.0
Channel				647168	650000	652834		
Frequency (MHz)				3707.52	3750	3792.51	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	24.55	24.67	24.45	28.3	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	24.46	24.57	24.52	28.3	0.0



n38 Ant 10 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq. 518004	Middle Ch. / Freq. 519000	High Ch. / Freq. 519996			
Channel									
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	22.67	22.82	22.76	24.0	0.0	
40	PI/2 BPSK	1	53	22.68	22.77	22.70			
40	PI/2 BPSK	1	104	22.62	22.68	22.61			
40	PI/2 BPSK	50	0	22.15	22.24	22.15	23.5	0.5	
40	PI/2 BPSK	50	28	22.58	22.66	22.58	24.0	0.0	
40	PI/2 BPSK	50	56	22.40	22.46	22.33	23.5	0.5	
40	PI/2 BPSK	100	0	22.30	22.41	22.31			
40	QPSK	1	1	22.81	22.81	22.90	24.0	0.0	
40	QPSK	1	53	22.63	22.78	22.69			
40	QPSK	1	104	22.70	22.84	22.70			
40	QPSK	50	0	21.81	21.89	21.82	23.0	1.0	
40	QPSK	50	28	22.73	22.78	22.69	24.0	0.0	
40	QPSK	50	56	21.79	21.86	21.74	23.0	1.0	
40	QPSK	100	0	21.69	21.81	21.69			
40	16QAM	1	1	21.80	21.88	21.77	23.0	1.0	
40	64QAM	1	1	20.32	20.45	20.29	21.5	2.5	
40	256QAM	1	1	18.46	18.52	18.38	19.5	4.5	
Channel									
Frequency (MHz)				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Channel				2585.91	2595	2604.99	24.0	0.0	
30	QPSK	1	1	22.54	22.69	22.60	24.0	0.0	
Channel									
Frequency (MHz)				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
Channel				2575.91	2595	2610	24.0	0.0	
20	QPSK	1	1	22.51	22.74	22.62	24.0	0.0	
Channel									
Frequency (MHz)				515502	519000	524988	Tune-up limit (dBm)	MPR (dB)	
Channel				2677.51	2595	2612.49	24.0	0.0	
15	QPSK	1	1	22.51	22.72	22.60	24.0	0.0	
Channel									
Frequency (MHz)				515004	519000	526998	Tune-up limit (dBm)	MPR (dB)	
Channel				2675.02	2595	2614.98	24.0	0.0	
10	QPSK	1	1	22.48	22.73	22.59	24.0	0.0	

n41 Ant 10 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq. 509202	Middle Ch. / Freq. 518598	High Ch. / Freq. 528000			
Channel									
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	22.87	22.92	22.87	24.0	0.0	
100	PI/2 BPSK	1	137	22.74	22.79	22.72			
100	PI/2 BPSK	1	271	22.72	22.79	22.72			
100	PI/2 BPSK	135	0	22.42	22.46	22.37	23.5	0.5	
100	PI/2 BPSK	135	69	22.74	22.81	22.75	24.0	0.0	
100	PI/2 BPSK	135	138	22.46	22.54	22.48	23.5	0.5	
100	PI/2 BPSK	270	0	22.35	22.41	22.34			
100	QPSK	1	1	22.81	22.86	22.88	24.0	0.0	
100	QPSK	1	137	22.69	22.81	22.75			
100	QPSK	1	271	22.68	22.83	22.79			
100	QPSK	135	0	21.81	21.85	21.81	23.0	1.0	
100	QPSK	135	69	22.75	22.85	22.72	24.0	0.0	
100	QPSK	135	138	21.83	21.90	21.79	23.0	1.0	
100	QPSK	270	0	21.77	21.84	21.69			
100	16QAM	1	1	21.84	21.90	21.78	23.0	1.0	
100	64QAM	1	1	20.40	20.53	20.39	21.5	2.5	
100	256QAM	1	1	18.25	18.38	18.33	19.5	4.5	
Channel									
Frequency (MHz)				509200	518598	528000	Tune-up limit (dBm)	MPR (dB)	
Channel				2551	2592.99	2644.99	24.0	0.0	
90	QPSK	1	1	22.80	22.72	22.84	24.0	0.0	
Channel									
Frequency (MHz)				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Channel				2538.02	2592.99	2649.99	24.0	0.0	
80	QPSK	1	1	22.65	22.75	22.60	24.0	0.0	
Channel									
Frequency (MHz)				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Channel				2531.01	2592.99	2655	24.0	0.0	
70	QPSK	1	1	22.75	22.83	22.75	24.0	0.0	
Channel									
Frequency (MHz)				2526	2592.99	2659.98	Tune-up limit (dBm)	MPR (dB)	
Channel				2526	2592.99	2659.98	24.0	0.0	
60	QPSK	1	1	22.62	22.76	22.65	24.0	0.0	
Channel									
Frequency (MHz)				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Channel				2511.02	2592.99	2664.99	24.0	0.0	
50	QPSK	1	1	22.59	22.77	22.67	24.0	0.0	
Channel									
Frequency (MHz)				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Channel				2518.01	2592.99	2670	24.0	0.0	
40	QPSK	1	1	22.62	22.65	22.61	24.0	0.0	
Channel									
Frequency (MHz)				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Channel				2511	2592.99	2674.98	24.0	0.0	
30	QPSK	1	1	22.60	22.71	22.61	24.0	0.0	
Channel									
Frequency (MHz)				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Channel				2506.02	2592.99	2679.99	24.0	0.0	
20	QPSK	1	1	22.63	22.68	22.69	24.0	0.0	
Channel									
Frequency (MHz)				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)	
Channel				2503.45	2592.99	2682.48	24.0	0.0	
15	QPSK	1	1	22.64	22.69	22.70	24.0	0.0	
Channel									
Frequency (MHz)				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Channel				2501.01	2592.99	2685	24.0	0.0	
10	QPSK	1	1	22.63	22.73	22.69	24.0	0.0	



Reduced Power Mode for Other PA DSI3

n2 Ant 1 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				372000	376000	380000		
Frequency (MHz)				1890	1890	1900		
20	PI2 BPSK	1	1	15.23	15.23	15.32		
20	PI2 BPSK	1	53	15.21	15.24	15.35	16.9	0.0
20	PI2 BPSK	1	104	15.22	15.23	15.23		
20	PI2 BPSK	50	0	15.23	15.26	15.25	16.9	0.0
20	PI2 BPSK	50	28	15.22	15.18	15.24	16.9	0.0
20	PI2 BPSK	50	59	15.24	15.23	15.21	16.9	0.0
20	PI2 BPSK	100	0	15.29	15.32	15.23	16.9	0.0
20	QPSK	1	1	15.44	15.47	15.35		
20	QPSK	1	53	15.16	15.36	15.27	16.9	0.0
20	QPSK	1	104	15.23	15.26	15.27		
20	QPSK	50	0	15.21	15.31	15.30	16.9	0.0
20	QPSK	50	28	15.37	15.44	15.41	16.9	0.0
20	QPSK	50	58	15.27	15.24	15.32	16.9	0.0
20	QPSK	100	0	15.18	15.35	15.26	16.9	0.0
20	16QAM	1	1	15.23	15.26	15.26	16.9	0.0
20	64QAM	1	1	15.15	15.25	15.29	16.9	0.0
20	256QAM	1	1	15.23	15.23	15.23	16.9	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	15.37	15.32	15.29	16.9	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	15.30	15.35	15.23	16.9	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1823	1880	1897.5		
5	QPSK	1	1	15.30	15.36	15.30	16.9	0.0

n7 Ant 1 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	15.92	15.92	15.79		
40	PI2 BPSK	1	108	15.76	15.90	15.92	17.4	0.0
40	PI2 BPSK	1	214	15.88	15.87	15.81		
40	PI2 BPSK	108	0	15.84	15.85	15.82	17.4	0.0
40	PI2 BPSK	108	54	15.91	15.91	15.92	17.4	0.0
40	PI2 BPSK	108	108	15.84	15.87	15.87	17.4	0.0
40	PI2 BPSK	216	0	15.88	15.81	15.91	17.4	0.0
40	QPSK	1	1	15.97	16.07	15.94		
40	QPSK	1	108	15.85	15.95	15.93	17.4	0.0
40	QPSK	1	214	15.84	15.91	15.87		
40	QPSK	108	0	15.91	15.89	15.84	17.4	0.0
40	QPSK	108	54	15.92	15.98	15.84	17.4	0.0
40	QPSK	108	108	15.95	15.81	15.88	17.4	0.0
40	QPSK	216	0	15.85	15.98	15.92	17.4	0.0
40	16QAM	1	1	15.88	15.87	15.86	17.4	0.0
40	64QAM	1	1	15.79	15.81	15.84	17.4	0.0
40	256QAM	1	1	15.83	15.84	15.85	17.4	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	15.94	16.02	15.83	17.4	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	15.90	15.95	15.82	17.4	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2550		
20	QPSK	1	1	15.91	16.02	15.77	17.4	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	15.91	16.02	15.81	17.4	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	15.87	15.97	15.84	17.4	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	15.87	16.01	15.87	17.4	0.0

n66 Ant 1 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	15.51	15.61	15.54		
40	PI2 BPSK	1	108	15.52	15.72	15.59	16.8	0.0
40	PI2 BPSK	1	214	15.61	15.58	15.59		
40	PI2 BPSK	108	0	15.50	15.53	15.59	16.8	0.0
40	PI2 BPSK	108	54	15.61	15.57	15.56	16.8	0.0
40	PI2 BPSK	108	108	15.67	15.82	15.52	16.8	0.0
40	PI2 BPSK	216	0	15.64	15.72	15.64	16.8	0.0
40	QPSK	1	1	15.68	15.77	15.74		
40	QPSK	1	108	15.59	15.59	15.53	16.8	0.0
40	QPSK	1	214	15.59	15.61	15.58		
40	QPSK	108	0	15.62	15.68	15.63	16.8	0.0
40	QPSK	108	54	15.68	15.73	15.65	16.8	0.0
40	QPSK	108	108	15.62	15.53	15.67	16.8	0.0
40	QPSK	216	0	15.67	15.68	15.56	16.8	0.0
40	16QAM	1	1	15.68	15.55	15.55	16.8	0.0
40	64QAM	1	1	15.55	15.59	15.49	16.8	0.0
40	256QAM	1	1	15.56	15.67	15.48	16.8	0.0
Channel				345500	349000	352500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1727.5	1745	1762.5		
35	QPSK	1	1	15.62	15.60	15.66	16.8	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	15.58	15.61	15.62	16.8	0.0
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	15.51	15.62	15.59	16.8	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	15.55	15.62	15.61	16.8	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	15.56	15.72	15.59	16.8	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	15.60	15.60	15.60	16.8	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	15.62	15.84	15.68	16.8	0.0



n2 Ant 2 DSI3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel				1860	1880	1900	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	20.35	20.29	20.40	
20	PI/2 BPSK	1	53	20.31	20.43	20.32	21.7
20	PI/2 BPSK	1	104	20.35	20.37	20.39	
20	PI/2 BPSK	50	0	20.34	20.40	20.35	21.7
20	PI/2 BPSK	50	28	20.33	20.38	20.35	21.7
20	PI/2 BPSK	50	56	20.40	20.37	20.27	21.7
20	PI/2 BPSK	100	0	20.45	20.40	20.43	
20	QPSK	1	1	20.53	20.59	20.47	
20	QPSK	1	53	20.35	20.42	20.37	21.7
20	QPSK	1	104	20.43	20.42	20.33	
20	QPSK	50	0	20.35	20.37	20.36	21.7
20	QPSK	50	28	20.36	20.58	20.36	21.7
20	QPSK	80	56	20.40	20.42	20.34	
20	QPSK	100	0	20.38	20.45	20.43	21.7
20	16QAM	1	1	20.42	20.40	20.35	21.7
20	16QAM	1	1	19.27	19.42	19.37	20.5
20	256QAM	1	1	17.48	17.42	17.35	18.5
Channel				371000	370000	369000	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	1	20.42	20.46	20.40	21.7
Channel				371000	376000	381000	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	1	20.40	20.54	20.39	21.7
Channel				370500	375000	381500	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	1	20.36	20.53	20.39	21.7

n66 Ant 2 DSI3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel				345000	349000	353000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	20.29	20.39	20.34	
40	PI/2 BPSK	1	108	20.43	20.37	20.35	21.9
40	PI/2 BPSK	1	214	20.30	20.38	20.26	
40	PI/2 BPSK	108	0	20.41	20.31	20.42	21.9
40	PI/2 BPSK	108	54	20.37	20.39	20.25	21.9
40	PI/2 BPSK	108	108	20.36	20.39	20.27	21.9
40	PI/2 BPSK	216	0	20.37	20.40	20.35	
40	QPSK	1	1	20.47	20.58	20.51	
40	QPSK	1	108	20.29	20.34	20.31	21.9
40	QPSK	1	214	20.29	20.42	20.33	
40	QPSK	108	0	20.36	20.36	20.25	21.9
40	QPSK	108	54	20.41	20.47	20.36	21.9
40	QPSK	108	108	20.35	20.34	20.26	
40	QPSK	216	0	20.31	20.43	20.40	21.9
40	16QAM	1	1	20.42	20.44	20.30	21.9
40	16QAM	1	1	19.12	19.20	19.07	20.5
40	256QAM	1	1	17.23	17.24	17.19	18.5
Channel				345500	349500	353500	
Frequency (MHz)				1722.5	1745	1762.5	
35	QPSK	1	1	20.37	20.42	20.37	21.9
Channel				345000	349000	353000	
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	20.38	20.51	20.35	21.9
Channel				344500	349000	353500	
Frequency (MHz)				1722.5	1745	1767.5	
25	QPSK	1	1	20.33	20.47	20.44	21.9
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	20.38	20.41	20.34	21.9
Channel				343500	349000	354500	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	20.42	20.43	20.36	21.9
Channel				343000	349000	355000	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	20.34	20.45	20.36	21.9
Channel				342500	349000	355500	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	20.37	20.45	20.45	21.9



Reduced Power Mode for DS14

n5 Ant 0 DS14								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.		
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	22.80	22.76	22.82		
50	PI2 BPSK	1	53	22.54	22.71	22.71	24.0	0.0
104	PI2 BPSK	1	104	22.53	22.76	22.72		
20	PI2 BPSK	50	0	22.15	22.32	22.24	23.5	0.5
20	PI2 BPSK	50	28	22.52	22.71	22.66	24.0	0.0
20	PI2 BPSK	50	55	22.11	22.31	22.28		
20	PI2 BPSK	100	0	22.18	22.33	22.29	23.5	0.5
20	QPSK	1	1	22.86	22.86	22.77		
20	QPSK	1	53	22.50	22.64	22.64	24.0	0.0
20	QPSK	1	104	22.53	22.70	22.61		
20	QPSK	50	0	21.63	21.74	21.71	23.0	1.0
20	QPSK	50	28	22.56	22.73	22.63	24.0	0.0
20	QPSK	50	55	21.60	21.81	21.75		
20	QPSK	100	0	21.70	21.79	21.75	23.0	1.0
20	16QAM	1	1	21.71	21.78	21.76	23.0	1.0
20	64QAM	1	1	20.15	20.27	20.28	21.5	2.5
20	256QAM	1	1	18.14	18.34	18.22	19.5	4.5
Channel				168300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.47	22.53	22.44	24.0	0.0
Channel				169500	167300	169500		
Frequency (MHz)				830	836.5	844		
10	QPSK	1	1	22.32	22.53	22.53	24.0	0.0
Channel				169500	167300	169500		
Frequency (MHz)				830.5	836.5	846.5		
5	QPSK	1	1	22.32	22.52	22.49	24.0	0.0

n26 Ant 0 DS14								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.		
Channel				164600	166300	167800		
Frequency (MHz)				824	831.5	839		
20	PI2 BPSK	1	1	22.71	22.78	22.69		
50	PI2 BPSK	1	53	22.59	22.73	22.67	24.0	0.0
104	PI2 BPSK	1	104	22.73	22.82	22.68		
20	PI2 BPSK	50	0	22.25	22.37	22.27	23.5	0.5
20	PI2 BPSK	50	28	22.67	22.76	22.63	24.0	0.0
20	PI2 BPSK	50	55	22.38	22.32	22.24		
20	PI2 BPSK	100	0	22.36	22.39	22.27	23.5	0.5
20	QPSK	1	1	22.86	22.86	22.76		
20	QPSK	1	53	22.72	22.80	22.66	24.0	0.0
20	QPSK	1	104	22.74	22.81	22.70		
20	QPSK	50	0	21.78	21.92	21.79	23.0	1.0
20	QPSK	50	28	22.67	22.71	22.68	24.0	0.0
20	QPSK	50	55	21.79	21.81	21.79		
20	QPSK	100	0	21.74	21.85	21.75	23.0	1.0
20	16QAM	1	1	21.74	21.84	21.76	23.0	1.0
20	64QAM	1	1	20.34	20.39	20.24	21.5	2.5
20	256QAM	1	1	18.30	18.38	18.32	19.5	4.5
Channel				164300	166300	168300		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	22.43	22.54	22.50	24.0	0.0
Channel				163500	166300	165500		
Frequency (MHz)				819	831.5	844		
10	QPSK	1	1	22.51	22.58	22.46	24.0	0.0
Channel				163500	166300	165500		
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	22.46	22.56	22.41	24.0	0.0



n38 Ant 0 DSI4								
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)				518004	519000	519996		
40	P2/BPSK	1	1	20.68	20.75	20.77		
40	P2/BPSK	1	53	20.72	20.69	20.75	22.0	0.0
40	P2/BPSK	1	104	20.71	20.80	20.69		
40	P2/BPSK	50	0	20.25	20.37	20.22	21.5	0.5
40	P2/BPSK	50	59	20.67	20.70	20.75	22.0	0.0
40	P2/BPSK	50	55	20.32	20.32	20.29		
40	P2/BPSK	100	0	20.28	20.30	20.30	21.5	0.5
40	QPSK	1	1	20.81	20.85	20.82		
40	QPSK	1	53	20.67	20.79	20.69	22.0	0.0
40	QPSK	1	104	20.73	20.81	20.73		
40	QPSK	50	0	19.80	19.79	19.80	21.0	1.0
40	QPSK	50	28	20.78	20.78	20.75	22.0	0.0
40	QPSK	50	55	19.77	19.86	19.84		
40	QPSK	100	0	19.83	19.91	19.82	21.0	1.0
40	16QAM	1	1	19.83	19.83	19.77	21.0	1.0
40	64QAM	1	1	19.28	19.32	19.38	19.5	2.5
40	256QAM	1	1	16.30	16.41	16.31	17.5	4.5
Channel								
Frequency (MHz)				517002	516000	509998	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	20.54	20.55	20.53	22.0	0.0
Channel								
Frequency (MHz)				516000	515000	502000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	20.50	20.55	20.48	22.0	0.0
Channel								
Frequency (MHz)				515002	515000	509998	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	20.55	20.55	20.58	22.0	0.0
Channel								
Frequency (MHz)				515004	515000	502996	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	20.48	20.51	20.54	22.0	0.0

n41 Ant 0 DSI4								
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)				509002	518998	526000		
100	P2/BPSK	1	1	20.73	20.83	20.85		
100	P2/BPSK	1	137	20.79	20.83	20.81	22.0	0.0
100	P2/BPSK	1	271	20.74	20.86	20.85		
100	P2/BPSK	135	0	20.42	20.48	20.28	21.5	0.5
100	P2/BPSK	135	69	20.83	20.88	20.84	22.0	0.0
100	P2/BPSK	135	138	20.41	20.44	20.43		
100	P2/BPSK	270	0	20.38	20.38	20.41	21.5	0.5
100	QPSK	1	1	20.89	20.94	20.91		
100	QPSK	1	137	20.75	20.84	20.77	22.0	0.0
100	QPSK	1	271	20.81	20.84	20.80		
100	QPSK	135	0	19.84	19.85	19.89	21.0	1.0
100	QPSK	135	69	20.78	20.88	20.81	22.0	0.0
100	QPSK	135	138	19.92	19.99	19.88		
100	QPSK	270	0	19.93	19.97	19.92	21.0	1.0
100	16QAM	1	1	19.84	19.82	19.82	21.0	1.0
100	64QAM	1	1	16.38	16.43	16.43	16.5	2.5
100	256QAM	1	1	16.41	16.42	16.39	17.5	4.5
Channel								
Frequency (MHz)				508000	518998	526996	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.41	20.52	20.44	22.0	0.0
Channel								
Frequency (MHz)				507004	518998	509998	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.60	20.69	20.66	22.0	0.0
Channel								
Frequency (MHz)				506002	518998	504999	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	20.82	20.83	20.82	22.0	0.0
Channel								
Frequency (MHz)				505000	518998	531996	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	20.65	20.59	20.56	22.0	0.0
Channel								
Frequency (MHz)				504004	518998	530998	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	20.81	20.60	20.63	22.0	0.0
Channel								
Frequency (MHz)				503002	518998	530000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	20.64	20.60	20.58	22.0	0.0
Channel								
Frequency (MHz)				502000	518998	534996	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	20.61	20.68	20.58	22.0	0.0
Channel								
Frequency (MHz)				501004	518998	535998	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	20.66	20.65	20.60	22.0	0.0
Channel								
Frequency (MHz)				500700	518998	536496	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	20.55	20.63	20.58	22.0	0.0
Channel								
Frequency (MHz)				500002	518998	537000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	20.50	20.60	20.65	22.0	0.0



n2 Ant 1 DSI4

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.		
Channel				375000	375000	380000		
Frequency (MHz)				1875	1875	1900		
20	PI2 BPSK	1	1	22.39	22.45	22.41	24.0	0.0
20	PI2 BPSK	1	53	22.35	22.42	22.30		
20	PI2 BPSK	1	104	22.25	22.41	22.31		
20	PI2 BPSK	50	0	21.95	22.01	21.96	23.5	0.5
20	PI2 BPSK	50	28	22.33	22.37	22.32	24.0	0.0
20	PI2 BPSK	50	56	21.81	21.95	21.87	23.5	0.5
20	PI2 BPSK	100	0	21.87	22.01	21.85		
20	QPSK	1	1	22.47	22.50	22.44	24.0	0.0
20	QPSK	1	53	22.33	22.39	22.33		
20	QPSK	1	104	22.31	22.36	22.25		
20	QPSK	50	0	21.41	21.50	21.41	23.0	1.0
20	QPSK	50	28	22.34	22.43	22.30	24.0	0.0
20	QPSK	50	56	21.40	21.46	21.33	23.0	1.0
20	QPSK	100	0	21.41	21.47	21.40		
20	16QAM	1	1	21.43	21.58	21.46	23.0	1.0
20	16QAM	1	1	20.12	20.17	20.01	21.5	2.5
20	256QAM	1	1	18.36	18.43	18.37	19.5	4.5
Channel				371600	376000	380000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1897.5	1920	1922.5		
15	QPSK	1	1	22.23	22.29	22.24	24.0	0.0
Channel				371600	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1865	1860	1805		
10	QPSK	1	1	22.21	22.28	22.20	24.0	0.0
Channel				372000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1860	1807.5		
5	QPSK	1	1	22.20	22.25	22.22	24.0	0.0

n5 Ant 1 DSI4

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.		
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	22.41	22.55	22.51	24.0	0.0
20	PI2 BPSK	1	53	22.35	22.48	22.32		
20	PI2 BPSK	1	104	22.39	22.51	22.44		
20	PI2 BPSK	50	0	22.08	22.13	21.99	23.5	0.5
20	PI2 BPSK	50	28	22.47	22.51	22.44	24.0	0.0
20	PI2 BPSK	50	56	21.97	22.03	21.90	23.5	0.5
20	PI2 BPSK	100	0	21.96	22.06	21.94		
20	QPSK	1	1	22.49	22.56	22.53	24.0	0.0
20	QPSK	1	53	22.35	22.45	22.34		
20	QPSK	1	104	22.39	22.48	22.37		
20	QPSK	50	0	21.52	21.62	21.49	23.0	1.0
20	QPSK	50	28	22.30	22.41	22.31	24.0	0.0
20	QPSK	50	56	21.40	21.51	21.36	23.0	1.0
20	QPSK	100	0	21.42	21.55	21.48		
20	16QAM	1	1	21.37	21.49	21.34	23.0	1.0
20	16QAM	1	1	19.89	20.05	19.90	21.5	2.5
20	256QAM	1	1	18.25	18.39	18.25	19.5	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.28	22.31	22.19	24.0	0.0
Channel				165800	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	22.24	22.39	22.21	24.0	0.0
Channel				165300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	22.19	22.32	22.29	24.0	0.0

n7 Ant 1 DSI4

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.		
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
20	PI2 BPSK	1	1	22.52	22.58	22.48	24.0	0.0
20	PI2 BPSK	1	108	22.36	22.46	22.37		
20	PI2 BPSK	1	214	22.41	22.45	22.38		
20	PI2 BPSK	108	0	21.87	22.03	21.84	23.5	0.5
20	PI2 BPSK	108	54	22.46	22.49	22.38	24.0	0.0
20	PI2 BPSK	108	108	21.78	21.93	21.78	23.5	0.5
20	PI2 BPSK	216	0	21.81	21.95	21.86		
20	QPSK	1	1	22.56	22.64	22.56	24.0	0.0
20	QPSK	1	108	22.38	22.48	22.41		
20	QPSK	1	214	22.47	22.52	22.47		
20	QPSK	108	0	21.48	21.55	21.44	23.0	1.0
20	QPSK	108	54	22.45	22.52	22.43	24.0	0.0
20	QPSK	108	108	21.38	21.43	21.29	23.0	1.0
20	QPSK	216	0	21.37	21.45	21.37		
20	16QAM	1	1	21.19	21.29	21.16	23.0	1.0
20	16QAM	1	1	20.03	20.08	19.94	21.5	2.5
20	256QAM	1	1	17.92	18.07	18.02	19.5	4.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	22.27	22.38	22.28	24.0	0.0
Channel				502500	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	22.29	22.41	22.26	24.0	0.0
Channel				502000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	22.31	22.38	22.26	24.0	0.0
Channel				501500	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	22.23	22.34	22.35	24.0	0.0
Channel				501000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.33	22.43	22.27	24.0	0.0
Channel				500500	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	22.24	22.39	22.33	24.0	0.0

n8 Ant 1 DSI4

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)
20	PI2 BPSK	1	1	22.52	22.58	22.48	24.0	0.0
20	PI2 BPSK	1	108	22.36	22.46	22.37	24.0	0.0
20	PI2 BPSK	1	214	22.41	22.45	22.38	24.0	0.0
20	PI2 BPSK	108	0	21.87	22.03	21.84	23.5	0.5
20	PI2 BPSK	108	54	22.46	22.49	22.38	24.0	0.0
20	PI2 BPSK	108	108	21.78	21.93	21.78	23.5	0.5
20	PI2 BPSK	216	0	21.81	21.95	21.86	23.5	0.5
20	QPSK	1	1	22.56	22.64	22.56	24.0	0.0
20	QPSK	1	108	22.38	22.48	22.41	24.0	0.0
20	QPSK	1	214	22.47	22.52	22.47	24.0	0.0
20	QPSK	108	0	21.48	21.55	21.44	23.0	1.0
20	QPSK	108	54	22.45	22.52	22.43	24.0	0.0
20	QPSK	108	108	21.38	21.43	21.29	23.0	1.0
20	QPSK	216	0	21.37	21.45	21.37	23.0	1.0
20	16QAM	1	1	21.19	21.29	21.16	23.0	1.0
20	16QAM	1	1	20.03	20.08	19.94	21.5	2.5
20	256QAM	1	1	17.92	18.07	18.02	19.5	4.5
30	QPSK	1	1	22.27	22.38	22.28	24.0	0.0
25	QPSK	1	1	22.29	22.41	22.26	24.0	0.0
20	QPSK	1	1	22.31	22.38	22.26	24.0	0.0
15	QPSK	1	1	22.23	22.34	22.35	24.0	0.0
10	QPSK	1	1	22.33	22.43	22.27	24.0	0.0
5	QPSK	1	1	22.24	22.39	22.33	24.0	0.0



n26 Ant 1 DSI4						
Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel			164800	166300	167800	
Frequency (MHz)			824	831.5	839	
PI2 BPSK	1	1	22.18	22.11	22.45	24.0
PI2 BPSK	1	53	22.30	22.39	22.26	24.0
PI2 BPSK	1	104	22.31	22.46	22.37	24.0
PI2 BPSK	50	0	22.04	22.16	22.11	23.5
PI2 BPSK	50	26	22.29	22.38	22.32	24.0
PI2 BPSK	50	56	21.89	22.00	21.88	23.5
PI2 BPSK	100	0	22.02	22.07	22.00	24.0
QPSK	1	1	22.47	22.36	22.49	24.0
QPSK	1	53	22.60	22.46	22.38	24.0
QPSK	1	104	22.41	22.52	22.40	24.0
QPSK	50	0	21.58	21.66	21.51	23.0
QPSK	50	26	22.39	22.46	22.42	24.0
QPSK	50	56	21.37	21.52	21.36	23.0
QPSK	100	0	21.49	21.55	21.46	23.0
16QAM	1	1	21.40	21.49	21.34	23.0
16QAM	1	1	18.96	20.02	18.97	21.5
256QAM	1	1	18.25	18.30	18.17	19.5
Channel			164300	166800	168300	
Frequency (MHz)			821.5	831.5	841.5	
QPSK	1	1	22.36	22.17	22.39	24.0
Channel			163800	165300	166800	
Frequency (MHz)			819	831.5	844	
QPSK	1	1	22.32	22.50	22.37	24.0
Channel			163300	165300	165300	
Frequency (MHz)			816.5	831.5	846.5	
QPSK	1	1	22.34	22.46	22.39	24.0

n66 Ant 1 DSI4								
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				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI2 BPSK	1	1	22.14	22.09	22.59	24.0	0.0
40	PI2 BPSK	1	108	22.49	22.63	22.55	24.0	0.0
40	PI2 BPSK	1	214	22.52	22.58	22.54	24.0	0.0
40	PI2 BPSK	108	0	22.32	22.37	22.33	23.5	0.5
40	PI2 BPSK	108	54	22.47	22.60	22.50	24.0	0.0
40	PI2 BPSK	108	108	22.16	22.26	22.13	23.5	0.5
40	PI2 BPSK	216	0	22.06	22.18	22.04	24.0	0.0
40	QPSK	1	1	22.88	22.72	22.82	24.0	0.0
40	QPSK	1	108	22.68	22.97	22.92	24.0	0.0
40	QPSK	1	214	22.54	22.64	22.52	24.0	0.0
40	QPSK	108	0	21.83	21.79	21.89	23.0	1.0
40	QPSK	108	54	22.50	22.56	22.47	24.0	0.0
40	QPSK	108	108	21.64	21.76	21.71	23.0	1.0
40	QPSK	216	0	21.52	21.61	21.48	23.0	1.0
40	16QAM	1	1	21.48	21.63	21.49	23.0	1.0
40	16QAM	1	1	18.96	20.05	18.93	21.5	2.5
40	256QAM	1	1	18.60	18.65	18.57	19.5	4.5
Channel				345500	349000	352500		
Frequency (MHz)				1727.5	1745	1762.5		
35	QPSK	1	1	22.59	22.62	22.47	23.0	0.0
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	22.58	22.61	22.56	24.0	0.0
Channel				344500	349000	353500		
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	22.63	22.60	22.53	24.0	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	22.53	22.65	22.56	24.0	0.0
Channel				343500	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	22.63	22.58	22.48	24.0	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.57	22.63	22.51	24.0	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	22.62	22.62	22.47	24.0	0.0



n38 Ant 1 DSI4							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mid Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel							
Frequency (MHz)				518004	519000	519996	
40	P2/BPSK	1	1	20.91	21.00	20.85	
40	P2/BPSK	1	53	20.83	20.91	20.79	22.5
40	P2/BPSK	1	104	20.76	20.87	20.78	
40	P2/BPSK	50	0	20.32	20.46	20.26	22.0
40	P2/BPSK	50	59	20.81	20.90	20.84	22.5
40	P2/BPSK	50	56	20.37	20.42	20.37	22.0
40	P2/BPSK	100	0	20.26	20.38	20.22	22.0
40	QPSK	1	1	20.96	21.02	21.00	
40	QPSK	1	53	20.78	20.81	20.81	22.5
40	QPSK	1	104	20.73	20.88	20.82	
40	QPSK	50	0	19.93	19.97	19.90	21.5
40	QPSK	50	28	20.83	20.93	20.80	22.5
40	QPSK	50	56	19.75	19.91	19.85	21.5
40	QPSK	100	0	19.81	19.92	19.83	21.5
40	16QAM	1	1	19.71	19.81	19.76	21.5
40	64QAM	1	1	18.17	18.32	18.20	20.0
40	256QAM	1	1	16.52	16.60	16.52	18.0
Channel							
Frequency (MHz)				517002	516000	509998	
30	QPSK	1	1	20.62	20.70	20.70	22.5
Channel							
Frequency (MHz)				515000	514000	502000	
20	QPSK	1	1	20.72	20.76	20.68	22.5
Channel							
Frequency (MHz)				513002	512000	505998	
15	QPSK	1	1	20.70	20.82	20.76	22.5
Channel							
Frequency (MHz)				511004	510000	502996	
10	QPSK	1	1	20.68	20.76	20.66	22.5

n41 Ant 1 DSI4							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mid Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel							
Frequency (MHz)				509002	518998	526000	
100	P2/BPSK	1	1	20.93	21.04	20.94	
100	P2/BPSK	1	137	20.90	20.96	20.89	22.5
100	P2/BPSK	1	271	20.77	20.90	20.84	
100	P2/BPSK	135	0	20.47	20.63	20.59	22.0
100	P2/BPSK	135	69	20.86	20.94	20.87	22.5
100	P2/BPSK	135	138	20.51	20.64	20.55	22.0
100	P2/BPSK	270	0	20.51	20.59	20.46	22.0
100	QPSK	1	1	21.05	21.08	20.97	
100	QPSK	1	137	20.90	21.02	20.95	22.5
100	QPSK	1	271	20.87	20.92	20.78	
100	QPSK	135	0	19.99	20.13	20.08	21.5
100	QPSK	135	69	20.83	20.88	20.88	22.5
100	QPSK	135	138	20.05	20.10	19.97	21.5
100	QPSK	270	0	19.84	19.87	19.88	21.5
100	16QAM	1	1	19.87	20.01	19.90	21.5
100	64QAM	1	1	18.28	18.39	18.26	20.0
100	256QAM	1	1	16.91	17.03	16.96	18.0
Channel							
Frequency (MHz)				508000	518998	526996	
80	QPSK	1	1	20.70	20.85	20.84	22.5
Channel							
Frequency (MHz)				507004	518998	525996	
80	QPSK	1	1	20.76	20.97	20.86	22.5
Channel							
Frequency (MHz)				506002	518998	524996	
70	QPSK	1	1	20.97	21.01	20.82	22.5
Channel							
Frequency (MHz)				505000	518998	523996	
60	QPSK	1	1	20.86	20.93	20.82	22.5
Channel							
Frequency (MHz)				504004	518998	522996	
50	QPSK	1	1	20.82	20.97	20.84	22.5
Channel							
Frequency (MHz)				503002	518998	521000	
40	QPSK	1	1	20.85	20.96	20.83	22.5
Channel							
Frequency (MHz)				502000	518998	519996	
30	QPSK	1	1	20.76	20.95	20.86	22.5
Channel							
Frequency (MHz)				501004	518998	518996	
20	QPSK	1	1	20.86	20.96	20.86	22.5
Channel							
Frequency (MHz)				500700	518998	518496	
15	QPSK	1	1	20.78	20.87	20.89	22.5
Channel							
Frequency (MHz)				500002	518998	517000	
10	QPSK	1	1	20.75	20.80	20.80	22.5



n2 Ant 2 DSI4

Channel	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel	372000	376000	380000					
Frequency (MHz)	1870	1910	1950					
20 Pi2 BPSK	1	1	1	22.02	22.70	22.98	24.0	0.0
20 Pi2 BPSK	1	53	104	22.50	22.55	22.39		
20 Pi2 BPSK	1	104		22.51	22.56	22.43		
20 Pi2 BPSK	50	0		22.07	22.19	22.11	23.5	0.5
20 Pi2 BPSK	50	28		22.45	22.37	22.32	24.0	0.0
20 Pi2 BPSK	50	56		22.03	22.14	22.08		
20 Pi2 BPSK	100	0		21.98	22.07	21.97	23.5	0.5
20 QPSK	1	1	1	22.86	22.72	22.70		
20 QPSK	1	53	104	22.50	22.58	22.53	24.0	0.0
20 QPSK	1	104		22.81	22.86	22.82		
20 QPSK	50	0		21.81	21.66	21.62	23.0	1.0
20 QPSK	50	28		22.54	22.61	22.56	24.0	0.0
20 QPSK	50	56		21.46	21.60	21.50	23.0	1.0
20 QPSK	100	0		21.49	21.61	21.49		
20 16QAM	1	1	1	21.22	21.30	21.15	23.0	1.0
20 16QAM	1	1	1	20.02	20.08	19.99	21.5	2.5
20 256QAM	1	1	1	18.26	18.35	18.29	19.5	4.5
Channel	371500	376000	380500	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	1877.5	1910	1922.5					
15 QPSK	1	1	1	22.42	22.51	22.40	24.0	0.0
Channel	371000	376000	381000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	1865	1880	1905					
10 QPSK	1	1	1	22.39	22.46	22.42	24.0	0.0
Channel	370500	376000	381500	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	1862.5	1880	1897.5					
5 QPSK	1	1	1	22.42	22.48	22.38	24.0	0.0

n7 Ant 2 DSI4

Channel	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel	504000	507000	510000					
Frequency (MHz)	2520	2535	2550					
40 Pi2 BPSK	1	1	1	22.44	22.50	22.42	24.0	0.0
40 Pi2 BPSK	1	108		22.23	22.39	22.29		
40 Pi2 BPSK	1	214		22.37	22.41	22.25		
40 Pi2 BPSK	108	0		21.93	22.07	22.00	23.5	0.5
40 Pi2 BPSK	108	54		22.28	22.40	22.35	24.0	0.0
40 Pi2 BPSK	108	108		22.04	22.18	22.05		
40 Pi2 BPSK	216	0		22.02	22.12	22.01	23.5	0.5
40 QPSK	1	1	1	22.98	22.83	22.81		
40 QPSK	1	108		22.43	22.52	22.38	24.0	0.0
40 QPSK	1	214		22.43	22.50	22.44		
40 QPSK	108	0		21.38	21.54	21.43	23.0	1.0
40 QPSK	108	54		22.49	22.54	22.40	24.0	0.0
40 QPSK	108	108		21.42	21.52	21.42	23.0	1.0
40 QPSK	216	0		21.38	21.46	21.31		
40 16QAM	1	1	1	21.41	21.48	21.44	23.0	1.0
40 16QAM	1	1	1	19.86	19.75	19.54	21.5	2.5
40 256QAM	1	1	1	17.98	18.07	17.95	19.5	4.5
Channel	503500	507000	511000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	2515	2535	2555					
30 QPSK	1	1	1	22.29	22.44	22.31	24.0	0.0
Channel	503000	507000	511500	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	2512.5	2535	2557.5					
25 QPSK	1	1	1	22.37	22.44	22.32	24.0	0.0
Channel	502500	503000	512000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	2510	2535	2560					
20 QPSK	1	1	1	22.33	22.41	22.33	24.0	0.0
Channel	502000	507000	512500	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	2507.5	2535	2562.5					
15 QPSK	1	1	1	22.32	22.39	22.23	24.0	0.0
Channel	501500	507000	513000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	2505	2535	2565					
10 QPSK	1	1	1	22.39	22.38	22.24	24.0	0.0
Channel	501000	507000	513500	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	2502.5	2535	2567.5					
5 QPSK	1	1	1	22.36	22.36	22.31	24.0	0.0

n66 Ant 2 DSI4

Channel	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel	345000	349000	353000					
Frequency (MHz)	1725	1745	1765					
40 Pi2 BPSK	1	1	1	22.43	22.55	22.41	24.0	0.0
40 Pi2 BPSK	1	108		22.38	22.46	22.36		
40 Pi2 BPSK	1	214		22.45	22.50	22.42		
40 Pi2 BPSK	108	0		22.01	22.09	22.06	23.5	0.5
40 Pi2 BPSK	108	54		22.33	22.45	22.34	24.0	0.0
40 Pi2 BPSK	108	108		21.92	22.02	21.92		
40 Pi2 BPSK	216	0		21.99	22.03	21.94	23.5	0.5
40 QPSK	1	1	1	22.51	22.58	22.54		
40 QPSK	1	108		22.40	22.52	22.43	24.0	0.0
40 QPSK	1	214		22.44	22.53	22.48		
40 QPSK	108	0		21.42	21.58	21.42	23.0	1.0
40 QPSK	108	54		22.41	22.53	22.42	24.0	0.0
40 QPSK	108	108		21.47	21.51	21.45	23.0	1.0
40 QPSK	216	0		21.33	21.47	21.35		
40 16QAM	1	1	1	21.27	21.33	21.21	23.0	1.0
40 16QAM	1	1	1	19.76	19.81	19.76	21.5	2.5
40 256QAM	1	1	1	18.26	18.37	18.27	19.5	4.5
Channel	344500	349000	353500	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	1727.5	1745	1762.5					
35 QPSK	1	1	1	22.27	22.42	22.31	24.0	0.0
Channel	344000	349000	354000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	1725	1745	1765					
30 QPSK	1	1	1	22.27	22.38	22.39	24.0	0.0
Channel	343500	349000	354500	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	1722.5	1745	1767.5					
25 QPSK	1	1	1	22.30	22.48	22.36	24.0	0.0
Channel	343000	349000	355000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	1720	1745	1770					
20 QPSK	1	1	1	22.34	22.37	22.29	24.0	0.0
Channel	342500	349000	354500	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	1717.5	1745	1772.5					
15 QPSK	1	1	1	22.26	22.45	22.35	24.0	0.0
Channel	342000	349000	355500	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	1715	1745	1775					
10 QPSK	1	1	1	22.27	22.45	22.23	24.0	0.0
Channel	341500	349000	355500	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)	1712.5	1745	1777.5					
5 QPSK	1	1	1	22.34	22.40	22.35	24.0	0.0



n38 Ant 2 DSI4								
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)				518004	519000	519996		
40	PB2 BPSK	1	1	22.38	22.45	22.33		
40	PB2 BPSK	1	53	22.18	22.30	22.15	24.0	0.0
40	PB2 BPSK	1	104	22.27	22.39	22.29		
40	PB2 BPSK	50	0	21.85	22.01	21.88	23.5	0.5
40	PB2 BPSK	50	59	22.35	22.39	22.27	24.0	0.0
40	PB2 BPSK	50	55	21.88	22.12	22.00		
40	PB2 BPSK	100	0	21.91	22.01	21.96	23.5	0.5
40	QPSK	1	1	22.49	22.56	22.53		
40	QPSK	1	53	22.27	22.45	22.32	24.0	0.0
40	QPSK	1	104	22.35	22.51	22.39		
40	QPSK	50	0	21.49	21.55	21.51	23.0	1.0
40	QPSK	50	28	22.38	22.50	22.38	24.0	0.0
40	QPSK	50	50	21.42	21.52	21.37		
40	QPSK	100	0	21.34	21.48	21.34	23.0	1.0
40	16QAM	1	1	21.38	21.48	21.36	23.0	1.0
40	64QAM	1	1	19.78	19.87	19.83	21.5	2.5
40	256QAM	1	1	18.04	18.13	18.08	19.5	4.5
Channel								
Frequency (MHz)				517002	516000	509998	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.55	22.59	22.44	24.0	0.0
Channel								
Frequency (MHz)				516000	515000	502000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.30	22.32	22.20	24.0	0.0
Channel								
Frequency (MHz)				515002	515000	509998	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.32	22.38	22.19	24.0	0.0
Channel								
Frequency (MHz)				515004	515000	502996	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.27	22.38	22.24	24.0	0.0

n41 Ant 2 DSI4								
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)				509002	518998	526000		
100	PB2 BPSK	1	1	22.43	22.63	22.55		
100	PB2 BPSK	1	137	22.38	22.53	22.43	24.0	0.0
100	PB2 BPSK	1	271	22.53	22.60	22.49		
100	PB2 BPSK	135	0	21.95	22.11	22.01	23.5	0.5
100	PB2 BPSK	135	69	22.47	22.57	22.49	24.0	0.0
100	PB2 BPSK	135	138	22.16	22.23	22.15		
100	PB2 BPSK	270	0	21.93	22.01	21.90	23.5	0.5
100	QPSK	1	1	22.57	22.66	22.61		
100	QPSK	1	137	22.48	22.58	22.49	24.0	0.0
100	QPSK	1	271	22.44	22.54	22.39		
100	QPSK	135	0	21.49	21.61	21.52	23.0	1.0
100	QPSK	135	69	22.52	22.58	22.44	24.0	0.0
100	QPSK	135	138	21.61	21.75	21.68		
100	QPSK	270	0	21.54	21.60	21.44	23.0	1.0
100	16QAM	1	1	21.49	21.53	21.42	23.0	1.0
100	64QAM	1	1	19.93	19.98	19.85	21.5	2.5
100	256QAM	1	1	17.90	17.98	17.82	19.5	4.5
Channel								
Frequency (MHz)				508000	518998	526996	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	22.41	22.52	22.44	24.0	0.0
Channel								
Frequency (MHz)				507004	518998	509998	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	22.40	22.45	22.41	24.0	0.0
Channel								
Frequency (MHz)				506002	518998	509998	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	22.49	22.58	22.56	24.0	0.0
Channel								
Frequency (MHz)				505000	518998	531996	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	22.40	22.49	22.40	24.0	0.0
Channel								
Frequency (MHz)				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	22.39	22.52	22.44	24.0	0.0
Channel								
Frequency (MHz)				503002	518998	534000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	22.34	22.52	22.43	24.0	0.0
Channel								
Frequency (MHz)				502250	518998	534996	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.34	22.52	22.45	24.0	0.0
Channel								
Frequency (MHz)				501004	518998	535998	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.44	22.52	22.40	24.0	0.0
Channel								
Frequency (MHz)				500700	518998	536496	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.33	22.45	22.42	24.0	0.0
Channel								
Frequency (MHz)				500002	518998	537000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.31	22.52	22.40	24.0	0.0



Part270 n77 Ant 4 DSI4

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				3750	3840	3930		
100	Pi2 BPSK	1	1	22.44	22.04	22.43		
100	Pi2 BPSK	1	137	22.42	22.48	22.49	24.0	0.0
100	Pi2 BPSK	1	271	22.43	22.51	22.49		
100	Pi2 BPSK	135	0	21.97	22.05	21.97	23.5	0.5
100	Pi2 BPSK	135	69	22.36	22.50	22.43	24.0	0.0
100	Pi2 BPSK	135	138	21.96	22.10	22.09		
100	Pi2 BPSK	270	0	22.06	22.06	22.08	23.5	0.5
100	QPSK	1	1	22.80	22.99	22.83		
100	QPSK	1	137	22.63	22.50	22.86	24.0	0.0
100	QPSK	1	271	22.36	22.56	22.42		
100	QPSK	135	0	21.50	21.54	21.57	23.0	1.0
100	QPSK	135	69	22.36	22.46	22.43	24.0	0.0
100	QPSK	135	138	21.54	21.54	21.55		
100	QPSK	270	0	21.54	21.56	21.53	23.0	1.0
100	16QAM	1	1	21.53	21.58	21.51	23.0	1.0
100	16QAM	1	1	20.02	20.04	20.05	21.5	2.5
100	256QAM	1	1	19.03	19.12	19.09	19.5	4.5
Channel								
Frequency (MHz)				650000	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01	(dBm)	(dB)
80	QPSK	1	1	22.07	22.49	22.39	24.0	0.0
Channel								
Frequency (MHz)				650334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)
80	QPSK	1	1	22.23	22.42	22.37	24.0	0.0
Channel								
Frequency (MHz)				650000	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)
70	QPSK	1	1	22.38	22.48	22.37	24.0	0.0
Channel								
Frequency (MHz)				648980	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)
60	QPSK	1	1	22.43	22.43	22.38	24.0	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)
50	QPSK	1	1	22.42	22.53	22.42	24.0	0.0
Channel								
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)
40	QPSK	1	1	22.29	22.49	22.41	24.0	0.0
Channel								
Frequency (MHz)				647668	650000	653334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)
30	QPSK	1	1	22.28	22.44	22.45	24.0	0.0
Channel								
Frequency (MHz)				647334	650000	654000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)
20	QPSK	1	1	22.29	22.49	22.42	24.0	0.0
Channel								
Frequency (MHz)				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705.02	3840	3975.01	(dBm)	(dB)
15	QPSK	1	1	22.25	22.52	22.44	24.0	0.0
Channel								
Frequency (MHz)				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3700	3840	3975	(dBm)	(dB)
10	QPSK	1	1	22.25	22.50	22.37	24.0	0.0

Part270 n77 HPUE Ant 4 DSI4

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				650000	650000	650000		
100	Pi2 BPSK	1	1	25.27	25.34	25.24		
100	Pi2 BPSK	1	137	25.20	25.27	25.07	27.0	0.0
100	Pi2 BPSK	1	271	25.22	25.22	25.18		
100	Pi2 BPSK	135	0	24.91	24.99	24.91	26.5	0.5
100	Pi2 BPSK	135	69	25.28	25.31	25.25	27.0	0.0
100	Pi2 BPSK	135	138	24.86	24.96	24.88		
100	Pi2 BPSK	270	0	24.89	24.96	24.90	26.5	0.5
100	QPSK	1	1	26.40	26.44	26.35		
100	QPSK	1	137	25.36	25.35	25.21	27.0	0.0
100	QPSK	1	271	25.35	25.35	25.32		
100	QPSK	135	0	24.45	24.38	24.36	26.0	1.0
100	QPSK	135	69	26.33	26.36	26.20	27.0	0.0
100	QPSK	135	138	24.43	24.42	24.40		
100	QPSK	270	0	24.40	24.45	24.29	26.0	1.0
100	16QAM	1	1	24.39	24.46	24.30	26.0	1.0
100	16QAM	1	1	22.95	22.94	22.82	24.5	2.5
100	256QAM	1	1	20.92	20.92	20.83	22.5	4.5
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.02	3840	3935.01	(dBm)	(dB)
80	QPSK	1	1	25.34	25.40	25.29	27.0	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)
80	QPSK	1	1	25.26	25.41	25.22	27.0	0.0
Channel								
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)
70	QPSK	1	1	25.27	25.32	25.21	27.0	0.0
Channel								
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)
60	QPSK	1	1	25.26	25.39	25.25	27.0	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)
50	QPSK	1	1	25.31	25.32	25.21	27.0	0.0
Channel								
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)
40	QPSK	1	1	25.39	25.39	25.29	27.0	0.0
Channel								
Frequency (MHz)				647668	650000	653334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)
30	QPSK	1	1	25.27	25.36	25.25	27.0	0.0
Channel								
Frequency (MHz)				647334	650000	654000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)
20	QPSK	1	1	25.31	25.37	25.26	27.0	0.0
Channel								
Frequency (MHz)				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705.02	3840	3975.01	(dBm)	(dB)
15	QPSK	1	1	25.33	25.33	25.32	27.0	0.0
Channel								
Frequency (MHz)				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3700	3840	3975	(dBm)	(dB)
10	QPSK	1	1	25.32	25.38	25.23	27.0	0.0

Part270 n78 Ant 4 DSI4

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)				650000	650000	650000		
100	Pi2 BPSK	1	1	22.44	22.44	22.44		
100	Pi2 BPSK	1	137	22.37	22.47	22.37	24.0	0.0
100	Pi2 BPSK	1	271	22.41				
100	Pi2 BPSK	135	0	22.01			23.5	0.5
100	Pi2 BPSK	135	69	22.42			24.0	0.0
100	Pi2 BPSK	135	138	21.96				
100	Pi2 BPSK	270	0	21.96			23.5	0.5
100	QPSK	1	1	22.47				
100	QPSK	1	137	22.35			24.0	0.0
100	QPSK	1	271	22.44				
100	QPSK	135	0	21.40			23.0	1.0
100	QPSK	135	69	22.32			24.0	0.0
100	QPSK	135	138	21.41				
100	QPSK	270	0	21.50			23.0	1.0
100	16QAM	1	1	21.46			23.0	1.0
100	16QAM	1	1	19.92			21.5	2.5
100	256QAM	1	1	18.05			19.5	4.5
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.02	3840	3935.01	(dBm)	(dB)
80	QPSK	1	1	22.29	22.39	22.30	24.0	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)
80	QPSK	1	1	22.30	22.37	22.23	24.0	0.0
Channel								
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)
70	QPSK	1	1	22.26	22.39	22.26	24.0	0.0
Channel								
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)
60	QPSK	1	1	22.29	22.38	22.31	24.0	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)
50	QPSK	1	1	22.34	22.36	22.29	24.0	0.0
Channel								
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)
40	QPSK	1	1	22.32	22.40	22.25	24.0	0.0
Channel								
Frequency (MHz)				647668	650000	653334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)
30	QPSK	1	1	22.32	22.45	22.26	24.0	0.0
Channel								
Frequency (MHz)				647334	650000	654000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								



Part270 n78 HPUE Ant 4 DS14

Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
			Low Ch. / Freq	Mid Ch. / Freq	High Ch. / Freq		
Channel			650000	650000	650000		
Frequency (MHz)			3750	3750	3750		
PI2 BPSK	1	1		24.24			
PI2 BPSK	1	137		25.21		27.0	0.0
PI2 BPSK	1	271		25.10			
PI2 BPSK	135	0		24.95		26.5	0.5
PI2 BPSK	135	69		25.23		27.0	0.0
PI2 BPSK	135	138		24.85			
PI2 BPSK	270	0		24.92		26.5	0.5
QPSK	1	1		25.40			
QPSK	1	137		25.29		27.0	0.0
QPSK	1	271		25.23			
QPSK	135	0		24.23		26.0	1.0
QPSK	135	69		25.33		27.0	0.0
QPSK	135	138		24.37			
QPSK	270	0		24.46		26.0	1.0
16QAM	1	1		24.41		26.0	1.0
16QAM	1	1		23.85		24.5	2.5
256QAM	1	1		20.78		22.5	4.5
Channel			648668	650000	650334	Tune-up limit	MPR
Frequency (MHz)			3745.02	3750	3755.01	(dBm)	(dB)
QPSK	1	1	25.27	25.29	25.25	27.0	0.0
Channel			649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)			3740.01	3750	3760.02	(dBm)	(dB)
QPSK	1	1	25.21	25.36	25.16	27.0	0.0
Channel			649000	650000	651000	Tune-up limit	MPR
Frequency (MHz)			3735	3750	3765	(dBm)	(dB)
QPSK	1	1	25.22	25.35	25.26	27.0	0.0
Channel			648668	650000	651334	Tune-up limit	MPR
Frequency (MHz)			3730.02	3750	3770.01	(dBm)	(dB)
QPSK	1	1	25.22	25.37	25.24	27.0	0.0
Channel			648334	650000	651668	Tune-up limit	MPR
Frequency (MHz)			3725.01	3750	3775.02	(dBm)	(dB)
QPSK	1	1	25.26	25.35	25.29	27.0	0.0
Channel			648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)			3720	3750	3780	(dBm)	(dB)
QPSK	1	1	25.24	25.31	25.22	27.0	0.0
Channel			647668	650000	652334	Tune-up limit	MPR
Frequency (MHz)			3715.02	3750	3785.01	(dBm)	(dB)
QPSK	1	1	25.27	25.29	25.22	27.0	0.0
Channel			647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)			3710.01	3750	3790.02	(dBm)	(dB)
QPSK	1	1	25.24	25.27	25.17	27.0	0.0
Channel			647000	650000	652999	Tune-up limit	MPR
Frequency (MHz)			3705	3750	3795	(dBm)	(dB)
QPSK	1	1	25.19	25.32	25.15	27.0	0.0



Part270 n77 Ant 5 DS14

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit	MPR			
									Low Ch./Freq.	Medi. Ch./Freq.	High Ch./Freq.
									(dBm)	(dBm)	(dBm)
Channel											
Frequency (MHz)											
100	PI2 BPSK	1	1	3750	3840	3930					
100	PI2 BPSK	1	137	2259	2269	2272	24.0	0.0			
100	PI2 BPSK	1	271	2284	2289	2292					
100	PI2 BPSK	135	0	2227	2226	2230	23.5	0.5			
100	PI2 BPSK	135	69	2284	2268	2260	24.0	0.0			
100	PI2 BPSK	135	138	2219	2226	2229					
100	PI2 BPSK	270	0	2222	2233	2222	23.5	0.5			
100	QPSK	1	1	2272	2279	2276					
100	QPSK	1	137	2288	2272	2286	24.0	0.0			
100	QPSK	1	271	2287	2276	2271					
100	QPSK	135	0	2167	2176	2172	23.0	1.0			
100	QPSK	135	69	2289	2274	2271	24.0	0.0			
100	QPSK	135	138	2175	2173	2178	23.0	1.0			
100	QPSK	270	0	2174	2176	2172	23.0	1.0			
100	16QAM	1	1	2177	2174	2170	23.0	1.0			
100	16QAM	1	1	2023	2031	2025	21.5	2.5			
100	256QAM	1	1	1822	1832	1827	19.5	4.5			
Channel											
Frequency (MHz)											
80	QPSK	1	1	3745.02	3840	3925.01					
Channel											
Frequency (MHz)											
80	QPSK	1	1	2261	2264	2268	24.0	0.0			
Channel											
Frequency (MHz)											
70	QPSK	1	1	2235	2272	2284	24.0	0.0			
Channel											
Frequency (MHz)											
60	QPSK	1	1	2258	2287	2280	24.0	0.0			
Channel											
Frequency (MHz)											
50	QPSK	1	1	2284	2272	2259	24.0	0.0			
Channel											
Frequency (MHz)											
40	QPSK	1	1	2254	2257	2255	24.0	0.0			
Channel											
Frequency (MHz)											
30	QPSK	1	1	2259	2285	2264	24.0	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	1	2281	2264	2265	24.0	0.0			
Channel											
Frequency (MHz)											
15	QPSK	1	1	2282	2284	2288	24.0	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	1	2285	2287	2287	24.0	0.0			

Part270 n77 HPUE Ant 5 DS14

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit	MPR			
									Low Ch./Freq.	Medi. Ch./Freq.	High Ch./Freq.
									(dBm)	(dBm)	(dBm)
Channel											
Frequency (MHz)											
100	PI2 BPSK	1	1	2511	2516	2516					
100	PI2 BPSK	1	137	2581	2586	2571	27.0	0.0			
100	PI2 BPSK	1	271	2581	2581	2584					
100	PI2 BPSK	135	0	2531	2527	2526	26.5	0.5			
100	PI2 BPSK	135	69	2580	2584	2581	27.0	0.0			
100	PI2 BPSK	135	138	2520	2526	2526					
100	PI2 BPSK	270	0	2527	2533	2520	26.5	0.5			
100	QPSK	1	1	2576	2586	2577					
100	QPSK	1	137	2583	2571	2589	27.0	0.0			
100	QPSK	1	271	2583	2576	2573					
100	QPSK	135	0	2489	2478	2488	26.0	1.0			
100	QPSK	135	69	2573	2579	2574	27.0	0.0			
100	QPSK	135	138	2474	2471	2480					
100	QPSK	270	0	2471	2476	2474	26.0	1.0			
100	16QAM	1	1	2480	2470	2471	26.0	1.0			
100	16QAM	1	1	2320	2328	2320	24.5	2.5			
100	256QAM	1	1	2121	2128	2133	22.5	4.5			
Channel											
Frequency (MHz)											
80	QPSK	1	1	2504	2511	2514	27.0	0.0			
Channel											
Frequency (MHz)											
80	QPSK	1	1	2500	2508	2500	27.0	0.0			
Channel											
Frequency (MHz)											
70	QPSK	1	1	2509	2505	2503	27.0	0.0			
Channel											
Frequency (MHz)											
60	QPSK	1	1	2586	2571	2585	27.0	0.0			
Channel											
Frequency (MHz)											
50	QPSK	1	1	2500	2572	2594	27.0	0.0			
Channel											
Frequency (MHz)											
40	QPSK	1	1	2570	2587	2584	27.0	0.0			
Channel											
Frequency (MHz)											
30	QPSK	1	1	2569	2570	2570	27.0	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	1	2562	2567	2567	27.0	0.0			
Channel											
Frequency (MHz)											
15	QPSK	1	1	2589	2570	2581	27.0	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	1	2583	2585	2585	27.0	0.0			

Part270 n78 Ant 5 DS14

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit	MPR			
									Low Ch./Freq.	Medi. Ch./Freq.	High Ch./Freq.
									(dBm)	(dBm)	(dBm)
Channel											
Frequency (MHz)											
100	PI2 BPSK	1	1	3750	3750	3750					
100	PI2 BPSK	1	137	2264	2264	2264	24.0	0.0			
100	PI2 BPSK	1	271	2258	2258	2258					
100	PI2 BPSK	135	0	2218	2218	2218	23.5	0.5			
100	PI2 BPSK	135	69	2258	2258	2258	24.0	0.0			
100	PI2 BPSK	135	138	2223	2223	2223	23.5	0.5			
100	PI2 BPSK	270	0	2224	2224	2224					
100	QPSK	1	1	2287	2287	2287	24.0	0.0			
100	QPSK	1	137	2271	2271	2271					
100	QPSK	1	271	2170	2170	2170	23.0	1.0			
100	QPSK	135	69	2270	2270	2270	24.0	0.0			
100	QPSK	135	138	2168	2168	2168					
100	QPSK	270	0	2164	2164	2164	23.0	1.0			
100	16QAM	1	1	2163	2163	2163	23.0	1.0			
100	16QAM	1	1	2026	2026	2026	21.5	2.5			
100	256QAM	1	1	1828	1828	1828	19.5	4.5			
Channel											
Frequency (MHz)											
80	QPSK	1	1	3745.02	3840	3925.01					
Channel											
Frequency (MHz)											
80	QPSK	1	1	2254	2258	2249	24.0	0.0			
Channel											
Frequency (MHz)											
80	QPSK	1	1	2258	2250	2250	24.0	0.0			
Channel											
Frequency (MHz)											
70	QPSK	1	1	2251	2280	2245	24.0	0.0			
Channel											
Frequency (MHz)											
60	QPSK	1	1	2281	2259	2247	24.0	0.0			
Channel											
Frequency (MHz)											
50	QPSK	1	1	2258	2254	2243	24.0	0.0			
Channel											
Frequency (MHz)											
40	QPSK	1	1	2254	2257	2253	24.0	0.0			
Channel											
Frequency (MHz)											
30	QPSK	1	1	2257	2282	2249	24.0	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	1	2254	2284	2246	24.0	0.0			
Channel											
Frequency (MHz)											
15	QPSK	1	1	2254	2259	2249	24.0	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	1	2253	2287	2245	24.0	0.0			

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit	MPR
				Low Ch./Freq.	Medi. Ch./Freq.	High Ch./Freq.	(dBm)	(dB)
100	PI2 BPSK	1	1	3750	3750	3750		
100	PI2 BPSK	1	137	2264	2264	2264	24.0	0.0
100	PI2 BPSK	1	271	2258	2258	2258		
100	PI2 BPSK	135	0	2218	2218	2218	23.5	0.5
100	PI2 BPSK	135	69	2258	2258	2258	24.0	0.0
100	PI2 BPSK	135	138	2223	2223	2223	23.5	0.5
100	PI2 BPSK	270	0	2224	2224	2224		
100	QPSK	1	1	2287	2287	2287	24.0	0.0
100	QPSK	1	137	2271	2271	2271		
100	QPSK	1	271	2170	2170	2170	23.0	1.0
100	QPSK	135	69	2270	2270	2270	24.0	0.0
100	QPSK	135	138	2168	2168	2168		
100	QPSK	270	0	2164	2164	2164	23.0	1.0
100	16QAM	1	1	2163	2163	2163	23.0	1.0
100	16QAM	1	1	2026	2026	2026	21.5	2.5
100	256QAM	1	1	1828	1828	1828	19.5	4.5



Part270 n78 HPUE Ant 5 DS14

Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
			Low Ch. / Freq	Mid Ch. / Freq	High Ch. / Freq		
Channel			650000	650000	650000		
Frequency (MHz)			3750	3750	3750		
Pi2 BPSK	1	1		25.61			
Pi2 BPSK	1	137		25.62		27.0	0.0
Pi2 BPSK	1	271		25.56			
Pi2 BPSK	135	0		25.21		26.5	0.5
Pi2 BPSK	135	69		25.50		27.0	0.0
Pi2 BPSK	135	138		25.24			
Pi2 BPSK	270	0		25.26		26.5	0.5
QPSK	1	1		25.77			
QPSK	1	137		25.59		27.0	0.0
QPSK	1	271		25.72			
QPSK	135	0		24.72		26.0	1.0
QPSK	135	69		25.68		27.0	0.0
QPSK	135	138		24.65			
QPSK	270	0		24.70		26.0	1.0
16QAM	1	1		24.66		26.0	1.0
16QAM	1	1		23.18		24.5	2.5
256QAM	1	1		21.24		22.5	4.5
Channel			648668	650000	650334	Tune-up limit	MPR
Frequency (MHz)			3745.02	3750	3755.01	(dBm)	(dB)
QPSK	1	1	25.50	25.61	25.63	27.0	0.0
Channel			649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)			3740.01	3750	3760.02	(dBm)	(dB)
QPSK	1	1	25.52	25.65	25.50	27.0	0.0
Channel			649500	650000	650500	Tune-up limit	MPR
Frequency (MHz)			3735	3750	3765	(dBm)	(dB)
QPSK	1	1	25.56	25.64	25.57	27.0	0.0
Channel			649668	650000	651334	Tune-up limit	MPR
Frequency (MHz)			3730.02	3750	3770.01	(dBm)	(dB)
QPSK	1	1	25.50	25.68	25.61	27.0	0.0
Channel			648334	650000	651668	Tune-up limit	MPR
Frequency (MHz)			3725.01	3750	3775.02	(dBm)	(dB)
QPSK	1	1	25.54	25.56	25.59	27.0	0.0
Channel			648000	650000	650500	Tune-up limit	MPR
Frequency (MHz)			3720	3750	3780	(dBm)	(dB)
QPSK	1	1	25.60	25.61	25.54	27.0	0.0
Channel			647668	650000	652334	Tune-up limit	MPR
Frequency (MHz)			3715.02	3750	3785.01	(dBm)	(dB)
QPSK	1	1	25.57	25.60	25.58	27.0	0.0
Channel			647334	650000	652000	Tune-up limit	MPR
Frequency (MHz)			3710.01	3750	3790.02	(dBm)	(dB)
QPSK	1	1	25.56	25.61	25.53	27.0	0.0
Channel			647168	650000	652634	Tune-up limit	MPR
Frequency (MHz)			3707.69	3750	3923.51	(dBm)	(dB)
QPSK	1	1	25.60	25.64	25.55	27.0	0.0
Channel			647000	650000	653000	Tune-up limit	MPR
Frequency (MHz)			3705	3750	3795	(dBm)	(dB)
QPSK	1	1	25.50	25.61	25.55	27.0	0.0



Part270 n77 Ant 7

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power (Low, Mid, High Ch./Freq.), Tune-up limit (dBm), MPR (dB). Rows include various modulation schemes like Pi2 BPSK, QPSK, 16QAM, and 256QAM across different frequency channels.

Part270 n77 HPUe Ant 7

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power (Low, Mid, High Ch./Freq.), Tune-up limit (dBm), MPR (dB). Rows include various modulation schemes like Pi2 BPSK, QPSK, 16QAM, and 256QAM across different frequency channels.

Part270 n78 Ant 7

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power (Low, Mid, High Ch./Freq.), Tune-up limit (dBm), MPR (dB). Rows include various modulation schemes like Pi2 BPSK, QPSK, 16QAM, and 256QAM across different frequency channels.

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power (Low, Mid, High Ch./Freq.), Tune-up limit (dBm), MPR (dB). This table appears to be a continuation or a specific subset of the data from the other tables.



Part270 n78 HPUE Ant 7

Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
			Low Ch. / Freq	Mid Ch. / Freq	High Ch. / Freq		
Channel			650000	650000	650000		
Frequency (MHz)			3750	3750	3750		
PI2 BPSK	1	1		24.43			
PI2 BPSK	1	137		25.55		27.0	0.0
PI2 BPSK	1	271		25.51			
PI2 BPSK	135	0		25.01		26.5	0.5
PI2 BPSK	135	69		25.47		27.0	0.0
PI2 BPSK	135	138		25.18			
PI2 BPSK	270	0		25.04		26.5	0.5
QPSK	1	1		25.92			
QPSK	1	137		25.44		27.0	0.0
QPSK	1	271		25.46			
QPSK	135	0		24.61		26.0	1.0
QPSK	135	69		25.46		27.0	0.0
QPSK	135	138		24.50			
QPSK	270	0		24.98		26.0	1.0
16QAM	1	1		24.07		26.0	1.0
16QAM	1	1		23.98		24.5	2.5
256QAM	1	1		21.05		22.5	4.5
Channel			648668	650000	650334	Tune-up limit	MPR
Frequency (MHz)			3745.02	3750	3755.01	(dBm)	(dB)
QPSK	1	1	25.37	25.55	25.51	27.0	0.0
Channel			649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)			3740.01	3750	3760.02	(dBm)	(dB)
QPSK	1	1	25.38	25.47	25.40	27.0	0.0
Channel			649500	650000	650500	Tune-up limit	MPR
Frequency (MHz)			3735	3750	3765	(dBm)	(dB)
QPSK	1	1	25.42	25.53	25.40	27.0	0.0
Channel			648968	650000	651334	Tune-up limit	MPR
Frequency (MHz)			3730.02	3750	3770.01	(dBm)	(dB)
QPSK	1	1	25.32	25.57	25.44	27.0	0.0
Channel			648334	650000	651668	Tune-up limit	MPR
Frequency (MHz)			3725.01	3750	3775.02	(dBm)	(dB)
QPSK	1	1	25.33	25.54	25.48	27.0	0.0
Channel			648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)			3720	3750	3780	(dBm)	(dB)
QPSK	1	1	25.35	25.54	25.50	27.0	0.0
Channel			647668	650000	652334	Tune-up limit	MPR
Frequency (MHz)			3715.02	3750	3785.01	(dBm)	(dB)
QPSK	1	1	25.32	25.48	25.50	27.0	0.0
Channel			647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)			3710.01	3750	3790.02	(dBm)	(dB)
QPSK	1	1	25.34	25.53	25.50	27.0	0.0
Channel			647168	650000	652834	Tune-up limit	MPR
Frequency (MHz)			3707.69	3750	3823.51	(dBm)	(dB)
QPSK	1	1	25.38	25.55	25.47	27.0	0.0
Channel			647000	650000	653000	Tune-up limit	MPR
Frequency (MHz)			3705	3750	3825	(dBm)	(dB)
QPSK	1	1	25.36	25.55	25.45	27.0	0.0



Part270 n77 Ant 8 DS14

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch./Freq.	Max Ch./Freq.	High Ch./Freq.		
Channel								
Frequency (MHz)								
650000 656000 662000								
100	PI2 BPSK	1	1	3750	3540	3330		
100	PI2 BPSK	1	137	2155	2154	2160	23.3	0.0
100	PI2 BPSK	1	271	2151	2154	2158		
100	PI2 BPSK	135	0	2159	2158	2153	23.3	0.0
100	PI2 BPSK	135	69	2156	2153	2156	23.3	0.0
100	PI2 BPSK	135	138	2159	2155	2159		
100	PI2 BPSK	270	0	2150	2154	2152	23.3	0.0
100	QPSK	1	1	2170	2175	2172		
100	QPSK	1	137	2158	2154	2152	23.3	0.0
100	QPSK	1	271	2150	2152	2152		
100	QPSK	135	0	2139	2142	2143	23.0	0.3
100	QPSK	135	69	2143	2172	2167	23.3	0.6
100	QPSK	135	138	2143	2146	2146		
100	QPSK	270	0	2136	2146	2139	23.0	0.3
100	16QAM	1	1	2140	2143	2141	23.0	0.3
100	16QAM	1	1	1935	2030	1938	21.5	1.8
100	256QAM	1	1	1792	1800	1794	19.5	3.8
Channel								
Frequency (MHz)								
649668 656000 662334								
90	CISK	1	1	3745.02	3540	3325.01		
Channel								
Frequency (MHz)								
649334 656000 662668								
80	QPSK	1	1	2143	2142	2151	23.3	0.0
Channel								
Frequency (MHz)								
649000 656000 663000								
70	QPSK	1	1	2133	2156	2163	23.3	0.0
Channel								
Frequency (MHz)								
648668 656000 663334								
60	QPSK	1	1	2157	2161	2163	23.3	0.0
Channel								
Frequency (MHz)								
648334 656000 663668								
50	QPSK	1	1	2152	2159	2153	23.3	0.0
Channel								
Frequency (MHz)								
648000 656000 664000								
40	QPSK	1	1	2152	2154	2158	23.3	0.0
Channel								
Frequency (MHz)								
647668 656000 664334								
30	QPSK	1	1	2159	2163	2162	23.3	0.0
Channel								
Frequency (MHz)								
647334 656000 664668								
20	QPSK	1	1	2159	2162	2153	23.3	0.0
Channel								
Frequency (MHz)								
647000 656000 664834								
15	QPSK	1	1	2150	2156	2161	23.3	0.0
Channel								
Frequency (MHz)								
647000 656000 665000								
10	QPSK	1	0	2157	2153	2153	23.3	0.0

Part270 n77 HPUE Ant 8 DS14

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch./Freq.	Max Ch./Freq.	High Ch./Freq.		
Channel								
Frequency (MHz)								
650000 656000 662000								
100	PI2 BPSK	1	1	2454	2470	2459		
100	PI2 BPSK	1	137	2465	2469	2460	26.3	0.0
100	PI2 BPSK	1	271	2458	2462	2463		
100	PI2 BPSK	135	0	2459	2464	2466	26.3	0.0
100	PI2 BPSK	135	69	2461	2463	2460		
100	PI2 BPSK	135	138	2465	2464	2459		
100	PI2 BPSK	270	0	2463	2460	2465	26.3	0.0
100	QPSK	1	1	2476	2481	2478		
100	QPSK	1	137	2466	2469	2466	26.3	0.0
100	QPSK	1	271	2466	2467	2460		
100	QPSK	135	0	2438	2443	2443	26.0	0.3
100	QPSK	135	69	2440	2472	2449	26.3	0.6
100	QPSK	135	138	2440	2442	2434		
100	QPSK	270	0	2439	2447	2437	26.0	0.3
100	16QAM	1	1	2438	2436	2432	26.0	0.3
100	16QAM	1	1	2231	2231	2237	24.5	1.8
100	256QAM	1	1	2088	2095	2090	22.5	3.8
Channel								
Frequency (MHz)								
649668 656000 662334								
80	CISK	1	1	2449.02	2444	2453.01		
Channel								
Frequency (MHz)								
649334 656000 662668								
80	QPSK	1	1	2446	2470	2444	23.3	0.0
Channel								
Frequency (MHz)								
649000 656000 663000								
70	QPSK	1	1	2456	2461	2465	26.3	0.0
Channel								
Frequency (MHz)								
648668 656000 663334								
60	QPSK	1	1	2459	2469	2462	26.3	0.0
Channel								
Frequency (MHz)								
648334 656000 663668								
50	QPSK	1	1	2457	2471	2469	26.3	0.0
Channel								
Frequency (MHz)								
648000 656000 664000								
40	QPSK	1	1	2459	2465	2469	26.3	0.0
Channel								
Frequency (MHz)								
647668 656000 664334								
30	QPSK	1	1	2458	2468	2462	26.3	0.0
Channel								
Frequency (MHz)								
647334 656000 664668								
20	QPSK	1	1	2464	2470	2460	26.3	0.0
Channel								
Frequency (MHz)								
647000 656000 664834								
15	QPSK	1	1	2460	2464	2467	26.3	0.0
Channel								
Frequency (MHz)								
647000 656000 665000								
10	QPSK	1	1	2457	2465	2467	26.3	0.0

Part270 n78 Ant 8 DS14

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch./Freq.	Max Ch./Freq.	High Ch./Freq.		
Channel								
Frequency (MHz)								
3750 3750 3750								
100	PI2 BPSK	1	1	2154	2154	2154		
100	PI2 BPSK	1	137	2155	2154	2155	23.3	0.0
100	PI2 BPSK	1	271	2142	2142	2142		
100	PI2 BPSK	135	0	2148	2148	2148	23.3	0.0
100	PI2 BPSK	135	69	2155	2155	2155		
100	PI2 BPSK	135	138	2145	2145	2145	23.3	0.0
100	PI2 BPSK	270	0	2140	2140	2140		
100	QPSK	1	1	2166	2166	2166		
100	QPSK	1	137	2157	2157	2157	23.3	0.0
100	QPSK	1	271	2153	2153	2153		
100	QPSK	135	0	2128	2128	2128	23.0	0.3
100	QPSK	135	69	2163	2163	2163	23.3	0.6
100	QPSK	135	138	2141	2141	2141		
100	QPSK	270	0	2143	2143	2143	23.0	0.3
100	16QAM	1	1	2138	2138	2138	23.0	0.3
100	16QAM	1	1	1936	1936	1936	21.5	1.8
100	256QAM	1	1	1787	1787	1787	19.5	3.8
Channel								
Frequency (MHz)								
649668 656000 660334								
90	CISK	1	1	3745.02	3750	3745.01		
Channel								
Frequency (MHz)								
649334 656000 660668								
80	QPSK	1	1	2144	2156	2140	23.3	0.0
Channel								
Frequency (MHz)								
649000 656000 661000								
70	QPSK	1	1	2146	2154	2151	23.3	0.0
Channel								
Frequency (MHz)								
648668 656000 661334								
60	QPSK	1	1	2147	2154	2149	23.3	0.0
Channel								
Frequency (MHz)								
648334 656000 661668								
50	QPSK	1	1	2151	2153	2143	23.3	0.0
Channel								
Frequency (MHz)								
648000 656000 662000								
40	QPSK	1	1	2145	2153	2153	23.3	0.0
Channel								
Frequency (MHz)								
647668 656000 662334								
30	QPSK	1	1	2149	2152	2146	23.3	0.0
Channel								
Frequency (MHz)								
647334 656000 662668								
20	QPSK	1	1	2142	2162	2151	23.3	0.0
Channel								
Frequency (MHz)								
647000 656000 662834								
15	QPSK	1	1	2143	2160	2145	23.3	0.0
Channel								
Frequency (MHz)								
647000 656000 663000								
10	QPSK	1	1	2145	2161	2142	23.3	0.0



Part270 n78 HPUE Ant 8 DSI4

Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
			Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel			650000	650000	650000		
Frequency (MHz)			3750	3750	3750		
P12 BPSK	1	1		24.48			
P12 BPSK	1	137		24.59		26.3	0.0
P12 BPSK	1	271		24.50			
P12 BPSK	135	0		24.57		26.3	0.0
P12 BPSK	135	69		24.58		26.3	0.0
P12 BPSK	135	138		24.59		26.3	0.0
P12 BPSK	270	0		24.48			
QPSK	1	1		24.77			
QPSK	1	137		24.55		26.3	0.0
QPSK	1	271		24.53			
QPSK	135	0		24.39		26.0	0.3
QPSK	135	69		24.38		26.3	0.0
QPSK	135	138		24.32		26.0	0.3
QPSK	270	0		24.34			
16QAM	1	1		24.22		26.0	0.3
16QAM	1	1		23.98		24.5	1.8
256QAM	1	1		20.94		22.5	3.8
Channel			648668	650000	650334	Tune-up limit	MPR
Frequency (MHz)			3745.02	3750	3755.01	(dBm)	(dB)
QPSK	1	1	24.52	24.61	24.57	26.3	0.0
Channel			649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)			3740.01	3750	3760.02	(dBm)	(dB)
QPSK	1	1	24.51	24.62	24.51	26.3	0.0
Channel			649500	650000	650500	Tune-up limit	MPR
Frequency (MHz)			3735	3750	3765	(dBm)	(dB)
QPSK	1	1	24.51	24.63	24.53	26.3	0.0
Channel			648968	650000	651334	Tune-up limit	MPR
Frequency (MHz)			3730.02	3750	3770.01	(dBm)	(dB)
QPSK	1	1	24.48	24.62	24.48	26.3	0.0
Channel			648334	650000	651668	Tune-up limit	MPR
Frequency (MHz)			3725.01	3750	3775.02	(dBm)	(dB)
QPSK	1	1	24.50	24.57	24.48	26.3	0.0
Channel			648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)			3720	3750	3780	(dBm)	(dB)
QPSK	1	1	24.49	24.62	24.50	26.3	0.0
Channel			647668	650000	652334	Tune-up limit	MPR
Frequency (MHz)			3715.02	3750	3785.01	(dBm)	(dB)
QPSK	1	1	24.50	24.61	24.49	26.3	0.0
Channel			647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)			3710.01	3750	3790.02	(dBm)	(dB)
QPSK	1	1	24.46	24.62	24.48	26.3	0.0
Channel			647168	650000	652834	Tune-up limit	MPR
Frequency (MHz)			3707.69	3750	3923.51	(dBm)	(dB)
QPSK	1	1	24.55	24.67	24.45	26.3	0.0
Channel			647000	650000	653000	Tune-up limit	MPR
Frequency (MHz)			3705	3750	3795	(dBm)	(dB)
QPSK	1	1	24.49	24.57	24.52	26.3	0.0



n38 Ant 10 DSI4								
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)				516004	519000	519996		
40	P2/BPSK	1	1	22.61	22.82	22.73		
40	P2/BPSK	1	53	22.68	22.77	22.70	24.0	0.0
40	P2/BPSK	1	104	22.82	22.68	22.61		
40	P2/BPSK	50	0	22.15	22.24	22.15	23.5	0.5
40	P2/BPSK	50	59	22.58	22.68	22.58	24.0	0.0
40	P2/BPSK	50	56	22.40	22.48	22.33	23.5	0.5
40	P2/BPSK	100	0	22.30	22.41	22.31		
40	QPSK	1	1	22.81	22.91	22.90		
40	QPSK	1	53	22.63	22.75	22.65	24.0	0.0
40	QPSK	1	104	22.70	22.84	22.70		
40	QPSK	50	0	21.81	21.89	21.82	23.0	1.0
40	QPSK	50	28	22.78	22.78	22.69	24.0	0.0
40	QPSK	50	50	21.79	21.86	21.74	23.0	1.0
40	QPSK	100	0	21.69	21.81	21.69		
40	16QAM	1	1	21.80	21.88	21.77	23.0	1.0
40	64QAM	1	1	20.32	20.45	20.29	21.5	2.5
40	256QAM	1	1	18.46	18.52	18.38	19.5	4.5
Channel								
Frequency (MHz)				517002	519000	520998	Tune-up limit (dB)	MPR
30	QPSK	1	1	22.54	22.65	22.63	24.0	0.0
Channel								
Frequency (MHz)				516000	519000	522000	Tune-up limit (dB)	MPR
20	QPSK	1	1	22.51	22.74	22.62	24.0	0.0
Channel								
Frequency (MHz)				515002	519000	522998	Tune-up limit (dB)	MPR
15	QPSK	1	1	22.51	22.72	22.60	24.0	0.0
Channel								
Frequency (MHz)				515004	519000	522996	Tune-up limit (dB)	MPR
10	QPSK	1	1	22.48	22.73	22.59	24.0	0.0

n41 Ant 10 DSI4								
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)				509002	518598	526000		
100	P2/BPSK	1	1	22.81	22.92	22.81		
100	P2/BPSK	1	137	22.74	22.79	22.72	24.0	0.0
100	P2/BPSK	1	271	22.72	22.79	22.72		
100	P2/BPSK	135	0	22.42	22.46	22.27	23.5	0.5
100	P2/BPSK	135	69	22.74	22.81	22.75	24.0	0.0
100	P2/BPSK	135	138	22.46	22.54	22.48	23.5	0.5
100	P2/BPSK	270	0	22.35	22.41	22.34		
100	QPSK	1	1	22.81	22.91	22.88		
100	QPSK	1	137	22.69	22.81	22.75	24.0	0.0
100	QPSK	1	271	22.68	22.83	22.79		
100	QPSK	135	0	21.81	21.95	21.81	23.0	1.0
100	QPSK	135	69	22.78	22.88	22.72	24.0	0.0
100	QPSK	135	138	21.83	21.90	21.79	23.0	1.0
100	QPSK	270	0	21.77	21.84	21.68		
100	16QAM	1	1	21.84	21.90	21.78	23.0	1.0
100	64QAM	1	1	20.40	20.53	20.39	21.5	2.5
100	256QAM	1	1	18.25	18.38	18.33	19.5	4.5
Channel								
Frequency (MHz)				508000	518598	526998	Tune-up limit (dB)	MPR
80	QPSK	1	1	22.61	22.72	22.64	24.0	0.0
Channel								
Frequency (MHz)				507004	518598	526998	Tune-up limit (dB)	MPR
80	QPSK	1	1	22.65	22.75	22.60	24.0	0.0
Channel								
Frequency (MHz)				506002	518598	527000	Tune-up limit (dB)	MPR
70	QPSK	1	1	22.78	22.83	22.75	24.0	0.0
Channel								
Frequency (MHz)				505000	518598	531998	Tune-up limit (dB)	MPR
60	QPSK	1	1	22.62	22.76	22.65	24.0	0.0
Channel								
Frequency (MHz)				504004	518598	532998	Tune-up limit (dB)	MPR
50	QPSK	1	1	22.59	22.77	22.67	24.0	0.0
Channel								
Frequency (MHz)				503002	518598	534000	Tune-up limit (dB)	MPR
40	QPSK	1	1	22.62	22.65	22.61	24.0	0.0
Channel								
Frequency (MHz)				502000	518598	534998	Tune-up limit (dB)	MPR
30	QPSK	1	1	22.66	22.71	22.61	24.0	0.0
Channel								
Frequency (MHz)				501004	518598	535998	Tune-up limit (dB)	MPR
20	QPSK	1	1	22.63	22.68	22.69	24.0	0.0
Channel								
Frequency (MHz)				500700	518598	536498	Tune-up limit (dB)	MPR
15	QPSK	1	1	22.64	22.69	22.70	24.0	0.0
Channel								
Frequency (MHz)				500002	518598	537000	Tune-up limit (dB)	MPR
10	QPSK	1	1	22.63	22.73	22.65	24.0	0.0



n2 Ant 1 DSI4

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)				37000	37600	38000		
				1860	1880	1900		
20	PI2 BPSK	1	1	21.37	21.48	21.41	23.0	0.0
20	PI2 BPSK	1	53	21.34	21.37	21.35		
20	PI2 BPSK	1	104	21.22	21.44	21.28		
20	PI2 BPSK	50	0	20.90	20.99	21.01	22.5	0.5
20	PI2 BPSK	50	28	21.27	21.35	21.36	23.0	0.0
20	PI2 BPSK	50	56	20.79	20.99	20.87	22.5	0.5
20	PI2 BPSK	100	0	20.89	21.04	20.88		
20	QPSK	1	1	21.44	21.49	21.39	23.0	0.0
20	QPSK	1	53	21.34	21.35	21.31		
20	QPSK	1	104	21.27	21.32	21.19		
20	QPSK	50	0	20.38	20.51	20.46	22.0	1.0
20	QPSK	50	28	21.31	21.42	21.26	23.0	0.0
20	QPSK	50	56	20.45	20.45	20.37	22.0	1.0
20	QPSK	100	0	20.43	20.51	20.36		
20	16QAM	1	1	20.42	20.53	20.46	22.0	1.0
20	64QAM	1	1	19.09	19.17	18.04	20.5	2.5
20	256QAM	1	1	17.36	17.46	17.35	18.5	4.5
Channel								
Frequency (MHz)				37100	37600	38000	Tune-up limit (dBm)	MPR (dB)
				1825.5	1880	1925.5		
15	QPSK	1	1	21.33	21.37	21.25	23.0	0.0
Channel								
Frequency (MHz)				37100	37600	381000	Tune-up limit (dB)	MPR (dB)
				1855	1880	1905		
10	QPSK	1	1	21.38	21.41	21.25	23.0	0.0
Channel								
Frequency (MHz)				37250	37600	38150	Tune-up limit (dBm)	MPR (dB)
				1852.5	1880	1907.5		
5	QPSK	1	1	21.30	21.35	21.36	23.0	0.0

Reduced Power Mode for Other PA DSI4

n7 Ant 1 DSI4

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)				50000	50700	51000		
				2520	2535	2550		
40	PI2 BPSK	1	1	21.02	21.04	20.92		
40	PI2 BPSK	1	108	20.90	21.01	20.92	22.5	0.0
40	PI2 BPSK	1	214	20.92	20.93	20.91		
40	PI2 BPSK	108	0	20.38	20.55	20.41	22.0	0.5
40	PI2 BPSK	108	54	20.84	20.93	20.89	22.5	0.0
40	PI2 BPSK	108	108	20.24	20.46	20.32	22.0	0.5
40	PI2 BPSK	216	0	20.36	20.42	20.38		
40	QPSK	1	1	21.02	21.14	21.08		
40	QPSK	1	108	20.98	20.92	20.98	22.5	0.0
40	QPSK	1	214	20.97	21.03	21.00		
40	QPSK	108	0	20.01	20.02	19.93	21.5	1.0
40	QPSK	108	54	21.01	21.07	20.93	22.5	0.0
40	QPSK	108	108	19.83	19.88	19.73	21.5	1.0
40	QPSK	216	0	19.85	19.91	19.86		
40	16QAM	1	1	19.66	19.78	19.72	21.5	1.0
40	64QAM	1	1	18.57	18.54	18.46	20.0	2.5
40	256QAM	1	1	18.46	18.52	18.52	18.0	4.5
Channel								
Frequency (MHz)				50300	50700	51100	Tune-up limit (dBm)	MPR (dB)
				2515	2535	2555		
30	QPSK	1	1	20.89	21.02	21.04	22.5	0.0
Channel								
Frequency (MHz)				50250	50700	51150	Tune-up limit (dBm)	MPR (dB)
				2512.5	2535	2557.5		
25	QPSK	1	1	20.95	21.01	21.05	22.5	0.0
Channel								
Frequency (MHz)				50300	50700	51200	Tune-up limit (dBm)	MPR (dB)
				2510	2535	2550		
20	QPSK	1	1	20.99	21.11	21.01	22.5	0.0
Channel								
Frequency (MHz)				50150	50700	51250	Tune-up limit (dBm)	MPR (dB)
				2507.5	2535	2562.5		
15	QPSK	1	1	20.90	21.02	20.98	22.5	0.0
Channel								
Frequency (MHz)				50100	50700	51300	Tune-up limit (dBm)	MPR (dB)
				2505	2535	2565		
10	QPSK	1	1	20.98	21.04	20.99	22.5	0.0
Channel								
Frequency (MHz)				50250	50700	51350	Tune-up limit (dBm)	MPR (dB)
				2502.5	2535	2567.5		
5	QPSK	1	1	20.91	21.00	20.94	22.5	0.0

n66 Ant 1 DSI4

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)				1730	1745	1760		
40	PI2 BPSK	1	1	22.44	22.46	22.42		
40	PI2 BPSK	1	108	22.24	22.49	22.33	24.0	0.0
40	PI2 BPSK	1	214	22.35	22.41	22.37		
40	PI2 BPSK	108	0	22.14	22.16	22.15	23.5	0.5
40	PI2 BPSK	108	54	22.22	22.41	22.34	24.0	0.0
40	PI2 BPSK	108	108	21.99	22.01	21.96	23.5	0.5
40	PI2 BPSK	216	0	21.89	22.03	21.78		
40	QPSK	1	1	22.44	22.58	22.38		
40	QPSK	1	108	22.27	22.40	22.31	24.0	0.0
40	QPSK	1	214	22.38	22.43	22.26		
40	QPSK	108	0	21.39	21.53	21.48	23.0	1.0
40	QPSK	108	54	22.24	22.36	22.29	24.0	0.0
40	QPSK	108	108	21.49	21.55	21.55	23.0	1.0
40	QPSK	216	0	21.29	21.38	21.30		
40	16QAM	1	1	21.27	21.44	21.26	23.0	1.0
40	64QAM	1	1	19.82	19.90	19.74	21.5	2.5
40	256QAM	1	1	18.40	18.49	18.32	19.5	4.5
Channel								
Frequency (MHz)				34500	34900	35250	Tune-up limit (dBm)	MPR (dB)
				1727.5	1745	1762.5		
35	QPSK	1	1	22.40	22.50	22.27	24.0	0.0
Channel								
Frequency (MHz)				34500	34900	35300	Tune-up limit (dB)	MPR (dB)
				1725	1745	1765		
30	QPSK	1	1	22.31	22.47	22.30	24.0	0.0
Channel								
Frequency (MHz)				34450	34900	35350	Tune-up limit (dBm)	MPR (dB)
				1724.5	1745	1767.5		
25	QPSK	1	1	22.41	22.51	22.31	24.0	0.0
Channel								
Frequency (MHz)				34400	34900	35400	Tune-up limit (dBm)	MPR (dB)
				1720	1745	1770		
20	QPSK	1	1	22.29	22.48	22.24	24.0	0.0
Channel								
Frequency (MHz)				34350	34900	35450	Tune-up limit (dBm)	MPR (dB)
				1717.5	1745	1772.5		
15	QPSK	1	1	22.34	22.54	22.32	24.0	0.0
Channel								
Frequency (MHz)				34300	34900	35500	Tune-up limit (dBm)	MPR (dB)
				1715	1745	1775		
10	QPSK	1	1	22.35	22.45	22.30	24.0	0.0
Channel								
Frequency (MHz)				34250	34900	35550	Tune-up limit (dBm)	MPR (dB)
				1712.5	1745	1777.5		
5	QPSK	1	1	22.31	22.50	22.34	24.0	0.0



n2 Ant 2 DSI4							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel				1860	1880	1900	
Frequency (MHz)				37200	37600	38000	
20	PI/2 BPSK	1	1	21.54	21.61	21.45	
20	PI/2 BPSK	1	53	21.36	21.48	21.35	23.0
20	PI/2 BPSK	1	104	21.39	21.48	21.39	
20	PI/2 BPSK	50	0	20.97	21.13	21.01	22.5
20	PI/2 BPSK	50	28	21.30	21.51	21.48	23.0
20	PI/2 BPSK	50	56	20.88	21.00	21.01	22.5
20	PI/2 BPSK	100	0	20.92	20.94	20.83	0.0
20	QPSK	1	1	21.60	21.67	21.57	
20	QPSK	1	53	21.42	21.44	21.48	23.0
20	QPSK	1	104	21.51	21.54	21.48	
20	QPSK	50	0	20.50	20.57	20.51	22.0
20	QPSK	50	28	21.49	21.50	21.49	23.0
20	QPSK	50	56	20.31	20.55	20.38	22.0
20	QPSK	100	0	20.35	20.57	20.42	22.0
20	16QAM	1	1	20.17	20.20	20.08	22.0
20	16QAM	1	1	18.89	18.94	18.92	20.5
20	256QAM	1	1	17.19	17.27	17.24	18.5
Channel				37150	37600	38050	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	1	21.53	21.59	21.51	23.0
Channel				371000	376000	381000	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	1	21.47	21.55	21.48	23.0
Channel				370500	375000	381500	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	1	21.51	21.58	21.47	23.0

n66 Ant 2 DSI4							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel				34900	34900	35200	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	21.28	21.42	21.33	
40	PI/2 BPSK	1	108	21.30	21.35	21.27	23.0
40	PI/2 BPSK	1	214	21.34	21.38	21.29	
40	PI/2 BPSK	108	0	20.96	20.95	21.00	22.5
40	PI/2 BPSK	108	54	21.27	21.40	21.27	23.0
40	PI/2 BPSK	108	108	20.86	20.91	20.80	22.5
40	PI/2 BPSK	216	0	20.92	20.97	20.85	0.0
40	QPSK	1	1	21.40	21.49	21.39	
40	QPSK	1	108	21.25	21.44	21.39	23.0
40	QPSK	1	214	21.33	21.45	21.42	
40	QPSK	108	0	20.33	20.52	20.31	22.0
40	QPSK	108	54	21.33	21.42	21.28	23.0
40	QPSK	108	108	20.33	20.37	20.34	22.0
40	QPSK	216	0	20.23	20.39	20.29	22.0
40	16QAM	1	1	20.22	20.19	20.11	22.0
40	16QAM	1	1	18.65	18.73	18.64	20.5
40	256QAM	1	1	17.13	17.25	17.16	18.5
Channel				34550	34900	35250	
Frequency (MHz)				1722.5	1745	1762.5	
35	QPSK	1	1	21.31	21.36	21.32	23.0
Channel				345000	349000	353000	
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	21.30	21.42	21.34	23.0
Channel				344500	349000	353500	
Frequency (MHz)				1722.5	1745	1767.5	
25	QPSK	1	1	21.31	21.42	21.31	23.0
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	21.27	21.42	21.34	23.0
Channel				343500	349000	354500	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	21.30	21.40	21.31	23.0
Channel				343000	349000	355000	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	21.35	21.40	21.30	23.0
Channel				342500	349000	355500	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	21.32	21.43	21.24	23.0



Reduced Power Mode for DSI6

n5 Ant 0 DSI6								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Mid Ch. Freq.	High Ch. Freq.		
Channel				164800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	P12 BPSK	1	1	22.62	22.70	22.82		
20	P12 BPSK	1	53	22.54	22.71	22.71	24.0	0.0
20	P12 BPSK	1	104	22.53	22.78	22.72		
20	P12 BPSK	50	0	22.15	22.32	22.24	23.5	0.5
20	P12 BPSK	50	38	22.52	22.71	22.65	24.0	0.0
20	P12 BPSK	50	55	22.11	22.31	22.28	23.5	0.5
20	P12 BPSK	100	0	22.18	22.33	22.29	23.5	0.5
20	QPSK	1	1	22.66	22.66	22.77		
20	QPSK	1	53	22.50	22.64	22.64	24.0	0.0
20	QPSK	1	104	22.53	22.70	22.61		
20	QPSK	50	0	21.83	21.74	21.71	23.0	1.0
20	QPSK	50	28	22.95	22.73	22.63	24.0	0.0
20	QPSK	50	55	21.62	21.81	21.75	23.0	1.0
20	QPSK	100	0	21.70	21.78	21.75		
20	16QAM	1	1	21.71	21.78	21.78	23.0	1.0
20	64QAM	1	1	20.18	20.27	20.28	21.5	2.5
20	256QAM	1	1	18.14	18.34	18.22	19.5	4.5
Channel				165300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.37	22.53	22.44	24.0	0.0
Channel				165800	167300	168800		
Frequency (MHz)				830	836.5	844		
10	QPSK	1	1	22.32	22.53	22.53	24.0	0.0
Channel				165300	167500	169300		
Frequency (MHz)				835.5	835.5	846.5		
5	QPSK	1	1	22.32	22.52	22.49	24.0	0.0

n26 Ant 0 DSI6								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Mid Ch. Freq.	High Ch. Freq.		
Channel				164800	166300	167800		
Frequency (MHz)				824	831.5	839		
20	P12 BPSK	1	1	22.73	22.78	22.89		
20	P12 BPSK	1	53	22.69	22.73	22.67	24.0	0.0
20	P12 BPSK	1	104	22.73	22.82	22.68		
20	P12 BPSK	50	0	22.25	22.37	22.27	23.5	0.5
20	P12 BPSK	50	38	22.67	22.75	22.63	24.0	0.0
20	P12 BPSK	50	55	22.36	22.32	22.24	23.5	0.5
20	P12 BPSK	100	0	22.30	22.39	22.27	23.5	0.5
20	QPSK	1	1	22.86	22.86	22.76		
20	QPSK	1	53	22.72	22.80	22.66	24.0	0.0
20	QPSK	1	104	22.74	22.81	22.70		
20	QPSK	50	0	21.78	21.92	21.79	23.0	1.0
20	QPSK	50	28	22.87	22.71	22.68	24.0	0.0
20	QPSK	50	55	21.79	21.81	21.79	23.0	1.0
20	QPSK	100	0	21.74	21.88	21.75		
20	16QAM	1	1	21.74	21.84	21.76	23.0	1.0
20	64QAM	1	1	20.34	20.39	20.24	21.5	2.5
20	256QAM	1	1	18.30	18.38	18.32	19.5	4.5
Channel				164300	166300	168300		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	22.53	22.51	22.50	24.0	0.0
Channel				163800	166300	168800		
Frequency (MHz)				819	831.5	844		
10	QPSK	1	1	22.51	22.58	22.46	24.0	0.0
Channel				163300	166300	169300		
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	22.46	22.55	22.41	24.0	0.0



n38 Ant 0 DSI6								
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)
				518004	519000	519996		
				20.02	20.05	20.07		
40	PB2 BPSK	1	1	20.03	20.03	20.04	21.3	0.0
40	PB2 BPSK	1	53	20.03	20.07	20.00		
40	PB2 BPSK	1	104	20.03	20.08	20.10		
40	PB2 BPSK	50	0	20.08	20.11	19.99	21.3	0.0
40	PB2 BPSK	50	59	20.02	20.00	20.01	21.3	0.0
40	PB2 BPSK	50	56	20.03	20.05	19.99		
40	PB2 BPSK	100	0	19.97	20.05	19.98	21.3	0.0
40	QPSK	1	1	20.17	20.20	20.18		
40	QPSK	1	53	19.98	20.09	20.08	21.3	0.0
40	QPSK	1	104	20.07	20.02	20.08		
40	QPSK	50	0	19.87	19.90	19.87	21.0	0.3
40	QPSK	50	28	20.17	20.23	20.18	21.3	0.0
40	QPSK	50	56	19.84	19.79	19.80	21.0	0.3
40	QPSK	100	0	19.86	19.99	19.84	21.0	0.3
40	16QAM	1	1	19.75	19.81	19.83	21.0	0.3
40	64QAM	1	1	18.31	18.41	18.43	19.5	1.8
40	256QAM	1	1	16.37	16.41	16.44	17.5	3.8
				517002	518000	520998		
				20.08	20.01	20.04		
30	QPSK	1	1	20.02	19.97	20.02	21.3	0.0
				515000	516000	522000		
				25.60	25.65	26.10		
20	QPSK	1	1	20.02	20.01	20.01	21.3	0.0
				515002	516000	522998		
				29.77	29.95	29.12		
15	QPSK	1	1	19.95	20.05	20.06	21.3	0.0
				515004	516000	522996		
				29.72	29.95	29.14		
10	QPSK	1	1	19.95	19.99	20.09	21.3	0.0

n41 Ant 0 DSI6								
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)
				509002	518998	526000		
				20.04	20.17	20.16		
100	PB2 BPSK	1	1	20.13	20.17	20.16	21.3	0.0
100	PB2 BPSK	1	137	20.15	20.21	20.09		
100	PB2 BPSK	1	271	20.08	20.17	20.15		
100	PB2 BPSK	135	0	20.12	20.14	20.06	21.3	0.0
100	PB2 BPSK	135	69	20.18	20.13	20.07	21.3	0.0
100	PB2 BPSK	135	138	20.15	20.12	20.07		
100	PB2 BPSK	270	0	20.07	20.12	20.05	21.3	0.0
100	QPSK	1	1	20.30	20.25	20.32		
100	QPSK	1	137	20.10	20.16	20.14	21.3	0.0
100	QPSK	1	271	20.16	20.11	20.16		
100	QPSK	135	0	19.81	20.00	19.91	21.0	0.3
100	QPSK	135	69	20.28	20.31	20.26	21.3	0.0
100	QPSK	135	138	19.88	19.92	19.84	21.0	0.3
100	QPSK	270	0	19.93	20.02	19.87	21.0	0.3
100	16QAM	1	1	19.81	19.83	19.80	21.0	0.3
100	64QAM	1	1	18.39	18.50	18.52	19.5	1.8
100	256QAM	1	1	16.46	16.55	16.50	17.5	3.8
				508000	518998	526996		
				20.41	20.52	20.48		
80	QPSK	1	1	20.07	20.11	20.18	21.3	0.0
				507004	518998	525998		
				26.38	26.92	26.99		
80	QPSK	1	1	20.18	20.18	20.12	21.3	0.0
				506002	518998	531000		
				26.31	26.92	26.65		
70	QPSK	1	1	20.13	20.20	20.21	21.3	0.0
				505000	518998	531996		
				25.95	26.92	26.99		
60	QPSK	1	1	20.07	20.22	20.15	21.3	0.0
				504004	518998	532998		
				25.91	26.92	26.84		
50	QPSK	1	1	20.13	20.20	20.10	21.3	0.0
				503002	518998	534000		
				25.16	26.92	26.70		
40	QPSK	1	1	20.05	20.17	20.14	21.3	0.0
				502000	518998	534996		
				25.11	26.92	26.74		
30	QPSK	1	1	20.17	20.17	20.11	21.3	0.0
				501004	518998	535998		
				25.08	26.92	26.79		
20	QPSK	1	1	20.14	20.19	20.11	21.3	0.0
				500700	518998	536496		
				25.03	26.92	26.74		
15	QPSK	1	1	20.09	20.13	20.14	21.3	0.0
				500002	518998	537000		
				25.01	26.92	26.60		
10	QPSK	1	1	20.14	20.13	20.11	21.3	0.0



n2 Ant 1 DSI6										
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				372000	376000	380000				
Frequency (MHz)				1810	1810	1810				
20	P12 BPSK	1	1	19.24	19.29	19.31				
20	P12 BPSK	1	53	19.29	19.31	19.24	20.6	0.0		
20	P12 BPSK	1	104	19.22	19.37	19.27				
20	P12 BPSK	50	0	19.24	19.30	19.33	20.6	0.0		
20	P12 BPSK	50	26	19.21	19.30	19.29	20.6	0.0		
20	P12 BPSK	50	56	19.22	19.33	19.27				
20	P12 BPSK	100	0	19.28	19.29	19.29	20.6	0.0		
20	QPSK	1	1	19.42	19.46	19.43				
20	QPSK	1	53	19.31	19.27	19.30	20.6	0.0		
20	QPSK	1	104	19.24	19.25	19.32				
20	QPSK	50	0	19.28	19.32	19.29	20.6	0.0		
20	QPSK	50	26	19.36	19.44	19.40	20.6	0.0		
20	QPSK	50	56	19.28	19.32	19.26				
20	QPSK	100	0	19.29	19.42	19.36	20.6	0.0		
20	16QAM	1	1	19.28	19.33	19.25	20.6	0.0		
20	16QAM	1	1	19.32	19.34	19.34	20.6	0.0		
20	256QAM	1	1	19.27	19.40	19.32	19.5	1.1		
Channel				371600	376000	380000	Tune-up limit	MPR		
Frequency (MHz)				1817.5	1810	1822.5	(dBm)	(dB)		
15	QPSK	1	1	19.13	19.31	19.25	20.6	0.0		
Channel				371000	376000	381000	Tune-up limit	MPR		
Frequency (MHz)				1865	1860	1805	(dBm)	(dB)		
10	QPSK	1	1	19.22	19.34	19.30	20.6	0.0		
Channel				370200	376000	381600	Tune-up limit	MPR		
Frequency (MHz)				1862.5	1880	1867.5	(dBm)	(dB)		
5	QPSK	1	1	19.31	19.25	19.32	20.6	0.0		

n5 Ant 1 DSI6										
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				166800	167300	167800				
Frequency (MHz)				834	834.5	834				
20	P12 BPSK	1	1	22.41	22.55	22.51				
20	P12 BPSK	1	53	22.35	22.48	22.32	24.0	0.0		
20	P12 BPSK	1	104	22.39	22.51	22.44				
20	P12 BPSK	50	0	22.08	22.13	21.99	23.5	0.5		
20	P12 BPSK	50	26	22.47	22.51	22.44	24.0	0.0		
20	P12 BPSK	50	56	21.97	22.03	21.90				
20	P12 BPSK	100	0	21.96	22.06	21.94	23.5	0.5		
20	QPSK	1	1	22.49	22.26	22.53				
20	QPSK	1	53	22.30	22.40	22.34	24.0	0.0		
20	QPSK	1	104	22.30	22.48	22.37				
20	QPSK	50	0	21.52	21.62	21.49	23.0	1.0		
20	QPSK	50	26	22.30	22.41	22.31	24.0	0.0		
20	QPSK	50	56	21.40	21.51	21.36				
20	QPSK	100	0	21.42	21.55	21.48	23.0	1.0		
20	16QAM	1	1	21.37	21.49	21.34	23.0	1.0		
20	16QAM	1	1	19.89	20.05	19.90	21.5	2.5		
20	256QAM	1	1	18.28	18.39	18.25	19.5	4.5		
Channel				166300	167300	168300	Tune-up limit	MPR		
Frequency (MHz)				831.5	834.5	831.5	(dBm)	(dB)		
15	QPSK	1	1	22.28	22.31	22.19	24.0	0.0		
Channel				165800	167300	168800	Tune-up limit	MPR		
Frequency (MHz)				829	836.5	844	(dBm)	(dB)		
10	QPSK	1	1	22.24	22.39	22.21	24.0	0.0		
Channel				165300	167300	169300	Tune-up limit	MPR		
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)		
5	QPSK	1	1	22.19	22.32	22.29	24.0	0.0		

n7 Ant 1 DSI6										
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				504000	507000	510000				
Frequency (MHz)				2520	2535	2550				
40	P12 BPSK	1	1	18.97	18.99	18.94				
40	P12 BPSK	1	108	18.94	19.01	18.96	20.3	0.0		
40	P12 BPSK	1	214	18.96	18.95	18.96				
40	P12 BPSK	108	0	18.98	19.04	18.99	20.3	0.0		
40	P12 BPSK	108	54	18.97	19.03	18.96	20.3	0.0		
40	P12 BPSK	108	108	18.91	18.94	18.96				
40	P12 BPSK	216	0	18.97	19.04	19.02	20.3	0.0		
40	QPSK	1	1	19.10	19.15	19.11				
40	QPSK	1	108	19.00	19.03	19.02	20.3	0.0		
40	QPSK	1	214	18.93	19.03	18.91				
40	QPSK	108	0	18.91	18.95	18.95	20.3	0.0		
40	QPSK	108	54	19.05	19.09	19.05	20.3	0.0		
40	QPSK	108	108	19.01	18.96	19.02				
40	QPSK	216	0	19.04	19.06	18.99	20.3	0.0		
40	16QAM	1	1	18.94	18.97	18.97	20.3	0.0		
40	16QAM	1	1	18.94	18.99	18.96	20.3	0.0		
40	256QAM	1	1	18.28	18.36	18.30	19.5	0.8		
Channel				503000	507000	511000	Tune-up limit	MPR		
Frequency (MHz)				2515	2535	2555	(dBm)	(dB)		
30	QPSK	1	1	18.92	18.99	18.91	20.3	0.0		
Channel				502500	507000	511500	Tune-up limit	MPR		
Frequency (MHz)				2512.5	2535	2557.5	(dBm)	(dB)		
25	QPSK	1	1	18.95	19.06	18.92	20.3	0.0		
Channel				502000	507000	512000	Tune-up limit	MPR		
Frequency (MHz)				2510	2535	2560	(dBm)	(dB)		
20	QPSK	1	1	18.92	19.06	18.90	20.3	0.0		
Channel				501500	507000	512500	Tune-up limit	MPR		
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)		
15	QPSK	1	1	18.95	19.05	18.91	20.3	0.0		
Channel				501000	507000	513000	Tune-up limit	MPR		
Frequency (MHz)				2505	2535	2565	(dBm)	(dB)		
10	QPSK	1	1	18.92	19.05	18.92	20.3	0.0		
Channel				500500	507000	513500	Tune-up limit	MPR		
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)		
5	QPSK	1	1	18.98	19.05	18.92	20.3	0.0		



n26 Ant 1 DS16							
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	MRR (dB)
				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.	
Channel				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	P12 BPSK	1	1	22.38	22.51	22.45	24.0
20	P12 BPSK	1	53	22.30	22.39	22.26	
20	P12 BPSK	1	104	22.31	22.46	22.37	
20	P12 BPSK	50	0	22.04	22.16	22.11	23.5
20	P12 BPSK	50	26	22.29	22.38	22.32	24.0
20	P12 BPSK	50	56	21.89	22.00	21.88	
20	P12 BPSK	100	0	22.02	22.07	22.00	23.5
20	QPSK	1	1	22.47	22.56	22.49	
20	QPSK	1	53	22.40	22.46	22.38	24.0
20	QPSK	1	104	22.41	22.52	22.40	
20	QPSK	50	0	21.58	21.66	21.51	23.0
20	QPSK	50	26	22.39	22.46	22.42	24.0
20	QPSK	50	56	21.37	21.52	21.36	
20	QPSK	100	0	21.49	21.55	21.46	1.0
20	16QAM	1	1	21.40	21.49	21.34	23.0
20	16QAM	1	1	18.96	20.02	18.97	21.5
20	256QAM	1	1	18.25	18.30	18.17	19.5
Channel				164300	166300	168300	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	1	22.36	22.47	22.39	24.0
Channel				163800	165300	166800	
Frequency (MHz)				818	831.5	844	
10	QPSK	1	1	22.32	22.50	22.37	24.0
Channel				163300	165300	165300	
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	1	22.34	22.46	22.39	24.0

n66 Ant 1 DS16							
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	MRR (dB)
				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.	
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1750	
40	P12 BPSK	1	1	18.38	18.35	18.36	
40	P12 BPSK	1	108	18.32	18.37	18.38	19.9
40	P12 BPSK	1	214	18.41	18.43	18.32	
40	P12 BPSK	108	0	18.36	18.38	18.40	19.9
40	P12 BPSK	108	54	18.34	18.44	18.33	19.9
40	P12 BPSK	108	108	18.42	18.45	18.39	
40	P12 BPSK	216	0	18.32	18.39	18.36	19.9
40	QPSK	1	1	18.85	18.80	18.87	
40	QPSK	1	108	18.33	18.41	18.39	19.9
40	QPSK	1	214	18.33	18.36	18.38	
40	QPSK	108	0	18.32	18.46	18.32	19.9
40	QPSK	108	54	18.52	18.56	18.50	19.9
40	QPSK	108	108	18.36	18.38	18.40	
40	QPSK	216	0	18.44	18.53	18.36	19.9
40	16QAM	1	1	18.35	18.39	18.35	19.9
40	16QAM	1	1	18.30	18.39	18.34	19.9
40	256QAM	1	1	18.07	18.14	18.04	19.5
Channel				345500	349000	352500	
Frequency (MHz)				1727.5	1745	1762.5	
35	QPSK	1	1	18.43	18.47	18.38	19.9
Channel				345000	349000	353000	
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	18.38	18.46	18.29	19.9
Channel				344500	349000	353500	
Frequency (MHz)				1722.5	1745	1767.5	
25	QPSK	1	1	18.32	18.43	18.36	19.9
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	18.37	18.39	18.37	19.9
Channel				343500	349000	354500	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	18.34	18.38	18.40	19.9
Channel				343000	349000	355000	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	18.42	18.45	18.38	19.9
Channel				342500	349000	355500	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	18.31	18.46	18.31	19.9



n38 Ant 1 DSI6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel							
Frequency (MHz)				2930.02	2930	2930.98	
40	PI2 BPSK	1	1	18.74	18.75	18.73	0.0
40	PI2 BPSK	1	53	18.73	18.83	18.86	20.6
40	PI2 BPSK	1	104	18.81	18.84	18.77	
40	PI2 BPSK	50	0	18.70	18.83	18.75	20.6
40	PI2 BPSK	50	29	18.76	18.80	18.74	20.6
40	PI2 BPSK	50	55	18.70	18.77	18.87	20.6
40	PI2 BPSK	100	0	18.80	18.80	18.85	0.0
40	QPSK	1	1	18.86	18.99	18.84	
40	QPSK	1	53	18.74	18.72	18.69	20.6
40	QPSK	1	104	18.71	18.70	18.83	
40	QPSK	50	0	18.87	18.85	18.74	20.6
40	QPSK	50	28	18.77	18.92	18.86	20.6
40	QPSK	50	55	18.81	18.80	18.83	
40	QPSK	100	0	18.80	18.83	18.73	20.6
40	16QAM	1	1	18.74	18.75	18.89	20.6
40	16QAM	1	1	18.38	18.37	18.30	0.0
40	256QAM	1	1	18.24	18.30	18.34	18.0
Channel							
Frequency (MHz)				517002	516990	520998	MPR (dB)
30	QPSK	1	1	18.73	18.81	18.73	20.6
Channel							
Frequency (MHz)				516990	519000	522000	MPR (dB)
20	QPSK	1	1	2580	2595	2610	20.6
Channel							
Frequency (MHz)				2977.51	2959	2812.49	MPR (dB)
15	QPSK	1	1	18.75	18.87	18.79	20.6
Channel							
Frequency (MHz)				515502	515500	522996	MPR (dB)
10	QPSK	1	1	18.69	18.81	18.70	20.6

n41 Ant 1 DSI6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel							
Frequency (MHz)				509002	518598	526000	
100	PI2 BPSK	1	1	18.83	18.83	18.86	
100	PI2 BPSK	1	137	18.80	18.87	18.89	20.6
100	PI2 BPSK	1	271	18.84	18.95	18.90	
100	PI2 BPSK	135	0	18.76	18.90	18.87	20.6
100	PI2 BPSK	135	69	18.88	18.89	18.83	20.6
100	PI2 BPSK	135	138	18.78	18.86	18.92	20.6
100	PI2 BPSK	270	0	18.89	18.95	18.89	0.0
100	QPSK	1	1	18.86	18.99	19.01	
100	QPSK	1	137	18.81	18.85	18.82	20.6
100	QPSK	1	271	18.86	18.84	18.88	
100	QPSK	135	0	18.78	18.93	18.85	20.6
100	QPSK	135	69	18.87	18.86	18.80	20.6
100	QPSK	135	138	18.88	18.85	18.92	20.6
100	QPSK	270	0	18.85	18.92	18.87	20.6
100	16QAM	1	1	18.78	18.90	18.92	20.6
100	16QAM	1	1	18.38	18.46	18.40	20.6
100	256QAM	1	1	18.35	18.40	18.40	18.0
Channel							
Frequency (MHz)				508000	518598	526996	MPR (dB)
80	QPSK	1	1	2341	2392.89	2444.98	MPR (dB)
Channel							
Frequency (MHz)				507204	518598	526996	MPR (dB)
80	QPSK	1	1	2638.02	2692.99	2649.99	MPR (dB)
Channel							
Frequency (MHz)				2631.01	2592.99	2655	MPR (dB)
70	QPSK	1	1	18.87	18.93	18.86	20.6
Channel							
Frequency (MHz)				509000	518598	531996	MPR (dB)
60	QPSK	1	1	18.89	18.96	18.84	20.6
Channel							
Frequency (MHz)				504204	518598	532996	MPR (dB)
50	QPSK	1	1	2321.02	2392.99	2464.99	MPR (dB)
Channel							
Frequency (MHz)				2325	2392.99	2459.98	MPR (dB)
40	QPSK	1	1	18.82	18.85	18.82	20.6
Channel							
Frequency (MHz)				503002	518598	534000	MPR (dB)
40	QPSK	1	1	2518.01	2592.99	2670	MPR (dB)
Channel							
Frequency (MHz)				502200	518598	534996	MPR (dB)
30	QPSK	1	1	2511	2592.99	2674.98	MPR (dB)
Channel							
Frequency (MHz)				18.82	18.87	18.80	20.6
Channel							
Frequency (MHz)				532504	518598	539996	MPR (dB)
20	QPSK	1	1	2508.02	2592.99	2679.99	MPR (dB)
Channel							
Frequency (MHz)				500700	518598	536496	MPR (dB)
15	QPSK	1	1	2602.99	2692.99	2682.48	MPR (dB)
Channel							
Frequency (MHz)				500202	518598	537000	MPR (dB)
10	QPSK	1	1	2531.01	2592.99	2685	MPR (dB)
Channel							
Frequency (MHz)				18.84	18.93	18.84	20.6



n2 Ant 2 DSI6								
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								
				372000	376000	380000		
Frequency (MHz)								
20	PV2 BPSK	1	1	2153	2153	2152		
20	PV2 BPSK	1	53	2153	2161	2146	23.1	0.0
20	PV2 BPSK	1	104	2158	2155	2151		
20	PV2 BPSK	50	0	2148	2155	2145	23.1	0.0
20	PV2 BPSK	50	28	2146	2158	2153	23.1	0.0
20	PV2 BPSK	50	56	2153	2153	2154		
20	PV2 BPSK	100	0	2149	2152	2151	23.1	0.0
20	QPSK	1	1	2187	2170	2185		
20	QPSK	1	53	2152	2153	2155	23.1	0.0
20	QPSK	1	104	2147	2156	2151		
20	QPSK	50	0	2147	2144	2136	23.0	0.1
20	QPSK	50	28	2153	2187	2183	23.1	0.0
20	QPSK	50	56	2140	2137	2135	23.0	0.1
20	QPSK	100	0	2147	2148	2142	23.0	0.1
20	16QAM	1	1	2137	2148	2138	23.0	0.1
20	16QAM	1	1	2056	2056	2056	21.5	1.6
20	256QAM	1	1	1805	1812	1803	19.5	3.6
Channel								
				371500	376000	380500	Tune-up limit	MPR
Frequency (MHz)								
15	QPSK	1	1	2153	2153	2155	23.1	0.0
Channel								
				371000	376000	381000	Tune-up limit	MPR
Frequency (MHz)								
10	QPSK	1	1	2146	2158	2146	23.1	0.0
Channel								
				1862.5	1880	1867.5	Tune-up limit	MPR
Frequency (MHz)								
5	QPSK	1	1	2153	2160	2155	23.1	0.0

n7 Ant 2 DSI6								
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								
				504000	507000	510000		
Frequency (MHz)								
40	PV2 BPSK	1	1	2079	2079	2073		
40	PV2 BPSK	1	108	2083	2091	2088	22.2	0.0
40	PV2 BPSK	1	214	2084	2092	2085		
40	PV2 BPSK	108	0	2089	2095	2090	22.2	0.0
40	PV2 BPSK	108	54	2090	2087	2086	22.2	0.0
40	PV2 BPSK	108	108	2080	2094	2092		
40	PV2 BPSK	216	0	2083	2096	2092	22.2	0.0
40	QPSK	1	1	2100	2106	2103		
40	QPSK	1	108	2092	2091	2092	22.2	0.0
40	QPSK	1	214	2087	2089	2084		
40	QPSK	108	0	2084	2086	2091	22.2	0.0
40	QPSK	108	54	2093	2101	2093	22.2	0.0
40	QPSK	108	108	2084	2090	2086	22.2	0.0
40	QPSK	216	0	2092	2095	2094	22.2	0.0
40	16QAM	1	1	2083	2092	2093	22.2	0.0
40	16QAM	1	1	2025	2036	2039	21.5	0.7
40	256QAM	1	1	1829	1840	1832	19.5	2.7
Channel								
				503500	507000	511000	Tune-up limit	MPR
Frequency (MHz)								
30	QPSK	1	1	2076	2073	2075	22.2	0.0
Channel								
				502500	507000	511000	Tune-up limit	MPR
Frequency (MHz)								
25	QPSK	1	1	2071	2091	2088	22.2	0.0
Channel								
				502000	507000	510000	Tune-up limit	MPR
Frequency (MHz)								
20	QPSK	1	1	2086	2088	2085	22.2	0.0
Channel								
				501500	507000	510000	Tune-up limit	MPR
Frequency (MHz)								
15	QPSK	1	1	2085	2089	2086	22.2	0.0
Channel								
				501000	507000	510000	Tune-up limit	MPR
Frequency (MHz)								
10	QPSK	1	1	2083	2095	2090	22.2	0.0
Channel								
				500500	507000	510000	Tune-up limit	MPR
Frequency (MHz)								
5	QPSK	1	1	2084	2090	2094	22.2	0.0

n66 Ant 2 DSI6								
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								
				345000	349000	353000		
Frequency (MHz)								
40	PV2 BPSK	1	1	2191	2188	2183		
40	PV2 BPSK	1	108	2189	2188	2194	23.3	0.0
40	PV2 BPSK	1	214	2191	2187	2188		
40	PV2 BPSK	108	0	2188	2195	2193	23.3	0.0
40	PV2 BPSK	108	54	2189	2185	2185	23.3	0.0
40	PV2 BPSK	108	108	2186	2192	2193		
40	PV2 BPSK	216	0	2191	2190	2183	23.3	0.0
40	QPSK	1	1	2205	2210	2207		
40	QPSK	1	108	2180	2192	2185	23.3	0.0
40	QPSK	1	214	2179	2186	2186		
40	QPSK	108	0	2180	2179	2181	23.0	0.3
40	QPSK	108	54	2200	2205	2203	23.3	0.0
40	QPSK	108	108	2170	2178	2175	23.0	0.3
40	QPSK	216	0	2171	2183	2176	23.0	0.3
40	16QAM	1	1	2174	2176	2180	23.0	0.3
40	16QAM	1	1	2021	2036	2028	21.5	1.6
40	256QAM	1	1	1827	1827	1831	19.5	3.8
Channel								
				345000	349000	353500	Tune-up limit	MPR
Frequency (MHz)								
35	QPSK	1	1	2181	2191	2192	23.3	0.0
Channel								
				345000	349000	353000	Tune-up limit	MPR
Frequency (MHz)								
30	QPSK	1	1	2192	2185	2185	23.3	0.0
Channel								
				345000	349000	353500	Tune-up limit	MPR
Frequency (MHz)								
25	QPSK	1	1	2180	2197	2183	23.3	0.0
Channel								
				345000	349000	354000	Tune-up limit	MPR
Frequency (MHz)								
20	QPSK	1	1	2181	2189	2192	23.3	0.0
Channel								
				345000	349000	354500	Tune-up limit	MPR
Frequency (MHz)								
15	QPSK	1	1	2182	2196	2185	23.3	0.0
Channel								
				345000	349000	355000	Tune-up limit	MPR
Frequency (MHz)								
10	QPSK	1	1	2188	2188	2184	23.3	0.0
Channel								
				345000	349000	355500	Tune-up limit	MPR
Frequency (MHz)								
5	QPSK	1	1	2186	2188	2182	23.3	0.0



n38 Ant 2 DSI6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel							
Frequency (MHz)							
40	PSSBPSK	1	1	19.29	19.29	19.29	
40	PSSBPSK	1	53	19.25	19.33	19.18	20.8
40	PSSBPSK	1	104	19.22	19.32	19.19	
40	PSSBPSK	50	0	19.30	19.26	19.27	20.8
40	PSSBPSK	50	29	19.27	19.31	19.19	20.8
40	PSSBPSK	50	56	19.25	19.32	19.21	
40	PSSBPSK	100	0	19.22	19.31	19.28	20.8
40	QPSK	1	1	19.40	19.48	19.29	
40	QPSK	1	53	19.28	19.34	19.31	20.8
40	QPSK	1	104	19.23	19.23	19.14	
40	QPSK	50	0	19.21	19.24	19.19	20.8
40	QPSK	50	28	19.38	19.37	19.32	20.8
40	QPSK	50	56	19.24	19.26	19.30	
40	QPSK	100	0	19.28	19.32	19.22	20.8
40	16QAM	1	1	19.32	19.26	19.23	20.8
40	16QAM	1	1	19.32	19.27	19.29	20.8
40	256QAM	1	1	18.11	18.09	18.07	19.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	20.81	20.90	20.99	20.8
Channel							
Frequency (MHz)							
20	QPSK	1	1	19.38	19.31	19.25	20.8
Channel							
Frequency (MHz)							
15	QPSK	1	1	19.30	19.41	19.32	20.8
Channel							
Frequency (MHz)							
10	QPSK	1	1	19.37	19.38	19.25	20.8

n41 Ant 2 DSI6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	PSSBPSK	1	1	19.33	19.33	19.30	
100	PSSBPSK	1	137	19.37	19.36	19.29	20.8
100	PSSBPSK	1	271	19.33	19.36	19.30	
100	PSSBPSK	135	0	19.36	19.25	19.25	20.8
100	PSSBPSK	135	69	19.29	19.29	19.20	20.8
100	PSSBPSK	135	138	19.35	19.40	19.24	
100	PSSBPSK	270	0	19.32	19.40	19.31	20.8
100	QPSK	1	1	19.49	19.54	19.52	
100	QPSK	1	137	19.38	19.36	19.35	20.8
100	QPSK	1	271	19.38	19.32	19.27	
100	QPSK	135	0	19.28	19.36	19.32	20.8
100	QPSK	135	69	19.48	19.40	19.44	20.8
100	QPSK	135	138	19.32	19.33	19.32	
100	QPSK	270	0	19.39	19.47	19.35	20.8
100	16QAM	1	1	19.35	19.33	19.32	20.8
100	16QAM	1	1	19.37	19.34	19.35	20.8
100	256QAM	1	1	18.19	18.20	18.19	19.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.41	23.52	23.44	20.8
Channel							
Frequency (MHz)							
80	QPSK	1	1	19.30	19.37	19.32	20.8
Channel							
Frequency (MHz)							
70	QPSK	1	1	19.33	19.40	19.36	20.8
Channel							
Frequency (MHz)							
60	QPSK	1	1	19.30	19.33	19.35	20.8
Channel							
Frequency (MHz)							
50	QPSK	1	1	19.34	19.30	19.31	20.8
Channel							
Frequency (MHz)							
40	QPSK	1	1	19.30	19.30	19.24	20.8
Channel							
Frequency (MHz)							
30	QPSK	1	1	19.31	19.33	19.34	20.8
Channel							
Frequency (MHz)							
20	QPSK	1	1	19.30	19.35	19.28	20.8
Channel							
Frequency (MHz)							
15	QPSK	1	1	19.27	19.30	19.31	20.8
Channel							
Frequency (MHz)							
10	QPSK	1	1	19.32	19.30	19.25	20.8



Part270 n77 Ant 4 DSI6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mid Ch. / Freq	Power High Ch. / Freq	MPR
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	22.44	22.45	22.43	
100	PI2 BPSK	1	137	22.42	22.48	22.49	24.0
100	PI2 BPSK	1	271	22.43	22.51	22.49	
100	PI2 BPSK	135	0	21.97	22.05	21.97	23.5
100	PI2 BPSK	135	69	22.38	22.50	22.43	24.0
100	PI2 BPSK	135	138	21.98	22.10	22.09	
100	PI2 BPSK	270	0	22.96	22.96	22.08	23.5
100	QPSK	1	1	22.40	22.39	22.53	
100	QPSK	1	137	22.43	22.20	22.46	24.0
100	QPSK	1	271	22.38	22.58	22.42	
100	QPSK	135	0	21.90	21.54	21.87	23.0
100	QPSK	135	69	22.38	22.48	22.43	24.0
100	QPSK	135	138	21.54	21.54	21.55	
100	QPSK	270	0	21.54	21.58	21.53	23.0
100	16QAM	1	1	21.83	21.86	21.81	23.0
100	64QAM	1	1	20.02	20.04	20.03	21.5
100	256QAM	1	1	18.03	18.12	18.09	19.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	22.37	22.43	22.33	24.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	22.33	22.42	22.37	24.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	22.38	22.48	22.37	24.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	22.43	22.43	22.38	24.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	22.42	22.53	22.42	24.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	22.35	22.45	22.41	24.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	22.38	22.44	22.45	24.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	22.35	22.48	22.42	24.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	22.35	22.52	22.44	24.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	22.35	22.50	22.37	24.0

Part270 n77 HPUE Ant 4 DSI6							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mid Ch. / Freq	Power High Ch. / Freq	MPR
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	25.27	25.34	25.24	
100	PI2 BPSK	1	137	25.20	25.27	25.07	27.0
100	PI2 BPSK	1	271	25.22	25.22	25.18	
100	PI2 BPSK	135	0	24.91	24.99	24.91	26.5
100	PI2 BPSK	135	69	25.28	25.31	25.25	27.0
100	PI2 BPSK	135	138	24.88	24.98	24.88	
100	PI2 BPSK	270	0	24.89	24.96	24.90	26.5
100	QPSK	1	1	25.40	25.44	25.26	
100	QPSK	1	137	25.38	25.35	25.21	27.0
100	QPSK	1	271	25.35	25.35	25.32	
100	QPSK	135	0	24.45	24.38	24.36	26.0
100	QPSK	135	69	25.33	25.38	25.20	27.0
100	QPSK	135	138	24.43	24.42	24.40	
100	QPSK	270	0	24.40	24.48	24.28	26.0
100	16QAM	1	1	24.39	24.46	24.30	26.0
100	64QAM	1	1	22.93	22.94	22.82	24.5
100	256QAM	1	1	20.92	20.92	20.83	22.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	25.33	25.40	25.29	27.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	25.26	25.41	25.22	27.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	25.27	25.32	25.31	27.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	25.28	25.39	25.25	27.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	25.31	25.32	25.21	27.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	25.30	25.30	25.20	27.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	25.27	25.36	25.25	27.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	25.31	25.37	25.26	27.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	25.33	25.33	25.32	27.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	25.32	25.35	25.23	27.0



Part270 n78 Ant 4 DS16									
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			
100	P12 BPSK	1	137	2244	2237		24.0	0.0	
100	P12 BPSK	1	271		2241				
100	P12 BPSK	135	0	2201		23.5	0.5		
100	P12 BPSK	135	69	2242		24.0	0.0		
100	P12 BPSK	135	138		2196		23.5	0.5	
100	P12 BPSK	270	0		2196				
100	QPSK	1	1	2247					
100	QPSK	1	137	2235			24.0	0.0	
100	QPSK	1	271		2244				
100	QPSK	135	0	2140		23.0	1.0		
100	QPSK	135	69		2232		24.0	0.0	
100	QPSK	135	138		2141		23.0	1.0	
100	QPSK	270	0		2150				
100	HQAM	1	1	2146		23.0	1.0		
100	HQAM	1	1		1952		21.5	2.5	
100	25GQAM	1	1		1805		19.5	4.5	
Channel									
Frequency (MHz)									
80	QPSK	1	1	64966	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
90	QPSK	1	1	2229	2239	2230	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3740.01	3750	3760.02	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	2226	2239	2226	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	64866	65000	65134	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3730.02	3750	3750.01	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	64768	65000	65234	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	2232	2240	2235	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	3710.01	3750	3780.02	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	647188	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3705	3750	3795	Tune-up limit (dBm)	MPR (dB)	

Part270 n78 HPUE Ant 4 DS16									
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			
100	P12 BPSK	1	137		2524				
100	P12 BPSK	1	271		2510				
100	P12 BPSK	135	0	2495		26.5	0.5		
100	P12 BPSK	135	69		2523		27.0	0.0	
100	P12 BPSK	135	138		2485		26.5	0.5	
100	P12 BPSK	270	0		2492				
100	QPSK	1	1	2540					
100	QPSK	1	137		2529		27.0	0.0	
100	QPSK	1	271		2523				
100	QPSK	135	0	2423		26.0	1.0		
100	QPSK	135	69		2533		27.0	0.0	
100	QPSK	135	138		2437		26.0	1.0	
100	QPSK	270	0		2446				
100	HQAM	1	1	2441		26.0	1.0		
100	HQAM	1	1		2280		24.5	2.5	
100	25GQAM	1	1		2078		22.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	2527	2539	2526	27.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3740.01	3750	3760.02	27.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	2522	2535	2525	27.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	2522	2537	2524	27.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	64834	65000	65168	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3720.02	3750	3780.02	27.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	2527	2529	2522	27.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	3710.01	3750	3790.02	27.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	2520	2531	2524	27.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	2515	2532	2516	27.0	0.0	



Part270 n77 Ant 5 DSI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power High Ch./Freq	Power Typ Ch./Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P2/BPSK	1	1	18.19	18.24	18.15			
100	P2/BPSK	1	137	18.10	18.15	18.16	19.4	0.0	
100	P2/BPSK	1	271	18.19	18.15	18.17			
100	P2/BPSK	135	0	18.15	18.15	18.12	19.4	0.0	
100	P2/BPSK	135	69	18.16	18.14	18.19	19.4	0.0	
100	P2/BPSK	135	138	18.21	18.22	18.14			
100	P2/BPSK	270	0	18.13	18.18	18.12	19.4	0.0	
100	QPSK	1	1	18.20	18.15	18.22			
100	QPSK	1	137	18.13	18.12	18.15	19.4	0.0	
100	QPSK	1	271	18.13	18.24	18.16			
100	QPSK	135	0	18.09	18.24	18.19	19.4	0.0	
100	QPSK	135	69	18.24	18.21	18.29	19.4	0.0	
100	QPSK	135	138	18.16	18.20	18.18			
100	QPSK	270	0	18.19	18.26	18.25	19.4	0.0	
100	16QAM	1	1	18.20	18.18	18.16	19.4	0.0	
100	64QAM	1	1	18.11	18.25	18.12	19.4	0.0	
100	256QAM	1	1	18.13	18.16	18.21	19.4	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.12	18.24	18.21	19.4	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.11	18.24	18.19	19.4	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.16	18.23	18.13	19.4	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.13	18.18	18.17	19.4	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.12	18.17	18.16	19.4	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.20	18.21	18.22	19.4	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.13	18.23	18.19	19.4	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.14	18.26	18.22	19.4	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.18	18.20	18.16	19.4	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	0	18.12	18.23	18.15	19.4	0.0	

Part270 n77 HPUE Ant 5 DSI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power High Ch./Freq	Power Typ Ch./Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P2/BPSK	1	1	21.12	21.13	21.13			
100	P2/BPSK	1	137	21.19	21.22	21.12	22.4	0.0	
100	P2/BPSK	1	271	21.09	21.20	21.17			
100	P2/BPSK	135	0	21.17	21.12	21.09	22.4	0.0	
100	P2/BPSK	135	69	21.14	21.15	21.16	22.4	0.0	
100	P2/BPSK	135	138	21.16	21.12	21.12			
100	P2/BPSK	270	0	21.11	21.13	21.18	22.4	0.0	
100	QPSK	1	1	21.20	21.22	21.28			
100	QPSK	1	137	21.16	21.21	21.17	22.4	0.0	
100	QPSK	1	271	21.17	21.12	21.10			
100	QPSK	135	0	21.14	21.22	21.18	22.4	0.0	
100	QPSK	135	69	21.17	21.28	21.16	22.4	0.0	
100	QPSK	135	138	21.10	21.21	21.16			
100	QPSK	270	0	21.17	21.24	21.23	22.4	0.0	
100	16QAM	1	1	21.20	21.22	21.09	22.4	0.0	
100	64QAM	1	1	21.09	21.19	21.13	22.4	0.0	
100	256QAM	1	1	21.13	21.21	21.13	22.4	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.15	21.13	21.15	22.4	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.09	21.10	21.14	22.4	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.16	21.13	21.16	22.4	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.14	21.12	21.17	22.4	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	21.17	21.19	21.10	22.4	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.12	21.17	21.11	22.4	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.11	21.20	21.11	22.4	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.14	21.21	21.17	22.4	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.15	21.22	21.09	22.4	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	0	21.21	21.11	21.14	22.4	0.0	



Part270 n78 Ant 5 DS16

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)				3750	3750	3750		
100	P12 BPSK	1	1	18.15	18.15	18.15		
100	P12 BPSK	1	137	18.06	18.06	18.06	19.4	0.0
100	P12 BPSK	1	271	18.00	18.00	18.00		
100	P12 BPSK	135	0	18.10	18.10	18.10	19.4	0.0
100	P12 BPSK	135	69	18.01	18.01	18.01	19.4	0.0
100	P12 BPSK	135	138	18.17	18.17	18.17		
100	P12 BPSK	270	0	18.05	18.05	18.05	19.4	0.0
100	QPSK	1	1	18.21	18.21	18.21		
100	QPSK	1	137	18.08	18.08	18.08	19.4	0.0
100	QPSK	1	271	18.14	18.14	18.14		
100	QPSK	135	0	18.12	18.12	18.12	19.4	0.0
100	QPSK	135	69	18.26	18.26	18.26	19.4	0.0
100	QPSK	135	138	18.06	18.06	18.06		
100	QPSK	270	0	18.17	18.17	18.17	19.4	0.0
100	16QAM	1	1	18.11	18.11	18.11	19.4	0.0
100	16QAM	1	1	18.17	18.17	18.17	19.4	0.0
100	256QAM	1	1	18.09	18.09	18.09	19.4	0.0
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3742.02	3750	3763.01		
90	QPSK	1	1	17.29	18.15	18.15	19.4	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	18.08	18.14	18.13	19.4	0.0
Channel								
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	18.06	18.10	18.13	19.4	0.0
Channel								
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3730.02		
60	QPSK	1	1	18.00	18.13	18.09	19.4	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3725.01		
50	QPSK	1	1	18.05	18.17	18.14	19.4	0.0
Channel								
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	18.09	18.12	18.12	19.4	0.0
Channel								
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	17.98	18.11	18.11	19.4	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3780.02		
20	QPSK	1	1	18.04	18.13	18.15	19.4	0.0
Channel								
Frequency (MHz)				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705.02	3750	3783.01		
15	QPSK	1	1	18.04	18.10	18.10	19.4	0.0
Channel								
Frequency (MHz)				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	18.04	18.11	18.11	19.4	0.0

Part270 n78 HPUE Ant 5 DS16

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)				3750	3750	3750		
100	P12 BPSK	1	1	21.11	21.11	21.11		
100	P12 BPSK	1	137	21.16	21.16	21.16	22.4	0.0
100	P12 BPSK	1	271	21.05	21.05	21.05		
100	P12 BPSK	135	0	21.04	21.04	21.04	22.4	0.0
100	P12 BPSK	135	69	21.01	21.01	21.01	22.4	0.0
100	P12 BPSK	135	138	21.07	21.07	21.07		
100	P12 BPSK	270	0	21.01	21.01	21.01	22.4	0.0
100	QPSK	1	1	21.28	21.28	21.28		
100	QPSK	1	137	21.07	21.07	21.07	22.4	0.0
100	QPSK	1	271	21.06	21.06	21.06		
100	QPSK	135	0	21.18	21.18	21.18	22.4	0.0
100	QPSK	135	69	21.22	21.22	21.22	22.4	0.0
100	QPSK	135	138	21.09	21.09	21.09		
100	QPSK	270	0	21.20	21.20	21.20	22.4	0.0
100	16QAM	1	1	21.08	21.08	21.08	22.4	0.0
100	16QAM	1	1	21.15	21.15	21.15	22.4	0.0
100	256QAM	1	1	21.13	21.13	21.13	22.4	0.0
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3742.02	3750	3763.01		
90	QPSK	1	1	21.14	21.03	21.12	22.4	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	21.13	21.09	21.01	22.4	0.0
Channel								
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	21.08	21.00	21.10	22.4	0.0
Channel								
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3730.02		
60	QPSK	1	1	21.14	21.06	21.05	22.4	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3725.01		
50	QPSK	1	1	21.05	21.08	21.02	22.4	0.0
Channel								
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	21.11	21.00	21.12	22.4	0.0
Channel								
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	21.14	21.04	21.00	22.4	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3780.02		
20	QPSK	1	1	21.15	21.04	21.11	22.4	0.0
Channel								
Frequency (MHz)				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705.02	3750	3783.01		
15	QPSK	1	1	21.12	21.00	21.04	22.4	0.0
Channel								
Frequency (MHz)				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	21.04	21.01	21.09	22.4	0.0



Part270 n77 Ant 7 DS16

Channel	Power Low Ch. / Freq.	Power Main Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel								
Frequency (MHz)								
100	3705	3640	3705					
Pi/2 BPSK								
100	17.08	18.01	17.99					
100	137	18.01	18.11	18.04	19.5			
100	271	17.07	18.08	18.08				
Pi/2 BPSK								
100	135	0	18.03	18.11	18.03	19.5	0.0	
100	135	69	18.05	18.08	18.03	19.5	0.0	
Pi/2 BPSK								
100	135	138	18.00	18.04	17.99			
100	270	0	18.03	18.03	17.99		19.5	0.0
QPSK								
100	1	1	18.15	18.20	18.16			
100	1	137	18.02	18.04	18.01	19.5	0.0	
QPSK								
100	1	271	18.04	18.09	18.08			
100	135	0	17.98	18.00	18.01	19.5	0.0	
100	138	69	18.05	18.11	18.06	19.5	0.0	
100	135	138	18.05	18.04	17.99			
100	270	0	18.07	18.10	18.09		19.5	0.0
16QAM								
100	1	1	18.08	18.00	18.03	19.5	0.0	
100	1	1	18.05	18.02	18.06	19.5	0.0	
100	256QAM	1	1	18.01	18.02	18.04	19.5	0.0
Channel								
Frequency (MHz)								
80	648668	656000	662334	Tune-up limit (dBm)	MPR (dB)			
80	3740.02	3840	3745.01					
QPSK								
80	18.03	18.08	18.01	19.5	0.0			
Channel								
Frequency (MHz)								
80	648334	656000	662668	Tune-up limit (dBm)	MPR (dB)			
80	3740.01	3840	3740.02					
QPSK								
80	17.08	18.01	18.09	19.5	0.0			
Channel								
Frequency (MHz)								
70	648668	656000	662334	Tune-up limit (dBm)	MPR (dB)			
70	3735	3840	3845					
QPSK								
70	18.04	18.09	18.08	19.5	0.0			
Channel								
Frequency (MHz)								
60	648668	656000	662334	Tune-up limit (dBm)	MPR (dB)			
60	3730.02	3840	3730.01					
QPSK								
60	18.05	18.02	17.99	19.5	0.0			
Channel								
Frequency (MHz)								
50	648334	656000	662668	Tune-up limit (dBm)	MPR (dB)			
50	3742.01	3840	3742.02					
QPSK								
50	18.04	18.09	18.07	19.5	0.0			
Channel								
Frequency (MHz)								
40	648000	656000	664000	Tune-up limit (dBm)	MPR (dB)			
40	3720	3840	3860					
QPSK								
40	18.03	17.99	17.99	19.5	0.0			
Channel								
Frequency (MHz)								
30	647668	656000	664334	Tune-up limit (dBm)	MPR (dB)			
30	3718.02	3840	3718.01					
QPSK								
30	18.01	18.01	17.99	19.5	0.0			
Channel								
Frequency (MHz)								
20	647168	656000	664834	Tune-up limit (dBm)	MPR (dB)			
20	3710.01	3840	3710.02					
QPSK								
20	17.97	18.07	18.08	19.5	0.0			
Channel								
Frequency (MHz)								
15	647168	656000	664834	Tune-up limit (dBm)	MPR (dB)			
15	3702.02	3840	3702.01					
QPSK								
15	18.00	18.07	17.88	19.5	0.0			
Channel								
Frequency (MHz)								
10	647000	656000	665000	Tune-up limit (dBm)	MPR (dB)			
10	3705	3840	3715					
QPSK								
10	17.99	18.02	18.07	19.5	0.0			

Part270 n77 HPUE Ant 7 DS16

Channel	Power Low Ch. / Freq.	Power Main Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel								
Frequency (MHz)								
100	3705	3640	3705					
Pi/2 BPSK								
100	21.05	21.00	20.94					
100	137	21.03	21.08	20.99	22.5			
100	271	21.02	21.08	21.00				
Pi/2 BPSK								
100	135	0	20.97	21.06	20.97	22.5	0.0	
100	135	69	20.98	20.99	21.03	22.5	0.0	
Pi/2 BPSK								
100	135	138	21.05	21.10	20.95			
100	270	0	20.99	21.10	20.99	22.5	0.0	
QPSK								
100	1	1	21.16	21.19	21.14			
100	1	137	21.03	21.09	21.01	22.5	0.0	
QPSK								
100	1	271	20.99	21.04	21.04			
100	135	0	21.02	21.00	21.04	22.5	0.0	
100	138	69	21.03	21.11	21.00	22.5	0.0	
100	135	138	20.98	21.03	21.01	22.5	0.0	
100	270	0	21.04	21.14	21.03	22.5	0.0	
16QAM								
100	1	1	21.06	21.02	21.05	22.5	0.0	
100	1	1	21.07	21.04	20.94	22.5	0.0	
100	256QAM	1	1	21.06	21.01	21.04	22.5	0.0
Channel								
Frequency (MHz)								
80	648668	656000	662334	Tune-up limit (dBm)	MPR (dB)			
80	3740.02	3840	3745.01					
QPSK								
80	21.03	21.07	21.04	22.5	0.0			
Channel								
Frequency (MHz)								
80	648334	656000	662668	Tune-up limit (dBm)	MPR (dB)			
80	3740.01	3840	3740.02					
QPSK								
80	21.02	20.98	21.00	22.5	0.0			
Channel								
Frequency (MHz)								
70	648668	656000	662334	Tune-up limit (dBm)	MPR (dB)			
70	3735	3840	3845					
QPSK								
70	20.97	21.05	20.94	22.5	0.0			
Channel								
Frequency (MHz)								
60	648668	656000	662334	Tune-up limit (dBm)	MPR (dB)			
60	3730.02	3840	3730.01					
QPSK								
60	21.00	21.08	20.94	22.5	0.0			
Channel								
Frequency (MHz)								
50	648334	656000	662668	Tune-up limit (dBm)	MPR (dB)			
50	3742.01	3840	3742.02					
QPSK								
50	21.05	21.00	20.96	22.5	0.0			
Channel								
Frequency (MHz)								
40	648000	656000	664000	Tune-up limit (dBm)	MPR (dB)			
40	3720	3840	3860					
QPSK								
40	21.05	21.09	20.93	22.5	0.0			
Channel								
Frequency (MHz)								
30	647668	656000	664334	Tune-up limit (dBm)	MPR (dB)			
30	3718.02	3840	3718.01					
QPSK								
30	20.96	21.08	21.01	22.5	0.0			
Channel								
Frequency (MHz)								
20	647168	656000	664834	Tune-up limit (dBm)	MPR (dB)			
20	3710.01	3840	3710.02					
QPSK								
20	20.98	21.05	20.95	22.5	0.0			
Channel								
Frequency (MHz)								
15	647168	656000	664834	Tune-up limit (dBm)	MPR (dB)			
15	3702.02	3840	3702.01					
QPSK								
15	21.02	21.08	20.94	22.5	0.0			
Channel								
Frequency (MHz)								
10	647000	656000	665000	Tune-up limit (dBm)	MPR (dB)			
10	3705	3840	3715					
QPSK								
10	21.04	21.09	20.95	22.5	0.0			



Part270 n78 Ant 7 DSI6									
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	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137		17.97			19.5	0.0
100	PI2 BPSK	1	271		17.99				
100	PI2 BPSK	135	0		18.07		19.5	0.0	
100	PI2 BPSK	135	69		17.99		19.5	0.0	
100	PI2 BPSK	135	138		17.99		19.5	0.0	
100	PI2 BPSK	270	0		18.00				
100	QPSK	1	1		18.15				
100	QPSK	1	137		17.97		19.5	0.0	
100	QPSK	1	271		17.98				
100	QPSK	135	0		17.96		19.5	0.0	
100	QPSK	135	69		18.04		19.5	0.0	
100	QPSK	135	138		17.92		19.5	0.0	
100	QPSK	270	0		18.03				
100	16QAM	1	1		17.87		19.5	0.0	
100	64QAM	1	1		17.96		19.5	0.0	
100	256QAM	1	1		17.91		19.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	64968	65000	65034	Tune-up limit	MPR	
				3745.02	3750	3755.01	(dbm)	(dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	64934	65000	65068	Tune-up limit	MPR	
				3740.01	3750	3760.02	(dbm)	(dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	64900	65000	65100	Tune-up limit	MPR	
				3735	3750	3765	(dbm)	(dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.97	17.97	18.04	19.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	64896	65000	65134	Tune-up limit	MPR	
				3730.02	3750	3770.01	(dbm)	(dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	64834	65000	65168	Tune-up limit	MPR	
				3725.01	3750	3775.02	(dbm)	(dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	64800	65000	65200	Tune-up limit	MPR	
				3720	3750	3780	(dbm)	(dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	64768	65000	65234	Tune-up limit	MPR	
				3715.02	3750	3785.01	(dbm)	(dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	647168	65000	65284	Tune-up limit	MPR	
				3710.01	3750	3790.02	(dbm)	(dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.94	18.00	18.05	19.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	647168	65000	65284	Tune-up limit	MPR	
				3707.01	3750	3922.51	(dbm)	(dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.93	18.07	18.00	19.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	647000	65000	65300	Tune-up limit	MPR	
				3705	3750	3795	(dbm)	(dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.94	17.96	18.04	19.5	0.0	

Part270 n78 HPUE Ant 7 DSI6									
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	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137		20.97			22.5	0.0
100	PI2 BPSK	1	271		20.99				
100	PI2 BPSK	135	0		21.02		22.5	0.0	
100	PI2 BPSK	135	69		20.95		22.5	0.0	
100	PI2 BPSK	135	138		21.05		22.5	0.0	
100	PI2 BPSK	270	0		20.98				
100	QPSK	1	1		21.09				
100	QPSK	1	137		20.95		22.5	0.0	
100	QPSK	1	271		21.00				
100	QPSK	135	0		20.89		22.5	0.0	
100	QPSK	135	69		21.07		22.5	0.0	
100	QPSK	135	138		20.93		22.5	0.0	
100	QPSK	270	0		21.01				
100	16QAM	1	1		20.95		22.5	0.0	
100	64QAM	1	1		20.99		22.5	0.0	
100	256QAM	1	1		20.89		22.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	64968	65000	65034	Tune-up limit	MPR	
				3745.02	3750	3755.01	(dbm)	(dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	64934	65000	65068	Tune-up limit	MPR	
				3740.01	3750	3760.02	(dbm)	(dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	64900	65000	65100	Tune-up limit	MPR	
				3735	3750	3765	(dbm)	(dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.00	21.04	20.91	22.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	64896	65000	65134	Tune-up limit	MPR	
				3730.02	3750	3770.01	(dbm)	(dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	64834	65000	65168	Tune-up limit	MPR	
				3725.01	3750	3775.02	(dbm)	(dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	64800	65000	65200	Tune-up limit	MPR	
				3720	3750	3780	(dbm)	(dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	64768	65000	65234	Tune-up limit	MPR	
				3715.02	3750	3785.01	(dbm)	(dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	647168	65000	65284	Tune-up limit	MPR	
				3710.01	3750	3790.02	(dbm)	(dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.89	21.00	20.97	22.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	647168	65000	65284	Tune-up limit	MPR	
				3707.01	3750	3922.51	(dbm)	(dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.91	21.05	20.92	22.5	0.0	



Part270 n77 Ant 8 DSI6								
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	P2/BPSK	1	1	21.53	21.53	21.60		
100	P2/BPSK	1	137	21.53	21.63	21.60	23.3	0.0
100	P2/BPSK	1	271	21.51	21.54	21.58		
100	P2/BPSK	135	0	21.55	21.55	21.53	23.3	0.0
100	P2/BPSK	135	69	21.55	21.63	21.55	23.3	0.0
100	P2/BPSK	135	138	21.59	21.55	21.59		
100	P2/BPSK	270	0	21.50	21.54	21.52	23.3	0.0
100	QPSK	1	1	21.70	21.75	21.72		
100	QPSK	1	137	21.58	21.54	21.62	23.3	0.0
100	QPSK	1	271	21.50	21.62	21.62		
100	QPSK	135	0	21.39	21.42	21.43	23.0	0.3
100	QPSK	135	69	21.63	21.72	21.67	23.3	0.0
100	QPSK	135	138	21.43	21.46	21.45		
100	QPSK	270	0	21.38	21.48	21.39	23.0	0.3
100	16QAM	1	1	21.40	21.43	21.41	23.0	0.3
100	64QAM	1	1	19.95	20.00	19.99	21.5	1.8
100	256QAM	1	1	17.92	18.00	17.94	19.5	3.8
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.54	21.55	21.57	23.3	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.40	21.62	21.51	23.3	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.53	21.55	21.63	23.3	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.57	21.61	21.63	23.3	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.52	21.55	21.53	23.3	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.62	21.64	21.59	23.3	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.59	21.63	21.62	23.3	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.59	21.62	21.53	23.3	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	21.50	21.56	21.61	23.3	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	21.57	21.63	21.53	23.3	0.0

Part270 n77 HPUE Ant 8 DSI6								
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	P2/BPSK	1	1	24.54	24.70	24.59		
100	P2/BPSK	1	137	24.65	24.69	24.60	26.3	0.0
100	P2/BPSK	1	271	24.58	24.62	24.63		
100	P2/BPSK	135	0	24.55	24.64	24.66	26.3	0.0
100	P2/BPSK	135	69	24.61	24.63	24.60	26.3	0.0
100	P2/BPSK	135	138	24.65	24.64	24.59		
100	P2/BPSK	270	0	24.63	24.60	24.65	26.3	0.0
100	QPSK	1	1	24.76	24.81	24.78		
100	QPSK	1	137	24.65	24.69	24.66	26.3	0.0
100	QPSK	1	271	24.65	24.67	24.60		
100	QPSK	135	0	24.38	24.43	24.43	26.0	0.3
100	QPSK	135	69	24.69	24.72	24.69	26.3	0.0
100	QPSK	135	138	24.40	24.42	24.34		
100	QPSK	270	0	24.39	24.47	24.37	26.0	0.3
100	16QAM	1	1	24.36	24.36	24.32	26.0	0.3
100	64QAM	1	1	22.97	22.91	22.87	24.5	1.8
100	256QAM	1	1	20.98	20.95	20.90	22.5	3.8
Channel								
Frequency (MHz)								
80	QPSK	1	1	24.55	24.71	24.60	26.3	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	24.66	24.70	24.64	26.3	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	24.56	24.61	24.66	26.3	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	24.59	24.69	24.62	26.3	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	24.57	24.71	24.69	26.3	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	24.50	24.65	24.69	26.3	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	24.58	24.68	24.62	26.3	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	24.64	24.70	24.60	26.3	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	24.60	24.64	24.67	26.3	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	24.57	24.65	24.67	26.3	0.0



Part270 n78 Ant 8 DS16

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)				3750	3750	3750		
100	Pl2 BPSK	1	1	21.54	21.54	21.54	23.3	0.0
100	Pl2 BPSK	1	137	21.55	21.55	21.55		
100	Pl2 BPSK	1	271	21.42	21.42	21.42		
100	Pl2 BPSK	135	0	21.48	21.48	21.48	23.3	0.0
100	Pl2 BPSK	135	69	21.55	21.55	21.55	23.3	0.0
100	Pl2 BPSK	135	138	21.45	21.45	21.45	23.3	0.0
100	Pl2 BPSK	270	0	21.40	21.40	21.40		
100	QPSK	1	1	21.66	21.66	21.66	23.3	0.0
100	QPSK	1	137	21.57	21.57	21.57		
100	QPSK	1	271	21.83	21.83	21.83		
100	QPSK	135	0	21.28	21.28	21.28	23.0	0.3
100	QPSK	135	69	21.63	21.63	21.63	23.3	0.0
100	QPSK	135	138	21.41	21.41	21.41	23.0	0.3
100	QPSK	270	0	21.43	21.43	21.43		
100	16QAM	1	1	21.38	21.38	21.38	23.0	0.3
100	16QAM	1	1	19.86	19.86	21.5	21.5	1.8
100	256QAM	1	1	17.87	17.87	19.5	19.5	3.8
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	21.47	21.54	21.42	23.3	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3740.01	3750	3760.02	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3750	3750	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	21.46	21.54	21.51	23.3	0.0
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	21.47	21.54	21.49	23.3	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	21.51	21.53	21.43	23.3	0.0
Channel								
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	21.44	21.53	21.53	23.3	0.0
Channel								
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	21.49	21.52	21.46	23.3	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	21.42	21.52	21.51	23.3	0.0
Channel								
Frequency (MHz)				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	21.43	21.60	21.45	23.3	0.0
Channel								
Frequency (MHz)				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	21.45	21.61	21.42	23.3	0.0

Part270 n78 HPUE Ant 8 DS16

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)				3750	3750	3750		
100	Pl2 BPSK	1	1	24.52	24.52	24.52	26.3	0.0
100	Pl2 BPSK	1	137	24.59	24.59	24.59		
100	Pl2 BPSK	1	271	24.50	24.50	24.50		
100	Pl2 BPSK	135	0	24.57	24.57	24.57	26.3	0.0
100	Pl2 BPSK	135	69	24.56	24.56	24.56	26.3	0.0
100	Pl2 BPSK	135	138	24.59	24.59	24.59	26.3	0.0
100	Pl2 BPSK	270	0	24.48	24.48	24.48		
100	QPSK	1	1	24.77	24.77	24.77	26.3	0.0
100	QPSK	1	137	24.55	24.55	24.55		
100	QPSK	1	271	24.53	24.53	24.53		
100	QPSK	135	0	24.39	24.39	24.39	26.0	0.3
100	QPSK	135	69	24.68	24.68	24.68	26.3	0.0
100	QPSK	135	138	24.32	24.32	24.32	26.0	0.3
100	QPSK	270	0	24.34	24.34	24.34		
100	16QAM	1	1	24.22	24.22	24.22	26.0	0.3
100	16QAM	1	1	22.56	22.56	24.5	24.5	1.8
100	256QAM	1	1	20.84	20.84	22.5	22.5	3.8
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	24.52	24.61	24.57	26.3	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3740.01	3750	3760.02	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3750	3750	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	24.51	24.63	24.53	26.3	0.0
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	24.48	24.62	24.48	26.3	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	24.50	24.57	24.48	26.3	0.0
Channel								
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	24.44	24.56	24.56	26.3	0.0
Channel								
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	24.50	24.61	24.49	26.3	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	24.46	24.62	24.48	26.3	0.0
Channel								
Frequency (MHz)				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	24.55	24.67	24.45	26.3	0.0
Channel								
Frequency (MHz)				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	24.45	24.57	24.52	26.3	0.0



n38 Ant 10 DSI6								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Holds Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				516004	519000	519996		
40	PB2 BPSK	1	1	22.61	22.82	22.78		
40	PB2 BPSK	1	53	22.68	22.77	22.70	24.0	0.0
40	PB2 BPSK	1	104	22.82	22.68	22.61		
40	PB2 BPSK	50	0	22.15	22.24	22.15	23.5	0.5
40	PB2 BPSK	50	50	22.58	22.68	22.58	24.0	0.0
40	PB2 BPSK	50	56	22.40	22.48	22.33	23.5	0.5
40	PB2 BPSK	100	0	22.30	22.41	22.31		
40	QPSK	1	1	22.81	22.91	22.90		
40	QPSK	1	53	22.63	22.76	22.66	24.0	0.0
40	QPSK	1	104	22.70	22.84	22.70		
40	QPSK	50	0	21.81	21.89	21.82	23.0	1.0
40	QPSK	50	28	22.78	22.78	22.69	24.0	0.0
40	QPSK	50	50	21.79	21.86	21.74	23.0	1.0
40	QPSK	100	0	21.69	21.81	21.69		
40	16QAM	1	1	21.80	21.88	21.77	23.0	1.0
40	64QAM	1	1	20.38	20.45	20.29	21.5	2.5
40	256QAM	1	1	18.46	18.52	18.38	19.5	4.5
Channel								
Frequency (MHz)				517002	519000	520998	Tune-up limit (dBm)	MPR
30	QPSK	1	1	22.54	22.60	22.60	24.0	0.0
Channel								
Frequency (MHz)				516000	519000	522000	Tune-up limit (dBm)	MPR
20	QPSK	1	1	22.51	22.74	22.62	24.0	0.0
Channel								
Frequency (MHz)				515002	519000	522998	Tune-up limit (dBm)	MPR
15	QPSK	1	1	22.51	22.72	22.60	24.0	0.0
Channel								
Frequency (MHz)				515004	519000	522996	Tune-up limit (dBm)	MPR
10	QPSK	1	1	22.48	22.73	22.59	24.0	0.0

n41 Ant 10 DSI6								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Holds Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				509002	518998	526000		
100	PB2 BPSK	1	1	22.81	22.92	22.87		
100	PB2 BPSK	1	137	22.74	22.79	22.72	24.0	0.0
100	PB2 BPSK	1	271	22.72	22.79	22.72		
100	PB2 BPSK	135	0	22.42	22.48	22.27	23.5	0.5
100	PB2 BPSK	135	69	22.74	22.81	22.75	24.0	0.0
100	PB2 BPSK	135	138	22.48	22.54	22.48	23.5	0.5
100	PB2 BPSK	270	0	22.35	22.41	22.34		
100	QPSK	1	1	22.81	22.91	22.88		
100	QPSK	1	137	22.69	22.81	22.75	24.0	0.0
100	QPSK	1	271	22.68	22.83	22.79		
100	QPSK	135	0	21.81	21.95	21.81	23.0	1.0
100	QPSK	135	69	22.78	22.88	22.72	24.0	0.0
100	QPSK	135	138	21.83	21.90	21.79	23.0	1.0
100	QPSK	270	0	21.77	21.84	21.69		
100	16QAM	1	1	21.84	21.90	21.78	23.0	1.0
100	64QAM	1	1	20.46	20.53	20.39	21.5	2.5
100	256QAM	1	1	18.25	18.38	18.33	19.5	4.5
Channel								
Frequency (MHz)				508000	518998	526998	Tune-up limit (dBm)	MPR
80	QPSK	1	1	22.61	22.72	22.64	24.0	0.0
Channel								
Frequency (MHz)				507204	518998	525998	Tune-up limit (dBm)	MPR
80	QPSK	1	1	22.65	22.75	22.60	24.0	0.0
Channel								
Frequency (MHz)				506202	518998	524998	Tune-up limit (dBm)	MPR
70	QPSK	1	1	22.78	22.83	22.75	24.0	0.0
Channel								
Frequency (MHz)				505200	518998	523998	Tune-up limit (dBm)	MPR
60	QPSK	1	1	22.62	22.76	22.65	24.0	0.0
Channel								
Frequency (MHz)				504204	518998	522998	Tune-up limit (dBm)	MPR
50	QPSK	1	1	22.59	22.77	22.67	24.0	0.0
Channel								
Frequency (MHz)				503202	518998	521998	Tune-up limit (dBm)	MPR
40	QPSK	1	1	22.62	22.65	22.61	24.0	0.0
Channel								
Frequency (MHz)				502200	518998	520998	Tune-up limit (dBm)	MPR
30	QPSK	1	1	22.66	22.71	22.61	24.0	0.0
Channel								
Frequency (MHz)				501204	518998	519998	Tune-up limit (dBm)	MPR
20	QPSK	1	1	22.63	22.68	22.69	24.0	0.0
Channel								
Frequency (MHz)				500700	518998	518998	Tune-up limit (dBm)	MPR
15	QPSK	1	1	22.64	22.69	22.70	24.0	0.0
Channel								
Frequency (MHz)				500202	518998	517000	Tune-up limit (dBm)	MPR
10	QPSK	1	1	22.61	22.62	22.65	24.0	0.0



Reduced Power Mode for Other PA DS16

n2 Ant 1 DS16									
Channel	Power Low	Power Middle	Power High	Tune-up limit (dBm)	MPR (dB)				
Channel	Ch. Freq.	Ch. Freq.	Ch. Freq.						
Frequency (MHz)				1860	1860	1900			
20	P1/2 BPSK	1	1	19.13	19.12	19.24			
20	P1/2 BPSK	1	53	19.14	19.24	19.08			
20	P1/2 BPSK	1	104	19.17	19.31	19.14			
20	P1/2 BPSK	50	0	19.12	19.25	19.22			
20	P1/2 BPSK	50	28	19.09	19.15	19.19			
20	P1/2 BPSK	50	56	19.06	19.27	19.16			
20	P1/2 BPSK	100	0	19.22	19.14	19.16			
20	QPSK	1	1	19.29	19.38	19.29			
20	QPSK	1	53	19.19	19.13	19.15			
20	QPSK	1	104	19.11	19.20	19.26			
20	QPSK	50	0	19.19	19.15	19.18			
20	QPSK	50	28	19.25	19.32	19.26			
20	QPSK	50	56	19.16	19.21	19.20			
20	QPSK	100	0	19.14	19.28	19.24			
20	16QAM	1	1	19.11	19.19	19.18			
20	16QAM	1	1	19.17	19.18	19.17			
20	256QAM	1	1	17.26	17.97	17.23			
Channel				37150	37600	38050			
Frequency (MHz)				1867.5	1880	1902.5			
15	QPSK	1	1	19.13	19.29	19.19			
Channel				371000	376000	381000			
Frequency (MHz)				1853	1863	1863			
10	QPSK	1	1	19.24	19.27	19.13			
Channel				370500	376000	381500			
Frequency (MHz)				1852.5	1860	1907.5			
5	QPSK	1	1	19.12	19.24	19.22			

n7 Ant 1 DS16									
Channel	Power Low	Power Middle	Power High	Tune-up limit (dBm)	MPR (dB)				
Channel	Ch. Freq.	Ch. Freq.	Ch. Freq.						
Frequency (MHz)				2520	2535	2550			
40	P1/2 BPSK	1	1	18.80	18.86	18.80			
40	P1/2 BPSK	1	108	18.86	18.84	18.85			
40	P1/2 BPSK	1	214	18.86	19.00	18.86			
40	P1/2 BPSK	108	0	18.88	18.97	18.87			
40	P1/2 BPSK	108	54	18.85	18.93	18.86			
40	P1/2 BPSK	108	108	18.80	18.85	18.83			
40	P1/2 BPSK	216	0	18.90	18.93	18.94			
40	QPSK	1	1	19.01	19.10	19.06			
40	QPSK	1	108	18.91	18.96	18.97			
40	QPSK	1	214	18.85	18.86	18.82			
40	QPSK	108	0	18.75	18.84	18.80			
40	QPSK	108	54	18.92	18.98	18.93			
40	QPSK	108	108	18.87	18.85	18.86			
40	QPSK	216	0	18.88	19.00	18.82			
40	16QAM	1	1	18.85	18.80	18.83			
40	16QAM	1	1	18.71	18.77	18.77			
40	256QAM	1	1	16.67	16.76	16.75			
Channel				50300	50700	51100			
Frequency (MHz)				2515	2535	2555			
30	QPSK	1	1	18.96	18.94	18.92			
Channel				502500	507000	511500			
Frequency (MHz)				2512.5	2535	2577.5			
25	QPSK	1	1	18.92	19.02	19.00			
Channel				502000	507000	512000			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	18.93	18.99	19.00			
Channel				501500	507000	512500			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	18.96	18.97	18.90			
Channel				501000	507000	513000			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	18.93	18.95	19.00			
Channel				500500	507000	513500			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	18.94	18.95	18.99			

n66 Ant 1 DS16									
Channel	Power Low	Power Middle	Power High	Tune-up limit (dBm)	MPR (dB)				
Channel	Ch. Freq.	Ch. Freq.	Ch. Freq.						
Frequency (MHz)				1730	1745	1760			
40	P1/2 BPSK	1	1	18.25	18.28	18.19			
40	P1/2 BPSK	1	100	18.24	18.21	18.28			
40	P1/2 BPSK	1	214	18.29	18.36	18.17			
40	P1/2 BPSK	108	0	18.20	18.32	18.30			
40	P1/2 BPSK	108	54	18.20	18.34	18.20			
40	P1/2 BPSK	108	108	18.29	18.29	18.24			
40	P1/2 BPSK	216	0	18.25	18.24	18.25			
40	QPSK	1	1	18.46	18.51	18.49			
40	QPSK	1	108	18.21	18.26	18.31			
40	QPSK	1	214	18.17	18.22	18.25			
40	QPSK	108	0	18.20	18.41	18.22			
40	QPSK	108	54	18.38	18.49	18.43			
40	QPSK	108	108	18.30	18.31	18.28			
40	QPSK	216	0	18.34	18.47	18.28			
40	16QAM	1	1	18.18	18.33	18.20			
40	16QAM	1	1	18.27	18.27	18.19			
40	256QAM	1	1	17.01	17.99	17.93			
Channel				34550	34900	35250			
Frequency (MHz)				1727.5	1745	1762.5			
35	QPSK	1	1	18.31	18.38	18.42			
Channel				345000	349000	353000			
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	18.33	18.35	18.27			
Channel				344500	349000	353500			
Frequency (MHz)				1722.5	1745	1767.5			
25	QPSK	1	1	18.33	18.34	18.38			
Channel				344000	349000	354000			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	18.41	18.35	18.38			
Channel				343500	349000	354500			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	18.38	18.39	18.36			
Channel				343000	349000	355000			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	18.37	18.43	18.40			
Channel				342500	349000	355500			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	18.37	18.46	18.32			



n2 Ant 2 DSI6								
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				1860	1880	1900		
Frequency (MHz)				1860	1880	1900		
20	Pl/2 BPSK	1	1	21.54	21.61	21.45		
20	Pl/2 BPSK	1	53	21.36	21.48	21.35	23.0	0.0
20	Pl/2 BPSK	1	104	21.39	21.48	21.39		
20	Pl/2 BPSK	50	0	20.97	21.13	21.01	22.5	0.5
20	Pl/2 BPSK	50	28	21.30	21.51	21.48	23.0	0.0
20	Pl/2 BPSK	50	56	20.88	21.00	21.01	22.5	0.5
20	Pl/2 BPSK	100	0	20.92	20.84	20.83		
20	QPSK	1	1	21.60	21.67	21.57		
20	QPSK	1	53	21.42	21.44	21.48	23.0	0.0
20	QPSK	1	104	21.51	21.54	21.48		
20	QPSK	50	0	20.50	20.57	20.51	22.0	1.0
20	QPSK	50	28	21.49	21.50	21.49	23.0	0.0
20	QPSK	80	56	20.31	20.55	20.38	22.0	1.0
20	QPSK	100	0	20.35	20.57	20.42		
20	16QAM	1	1	20.17	20.20	20.08	22.0	1.0
20	16QAM	1	1	18.89	18.94	18.92	20.5	2.5
20	256QAM	1	1	17.19	17.27	17.24	18.5	4.5
Channel				37500	37600	38000		
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	21.53	21.59	21.51	23.0	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	21.47	21.55	21.48	23.0	0.0
Channel				370500	375000	381500		
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	21.51	21.58	21.47	23.0	0.0

n66 Ant 2 DSI6								
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				34900	34900	35000		
Frequency (MHz)				1730	1745	1760		
40	Pl/2 BPSK	1	1	21.28	21.42	21.33		
40	Pl/2 BPSK	1	108	21.30	21.35	21.27	23.0	0.0
40	Pl/2 BPSK	1	214	21.34	21.38	21.29		
40	Pl/2 BPSK	108	0	20.96	20.95	21.00	22.5	0.5
40	Pl/2 BPSK	108	54	21.27	21.40	21.27	23.0	0.0
40	Pl/2 BPSK	108	108	20.86	20.91	20.80	22.5	0.5
40	Pl/2 BPSK	216	0	20.92	20.97	20.85		
40	QPSK	1	1	21.40	21.49	21.39		
40	QPSK	1	108	21.25	21.44	21.39	23.0	0.0
40	QPSK	1	214	21.33	21.45	21.42		
40	QPSK	108	0	20.33	20.52	20.31	22.0	1.0
40	QPSK	108	54	21.33	21.42	21.28	23.0	0.0
40	QPSK	108	108	20.33	20.37	20.34	22.0	1.0
40	QPSK	216	0	20.23	20.39	20.29		
40	16QAM	1	1	20.22	20.19	20.11	22.0	1.0
40	16QAM	1	1	18.65	18.73	18.64	20.5	2.5
40	256QAM	1	1	17.13	17.25	17.16	18.5	4.5
Channel				345500	349000	352500		
Frequency (MHz)				1722.5	1745	1762.5		
35	QPSK	1	1	21.31	21.36	21.32	23.0	0.0
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	21.30	21.42	21.34	23.0	0.0
Channel				344500	349000	353500		
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	21.31	21.42	21.31	23.0	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1725	1745	1770		
20	QPSK	1	1	21.27	21.42	21.34	23.0	0.0
Channel				343500	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	21.30	21.40	21.31	23.0	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	21.35	21.40	21.30	23.0	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	21.32	21.43	21.24	23.0	0.0



Reduced Power Mode for DS17

n5 Ant 0 DS17									
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				16490	16790	16790			
Frequency (MHz)				834	838.5	839			
20	PI2 BPSK	1	1	22.80	22.70	22.62	24.0	0.0	
20	PI2 BPSK	1	53	22.94	22.71	22.71			
20	PI2 BPSK	1	104	22.93	22.76	22.72			
20	PI2 BPSK	50	0	22.15	22.32	22.24	23.5	0.5	
20	PI2 BPSK	50	28	22.52	22.71	22.68	24.0	0.0	
20	PI2 BPSK	50	56	22.11	22.31	22.28	23.5	0.5	
20	PI2 BPSK	100	0	22.18	22.33	22.29			
20	QPSK	1	1	22.66	22.80	22.77	24.0	0.0	
20	QPSK	1	53	22.50	22.64	22.64			
20	QPSK	1	104	22.38	22.70	22.61			
20	QPSK	50	0	21.83	21.74	21.71	23.0	1.0	
20	QPSK	50	28	22.56	22.73	22.63	24.0	0.0	
20	QPSK	50	56	21.85	21.81	21.76	23.0	1.0	
20	QPSK	100	0	21.70	21.73	21.75			
20	16QAM	1	1	21.71	21.78	21.76	23.0	1.0	
20	64QAM	1	1	20.16	20.27	20.28	21.5	2.5	
20	256QAM	1	1	18.14	18.34	18.22	19.5	4.5	
Channel				16500	16750	16900			
Frequency (MHz)				831.5	838.5	841.5			
15	QPSK	1	1	22.37	22.53	22.44	24.0	0.0	
Channel				16390	16790	16850			
Frequency (MHz)				829	838.5	844			
10	QPSK	1	1	22.32	22.53	22.53	24.0	0.0	
Channel				16330	16790	16930			
Frequency (MHz)				828.5	838.5	843.5			
5	QPSK	1	1	22.32	22.52	22.49	24.0	0.0	

n26 Ant 0 DS17									
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				16490	16630	16760			
Frequency (MHz)				824	831.5	839			
20	PI2 BPSK	1	1	22.73	22.78	22.69	24.0	0.0	
20	PI2 BPSK	1	53	22.69	22.73	22.67			
20	PI2 BPSK	1	104	22.73	22.82	22.68			
20	PI2 BPSK	50	0	22.25	22.37	22.27	23.5	0.5	
20	PI2 BPSK	50	28	22.67	22.78	22.63	24.0	0.0	
20	PI2 BPSK	50	56	22.36	22.36	22.24	23.5	0.5	
20	PI2 BPSK	100	0	22.36	22.39	22.27			
20	QPSK	1	1	22.80	22.86	22.76	24.0	0.0	
20	QPSK	1	53	22.72	22.80	22.66			
20	QPSK	1	104	22.74	22.81	22.70			
20	QPSK	50	0	21.78	21.92	21.79	23.0	1.0	
20	QPSK	50	28	22.67	22.71	22.68	24.0	0.0	
20	QPSK	50	56	21.79	21.81	21.79	23.0	1.0	
20	QPSK	100	0	21.74	21.86	21.75			
20	16QAM	1	1	21.74	21.84	21.76	23.0	1.0	
20	64QAM	1	1	20.34	20.39	20.24	21.5	2.5	
20	256QAM	1	1	18.30	18.38	18.22	19.5	4.5	
Channel				16500	16630	16760			
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	22.53	22.54	22.50	24.0	0.0	
Channel				16390	16630	16850			
Frequency (MHz)				818	831.5	844			
10	QPSK	1	1	22.51	22.58	22.46	24.0	0.0	
Channel				16330	16630	16930			
Frequency (MHz)				818.5	831.5	843.5			
5	QPSK	1	1	22.46	22.55	22.41	24.0	0.0	



n38 Ant 0 DSI7								
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								
518004 519000 519996								
Frequency (MHz)								
40	P2/BPSK	1	1	18.11	18.21	18.12		
40	P2/BPSK	1	53	18.20	18.26	18.29	19.6	0.0
40	P2/BPSK	1	104	18.24	18.18	18.18		
40	P2/BPSK	50	0	18.16	18.25	18.22	19.6	0.0
40	P2/BPSK	50	29	18.12	18.28	18.16	19.6	0.0
40	P2/BPSK	50	56	18.14	18.21	18.15		
40	P2/BPSK	100	0	18.04	18.27	18.14	19.6	0.0
40	QPSK	1	1	18.32	18.28	18.24		
40	QPSK	1	53	18.30	18.27	18.07	19.6	0.0
40	QPSK	1	104	18.18	18.18	18.20		
40	QPSK	50	0	18.17	18.20	18.19	19.6	0.0
40	QPSK	50	28	18.28	18.31	18.21	19.6	0.0
40	QPSK	50	56	18.13	18.17	18.15		
40	QPSK	100	0	18.17	18.28	18.13	19.6	0.0
40	16QAM	1	1	18.17	18.17	18.15	19.6	0.0
40	64QAM	1	1	18.04	18.02	18.01	19.6	0.1
40	256QAM	1	1	16.13	16.16	16.14	17.5	2.1
Channel								
517002 518000 520998								
Frequency (MHz)								
30	QPSK	1	1	20.55	20.56	20.54	19.6	0.0
Channel								
515000 516000 522000								
Frequency (MHz)								
20	QPSK	1	1	18.15	18.27	18.16	19.6	0.0
Channel								
515002 516000 522998								
Frequency (MHz)								
15	QPSK	1	1	18.14	18.27	18.11	19.6	0.0
Channel								
515004 516000 522996								
Frequency (MHz)								
10	QPSK	1	1	18.13	18.18	18.15	19.6	0.0

n41 Ant 0 DSI7								
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								
509002 518000 526000								
Frequency (MHz)								
100	P2/BPSK	1	1	18.17	18.32	18.22		
100	P2/BPSK	1	137	18.26	18.34	18.31	19.6	0.0
100	P2/BPSK	1	271	18.28	18.30	18.24		
100	P2/BPSK	135	0	18.23	18.32	18.27	19.6	0.0
100	P2/BPSK	135	69	18.24	18.33	18.21	19.6	0.0
100	P2/BPSK	135	138	18.25	18.28	18.25		
100	P2/BPSK	270	0	18.16	18.34	18.21	19.6	0.0
100	QPSK	1	1	18.29	18.45	18.36		
100	QPSK	1	137	18.21	18.29	18.19	19.6	0.0
100	QPSK	1	271	18.21	18.32	18.23		
100	QPSK	135	0	18.24	18.25	18.29	19.6	0.0
100	QPSK	135	69	18.32	18.40	18.35	19.6	0.0
100	QPSK	135	138	18.22	18.27	18.19		
100	QPSK	270	0	18.31	18.37	18.28	19.6	0.0
100	16QAM	1	1	18.24	18.27	18.28	19.6	0.0
100	64QAM	1	1	16.18	16.16	16.14	19.6	0.1
100	256QAM	1	1	16.17	16.28	16.27	17.5	2.1
Channel								
508000 518000 526998								
Frequency (MHz)								
80	QPSK	1	1	23.41	23.92	23.44	19.6	0.0
Channel								
507004 518000 526998								
Frequency (MHz)								
80	QPSK	1	1	18.16	18.25	18.21	19.6	0.0
Channel								
503602 509000 526998								
Frequency (MHz)								
70	QPSK	1	1	18.32	18.39	18.24	19.6	0.0
Channel								
502000 518000 531998								
Frequency (MHz)								
60	QPSK	1	1	18.17	18.25	18.26	19.6	0.0
Channel								
504204 518000 532998								
Frequency (MHz)								
50	QPSK	1	1	18.21	18.36	18.25	19.6	0.0
Channel								
503002 518000 534000								
Frequency (MHz)								
40	QPSK	1	1	25.16	25.92	25.70	19.6	0.0
Channel								
502240 518000 534998								
Frequency (MHz)								
30	QPSK	1	1	18.17	18.34	18.27	19.6	0.0
Channel								
501004 518000 535998								
Frequency (MHz)								
20	QPSK	1	1	25.08	25.92	25.79	19.6	0.0
Channel								
500700 518000 536498								
Frequency (MHz)								
15	QPSK	1	1	18.26	18.27	18.30	19.6	0.0
Channel								
500002 518000 537000								
Frequency (MHz)								
10	QPSK	1	1	18.16	18.30	18.23	19.6	0.0



n2 Ant 1 DSI7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Mids Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	P12 BPSK	1	1	13.12	13.42	13.30		
20	P12 BPSK	1	53	13.39	13.36	13.36	14.5	0.0
20	P12 BPSK	1	104	13.31	13.32	13.33		
20	P12 BPSK	50	0	13.40	13.37	13.33	14.5	0.0
20	P12 BPSK	50	26	13.40	13.34	13.31	14.5	0.0
20	P12 BPSK	50	56	13.37	13.36	13.27		
20	P12 BPSK	100	0	13.40	13.36	13.31	14.5	0.0
20	QPSK	1	1	13.47	13.34	13.42		
20	QPSK	1	53	13.32	13.37	13.32	14.5	0.0
20	QPSK	1	104	13.41	13.33	13.32		
20	QPSK	50	0	13.31	13.41	13.37	14.5	0.0
20	QPSK	50	26	13.45	13.46	13.42	14.5	0.0
20	QPSK	50	56	13.40	13.43	13.32		
20	QPSK	100	0	13.36	13.46	13.34		
20	16QAM	1	1	13.34	13.34	13.37	14.5	0.0
20	16QAM	1	1	13.41	13.36	13.37	14.5	0.0
20	256QAM	1	1	13.30	13.43	13.26	14.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	1607.5	1610	1602.5		
Channel								
Frequency (MHz)								
10	QPSK	1	1	13.40	13.43	13.33	14.5	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	13.31	13.40	13.36	14.5	0.0

n5 Ant 1 DSI7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Mids Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	P12 BPSK	1	1	21.63	21.65	21.72		
20	P12 BPSK	1	53	21.84	21.71	21.68	23.0	0.0
20	P12 BPSK	1	104	21.82	21.76	21.70		
20	P12 BPSK	50	0	21.79	21.81	21.75	23.0	0.0
20	P12 BPSK	50	26	21.79	21.77	21.77	23.0	0.0
20	P12 BPSK	50	56	21.65	21.80	21.78		
20	P12 BPSK	100	0	21.73	21.73	21.83	23.0	0.0
20	QPSK	1	1	21.86	21.84	21.84		
20	QPSK	1	53	21.78	21.82	21.76	23.0	0.0
20	QPSK	1	104	21.73	21.79	21.72		
20	QPSK	50	0	21.78	21.73	21.79	23.0	0.0
20	QPSK	50	26	21.85	21.81	21.88	23.0	0.0
20	QPSK	50	56	21.71	21.78	21.81		
20	QPSK	100	0	21.78	21.87	21.82		
20	16QAM	1	1	21.82	21.72	21.80	23.0	0.0
20	16QAM	1	1	20.43	20.29	20.35	21.5	1.5
20	256QAM	1	1	18.31	18.45	18.42	19.5	3.5
Channel								
Frequency (MHz)								
15	QPSK	1	1	181.5	181.5	181.5		
Channel								
Frequency (MHz)								
10	QPSK	1	1	21.71	21.80	21.76	23.0	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	21.82	21.82	21.80	23.0	0.0

n7 Ant 1 DSI7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Mids Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	P12 BPSK	1	1	25.02	25.02	25.02		
40	P12 BPSK	1	108	11.52	11.54	11.53		
40	P12 BPSK	1	108	11.51	11.46	11.41	12.8	0.0
40	P12 BPSK	1	214	11.43	11.48	11.44		
40	P12 BPSK	108	0	11.50	11.53	11.43	12.8	0.0
40	P12 BPSK	108	54	11.44	11.52	11.46		
40	P12 BPSK	108	108	11.54	11.51	11.44		
40	P12 BPSK	216	0	11.49	11.47	11.45	12.8	0.0
40	QPSK	1	1	11.58	11.50	11.56		
40	QPSK	1	108	11.51	11.51	11.41	12.8	0.0
40	QPSK	1	214	11.49	11.47	11.45		
40	QPSK	108	0	11.43	11.47	11.48	12.8	0.0
40	QPSK	108	54	11.53	11.56	11.53	12.8	0.0
40	QPSK	108	108	11.47	11.53	11.45		
40	QPSK	216	0	11.48	11.55	11.50		
40	16QAM	1	1	11.45	11.50	11.46	12.8	0.0
40	16QAM	1	1	11.50	11.54	11.43	12.8	0.0
40	256QAM	1	1	11.43	11.48	11.46	12.8	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	251.5	253.5	253.5		
Channel								
Frequency (MHz)								
25	QPSK	1	1	11.50	11.48	11.46	12.8	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	11.50	11.50	11.44	12.8	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	11.44	11.50	11.46	12.8	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	11.46	11.48	11.49	12.8	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	11.44	11.52	11.49	12.8	0.0



n26 Ant 1 DS17							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mids Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
20	P12 BPSK	1	1	21.90	21.91	21.93	23.0
20	P12 BPSK	1	53	21.89	21.84	21.79	23.0
20	P12 BPSK	1	104	21.89	21.82	21.83	23.0
20	P12 BPSK	50	0	21.86	21.83	21.83	23.0
20	P12 BPSK	50	26	21.87	21.88	21.86	23.0
20	P12 BPSK	50	56	21.80	21.87	21.86	23.0
20	P12 BPSK	100	0	21.79	21.83	21.86	23.0
20	QPSK	1	1	21.98	22.00	21.96	23.0
20	QPSK	1	53	21.88	21.94	21.84	23.0
20	QPSK	1	104	21.86	21.89	21.87	23.0
20	QPSK	50	0	21.90	21.85	21.86	23.0
20	QPSK	50	26	21.95	21.98	21.94	23.0
20	QPSK	50	56	21.85	21.87	21.85	23.0
20	QPSK	100	0	21.90	21.95	21.89	23.0
20	16QAM	1	1	21.88	21.84	21.87	23.0
20	16QAM	1	1	20.49	20.43	20.41	21.5
20	256QAM	1	1	18.46	18.51	18.47	19.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	21.83	21.90	21.86	23.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	21.98	21.92	21.88	23.0
Channel							
Frequency (MHz)							
5	QPSK	1	1	21.91	21.88	21.83	23.0

n66 Ant 1 DS17							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mids Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
40	P12 BPSK	1	1	13.51	13.52	13.45	15.0
40	P12 BPSK	1	108	13.48	13.58	13.54	15.0
40	P12 BPSK	1	214	13.55	13.54	13.48	15.0
40	P12 BPSK	108	0	13.46	13.54	13.54	15.0
40	P12 BPSK	108	54	13.48	13.57	13.55	15.0
40	P12 BPSK	108	108	13.58	13.52	13.44	15.0
40	P12 BPSK	216	0	13.46	13.51	13.53	15.0
40	QPSK	1	1	13.62	13.60	13.60	15.0
40	QPSK	1	108	13.46	13.50	13.47	15.0
40	QPSK	1	214	13.49	13.60	13.56	15.0
40	QPSK	108	0	13.54	13.59	13.63	15.0
40	QPSK	108	54	13.60	13.62	13.52	15.0
40	QPSK	108	108	13.46	13.56	13.52	15.0
40	QPSK	216	0	13.58	13.61	13.49	15.0
40	16QAM	1	1	13.63	13.62	13.63	15.0
40	16QAM	1	1	13.53	13.55	13.56	15.0
40	256QAM	1	1	13.02	13.90	13.49	15.0
Channel							
Frequency (MHz)							
35	QPSK	1	1	13.49	13.59	13.48	15.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	13.53	13.55	13.45	15.0
Channel							
Frequency (MHz)							
25	QPSK	1	1	13.47	13.58	13.45	15.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	13.52	13.52	13.55	15.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	13.53	13.55	13.49	15.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	13.56	13.58	13.53	15.0
Channel							
Frequency (MHz)							
5	QPSK	1	1	13.53	13.53	13.56	15.0



n38 Ant 1 DS17							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
518004 519000 519996							
40	Plz BPSK	1	1	12.33	12.37	12.30	
40	Plz BPSK	1	53	12.39	12.33	12.30	13.5
40	Plz BPSK	1	104	12.37	12.37	12.27	
40	Plz BPSK	50	0	12.46	12.43	12.25	13.5
40	Plz BPSK	50	28	12.37	12.45	12.35	13.5
40	Plz BPSK	50	56	12.28	12.35	12.31	
40	Plz BPSK	100	0	12.44	12.38	12.30	13.5
40	QPSK	1	1	12.46	12.48	12.39	
40	QPSK	1	53	12.39	12.40	12.31	13.5
40	QPSK	1	104	12.30	12.45	12.43	
40	QPSK	50	0	12.43	12.41	12.30	13.5
40	QPSK	50	28	12.39	12.46	12.36	13.5
40	QPSK	50	56	12.45	12.44	12.30	
40	QPSK	100	0	12.36	12.38	12.42	13.5
40	16QAM	1	1	12.38	12.37	12.42	13.5
40	16QAM	1	1	12.46	12.41	12.28	13.5
40	256QAM	1	1	12.42	12.42	12.27	13.5
Channel							
Frequency (MHz)							
517002 518000 520998							
30	QPSK	1	1	12.43	12.42	12.33	13.5
Channel							
Frequency (MHz)							
516000 518000 520000							
20	QPSK	1	1	12.38	12.37	12.32	13.5
Channel							
Frequency (MHz)							
515002 516000 520000							
15	QPSK	1	1	12.32	12.37	12.34	13.5
Channel							
Frequency (MHz)							
515004 516000 520998							
10	QPSK	1	1	12.38	12.45	12.33	13.5

n41 Ant 1 DS17							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
526002 518598 528000							
100	Plz BPSK	1	1	12.44	12.47	12.41	
100	Plz BPSK	1	137	12.45	12.46	12.39	13.5
100	Plz BPSK	1	271	12.48	12.48	12.42	
100	Plz BPSK	135	0	12.31	12.48	12.40	13.5
100	Plz BPSK	135	69	12.41	12.49	12.45	13.5
100	Plz BPSK	135	138	12.41	12.45	12.38	
100	Plz BPSK	270	0	12.50	12.49	12.40	13.5
100	QPSK	1	1	12.39	12.50	12.54	
100	QPSK	1	137	12.44	12.53	12.30	13.5
100	QPSK	1	271	12.42	12.51	12.47	
100	QPSK	135	0	12.47	12.54	12.42	13.5
100	QPSK	135	69	12.46	12.56	12.48	13.5
100	QPSK	135	138	12.52	12.50	12.41	
100	QPSK	270	0	12.45	12.49	12.46	13.5
100	16QAM	1	1	12.43	12.45	12.46	13.5
100	16QAM	1	1	12.52	12.53	12.39	13.5
100	256QAM	1	1	12.48	12.48	12.39	13.5
Channel							
Frequency (MHz)							
526000 518598 528998							
90	QPSK	1	1	12.49	12.48	12.42	13.5
Channel							
Frequency (MHz)							
527004 518598 529998							
80	QPSK	1	1	12.49	12.48	12.42	13.5
Channel							
Frequency (MHz)							
526302 518598 528998							
70	QPSK	1	1	12.48	12.47	12.36	13.5
Channel							
Frequency (MHz)							
525000 518598 531998							
60	QPSK	1	1	12.43	12.48	12.47	13.5
Channel							
Frequency (MHz)							
524204 518598 532998							
50	QPSK	1	1	12.51	12.53	12.49	13.5
Channel							
Frequency (MHz)							
523002 518598 534000							
40	QPSK	1	1	12.48	12.49	12.47	13.5
Channel							
Frequency (MHz)							
522000 518598 534998							
30	QPSK	1	1	12.41	12.52	12.40	13.5
Channel							
Frequency (MHz)							
520602 528998 2679.99							
20	QPSK	1	1	12.49	12.54	12.46	13.5
Channel							
Frequency (MHz)							
520700 518598 536498							
15	QPSK	1	1	12.47	12.45	12.49	13.5
Channel							
Frequency (MHz)							
520301 518598 537000							
10	QPSK	1	1	12.41	12.50	12.47	13.5



n2 Ant 2 DSI7									
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							372000	376000	380000
Frequency (MHz)							1850	1910	1970
20	PI2 BPSK	1	1	19.51	19.58	19.60	20.4	0.0	
20	PI2 BPSK	1	53	19.49	19.61	19.49			
20	PI2 BPSK	1	104	19.50	19.60	19.60			
20	PI2 BPSK	50	0	19.51	19.52	19.55			
20	PI2 BPSK	50	29	19.53	19.56	19.56	20.4	0.0	
20	PI2 BPSK	50	56	19.51	19.53	19.52	20.4	0.0	
20	PI2 BPSK	100	0	19.48	19.54	19.58	20.4	0.0	
20	QPSK	1	1	19.86	19.70	19.88			
20	QPSK	1	53	19.88	19.54	19.51			
20	QPSK	1	104	19.59	19.58	19.57			
20	QPSK	50	0	19.52	19.54	19.57	20.4	0.0	
20	QPSK	50	29	19.55	19.56	19.62	20.4	0.0	
20	QPSK	50	56	19.47	19.53	19.51	20.4	0.0	
20	QPSK	100	0	19.54	19.62	19.58	20.4	0.0	
20	16QAM	1	1	19.50	19.58	19.56	20.4	0.0	
20	16QAM	1	1	19.49	19.53	19.56	20.4	0.0	
20	256QAM	1	1	19.79	19.84	19.78	19.5	0.9	
Channel							371600	376000	380500
Frequency (MHz)							1877.5	1910	1922.5
15	QPSK	1	1	19.50	19.55	19.52	20.4	0.0	
Channel							371000	375000	381000
Frequency (MHz)							1865	1880	1905
10	QPSK	1	1	19.55	19.59	19.54	20.4	0.0	
Channel							370200	374000	378000
Frequency (MHz)							1862.5	1880	1897.5
5	QPSK	1	1	19.49	19.56	19.58	20.4	0.0	

n7 Ant 2 DSI7									
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							504000	507000	510000
Frequency (MHz)							2920	2935	2950
40	PI2 BPSK	1	1	18.90	19.01	18.98	20.2	0.0	
40	PI2 BPSK	1	108	18.97	18.94	18.91			
40	PI2 BPSK	1	214	18.87	18.96	18.93			
40	PI2 BPSK	108	0	18.93	18.95	18.93			
40	PI2 BPSK	108	54	18.93	18.95	18.95	20.2	0.0	
40	PI2 BPSK	108	108	18.96	18.95	18.88	20.2	0.0	
40	PI2 BPSK	216	0	18.98	19.01	18.85	20.2	0.0	
40	QPSK	1	1	19.08	19.11	19.06			
40	QPSK	1	108	18.99	18.92	18.92			
40	QPSK	1	214	18.90	18.90	18.88			
40	QPSK	108	0	18.96	18.90	18.85	20.2	0.0	
40	QPSK	108	54	18.90	18.96	18.99	20.2	0.0	
40	QPSK	108	108	18.94	18.99	18.95	20.2	0.0	
40	QPSK	216	0	18.97	19.07	18.92	20.2	0.0	
40	16QAM	1	1	18.90	18.90	18.88	20.2	0.0	
40	16QAM	1	1	18.95	18.97	18.95	20.2	0.0	
40	256QAM	1	1	18.94	18.97	18.95	19.5	0.7	
Channel							503600	507000	511000
Frequency (MHz)							2915	2935	2955
30	QPSK	1	1	18.98	18.94	18.93	20.2	0.0	
Channel							502900	507000	511000
Frequency (MHz)							2912.5	2935	2957.5
25	QPSK	1	1	18.97	18.96	18.93	20.2	0.0	
Channel							502300	507000	510500
Frequency (MHz)							2910	2935	2960
20	QPSK	1	1	18.92	18.93	18.92	20.2	0.0	
Channel							501900	507000	512000
Frequency (MHz)							2907.5	2935	2957.5
15	QPSK	1	1	18.88	18.95	18.92	20.2	0.0	
Channel							501000	507000	513000
Frequency (MHz)							2905	2935	2965
10	QPSK	1	1	18.98	19.02	18.91	20.2	0.0	
Channel							500600	507000	513500
Frequency (MHz)							2902.5	2935	2977.5
5	QPSK	1	1	18.98	19.01	18.89	20.2	0.0	

n66 Ant 2 DSI7									
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							346000	349000	352000
Frequency (MHz)							1720	1745	1750
40	PI2 BPSK	1	1	18.85	18.85	18.83	20.2	0.0	
40	PI2 BPSK	1	108	18.85	18.85	18.84			
40	PI2 BPSK	1	214	18.90	18.90	18.84			
40	PI2 BPSK	108	0	18.77	18.82	18.80			
40	PI2 BPSK	108	54	18.90	18.83	18.84	20.2	0.0	
40	PI2 BPSK	108	108	18.78	18.83	18.82	20.2	0.0	
40	PI2 BPSK	216	0	18.75	18.89	18.78	20.2	0.0	
40	QPSK	1	1	18.86	18.95	18.98			
40	QPSK	1	108	18.80	18.83	18.75			
40	QPSK	1	214	18.81	18.78	18.84			
40	QPSK	108	0	18.82	18.87	18.77	20.2	0.0	
40	QPSK	108	54	18.95	18.99	18.96	20.2	0.0	
40	QPSK	108	108	18.83	18.89	18.81	20.2	0.0	
40	QPSK	216	0	18.85	18.96	18.95	20.2	0.0	
40	16QAM	1	1	18.75	18.80	18.81	20.2	0.0	
40	16QAM	1	1	18.75	18.86	18.82	20.2	0.0	
40	256QAM	1	1	18.28	18.26	18.25	19.5	0.7	
Channel							345600	349000	352500
Frequency (MHz)							1727.5	1745	1762.5
35	QPSK	1	1	18.75	18.82	18.81	20.2	0.0	
Channel							345000	349000	353000
Frequency (MHz)							1725	1745	1765
30	QPSK	1	1	18.76	18.80	18.87	20.2	0.0	
Channel							344600	349000	353500
Frequency (MHz)							1722.5	1745	1787.5
25	QPSK	1	1	18.75	18.89	18.82	20.2	0.0	
Channel							344000	349000	354000
Frequency (MHz)							1720	1745	1770
20	QPSK	1	1	18.81	18.84	18.84	20.2	0.0	
Channel							343600	349000	354500
Frequency (MHz)							1717.5	1745	1772.5
15	QPSK	1	1	18.82	18.78	18.81	20.2	0.0	
Channel							343000	349000	355000
Frequency (MHz)							1715	1745	1775
10	QPSK	1	1	18.84	18.87	18.87	20.2	0.0	
Channel							342600	349000	355500
Frequency (MHz)							1712.5	1745	1777.5
5	QPSK	1	1	18.83	18.86	18.82	20.2	0.0	



n38 Ant 2 DSI7									
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							518004	519000	519996
Frequency (MHz)							2930.02	2936	2932.98
40	P12 BPSK	1	1	18.39	18.39	18.43			
40	P12 BPSK	1	53	18.37	18.38	18.41	19.5	0.0	
40	P12 BPSK	1	104	18.39	18.42	18.42			
40	P12 BPSK	50	0	18.37	18.45	18.43	19.5	0.0	
40	P12 BPSK	50	29	18.39	18.42	18.43	19.5	0.0	
40	P12 BPSK	50	56	18.47	18.49	18.38			
40	P12 BPSK	100	0	18.40	18.37	18.33	19.5	0.0	
40	QPSK	1	1	18.31	18.62	18.59			
40	QPSK	1	53	18.47	18.45	18.38	19.5	0.0	
40	QPSK	1	104	18.47	18.46	18.41			
40	QPSK	50	0	18.37	18.53	18.33	19.5	0.0	
40	QPSK	50	29	18.44	18.64	18.46	19.5	0.0	
40	QPSK	50	56	18.41	18.37	18.37			
40	QPSK	100	0	18.45	18.49	18.46	19.5	0.0	
40	16QAM	1	1	18.33	18.43	18.39	19.5	0.0	
40	64QAM	1	1	18.40	18.38	18.41	19.5	0.0	
40	256QAM	1	1	18.41	18.41	18.34	19.5	0.0	
Channel							517002	516000	509996
Frequency (MHz)							2935.01	2936	2934.99
30	QPSK	1	1	18.44	18.55	18.50	19.5	0.0	
Channel							516000	519000	522000
Frequency (MHz)							2580	2595	2610
20	QPSK	1	1	18.40	18.55	18.44	19.5	0.0	
Channel							515002	519000	522996
Frequency (MHz)							2977.51	2996	2914.49
15	QPSK	1	1	18.40	18.51	18.49	19.5	0.0	
Channel							515004	519000	522996
Frequency (MHz)							2979.02	2996	2914.98
10	QPSK	1	1	18.47	18.48	18.50	19.5	0.0	

n41 Ant 2 DSI7									
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							509002	518998	526000
Frequency (MHz)							2940.01	2932.99	2940
100	P12 BPSK	1	1	18.43	18.52	18.56			
100	P12 BPSK	1	137	18.46	18.50	18.46	19.5	0.0	
100	P12 BPSK	1	271	18.46	18.54	18.56			
100	P12 BPSK	135	0	18.43	18.57	18.51	19.5	0.0	
100	P12 BPSK	135	69	18.42	18.51	18.47	19.5	0.0	
100	P12 BPSK	135	138	18.52	18.56	18.51			
100	P12 BPSK	270	0	18.50	18.46	18.47	19.5	0.0	
100	QPSK	1	1	18.46	18.69	18.69			
100	QPSK	1	137	18.53	18.57	18.45	19.5	0.0	
100	QPSK	1	271	18.53	18.48	18.54			
100	QPSK	135	0	18.43	18.56	18.45	19.5	0.0	
100	QPSK	135	69	18.53	18.69	18.54	19.5	0.0	
100	QPSK	135	138	18.45	18.50	18.51			
100	QPSK	270	0	18.50	18.54	18.53	19.5	0.0	
100	16QAM	1	1	18.46	18.53	18.44	19.5	0.0	
100	64QAM	1	1	18.47	18.47	18.54	19.5	0.0	
100	256QAM	1	1	18.50	18.48	18.48	19.5	0.0	
Channel							508000	518998	526996
Frequency (MHz)							2941	2932.99	2944.98
80	QPSK	1	1	18.43	18.54	18.51	19.5	0.0	
Channel							507004	518998	526996
Frequency (MHz)							2638.02	2692.99	2649.99
80	QPSK	1	1	18.51	18.55	18.48	19.5	0.0	
Channel							506002	518998	531000
Frequency (MHz)							2631.01	2692.99	2656
70	QPSK	1	1	18.52	18.50	18.51	19.5	0.0	
Channel							505000	518998	531996
Frequency (MHz)							2629	2692.99	2659.98
60	QPSK	1	1	18.45	18.47	18.55	19.5	0.0	
Channel							504004	518998	532998
Frequency (MHz)							2621.02	2692.99	2664.99
50	QPSK	1	1	18.45	18.46	18.50	19.5	0.0	
Channel							503002	518998	534000
Frequency (MHz)							2618.01	2692.99	2670
40	QPSK	1	1	18.53	18.53	18.50	19.5	0.0	
Channel							502000	518998	534996
Frequency (MHz)							2611	2692.99	2674.98
30	QPSK	1	1	18.46	18.56	18.47	19.5	0.0	
Channel							501004	518998	535999
Frequency (MHz)							2608.02	2692.99	2679.99
20	QPSK	1	1	18.43	18.54	18.48	19.5	0.0	
Channel							500700	518998	536496
Frequency (MHz)							2603.05	2692.99	2682.48
15	QPSK	1	1	18.42	18.53	18.45	19.5	0.0	
Channel							500002	518998	537000
Frequency (MHz)							2591.01	2692.99	2680
10	QPSK	1	1	18.53	18.51	18.47	19.5	0.0	



Part270 n77 Ant 4 DS17

Channel	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					
Frequency (MHz)					
100	3750	3840	3930		
100	16.28	16.28	16.28	17.5	0.0
100	16.26	16.26	16.25	16.25	
100	16.33	16.25	16.23		
100	16.26	16.36	16.22	17.5	0.0
100	16.31	16.33	16.22	17.5	0.0
100	16.21	16.35	16.20		
100	16.32	16.26	16.26	17.5	0.0
100	16.46	16.46	16.41		
100	16.30	16.29	16.25	17.5	0.0
100	16.32	16.36	16.22		
100	16.30	16.33	16.29	17.5	0.0
100	16.40	16.44	16.38	17.5	0.0
100	16.30	16.37	16.26		
100	16.32	16.40	16.32	17.5	0.0
100	16.28	16.34	16.29	17.5	0.0
100	16.32	16.31	16.22	17.5	0.0
100	16.22	16.35	16.28	17.5	0.0
Channel					
Frequency (MHz)					
80	3742.02	3840	3935.01		
80	16.22	16.27	16.30	17.5	0.0
Channel					
Frequency (MHz)					
80	3740.01	3840	3940.00		
80	16.26	16.36	16.23	17.5	0.0
Channel					
Frequency (MHz)					
70	3735	3840	3945		
70	16.26	16.27	16.24	17.5	0.0
Channel					
Frequency (MHz)					
60	3720.02	3840	3950.01		
60	16.24	16.31	16.21	17.5	0.0
Channel					
Frequency (MHz)					
50	3725.01	3840	3955.00		
50	16.32	16.36	16.27	17.5	0.0
Channel					
Frequency (MHz)					
40	3720	3840	3960		
40	16.22	16.32	16.21	17.5	0.0
Channel					
Frequency (MHz)					
30	3718.02	3840	3965.01		
30	16.23	16.27	16.23	17.5	0.0
Channel					
Frequency (MHz)					
20	3710.01	3840	3970.00		
20	16.30	16.26	16.26	17.5	0.0
Channel					
Frequency (MHz)					
15	3705	3840	3975		
15	16.31	16.26	16.30	17.5	0.0
Channel					
Frequency (MHz)					
10	3705	3840	3975		
10	16.26	16.25	16.20	17.5	0.0

Part270 n77 HPUE Ant 4 DS17

Channel	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					
Frequency (MHz)					
100	3750	3840	3930		
100	19.23	19.27	19.28	20.5	0.0
100	19.21	19.32	19.20		
100	19.28	19.23	19.30		
100	19.26	19.24	19.23	20.5	0.0
100	19.32	19.28	19.28		
100	19.27	19.31	19.28		
100	19.30	19.29	19.23	20.5	0.0
100	19.42	19.46	19.44		
100	19.30	19.25	19.23	20.5	0.0
100	19.27	19.24	19.27		
100	19.23	19.25	19.21	20.5	0.0
100	19.40	19.42	19.38	20.5	0.0
100	19.22	19.28	19.28	20.5	0.0
100	19.32	19.38		20.5	0.0
100	19.23	19.33	19.27	20.5	0.0
100	19.28	19.26	19.26	20.5	0.0
100	19.33	19.30	19.30	20.5	0.0
Channel					
Frequency (MHz)					
80	3742.02	3840	3935.01		
80	19.26	19.23	19.21	20.5	0.0
Channel					
Frequency (MHz)					
80	3740.01	3840	3940.00		
80	19.24	19.25	19.24	20.5	0.0
Channel					
Frequency (MHz)					
70	3735	3840	3945		
70	19.31	19.32	19.20	20.5	0.0
Channel					
Frequency (MHz)					
60	3730.02	3840	3950.01		
60	19.21	19.24	19.25	20.5	0.0
Channel					
Frequency (MHz)					
50	3725.01	3840	3955.00		
50	19.24	19.33	19.24	20.5	0.0
Channel					
Frequency (MHz)					
40	3720	3840	3960		
40	19.25	19.31	19.21	20.5	0.0
Channel					
Frequency (MHz)					
30	3718.02	3840	3965.01		
30	19.31	19.31	19.23	20.5	0.0
Channel					
Frequency (MHz)					
20	3710.01	3840	3970.00		
20	19.26	19.26	19.23	20.5	0.0
Channel					
Frequency (MHz)					
15	3705	3840	3975		
15	19.25	19.34	19.24	20.5	0.0
Channel					
Frequency (MHz)					
10	3705	3840	3975		
10	19.31	19.25	19.25	20.5	0.0



Part270 n78 Ant 4 DSI7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mid Ch. / Freq	Power High Freq	Tune-up limit (dbm)	MFR (dB)	
Channel									
Frequency (MHz)				3750	3750	3750			
100	P2-BPSK	1	1	16.15	16.15		17.5	0.0	
100	P2-BPSK	1	137	16.18	16.18				
100	P2-BPSK	1	271	16.18	16.18				
100	P2-BPSK	135	0	16.32	16.32	17.5	0.0		
100	P2-BPSK	135	69	16.20	16.20	17.5	0.0		
100	P2-BPSK	135	138	16.28	16.28	17.5	0.0		
100	P2-BPSK	270	0	16.17	16.17				
100	QPSK	1	1	16.36	16.36		17.5	0.0	
100	QPSK	1	137	16.22	16.22				
100	QPSK	1	271	16.23	16.23				
100	QPSK	135	0	16.21	16.21	17.5	0.0		
100	QPSK	135	69	16.33	16.33	17.5	0.0		
100	QPSK	135	138	16.27	16.27	17.5	0.0		
100	QPSK	270	0	16.26	16.26				
100	16QAM	1	1	16.27	16.27	17.5	0.0		
100	64QAM	1	1	16.19	16.19	17.5	0.0		
100	256QAM	1	1	16.31	16.31	17.5	0.0		
Channel									
Frequency (MHz)				648668	650000	650334	Tune-up limit (dbm)	MFR (dB)	
90	QPSK	1	1	16.35	16.35	16.29	17.5	0.0	
Channel									
Frequency (MHz)				649334	650000	650668	Tune-up limit (dbm)	MFR (dB)	
80	QPSK	1	1	16.40	16.40	16.34	17.5	0.0	
Channel									
Frequency (MHz)				3735	3750	3765	Tune-up limit (dbm)	MFR (dB)	
70	QPSK	1	1	16.30	16.34	16.30	17.5	0.0	
Channel									
Frequency (MHz)				649998	650000	651334	Tune-up limit (dbm)	MFR (dB)	
60	QPSK	1	1	16.33	16.30	16.32	17.5	0.0	
Channel									
Frequency (MHz)				648334	650000	651668	Tune-up limit (dbm)	MFR (dB)	
50	QPSK	1	1	16.26	16.33	16.26	17.5	0.0	
Channel									
Frequency (MHz)				648000	650000	652000	Tune-up limit (dbm)	MFR (dB)	
40	QPSK	1	1	16.30	16.32	16.31	17.5	0.0	
Channel									
Frequency (MHz)				647668	650000	652334	Tune-up limit (dbm)	MFR (dB)	
30	QPSK	1	1	16.30	16.34	16.30	17.5	0.0	
Channel									
Frequency (MHz)				647334	650000	652668	Tune-up limit (dbm)	MFR (dB)	
20	QPSK	1	1	16.28	16.29	16.27	17.5	0.0	
Channel									
Frequency (MHz)				647168	650000	652834	Tune-up limit (dbm)	MFR (dB)	
15	QPSK	1	1	16.32	16.31	16.28	17.5	0.0	
Channel									
Frequency (MHz)				647000	650000	653000	Tune-up limit (dbm)	MFR (dB)	
10	QPSK	1	1	16.34	16.34	16.24	17.5	0.0	

Part270 n78 HPUE Ant 4 DSI7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mid Ch. / Freq	Power High Freq	Tune-up limit (dbm)	MFR (dB)	
Channel									
Frequency (MHz)				3750	3750	3750			
100	P2-BPSK	1	1	19.22	19.22		20.5	0.0	
100	P2-BPSK	1	137	19.20	19.20				
100	P2-BPSK	1	271	19.14	19.14				
100	P2-BPSK	135	0	19.10	19.10	20.5	0.0		
100	P2-BPSK	135	69	19.14	19.14	20.5	0.0		
100	P2-BPSK	135	138	19.20	19.20	20.5	0.0		
100	P2-BPSK	270	0	19.25	19.25				
100	QPSK	1	1	19.41	19.41		20.5	0.0	
100	QPSK	1	137	19.15	19.15				
100	QPSK	1	271	19.16	19.16				
100	QPSK	135	0	19.19	19.19	20.5	0.0		
100	QPSK	135	69	19.32	19.32	20.5	0.0		
100	QPSK	135	138	19.23	19.23	20.5	0.0		
100	QPSK	270	0	19.26	19.26				
100	16QAM	1	1	19.28	19.28	20.5	0.0		
100	64QAM	1	1	19.16	19.16	20.5	0.0		
100	256QAM	1	1	19.23	19.23	20.5	0.0		
Channel									
Frequency (MHz)				648668	650000	650334	Tune-up limit (dbm)	MFR (dB)	
80	QPSK	1	1	19.23	19.36	19.27	20.5	0.0	
Channel									
Frequency (MHz)				649334	650000	650668	Tune-up limit (dbm)	MFR (dB)	
80	QPSK	1	1	19.31	19.26	19.26	20.5	0.0	
Channel									
Frequency (MHz)				3735	3750	3765	Tune-up limit (dbm)	MFR (dB)	
70	QPSK	1	1	19.27	19.36	19.36	20.5	0.0	
Channel									
Frequency (MHz)				649998	650000	651334	Tune-up limit (dbm)	MFR (dB)	
60	QPSK	1	1	19.27	19.31	19.25	20.5	0.0	
Channel									
Frequency (MHz)				648334	650000	651668	Tune-up limit (dbm)	MFR (dB)	
50	QPSK	1	1	19.31	19.26	19.25	20.5	0.0	
Channel									
Frequency (MHz)				648000	650000	652000	Tune-up limit (dbm)	MFR (dB)	
40	QPSK	1	1	19.25	19.27	19.25	20.5	0.0	
Channel									
Frequency (MHz)				647668	650000	652334	Tune-up limit (dbm)	MFR (dB)	
30	QPSK	1	1	19.32	19.30	19.36	20.5	0.0	
Channel									
Frequency (MHz)				647334	650000	652668	Tune-up limit (dbm)	MFR (dB)	
20	QPSK	1	1	19.26	19.34	19.31	20.5	0.0	
Channel									
Frequency (MHz)				647168	650000	652834	Tune-up limit (dbm)	MFR (dB)	
15	QPSK	1	1	19.24	19.32	19.33	20.5	0.0	
Channel									
Frequency (MHz)				647000	650000	653000	Tune-up limit (dbm)	MFR (dB)	
10	QPSK	1	1	19.26	19.26	19.27	20.5	0.0	



Part270 n77 Ant 5 DSI7										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Main Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	11.73	11.74	11.75	13.5	0.0		
100	PI2 BPSK	1	137	11.75	11.75	11.77	13.5	0.0		
100	PI2 BPSK	1	271	11.80	11.74	11.74	13.5	0.0		
100	PI2 BPSK	135	0	11.79	11.81	11.73	13.5	0.0		
100	PI2 BPSK	135	69	11.78	11.84	11.82	13.5	0.0		
100	PI2 BPSK	135	138	11.79	11.85	11.78	13.5	0.0		
100	PI2 BPSK	270	0	11.70	11.81	11.79	13.5	0.0		
100	QPSK	1	1	11.90	11.90	11.92	13.5	0.0		
100	QPSK	1	137	11.78	11.75	11.76	13.5	0.0		
100	QPSK	1	271	11.76	11.81	11.73	13.5	0.0		
100	QPSK	135	0	11.81	11.80	11.80	13.5	0.0		
100	QPSK	135	69	11.84	11.83	11.78	13.5	0.0		
100	QPSK	135	138	11.78	11.78	11.74	13.5	0.0		
100	QPSK	270	0	11.80	11.88	11.83	13.5	0.0		
100	16QAM	1	1	11.78	11.86	11.79	13.5	0.0		
100	16QAM	1	1	11.72	11.81	11.73	13.5	0.0		
100	256QAM	1	1	11.77	11.77	11.74	13.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	11.74	11.85	11.73	13.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	11.77	11.83	11.78	13.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	11.71	11.85	11.82	13.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	11.75	11.74	11.77	13.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	11.80	11.77	11.81	13.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	11.72	11.83	11.82	13.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	11.78	11.86	11.78	13.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	11.79	11.83	11.82	13.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	11.81	11.82	11.73	13.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	0	11.81	11.82	11.82	13.5	0.0		

Part270 n77 HPUE Ant 5 DSI7										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Main Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	14.84	14.82	14.83	16.5	0.0		
100	PI2 BPSK	1	137	14.86	14.85	14.77	16.5	0.0		
100	PI2 BPSK	1	271	14.82	14.87	14.76	16.5	0.0		
100	PI2 BPSK	135	0	14.83	14.79	14.75	16.5	0.0		
100	PI2 BPSK	135	69	14.83	14.87	14.82	16.5	0.0		
100	PI2 BPSK	135	138	14.81	14.82	14.77	16.5	0.0		
100	PI2 BPSK	270	0	14.77	14.89	14.82	16.5	0.0		
100	QPSK	1	1	14.96	14.96	14.93	16.5	0.0		
100	QPSK	1	137	14.85	14.85	14.82	16.5	0.0		
100	QPSK	1	271	14.81	14.87	14.79	16.5	0.0		
100	QPSK	135	0	14.81	14.79	14.77	16.5	0.0		
100	QPSK	135	69	14.80	14.83	14.82	16.5	0.0		
100	QPSK	135	138	14.78	14.79	14.81	16.5	0.0		
100	QPSK	270	0	14.86	14.89	14.85	16.5	0.0		
100	16QAM	1	1	14.79	14.85	14.84	16.5	0.0		
100	16QAM	1	1	14.85	14.80	14.80	16.5	0.0		
100	256QAM	1	1	14.78	14.79	14.84	16.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	14.81	14.84	14.83	16.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	14.75	14.80	14.78	16.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	14.76	14.82	14.72	16.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	14.80	14.79	14.79	16.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	14.84	14.83	14.79	16.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	14.74	14.79	14.82	16.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	14.78	14.80	14.76	16.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	14.79	14.80	14.83	16.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	14.77	14.82	14.77	16.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	14.83	14.83	14.74	16.5	0.0		



Part270 n78 Ant 5 DSI7								
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	P2/BPSK	1	1	3750	3750	3750		
100	P2/BPSK	1	137	11.68	11.68		13.5	0.0
100	P2/BPSK	1	271	11.68	11.68			
100	P2/BPSK	135	0	11.71	11.71		13.5	0.0
100	P2/BPSK	135	69	11.69	11.69		13.5	0.0
100	P2/BPSK	135	138	11.79	11.79		13.5	0.0
100	P2/BPSK	270	0	11.70	11.70			
100	QPSK	1	1	11.68	11.68			
100	QPSK	1	137	11.62	11.62		13.5	0.0
100	QPSK	1	271	11.67	11.67			
100	QPSK	135	0	11.72	11.72		13.5	0.0
100	QPSK	135	69	11.78	11.78		13.5	0.0
100	QPSK	135	138	11.69	11.69		13.5	0.0
100	QPSK	270	0	11.77	11.77			
100	16QAM	1	1	11.78	11.78		13.5	0.0
100	64QAM	1	1	11.68	11.68		13.5	0.0
100	256QAM	1	1	11.73	11.73		13.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	3745.02	3750	3755.01		
Channel								
Frequency (MHz)								
80	QPSK	1	1	3740.01	3750	3760.02		
Channel								
Frequency (MHz)								
70	QPSK	1	1	3735	3750	3765		
Channel								
Frequency (MHz)								
60	QPSK	1	1	3730.02	3750	3750.01		
Channel								
Frequency (MHz)								
50	QPSK	1	1	3725.01	3750	3725.02		
Channel								
Frequency (MHz)								
40	QPSK	1	1	3715.02	3750	3765.01		
Channel								
Frequency (MHz)								
30	QPSK	1	1	3710.01	3750	3750.02		
Channel								
Frequency (MHz)								
20	QPSK	1	1	3705.02	3750	3750.01		
Channel								
Frequency (MHz)								
15	QPSK	1	1	3700.01	3750	3725.01		
Channel								
Frequency (MHz)								
10	QPSK	1	1	3695.02	3750	3725.01		

Part270 n78 HPUE Ant 5 DSI7								
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	P2/BPSK	1	1	3750	3750	3750		
100	P2/BPSK	1	137	14.81	14.81		16.5	0.0
100	P2/BPSK	1	271	14.76	14.76			
100	P2/BPSK	135	0	14.74	14.74		16.5	0.0
100	P2/BPSK	135	69	14.77	14.77		16.5	0.0
100	P2/BPSK	135	138	14.71	14.71		16.5	0.0
100	P2/BPSK	270	0	14.76	14.76			
100	QPSK	1	1	14.86	14.86			
100	QPSK	1	137	14.76	14.76		16.5	0.0
100	QPSK	1	271	14.72	14.72			
100	QPSK	135	0	14.68	14.68		16.5	0.0
100	QPSK	135	69	14.81	14.81		16.5	0.0
100	QPSK	135	138	14.65	14.65		16.5	0.0
100	QPSK	270	0	14.80	14.80			
100	16QAM	1	1	14.78	14.78		16.5	0.0
100	64QAM	1	1	14.69	14.69		16.5	0.0
100	256QAM	1	1	14.70	14.70		16.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	3745.02	3750	3755.01		
Channel								
Frequency (MHz)								
80	QPSK	1	1	3740.01	3750	3760.02		
Channel								
Frequency (MHz)								
70	QPSK	1	1	3735	3750	3765		
Channel								
Frequency (MHz)								
60	QPSK	1	1	3730.02	3750	3750.01		
Channel								
Frequency (MHz)								
50	QPSK	1	1	3725.01	3750	3725.02		
Channel								
Frequency (MHz)								
40	QPSK	1	1	3715.02	3750	3765.01		
Channel								
Frequency (MHz)								
30	QPSK	1	1	3710.01	3750	3750.02		
Channel								
Frequency (MHz)								
20	QPSK	1	1	3705.02	3750	3750.01		
Channel								
Frequency (MHz)								
15	QPSK	1	1	3700.01	3750	3725.01		
Channel								
Frequency (MHz)								
10	QPSK	1	1	3695.02	3750	3725.01		



Part270 n77 Ant 7 DS17

Channel	Power Low Ch. / Freq	Power Mid Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel	650000	656000	662000		
Frequency (MHz)					
100	3705	3740	3770		
100	14.45	14.41	14.33		
100	14.42	14.42	14.36	15.4	0.0
100	14.36	14.46	14.36		
100	14.38	14.42	14.33	15.4	0.0
100	14.38	14.41	14.39	15.4	0.0
100	14.38	14.46	14.43		
100	14.40	14.46	14.43	15.4	0.0
100	14.35	14.41	14.40		
100	14.39	14.36	14.36		
100	14.34	14.38	14.37	15.4	0.0
100	14.41	14.39	14.35		
100	14.38	14.46	14.42	15.4	0.0
100	14.36	14.36	14.53	15.4	0.0
100	14.42	14.40	14.36		
100	14.42	14.43	14.43	15.4	0.0
100	14.44	14.51	14.41		
100	14.40	14.37	14.42	15.4	0.0
100	14.43	14.46	14.33	15.4	0.0
100	14.40	14.40	14.38	15.4	0.0
Channel					
80	649668	656000	662334	Tune-up limit	MPR
Frequency (MHz)					
80	3742.02	3740	3735.01	(dBm)	(dB)
80	14.39	14.38	14.38	15.4	0.0
Channel					
80	649334	656000	662668	Tune-up limit	MPR
Frequency (MHz)					
80	3740.01	3740	3740.02	(dBm)	(dB)
80	14.46	14.39	14.42	15.4	0.0
Channel					
70	649000	656000	663000	Tune-up limit	MPR
Frequency (MHz)					
70	3735	3740	3745	(dBm)	(dB)
70	14.35	14.47	14.40	15.4	0.0
Channel					
60	648668	656000	663334	Tune-up limit	MPR
Frequency (MHz)					
60	3730.02	3740	3750.02	(dBm)	(dB)
60	14.35	14.42	14.34	15.4	0.0
Channel					
50	648334	656000	663668	Tune-up limit	MPR
Frequency (MHz)					
50	3728.01	3740	3758.02	(dBm)	(dB)
50	14.37	14.48	14.33	15.4	0.0
Channel					
40	648000	656000	664000	Tune-up limit	MPR
Frequency (MHz)					
40	3720	3740	3760	(dBm)	(dB)
40	14.41	14.37	14.39	15.4	0.0
Channel					
30	647668	656000	664334	Tune-up limit	MPR
Frequency (MHz)					
30	3718.02	3740	3750.01	(dBm)	(dB)
30	14.41	14.41	14.41	15.4	0.0
Channel					
20	647334	656000	664668	Tune-up limit	MPR
Frequency (MHz)					
20	3710.01	3740	3770.02	(dBm)	(dB)
20	14.41	14.42	14.39	15.4	0.0
Channel					
15	647000	656000	665000	Tune-up limit	MPR
Frequency (MHz)					
15	3705	3740	3775	(dBm)	(dB)
15	14.44	14.45	14.43	15.4	0.0
Channel					
10	646668	656000	665334	Tune-up limit	MPR
Frequency (MHz)					
10	3700	3740	3775	(dBm)	(dB)
10	14.45	14.47	14.35	15.4	0.0

Part270 n77 HPUE Ant 7 DS17

Channel	Power Low Ch. / Freq	Power Mid Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel	650000	656000	662000		
Frequency (MHz)					
100	3705	3740	3770		
100	17.41	17.43	17.43		
100	17.48	17.48	17.45	18.4	0.0
100	17.45	17.48	17.37		
100	17.49	17.51	17.45	18.4	0.0
100	17.43	17.47	17.38	18.4	0.0
100	17.46	17.50	17.47		
100	17.49	17.52	17.46	18.4	0.0
100	17.52	17.46	17.44		
100	17.48	17.46	17.47	18.4	0.0
100	17.47	17.52	17.40	18.4	0.0
100	17.60	17.53	17.58	18.4	0.0
100	17.42	17.43	17.43	18.4	0.0
100	17.44	17.56	17.46	18.4	0.0
100	17.40	17.51	17.49	18.4	0.0
100	17.46	17.50	17.39	18.4	0.0
100	17.49	17.43	17.47	18.4	0.0
Channel					
80	649668	656000	662334	Tune-up limit	MPR
Frequency (MHz)					
80	3742.02	3740	3735.01	(dBm)	(dB)
80	17.44	17.45	17.44	18.4	0.0
Channel					
80	649334	656000	662668	Tune-up limit	MPR
Frequency (MHz)					
80	3740.01	3740	3740.02	(dBm)	(dB)
80	17.46	17.50	17.45	18.4	0.0
Channel					
70	649000	656000	663000	Tune-up limit	MPR
Frequency (MHz)					
70	3735	3740	3745	(dBm)	(dB)
70	17.48	17.44	17.49	18.4	0.0
Channel					
60	648668	656000	663334	Tune-up limit	MPR
Frequency (MHz)					
60	3730.02	3740	3750.02	(dBm)	(dB)
60	17.46	17.50	17.48	18.4	0.0
Channel					
50	648334	656000	663668	Tune-up limit	MPR
Frequency (MHz)					
50	3728.01	3740	3758.02	(dBm)	(dB)
50	17.43	17.46	17.46	18.4	0.0
Channel					
40	648000	656000	664000	Tune-up limit	MPR
Frequency (MHz)					
40	3720	3740	3760	(dBm)	(dB)
40	17.43	17.51	17.40	18.4	0.0
Channel					
30	647668	656000	664334	Tune-up limit	MPR
Frequency (MHz)					
30	3718.02	3740	3750.01	(dBm)	(dB)
30	17.42	17.42	17.37	18.4	0.0
Channel					
20	647334	656000	664668	Tune-up limit	MPR
Frequency (MHz)					
20	3710.01	3740	3770.02	(dBm)	(dB)
20	17.43	17.43	17.48	18.4	0.0
Channel					
15	647000	656000	665000	Tune-up limit	MPR
Frequency (MHz)					
15	3705	3740	3775	(dBm)	(dB)
15	17.43	17.52	17.38	18.4	0.0
Channel					
10	646668	656000	665334	Tune-up limit	MPR
Frequency (MHz)					
10	3700	3740	3775	(dBm)	(dB)
10	17.45	17.43	17.44	18.4	0.0



Part270 n78 Ant 7 DSI7									
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)									
100	P2/BPSK	1	1	3750	3750	3750			
100	P2/BPSK	1	137		14.32		15.4	0.0	
100	P2/BPSK	1	271		14.33				
100	P2/BPSK	135	0		14.35		15.4	0.0	
100	P2/BPSK	135	69		14.31		15.4	0.0	
100	P2/BPSK	135	138		14.34		15.4	0.0	
100	P2/BPSK	270	0		14.35				
100	QPSK	1	1		14.37				
100	QPSK	1	137		14.29		15.4	0.0	
100	QPSK	1	271		14.28				
100	QPSK	135	0		14.40		15.4	0.0	
100	QPSK	135	69		14.44		15.4	0.0	
100	QPSK	135	138		14.32		15.4	0.0	
100	QPSK	270	0		14.41				
100	16QAM	1	1		14.29		15.4	0.0	
100	64QAM	1	1		14.41		15.4	0.0	
100	256QAM	1	1		14.32		15.4	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	64868	65000	65034	Tune-up limit	MFR	
				3745.02	3750	3753.01	(dbm)	(dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	64934	65000	65068	Tune-up limit	MFR	
				3740.01	3750	3760.02	(dbm)	(dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	64900	65000	65000	Tune-up limit	MFR	
				3735	3750	3765	(dbm)	(dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	64834	65000	65168	Tune-up limit	MFR	
				3726.01	3750	3776.02	(dbm)	(dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	64800	65000	65000	Tune-up limit	MFR	
				3720	3750	3780	(dbm)	(dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	64768	65000	65234	Tune-up limit	MFR	
				3715.02	3750	3785.01	(dbm)	(dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	64734	65000	65268	Tune-up limit	MFR	
				3710.01	3750	3790.02	(dbm)	(dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	64700	65000	65300	Tune-up limit	MFR	
				3705	3750	3795	(dbm)	(dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	64700	65000	65300	Tune-up limit	MFR	
				3705	3750	3795	(dbm)	(dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	64700	65000	65300	Tune-up limit	MFR	
				3705	3750	3795	(dbm)	(dB)	

Part270 n78 HPUE Ant 7 DSI7									
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)									
100	P2/BPSK	1	1	3750	3750	3750			
100	P2/BPSK	1	137		17.41		18.4	0.0	
100	P2/BPSK	1	271		17.34				
100	P2/BPSK	135	0		17.47		18.4	0.0	
100	P2/BPSK	135	69		17.34		18.4	0.0	
100	P2/BPSK	135	138		17.42		18.4	0.0	
100	P2/BPSK	270	0		17.41				
100	QPSK	1	1		17.37				
100	QPSK	1	137		17.35		18.4	0.0	
100	QPSK	1	271		17.42				
100	QPSK	135	0		17.47		18.4	0.0	
100	QPSK	135	69		17.38		18.4	0.0	
100	QPSK	135	138		17.31		18.4	0.0	
100	QPSK	270	0		17.42				
100	16QAM	1	1		17.42		18.4	0.0	
100	64QAM	1	1		17.44		18.4	0.0	
100	256QAM	1	1		17.32		18.4	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	64968	65000	65034	Tune-up limit	MFR	
				3745.02	3750	3758.01	(dbm)	(dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	64934	65000	65068	Tune-up limit	MFR	
				3740.01	3750	3760.02	(dbm)	(dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	64900	65000	65100	Tune-up limit	MFR	
				3735	3750	3765	(dbm)	(dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	64868	65000	65134	Tune-up limit	MFR	
				3730.02	3750	3770.01	(dbm)	(dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	64834	65000	65168	Tune-up limit	MFR	
				3725.01	3750	3775.02	(dbm)	(dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	64800	65000	65200	Tune-up limit	MFR	
				3720	3750	3780	(dbm)	(dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	64768	65000	65234	Tune-up limit	MFR	
				3715.02	3750	3785.01	(dbm)	(dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	64734	65000	65268	Tune-up limit	MFR	
				3710.01	3750	3790.02	(dbm)	(dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	64700	65000	65300	Tune-up limit	MFR	
				3705	3750	3795	(dbm)	(dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	64700	65000	65300	Tune-up limit	MFR	
				3705	3750	3795	(dbm)	(dB)	

**Part270 n77 Ant 8 DS17**

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)				650000	650000	650000		
100	P12 BPSK	1	1	3705	3840	3975		
100	P12 BPSK	1	137	20.03	20.05	20.13	21.3	0.0
100	P12 BPSK	1	271	20.09	20.12	20.06		
100	P12 BPSK	136	0	20.07	20.16	20.02	21.3	0.0
100	P12 BPSK	136	69	20.01	20.09	20.10	21.3	0.0
100	P12 BPSK	136	138	20.08	20.04	20.10		
100	P12 BPSK	270	0	20.07	20.11	20.10	21.3	0.0
100	QPSK	1	1	20.20	20.20	20.22		
100	QPSK	1	137	20.00	20.11	20.03	21.3	0.0
100	QPSK	1	271	20.07	20.05	20.06		
100	QPSK	136	0	20.04	20.12	20.06	21.3	0.0
100	QPSK	136	69	20.17	20.21	20.06	21.3	0.0
100	QPSK	136	138	20.01	20.04	20.06		
100	QPSK	270	0	20.07	20.15	20.09	21.3	0.0
100	16QAM	1	1	20.08	20.11	20.07	21.3	0.0
100	16QAM	1	1	20.01	20.07	20.06	21.3	0.0
100	25QAM	1	1	18.42	18.45	18.40	19.5	1.8
Channel								
Frequency (MHz)				649668	650000	652334	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3742.02	3840	3925.01		
Channel								
Frequency (MHz)				649334	650000	652668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.09	20.06	20.13	21.3	0.0
Channel								
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	20.09	20.05	20.02	21.3	0.0
Channel								
Frequency (MHz)				648968	650000	652334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	20.10	20.05	20.06	21.3	0.0
Channel								
Frequency (MHz)				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	20.01	20.07	20.13	21.3	0.0
Channel								
Frequency (MHz)				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	3720	3840	3960		
Channel								
Frequency (MHz)				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	3715.02	3840	3955.01		
Channel								
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	20.00	20.11	20.08	21.3	0.0
Channel								
Frequency (MHz)				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	20.11	20.05	20.11	21.3	0.0
Channel								
Frequency (MHz)				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	3705	3840	3975		
10	QPSK	1	0	20.11	20.14	20.06	21.3	0.0

Part270 n77 HPUE Ant 8 DS17

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)				650000	650000	650000		
100	P12 BPSK	1	1	3705	3840	3975		
100	P12 BPSK	1	137	23.18	23.21	23.17	24.3	0.0
100	P12 BPSK	1	271	23.15	23.10	23.09		
100	P12 BPSK	136	0	23.17	23.11	23.06	24.3	0.0
100	P12 BPSK	136	69	23.08	23.13	23.10	24.3	0.0
100	P12 BPSK	136	138	23.12	23.11	23.07		
100	P12 BPSK	270	0	23.08	23.13	23.10	24.3	0.0
100	QPSK	1	1	23.28	23.31	23.28		
100	QPSK	1	137	23.10	23.10	23.17	24.3	0.0
100	QPSK	1	271	23.11	23.20	23.16		
100	QPSK	136	0	23.15	23.18	23.06	24.3	0.0
100	QPSK	136	69	23.23	23.27	23.24	24.3	0.0
100	QPSK	136	138	23.13	23.20	23.09		
100	QPSK	270	0	23.22	23.25	23.22	24.3	0.0
100	16QAM	1	1	23.19	23.13	23.10	24.3	0.0
100	16QAM	1	1	23.12	23.12	23.16	24.3	0.0
100	25QAM	1	1	21.37	21.43	21.42	22.4	1.9
Channel								
Frequency (MHz)				649668	650000	652334	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3742.02	3840	3925.01		
Channel								
Frequency (MHz)				649334	650000	652668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	23.14	23.18	23.07	24.3	0.0
Channel								
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	23.15	23.14	23.11	24.3	0.0
Channel								
Frequency (MHz)				648968	650000	652334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	23.15	23.20	23.13	24.3	0.0
Channel								
Frequency (MHz)				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	23.14	23.12	23.16	24.3	0.0
Channel								
Frequency (MHz)				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	3720	3840	3960		
Channel								
Frequency (MHz)				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	3715.02	3840	3955.01		
Channel								
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	23.14	23.19	23.17	24.3	0.0
Channel								
Frequency (MHz)				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	23.10	23.18	23.13	24.3	0.0
Channel								
Frequency (MHz)				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	3705	3840	3975		
10	QPSK	1	0	23.17	23.14	23.08	24.3	0.0



Part270 n78 Ant 8 DSI7							
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	MPR (dB)
				Low Ch. / Freq	Mid Ch. / Freq	High Ch. / Freq	
Channel							
				3750	3750	3750	
Frequency (MHz)							
100	PI2 BPSK	1	1	19.93	19.99		21.3 0.0
100	PI2 BPSK	1	137	19.99			
100	PI2 BPSK	1	271	19.99			
100	PI2 BPSK	135	0	20.05			21.3 0.0
100	PI2 BPSK	135	69	19.91			21.3 0.0
100	PI2 BPSK	135	138	19.95			
100	PI2 BPSK	270	0	20.02			21.3 0.0
100	QPSK	1	1	20.08			
100	QPSK	1	137	20.04			21.3 0.0
100	QPSK	1	271	19.95			
100	QPSK	135	0	20.02			21.3 0.0
100	QPSK	135	69	20.08			21.3 0.0
100	QPSK	135	138	19.87			
100	QPSK	270	0	20.00			21.3 0.0
100	16QAM	1	1	19.99			21.3 0.0
100	64QAM	1	1	19.97			21.3 0.0
100	256QAM	1	1	19.31			19.5 1.8
Channel							
				648668	650000	650334	Tune-up limit (dBm) MPR
Frequency (MHz)							
90	QPSK	1	1	20.02	19.90	19.87	21.3 0.0
Channel							
				649334	650000	650668	Tune-up limit (dBm) MPR
Frequency (MHz)							
80	QPSK	1	1	20.02	19.95	19.90	21.3 0.0
Channel							
				3735	3750	3765	Tune-up limit (dBm) MPR
Frequency (MHz)							
70	QPSK	1	1	19.94	19.92	20.05	21.3 0.0
Channel							
				649998	650000	651334	Tune-up limit (dBm) MPR
Frequency (MHz)							
60	QPSK	1	1	20.00	19.93	20.06	21.3 0.0
Channel							
				648334	650000	651668	Tune-up limit (dBm) MPR
Frequency (MHz)							
50	QPSK	1	1	19.91	19.99	20.02	21.3 0.0
Channel							
				648000	650000	652000	Tune-up limit (dBm) MPR
Frequency (MHz)							
40	QPSK	1	1	20.24	19.91	20.01	21.3 0.0
Channel							
				647668	650000	652334	Tune-up limit (dBm) MPR
Frequency (MHz)							
30	QPSK	1	1	19.91	19.90	20.02	21.3 0.0
Channel							
				647334	650000	652668	Tune-up limit (dBm) MPR
Frequency (MHz)							
20	QPSK	1	1	19.93	19.96	20.06	21.3 0.0
Channel							
				647168	650000	652834	Tune-up limit (dBm) MPR
Frequency (MHz)							
15	QPSK	1	1	19.98	19.96	20.07	21.3 0.0
Channel							
				647000	650000	653000	Tune-up limit (dBm) MPR
Frequency (MHz)							
10	QPSK	1	0	20.02	19.96	20.03	21.3 0.0

Part270 n78 HPUE Ant 8 DSI7							
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	MPR (dB)
				Low Ch. / Freq	Mid Ch. / Freq	High Ch. / Freq	
Channel							
				3750	3750	3750	
Frequency (MHz)							
100	PI2 BPSK	1	1	23.12			24.3 0.0
100	PI2 BPSK	1	137	23.07			
100	PI2 BPSK	1	271	22.93			
100	PI2 BPSK	135	0	23.03			24.3 0.0
100	PI2 BPSK	135	69	23.06			24.3 0.0
100	PI2 BPSK	135	138	22.99			
100	PI2 BPSK	270	0	22.98			24.3 0.0
100	QPSK	1	1	23.20			
100	QPSK	1	137	23.04			24.3 0.0
100	QPSK	1	271	23.02			
100	QPSK	135	0	23.09			24.3 0.0
100	QPSK	135	69	23.18			24.3 0.0
100	QPSK	135	138	23.03			
100	QPSK	270	0	23.08			24.3 0.0
100	16QAM	1	1	23.05			24.3 0.0
100	64QAM	1	1	23.94			24.3 0.0
100	256QAM	1	1	21.30			22.4 1.9
Channel							
				648668	650000	650334	Tune-up limit (dBm) MPR
Frequency (MHz)							
90	QPSK	1	1	23.09	23.06	22.94	24.3 0.0
Channel							
				649334	650000	650668	Tune-up limit (dBm) MPR
Frequency (MHz)							
80	QPSK	1	1	22.99	23.10	23.00	24.3 0.0
Channel							
				3735	3750	3765	Tune-up limit (dBm) MPR
Frequency (MHz)							
70	QPSK	1	1	23.06	23.08	22.90	24.3 0.0
Channel							
				649998	650000	651334	Tune-up limit (dBm) MPR
Frequency (MHz)							
60	QPSK	1	1	23.02	23.06	22.99	24.3 0.0
Channel							
				648334	650000	651668	Tune-up limit (dBm) MPR
Frequency (MHz)							
50	QPSK	1	1	22.99	23.09	23.01	24.3 0.0
Channel							
				648000	650000	652000	Tune-up limit (dBm) MPR
Frequency (MHz)							
40	QPSK	1	1	23.27	23.01	22.90	24.3 0.0
Channel							
				647668	650000	652334	Tune-up limit (dBm) MPR
Frequency (MHz)							
30	QPSK	1	1	23.01	23.01	22.90	24.3 0.0
Channel							
				647334	650000	652668	Tune-up limit (dBm) MPR
Frequency (MHz)							
20	QPSK	1	1	23.07	23.02	22.90	24.3 0.0
Channel							
				647168	650000	652834	Tune-up limit (dBm) MPR
Frequency (MHz)							
15	QPSK	1	1	23.00	23.11	22.90	24.3 0.0
Channel							
				647000	650000	653000	Tune-up limit (dBm) MPR
Frequency (MHz)							
10	QPSK	1	0	22.99	23.02	22.94	24.3 0.0



n38 Ant 10 DSI7								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Midse Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	19.72	19.74	19.72		
40	PI2 BPSK	1	53	19.78	19.83	19.84	21.3	0.0
40	PI2 BPSK	1	104	19.77	19.78	19.73		
40	PI2 BPSK	50	0	19.82	19.75	19.83	21.3	0.0
40	PI2 BPSK	50	59	19.73	19.71	19.74	21.3	0.0
40	PI2 BPSK	50	56	19.75	19.74	19.76	21.3	0.0
40	PI2 BPSK	100	0	19.85	19.76	19.71		
40	QPSK	1	1	19.88	19.84	19.87		
40	QPSK	1	53	19.89	19.76	19.89	21.3	0.0
40	QPSK	1	104	19.81	19.77	19.78		
40	QPSK	50	0	19.85	19.76	19.87	21.3	0.0
40	QPSK	50	28	19.92	19.92	19.78	21.3	0.0
40	QPSK	50	50	19.80	19.78	19.83		
40	QPSK	100	0	19.78	19.81	19.80	21.3	0.0
40	16QAM	1	1	19.74	19.73	19.78	21.3	0.0
40	64QAM	1	1	19.76	19.80	19.78	21.3	0.0
40	256QAM	1	1	19.82	19.89	19.89	19.5	1.8
Channel								
Frequency (MHz)								
30	QPSK	1	1	29.85	29.91	29.94		
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.80	19.83	19.74	21.3	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.80	19.83	19.82	21.3	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.75	19.90	19.78	21.3	0.0

n41 Ant 10 DSI7								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Midse Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.83	19.83	19.85		
100	PI2 BPSK	1	137	19.89	19.87	19.87	21.3	0.0
100	PI2 BPSK	1	271	19.84	19.87	19.82		
100	PI2 BPSK	135	0	19.86	19.87	19.87	21.3	0.0
100	PI2 BPSK	135	69	19.83	19.85	19.87	21.3	0.0
100	PI2 BPSK	135	138	19.82	19.83	19.83	21.3	0.0
100	PI2 BPSK	270	0	19.91	19.89	19.84		
100	QPSK	1	1	19.96	19.90	19.95		
100	QPSK	1	137	19.84	19.86	19.83	21.3	0.0
100	QPSK	1	271	19.87	19.84	19.83		
100	QPSK	135	0	19.91	19.82	19.81	21.3	0.0
100	QPSK	135	69	19.93	19.86	19.83	21.3	0.0
100	QPSK	135	138	19.90	19.85	19.88		
100	QPSK	270	0	19.88	19.83	19.82	21.3	0.0
100	16QAM	1	1	19.83	19.82	19.83	21.3	0.0
100	64QAM	1	1	19.86	19.87	19.83	21.3	0.0
100	256QAM	1	1	18.15	18.15	18.10	19.5	1.8
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.83	19.85	19.87	21.3	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.83	19.83	19.78	21.3	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.87	19.88	19.86	21.3	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.87	19.82	19.76	21.3	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.86	19.86	19.87	21.3	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.85	19.89	19.80	21.3	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.87	19.87	19.79	21.3	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.81	19.87	19.83	21.3	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.85	19.83	19.83	21.3	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.83	19.87	19.79	21.3	0.0



Reduced Power Mode for Other PA DSI7

n2 Ant 1 DSI7											
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				372000	376000	380000					
Frequency (MHz)				1860	1880	1900					
20	PI2 BPSK	1	1	13.18	13.30	13.13					
20	PI2 BPSK	1	53	13.22	13.20	13.20	14.5	0.0			
20	PI2 BPSK	1	104	13.15	13.25	13.23					
20	PI2 BPSK	50	0	13.30	13.21	13.24	14.5	0.0			
20	PI2 BPSK	50	28	13.35	13.24	13.21	14.5	0.0			
20	PI2 BPSK	50	58	13.32	13.19	13.11					
20	PI2 BPSK	100	0	13.29	13.19	13.18	14.5	0.0			
20	QPSK	1	1	13.32	13.41	13.38					
20	QPSK	1	53	13.17	13.21	13.25	14.5	0.0			
20	QPSK	1	104	13.36	13.25	13.24					
20	QPSK	50	0	13.26	13.33	13.31	14.5	0.0			
20	QPSK	50	28	13.31	13.37	13.33	14.5	0.0			
20	QPSK	50	58	13.24	13.36	13.18					
20	QPSK	100	0	13.22	13.39	13.18	14.5	0.0			
20	16QAM	1	1	13.28	13.19	13.27	14.5	0.0			
20	64QAM	1	1	13.38	13.25	13.22	14.5	0.0			
20	256QAM	1	1	13.17	13.31	13.13	14.5	0.0			
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR			
Frequency (MHz)				1827.5	1880	1922.5					
15	QPSK	1	1	13.20	13.27	13.25	14.5	0.0			
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR			
Frequency (MHz)				1865	1880	1905					
10	QPSK	1	1	13.17	13.26	13.27	14.5	0.0			
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR			
Frequency (MHz)				1852.5	1880	1922.5					
5	QPSK	1	1	13.23	13.35	13.27	14.5	0.0			

n7 Ant 1 DSI7											
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				504000	507000	510000					
Frequency (MHz)				2500	2535	2550					
40	PI2 BPSK	1	1	11.37	11.43	11.26					
40	PI2 BPSK	1	108	11.44	11.31	11.25	12.8	0.0			
40	PI2 BPSK	1	214	11.38	11.41	11.38					
40	PI2 BPSK	108	0	11.42	11.48	11.33	12.8	0.0			
40	PI2 BPSK	108	54	11.37	11.41	11.33	12.8	0.0			
40	PI2 BPSK	108	108	11.47	11.36	11.28					
40	PI2 BPSK	216	0	11.33	11.41	11.39	12.8	0.0			
40	QPSK	1	1	11.52	11.54	11.39					
40	QPSK	1	108	11.45	11.37	11.33	12.8	0.0			
40	QPSK	1	214	11.32	11.35	11.32					
40	QPSK	108	0	11.27	11.36	11.40	12.8	0.0			
40	QPSK	108	54	11.44	11.50	11.47	12.8	0.0			
40	QPSK	108	108	11.34	11.40	11.38					
40	QPSK	216	0	11.38	11.45	11.37	12.8	0.0			
40	16QAM	1	1	11.29	11.40	11.37	12.8	0.0			
40	64QAM	1	1	11.40	11.41	11.29	12.8	0.0			
40	256QAM	1	1	11.35	11.39	11.34	12.8	0.0			
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR			
Frequency (MHz)				2515	2535	2555					
30	QPSK	1	1	11.41	11.39	11.29	12.9	0.0			
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR			
Frequency (MHz)				2512.5	2535	2557.5					
25	QPSK	1	1	11.39	11.49	11.23	12.8	0.0			
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR			
Frequency (MHz)				2510	2535	2550					
20	QPSK	1	1	11.39	11.43	11.23	12.8	0.0			
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR			
Frequency (MHz)				2507.5	2535	2562.5					
15	QPSK	1	1	11.45	11.48	11.24	12.8	0.0			
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR			
Frequency (MHz)				2505	2535	2565					
10	QPSK	1	1	11.45	11.48	11.22	12.8	0.0			
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR			
Frequency (MHz)				2502.5	2535	2567.5					
5	QPSK	1	1	11.47	11.45	11.30	12.8	0.0			

n66 Ant 1 DSI7											
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	349000	352000					
Frequency (MHz)				1720	1745	1765					
40	PI2 BPSK	1	1	13.40	13.37	13.37					
40	PI2 BPSK	1	108	13.42	13.45	13.38	15.0	0.0			
40	PI2 BPSK	1	214	13.46	13.48	13.40					
40	PI2 BPSK	108	0	13.34	13.41	13.40	15.0	0.0			
40	PI2 BPSK	108	54	13.35	13.42	13.40	15.0	0.0			
40	PI2 BPSK	108	108	13.48	13.40	13.25					
40	PI2 BPSK	216	0	13.30	13.46	13.40	15.0	0.0			
40	QPSK	1	1	13.58	13.60	13.52					
40	QPSK	1	108	13.30	13.37	13.31	15.0	0.0			
40	QPSK	1	214	13.44	13.45	13.41					
40	QPSK	108	0	13.38	13.47	13.35	15.0	0.0			
40	QPSK	108	54	13.52	13.54	13.46	15.0	0.0			
40	QPSK	108	108	13.31	13.49	13.46	15.0	0.0			
40	QPSK	216	0	13.48	13.56	13.33	15.0	0.0			
40	16QAM	1	1	13.41	13.41	13.47	15.0	0.0			
40	64QAM	1	1	13.42	13.45	13.46	15.0	0.0			
40	256QAM	1	1	13.43	13.40	13.40	15.0	0.0			
Channel				345500	349000	352500	Tune-up limit (dBm)	MPR			
Frequency (MHz)				1727.5	1745	1762.5					
35	QPSK	1	1	13.43	13.50	13.43	15.0	0.0			
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR			
Frequency (MHz)				1725	1745	1765					
30	QPSK	1	1	13.46	13.48	13.39	15.0	0.0			
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR			
Frequency (MHz)				1722.5	1745	1767.5					
25	QPSK	1	1	13.45	13.47	13.40	15.0	0.0			
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR			
Frequency (MHz)				1720	1745	1770					
20	QPSK	1	1	13.43	13.54	13.37	15.0	0.0			
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR			
Frequency (MHz)				1717.5	1745	1772.5					
15	QPSK	1	1	13.47	13.55	13.36	15.0	0.0			
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR			
Frequency (MHz)				1715	1745	1775					
10	QPSK	1	1	13.50	13.46	13.42	15.0	0.0			
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR			
Frequency (MHz)				1712.5	1745	1777.5					
5	QPSK	1	1	13.47	13.45	13.41	15.0	0.0			



n2 Ant 2 DSI7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel				1860	1880	1900	
Frequency (MHz)				37200	37200	38000	
20	Pi/2 BPSK	1	1	19.34	19.47	19.48	
20	Pi/2 BPSK	1	53	19.40	19.51	19.42	20.4
20	Pi/2 BPSK	1	104	19.41	19.53	19.45	
20	Pi/2 BPSK	50	0	19.39	19.38	19.39	20.4
20	Pi/2 BPSK	50	28	19.42	19.44	19.51	20.4
20	Pi/2 BPSK	50	56	19.39	19.37	19.38	20.4
20	Pi/2 BPSK	100	0	19.38	19.48	19.45	
20	QPSK	1	1	19.53	19.54	19.56	
20	QPSK	1	53	19.38	19.41	19.43	20.4
20	QPSK	1	104	19.51	19.44	19.47	
20	QPSK	50	0	19.39	19.37	19.47	20.4
20	QPSK	50	28	19.49	19.58	19.50	20.4
20	QPSK	50	56	19.38	19.44	19.40	20.4
20	QPSK	100	0	19.42	19.47	19.43	20.4
20	16QAM	1	1	19.34	19.48	19.51	20.4
20	64QAM	1	1	19.34	19.44	19.44	20.4
20	256QAM	1	1	17.77	17.83	17.83	18.5
Channel				37050	37000	35500	
Frequency (MHz)				1857.5	1880	1922.5	
15	QPSK	1	1	19.45	19.59	19.48	20.4
Channel				371000	376000	381000	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	1	19.39	19.59	19.44	20.4
Channel				370500	375000	381500	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	1	19.45	19.55	19.46	20.4

n66 Ant 2 DSI7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel				34900	34900	35000	
Frequency (MHz)				1730	1745	1760	
40	Pi/2 BPSK	1	1	18.70	18.73	18.70	
40	Pi/2 BPSK	1	108	18.70	18.74	18.71	20.2
40	Pi/2 BPSK	1	214	18.71	18.70	18.78	
40	Pi/2 BPSK	108	0	18.81	18.78	18.85	20.2
40	Pi/2 BPSK	108	54	18.71	18.68	18.73	20.2
40	Pi/2 BPSK	108	108	18.71	18.67	18.77	20.2
40	Pi/2 BPSK	216	0	18.60	18.80	18.71	
40	QPSK	1	1	18.90	18.94	18.89	
40	QPSK	1	108	18.73	18.74	18.84	20.2
40	QPSK	1	214	18.65	18.63	18.74	
40	QPSK	108	0	18.71	18.81	18.68	20.2
40	QPSK	108	54	18.81	18.90	18.81	20.2
40	QPSK	108	108	18.75	18.81	18.85	20.2
40	QPSK	216	0	18.70	18.68	18.88	20.2
40	16QAM	1	1	18.82	18.74	18.76	20.2
40	64QAM	1	1	18.64	18.77	18.66	20.2
40	256QAM	1	1	17.22	17.28	17.25	18.5
Channel				34550	34900	35250	
Frequency (MHz)				1722.5	1745	1762.5	
35	QPSK	1	1	18.77	18.79	18.81	20.2
Channel				345000	349000	353000	
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	18.77	18.89	18.74	20.2
Channel				344500	349000	353500	
Frequency (MHz)				1722.5	1745	1767.5	
25	QPSK	1	1	18.82	18.89	18.82	20.2
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	18.83	18.87	18.73	20.2
Channel				343500	349000	354500	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	18.77	18.87	18.78	20.2
Channel				343000	349000	355000	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	18.74	18.83	18.79	20.2
Channel				342500	349000	355500	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	18.81	18.82	18.73	20.2



Mode	Channel	Ant 5 Full power Extremity Stantions				Ant 3 Full power Extremity Stantions				Ant 6-3 Full power Extremity Stantions				Ant 6 Head Stantions		Ant 3 Head Stantions		Ant 6-3 Head Stantions		Ant 6 Head Simultaneous		Ant 3 Head Simultaneous		Ant 6-3 Head Simultaneous		Ant 6 Body-worn Stantions		Ant 3 Body-worn Stantions		Ant 6-3 Body-worn Stantions		Ant 6 Body-worn Simultaneous				
		Frequency (MHz)	Average power (dBm)	Time-Up Limit	Time-Down Limit	Average power (dBm)	Time-Up Limit	Time-Down Limit	Average power (dBm)	Time-Up Limit	Time-Down Limit	Average power (dBm)	Time-Up Limit	Time-Down Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	
802.11g Mbps	1	2412	18.23	20.00	17.47	19.00	20.88	22.50	14.36	16.00	13.56	15.00	16.99	18.50	16.99	18.50	8.66	10.50	8.15	9.50	12.52	13.00	17.98	19.00	17.19	18.50	20.40	22.00	12.23	14.00						
	11	2462	19.59	21.00	19.83	20.50	22.24	24.00	14.12	15.89	13.89	15.12	16.62	18.02	16.54	18.27	9.54	11.42	8.27	9.50	11.42	13.00	17.71	19.00	17.22	18.50	20.38	22.00	12.26	14.00						
	11	2462	19.59	21.00	19.83	20.50	22.24	24.00	14.12	15.89	13.89	15.12	16.62	18.02	16.54	18.27	9.54	11.42	8.27	9.50	11.42	13.00	17.71	19.00	17.22	18.50	20.38	22.00	12.26	14.00						

Mode	Channel	Ant 5 Full power				Ant 4 Full power				Ant 5-4 Full power				Ant 5 Head Stantions		Ant 4 Head Stantions		Ant 5-4 Head Stantions		Ant 5 Head Simultaneous		Ant 4 Head Simultaneous		Ant 5-4 Head Simultaneous		Ant 5 Body-worn Stantions		Ant 4 Body-worn Stantions		Ant 5-4 Body-worn Stantions		Ant 5 Body-worn Simultaneous						
		Frequency (MHz)	Average power (dBm)	Time-Up Limit	Time-Down Limit	Average power (dBm)	Time-Up Limit	Time-Down Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)			
802.11a Mbps	36	5180	16.08	17.50	17.61	19.00	19.92	21.50	14.50	15.00	17.50	17.50	19.00	10.00	12.50	15.00	16.00	18.50	15.50	16.00	10.00	12.50	15.00	16.00	18.50	15.50	16.00	10.00	12.50	15.00	16.00	18.50	15.50	16.00	10.00	12.50	15.00	16.00
	40	5200	17.88	19.50	18.68	20.50	21.21	23.00	14.50	15.00	17.50	17.50	19.00	10.00	12.50	15.00	16.00	18.50	15.50	16.00	10.00	12.50	15.00	16.00	18.50	15.50	16.00	10.00	12.50	15.00	16.00	18.50	15.50	16.00	10.00	12.50	15.00	16.00
	44	5220	17.88	19.50	18.68	20.50	21.21	23.00	14.50	15.00	17.50	17.50	19.00	10.00	12.50	15.00	16.00	18.50	15.50	16.00	10.00	12.50	15.00	16.00	18.50	15.50	16.00	10.00	12.50	15.00	16.00	18.50	15.50	16.00	10.00	12.50	15.00	16.00

Mode	Channel	Ant 5 Full power Extremity Stantions				Ant 4 Full power Extremity Stantions				Ant 5-4 Full power Extremity Stantions				Ant 5 Head Stantions		Ant 4 Head Stantions		Ant 5-4 Head Stantions		Ant 5 Head Simultaneous		Ant 4 Head Simultaneous		Ant 5-4 Head Simultaneous		Ant 5 Body-worn Stantions		Ant 4 Body-worn Stantions		Ant 5-4 Body-worn Stantions		Ant 5 Body-worn Simultaneous					
		Frequency (MHz)	Average power (dBm)	Time-Up Limit	Time-Down Limit	Average power (dBm)	Time-Up Limit	Time-Down Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)		
802.11a Mbps	52	5280	18.35	20.00	18.74	20.50	21.56	23.50	15.00	15.00	18.00	18.00	20.00	10.00	13.00	16.00	16.00	19.00	16.00	16.00	10.00	13.00	16.00	16.00	19.00	16.00	16.00	10.00	13.00	16.00	16.00	19.00	16.00	16.00	10.00	13.00	16.00
	56	5300	18.49	20.00	18.87	20.50	21.59	23.50	15.00	15.00	18.00	18.00	20.00	10.00	13.00	16.00	16.00	19.00	16.00	16.00	10.00	13.00	16.00	16.00	19.00	16.00	16.00	10.00	13.00	16.00	16.00	19.00	16.00	16.00	10.00	13.00	16.00
	60	5320	18.61	20.00	19.11	21.00	21.98	23.50	15.00	15.00	18.00	18.00	20.00	10.00	13.00	16.00	16.00	19.00	16.00	16.00	10.00	13.00	16.00	16.00	19.00	16.00	16.00	10.00	13.00	16.00	16.00	19.00	16.00	16.00	10.00	13.00	16.00

Mode	Channel	Ant 5 Full power				Ant 4 Full power				Ant 5-4 Full power				Ant 5 Head Stantions		Ant 4 Head Stantions		Ant 5-4 Head Stantions		Ant 5 Head Simultaneous		Ant 4 Head Simultaneous		Ant 5-4 Head Simultaneous		Ant 5 Body-worn Stantions		Ant 4 Body-worn Stantions		Ant 5-4 Body-worn Stantions		Ant 5 Body-worn Simultaneous				
		Frequency (MHz)	Average power (dBm)	Time-Up Limit	Time-Down Limit	Average power (dBm)	Time-Up Limit	Time-Down Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	
802.11a Mbps	100	5500	18.02	19.50	18.65	20.00	21.38	23.00	11.50	13.50	15.50	15.50	17.50	8.50	9.50	10.50	13.00	15.00	15.00	10.00	13.00	15.00	15.00	17.00	17.00	17.00	10.00	13.00	15.00	15.00	17.00	17.00	17.00	10.00	13.00	15.00
	116	5580	17.60	19.50	18.14	20.00	20.89	22.50	11.50	13.50	15.50	15.50	17.50	8.50	9.50	10.50	13.00	15.00	15.00	10.00	13.00	15.00	15.00	17.00	17.00	17.00	10.00	13.00	15.00	15.00	17.00	17.00	17.00	10.00	13.00	15.00
	124	5620	17.81	19.50	18.93	20.00	20.82	22.50	11.50	13.50	15.50	15.50	17.50	8.50	9.50	10.50	13.00	15.00	15.00	10.00	13.00	15.00	15.00	17.00	17.00	17.00	10.00	13.00	15.00	15.00	17.00	17.00	17.00	10.00	13.00	15.00



Mode	Channel	Frequency (MHz)	Art 3 Body-worn Simultaneous		Art 6-3 Body-worn Simultaneous		Art 6 Helipod		Art 3 Helipod		Art 6-3 Helipod		Art 6 Extremity Simultaneous		Art 3 Extremity Simultaneous		Art 6-3 Extremity Simultaneous		Duty Cycle %
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
802.11b Mbps	1	2412	11.72	13.00	14.93	16.50	15.33	17.00	14.09	16.00	17.99	19.50	16.87	16.50	15.71	17.50	19.43	21.00	100
	8	2424	11.75	13.00	14.91	16.50	15.17	17.00	14.15	17.00	17.99	19.50	16.52	16.50	15.76	17.50	19.46	21.00	
	11	2436	11.61	13.00	14.84	16.50	15.20	17.00	14.04	16.00	17.89	19.50	16.82	16.50	15.53	17.50	19.37	21.00	
802.11g Mbps	1	2412		13.00		16.50		17.00		16.00		19.50		16.50		17.50		21.00	98.97
	6	2437		13.00		16.50		17.00		16.00		19.50		16.50		17.50		21.00	
	10	2462		13.00		16.50		17.00		16.00		19.50		16.50		17.50		21.00	
802.11n-HT40 MCS0	1	2412		13.00		16.50		17.00		16.00		19.50		16.50		17.00		20.50	100
	2	2417		13.00		16.50		16.00		16.00		19.50		16.00		16.50		19.50	
	3	2422		13.00		16.50		17.00		16.00		19.50		16.50		17.50		21.00	
802.11n-HT40 MCS0	8	2447		13.00		16.50		17.00		16.00		19.50		16.50		17.50		21.00	100
	11	2462		13.00		16.50		17.00		16.00		19.50		16.50		17.50		21.00	
	6	2437		13.00		16.50		17.00		16.00		19.50		16.50		17.50		21.00	
802.11n-HT40 MCS0	3	2422	Not Required	13.00	Not Required	16.50	Not Required	14.50	Not Required	13.50	Not Required	17.00	Not Required	14.50	Not Required	13.00	Not Required	16.00	100
	6	2437	Not Required	13.00	Not Required	16.50	Not Required	14.50	Not Required	13.50	Not Required	17.00	Not Required	14.50	Not Required	13.00	Not Required	16.00	
	8	2447	Not Required	13.00	Not Required	16.50	Not Required	14.50	Not Required	13.50	Not Required	17.00	Not Required	14.50	Not Required	13.00	Not Required	16.00	

Mode	Channel	Frequency (MHz)	Art 4 Body-worn Simultaneous		Art 5-4 Body-worn Simultaneous		Art 5 Helipod		Art 4 Helipod		Art 5-4 Helipod		Art 5 Extremity Staircase		Art 4 Extremity Staircase		Art 5-4 Extremity Staircase		Art 5 Extremity Simultaneous		Art 4 Extremity Simultaneous		Art 5-4 Extremity Simultaneous		Duty Cycle %	
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		Average power (dBm)
802.11a Mbps	36	5180		11.00		13.50		13.50		14.00		16.50	16.08	17.50	17.61	19.00	19.92	21.50	16.00		16.50		19.00	19.00	98.91	
	40	5200		11.00		13.50		13.50		14.00		16.50	17.88	19.50	18.86	20.50	21.21	23.00	16.00		16.50		19.00	19.00		
	44	5220		11.00		13.50		13.50		14.00		16.50	18.20	20.00	18.73	20.50	21.48	23.00	16.00		16.50		19.00	19.00		
802.11n-HT40 MCS0	36	5180		11.00		13.50		13.50		14.00		16.50		17.50		19.00		21.50	16.00		16.50		19.00	19.00	100	
	40	5200		11.00		13.50		13.50		14.00		16.50	Not Required	20.50	Not Required	20.50	Not Required	23.00	16.00		16.50		19.00	19.00		
	44	5220		11.00		13.50		13.50		14.00		16.50	20.00	20.00	20.50	23.00	23.00	23.00	16.00		16.50		19.00	19.00		
802.11n-HT40 MCS0	36	5180	Not Required	11.00	Not Required	13.50	Not Required	13.50	Not Required	14.00	Not Required	16.50	16.75	17.50	16.36	19.00	19.09	20.50	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	19.00	100
	40	5200	Not Required	11.00	Not Required	13.50	Not Required	13.50	Not Required	14.00	Not Required	16.50	18.12	20.00	18.38	20.00	21.25	23.00	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	19.00	
	44	5220	Not Required	11.00	Not Required	13.50	Not Required	13.50	Not Required	14.00	Not Required	16.50	19.00	20.00	19.50	20.50	23.00	23.00	16.00		16.50		19.00	19.00		
802.11ac-VHT20 MCS0	44	5240		11.00		13.50		13.50		14.00		16.50		20.00		20.50		23.00	16.00		16.50		19.00	19.00	100	
	48	5240		11.00		13.50		13.50		14.00		16.50		20.00		20.50		23.00	16.00		16.50		19.00	19.00		
	48	5240	Not Required	11.00	Not Required	13.50	Not Required	13.50	Not Required	14.00	Not Required	16.50	20.00	20.00	20.50	23.00	23.00	23.00	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required		19.00
802.11ac-VHT40 MCS0	38	5190		11.00		13.50		13.50		14.00		16.50		17.50		18.00		21.00	16.00		16.50		19.00	19.00	100	
	46	5230		11.00		13.50		13.50		14.00		16.50		20.00		20.00		23.00	16.00		16.50		19.00	19.00		
	42	5210	9.41	11.00	11.67	13.50	11.95	13.50	12.36	14.00	14.67	16.50	Not Required	16.50	Not Required	17.00	Not Required	20.00	14.68	Not Required	14.82	Not Required	17.25	19.00		
802.11ac-VHT80 MCS0	38	5190		11.00		13.50		13.50		14.00		16.50		17.50		18.00		21.00	16.00		16.50		19.00	19.00	100	
	46	5230		11.00		13.50		13.50		14.00		16.50		20.00		20.00		23.00	16.00		16.50		19.00	19.00		
	42	5210		11.00		13.50		13.50		14.00		16.50		17.50		18.00		21.00	16.00		16.50		19.00	19.00		
802.11ac-HE80 MCS0	38	5190		11.00		13.50		13.50		14.00		16.50		17.50		18.00		21.00	16.00		16.50		19.00	19.00	100	
	46	5230		11.00		13.50		13.50		14.00		16.50		20.00		20.00		23.00	16.00		16.50		19.00	19.00		
	42	5210		11.00		13.50		13.50		14.00		16.50		17.50		18.00		21.00	16.00		16.50		19.00	19.00		

Mode	Channel	Frequency (MHz)	Art 4 Body-worn Simultaneous		Art 5-4 Body-worn Simultaneous		Art 5 Extremity Staircase		Art 4 Extremity Staircase		Art 5-4 Extremity Staircase		Duty Cycle %
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
802.11a Mbps	52	5280		11.00		14.00		16.50		16.50		19.50	98.91
	56	5280		11.00		14.00		16.50		16.50		19.50	
	60	5300		11.00		14.00		16.50		16.50		19.50	
802.11n-HT40 MCS0	52	5280		11.00		14.00		16.50		16.50		19.50	100
	56	5280		11.00		14.00		16.50		16.50		19.50	
	60	5300		11.00		14.00		16.50		16.50		19.50	
802.11n-HT40 MCS0	54	5270	Not Required	11.00	Not Required	14.00	Not Required	16.50	Not Required	16.50	Not Required	19.50	100
	62	5310	Not Required	11.00	Not Required	14.00	Not Required	16.50	Not Required	16.50	Not Required	19.50	
	52	5280	Not Required	11.00	Not Required	14.00	Not Required	16.50	Not Required	16.50	Not Required	19.50	
802.11ac-VHT20 MCS0	56	5280		11.00		14.00		16.50		16.50		19.50	100
	60	5300		11.00		14.00		16.50		16.50		19.50	
	64	5330		11.00		14.00		16.50		16.50		19.50	
802.11ac-VHT40 MCS0	54	5270		11.00		14.00		16.50		16.50		19.50	100
	62	5310		11.00		14.00		16.50		16.50		19.50	
	58	5290	9.48	11.00	12.04	14.00	14.00	16.50	14.00	16.50	17.52	19.50	
802.11ac-VHT80 MCS0	50	5250		11.00		14.00		16.50		16.50		19.50	100
	52	5260		11.00		14.00		16.50		16.50		19.50	
	56	5280		11.00		14.00		16.50		16.50		19.50	
802.11ac-HE20 MCS0	60	5300	Not Required	11.00	Not Required	14.00	Not Required	16.50	Not Required	16.50	Not Required	19.50	100
	64	5320	Not Required	11.00	Not Required	14.00	Not Required	16.50	Not Required	16.50	Not Required	19.50	
	54	5270	Not Required	11.00	Not Required	14.00	Not Required	16.50	Not Required	16.50	Not Required	19.50	
802.11ac-HE40 MCS0	62	5310		11.00		14.00		16.50		16.50		19.50	100
	58	5290		11.00		14.00		16.50		16.50		19.50	
	50	5250		11.00		14.00		16.50		16.50		19.50	

Mode	Channel	Frequency (MHz)	Art 4 Body-worn Simultaneous		Art 5-4 Body-worn Simultaneous		Art 5 Extremity Staircase		Art 4 Extremity Staircase		Art 5-4 Extremity Staircase		Art 5 Extremity Simultaneous		Art 4 Extremity Simultaneous		Art 5-4 Extremity Simultaneous		Duty Cycle %
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	
802.11a Mbps	100	5500		10.00		12.00		18.50		20.00		22.50	13.50		15.50		17.50	98.91	
	116	5580		10.00		12.00</													



	Mode	Channel	Ant 5 Full power				Ant 4 Full power				Ant 5+4 Full power				Ant 5 Head Standalone		Ant 4 Head Standalone		Ant 5+4 Head Standalone		Ant 5 Head Simultaneous		Ant 4 Head Simultaneous		Ant 5+4 Head Simultaneous		Ant 5 Body-worn Standalone		Ant 4 Body-worn Standalone		Ant 5+4 Body-worn Standalone		Ant 5 Body-worn Simultaneous							
			Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit	Average power (dBm)	Turn-Up Limit						
S-BICR-WLAN	802.11a 6Mbps	149	5745	18.74	20.50	20.76	22.00	22.68	24.50	11.00	13.00	15.00	6.00	8.00	10.00	12.50	14.50	16.50	18.50	7.50	9.50	11.50	13.50	15.50	17.50	19.50	21.50	23.50	25.50	27.50	29.50	31.50	33.50	35.50	37.50	39.50	41.50	43.50		
		157	5785	18.40	20.50	20.76	22.00	22.75	24.50	11.00	13.00	15.00	6.00	8.00	10.00	12.50	14.50	16.50	18.50	20.50	7.50	9.50	11.50	13.50	15.50	17.50	19.50	21.50	23.50	25.50	27.50	29.50	31.50	33.50	35.50	37.50	39.50	41.50	43.50	
		165	5825	18.20	20.00	20.56	22.00	22.56	24.00	11.00	13.00	15.00	6.00	8.00	10.00	12.50	14.50	16.50	18.50	20.50	7.50	9.50	11.50	13.50	15.50	17.50	19.50	21.50	23.50	25.50	27.50	29.50	31.50	33.50	35.50	37.50	39.50	41.50	43.50	45.50
		149	5745	18.36	20.00	20.26	22.00	22.42	24.00	11.00	13.00	15.00	6.00	8.00	10.00	12.50	14.50	16.50	18.50	20.50	7.50	9.50	11.50	13.50	15.50	17.50	19.50	21.50	23.50	25.50	27.50	29.50	31.50	33.50	35.50	37.50	39.50	41.50	43.50	45.50
		157	5785	18.19	20.00	20.17	22.00	22.30	24.00	11.00	13.00	15.00	6.00	8.00	10.00	12.50	14.50	16.50	18.50	20.50	7.50	9.50	11.50	13.50	15.50	17.50	19.50	21.50	23.50	25.50	27.50	29.50	31.50	33.50	35.50	37.50	39.50	41.50	43.50	45.50
		165	5825	18.88	19.50	20.14	22.00	22.29	24.00	11.00	13.00	15.00	6.00	8.00	10.00	12.50	14.50	16.50	18.50	20.50	22.50	7.50	9.50	11.50	13.50	15.50	17.50	19.50	21.50	23.50	25.50	27.50	29.50	31.50	33.50	35.50	37.50	39.50	41.50	43.50
	802.11a-HT20 MCS0	151	5755	17.38	19.00	19.24	21.00	21.42	23.00	Not Required	Not Required	13.00	15.00	17.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00	26.00	28.00	30.00	32.00	34.00	36.00	38.00	40.00	42.00	44.00	46.00	48.00	50.00	52.00	54.00	56.00	
	802.11a-HT40 MCS0	159	5795	17.46	19.00	19.56	21.00	21.65	23.00	Not Required	Not Required	13.00	15.00	17.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00	26.00	28.00	30.00	32.00	34.00	36.00	38.00	40.00	42.00	44.00	46.00	48.00	50.00	52.00	54.00	56.00	
	802.11a-HT80 MCS0	149	5745	18.40	20.00	20.41	22.00	22.53	24.00	11.00	13.00	15.00	6.00	8.00	10.00	12.50	14.50	16.50	18.50	20.50	22.50	24.50	26.50	28.50	30.50	32.50	34.50	36.50	38.50	40.50	42.50	44.50	46.50	48.50	50.50	52.50	54.50	56.50		
	802.11a-VHT20 MCS0	157	5785	18.26	20.00	20.25	22.00	22.38	24.00	11.00	13.00	15.00	6.00	8.00	10.00	12.50	14.50	16.50	18.50	20.50	22.50	24.50	26.50	28.50	30.50	32.50	34.50	36.50	38.50	40.50	42.50	44.50	46.50	48.50	50.50	52.50	54.50	56.50		
	802.11a-VHT40 MCS0	165	5825	18.89	19.50	20.10	22.00	22.28	24.00	11.00	13.00	15.00	6.00	8.00	10.00	12.50	14.50	16.50	18.50	20.50	22.50	24.50	26.50	28.50	30.50	32.50	34.50	36.50	38.50	40.50	42.50	44.50	46.50	48.50	50.50	52.50	54.50	56.50		
	802.11a-VHT80 MCS0	151	5755	17.46	19.00	19.20	21.00	21.48	23.00	Not Required	Not Required	13.00	15.00	17.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00	26.00	28.00	30.00	32.00	34.00	36.00	38.00	40.00	42.00	44.00	46.00	48.00	50.00	52.00	54.00	56.00	
	802.11a-HE20 MCS0	155	5775	18.29	18.00	17.73	19.50	20.68	21.50	10.28	11.88	13.00	13.98	15.00	5.39	6.50	8.00	9.08	10.00	11.85	12.50	13.13	14.50	15.50	16.50	18.50	19.50	21.50	23.50	25.50	27.50	29.50	31.50	33.50	35.50	37.50	39.50	41.50		
	802.11a-HE40 MCS0	149	5745	18.47	20.00	20.53	22.00	22.63	24.00	11.00	13.00	15.00	6.00	8.00	10.00	12.50	14.50	16.50	18.50	20.50	22.50	24.50	26.50	28.50	30.50	32.50	34.50	36.50	38.50	40.50	42.50	44.50	46.50	48.50	50.50	52.50	54.50	56.50		
	802.11a-HE80 MCS0	157	5785	18.31	20.00	20.43	22.00	22.51	24.00	11.00	13.00	15.00	6.00	8.00	10.00	12.50	14.50	16.50	18.50	20.50	22.50	24.50	26.50	28.50	30.50	32.50	34.50	36.50	38.50	40.50	42.50	44.50	46.50	48.50	50.50	52.50	54.50	56.50		
	802.11a-E-HE20 MCS0	165	5825	18.15	20.00	20.30	22.00	22.37	24.00	11.00	13.00	15.00	6.00	8.00	10.00	12.50	14.50	16.50	18.50	20.50	22.50	24.50	26.50	28.50	30.50	32.50	34.50	36.50	38.50	40.50	42.50	44.50	46.50	48.50	50.50	52.50	54.50	56.50		
	802.11a-E-HE40 MCS0	151	5755	17.53	19.00	19.41	21.00	21.58	23.00	Not Required	Not Required	13.00	15.00	17.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00	26.00	28.00	30.00	32.00	34.00	36.00	38.00	40.00	42.00	44.00	46.00	48.00	50.00	52.00	54.00		
	802.11a-E-HE80 MCS0	159	5795	17.62	19.00	19.73	21.50	21.81	23.50	Not Required	Not Required	13.00	15.00	17.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00	26.00	28.00	30.00	32.00	34.00	36.00	38.00	40.00	42.00	44.00	46.00	48.00	50.00	52.00	54.00		
	802.11a-HE90 MCS0	155	5775	18.35	18.00	17.78	19.50	20.13	21.50	11.00	13.00	15.00	6.00	8.00	10.00	12.50	14.50	16.50	18.50	20.50	22.50	24.50	26.50	28.50	30.50	32.50	34.50	36.50	38.50	40.50	42.50	44.50	46.50	48.50	50.50	52.50	54.50	56.50		



Mode	Channel	Frequency (MHz)	Art 4 Body-worn Simultaneous		Art 5-4 Body-worn Simultaneous		Art 5 Hotspot		Art 4 Hotspot		Art 5-4 Hotspot		Art 5 Extremely Standalone		Art 4 Extremely Standalone		Art 5-4 Extremely Standalone		Art 5 Extremely Simultaneous		Art 4 Extremely Simultaneous		Art 5-4 Extremely Simultaneous		Duty Cycle %
			Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	
5 GHz WLAN	802.11a 8Mbps	149	5745	9.50	11.50	10.00	12.00	14.00	17.10	18.00	18.18	20.00	20.35	20.00	13.00	15.00	17.00	17.00	13.00	15.00	17.00	17.00	17.00	17.00	98.91
		157	5785	9.50	11.50	10.00	12.00	14.00	17.10	18.00	18.15	20.00	20.26	22.00	13.00	15.00	17.00	17.00	13.00	15.00	17.00	17.00	17.00		
		165	5825	9.50	11.50	10.00	12.00	14.00	17.00	18.00	18.10	20.00	20.21	22.00	13.00	15.00	17.00	17.00	13.00	15.00	17.00	17.00	17.00		
	802.11a-HT20 MCS0	149	5745	9.50	11.50	10.00	12.00	14.00	18.00	18.00	20.00	20.00	22.00	13.00	15.00	17.00	17.00	13.00	15.00	17.00	17.00	17.00	17.00	100	
		157	5785	9.50	11.50	10.00	12.00	14.00	Not Required	18.00	Not Required	20.00	22.00	13.00	15.00	17.00	17.00	13.00	15.00	17.00	17.00	17.00			
		165	5825	9.50	11.50	10.00	12.00	14.00	18.00	18.00	20.00	20.00	22.00	13.00	15.00	17.00	17.00	13.00	15.00	17.00	17.00	17.00			
	802.11a-HT40 MCS0	151	5755	Not Required	9.50	Not Required	11.50	12.00	Not Required	14.00	17.50	18.00	18.36	20.00	20.76	22.00	Not Required	13.00	Not Required	15.00	Not Required	15.00	Not Required	17.00	100
		159	5795	Not Required	9.50	Not Required	11.50	12.00	Not Required	14.00	17.58	18.00	18.48	20.00	20.85	22.00	Not Required	13.00	Not Required	15.00	Not Required	15.00	Not Required	17.00	
		149	5745	Not Required	9.50	Not Required	11.50	12.00	Not Required	14.00	18.00	18.00	20.00	20.00	22.00	Not Required	13.00	Not Required	15.00	Not Required	15.00	Not Required	17.00		
	802.11ac-VHT20 MCS0	157	5785	9.50	11.50	10.00	12.00	14.00	18.00	18.00	20.00	20.00	22.00	13.00	15.00	17.00	17.00	13.00	15.00	17.00	17.00	17.00	17.00	100	
		165	5825	9.50	11.50	10.00	12.00	14.00	18.00	18.00	20.00	20.00	22.00	13.00	15.00	17.00	17.00	13.00	15.00	17.00	17.00	17.00			
		151	5755	9.50	11.50	10.00	12.00	14.00	18.00	18.00	20.00	20.00	22.00	13.00	15.00	17.00	17.00	13.00	15.00	17.00	17.00	17.00			
	802.11ac-VHT40 MCS0	159	5795	9.50	11.50	10.00	12.00	14.00	18.00	18.00	20.00	20.00	22.00	13.00	15.00	17.00	17.00	13.00	15.00	17.00	17.00	17.00	17.00	100	
		155	5775	8.19	9.50	10.61	11.50	9.65	10.00	10.33	12.00	13.01	14.00	18.00	18.00	19.50	21.50	12.55	13.00	13.25	15.00	15.00	15.00		17.00
		149	5745	9.50	11.50	10.00	12.00	14.00	18.00	18.00	20.00	20.00	22.00	13.00	15.00	17.00	17.00	13.00	15.00	17.00	17.00	17.00	17.00		
	802.11ax-HE20 MCS0	157	5785	9.50	11.50	10.00	12.00	14.00	18.00	18.00	20.00	20.00	22.00	13.00	15.00	17.00	17.00	13.00	15.00	17.00	17.00	17.00	17.00	100	
		165	5825	9.50	11.50	10.00	12.00	14.00	18.00	18.00	20.00	20.00	22.00	13.00	15.00	17.00	17.00	13.00	15.00	17.00	17.00	17.00	17.00		
		151	5755	Not Required	9.50	Not Required	11.50	12.00	Not Required	14.00	18.00	18.00	20.00	20.00	22.00	Not Required	13.00	Not Required	15.00	Not Required	15.00	Not Required	17.00		17.00
	802.11ax-HE40 MCS0	159	5795	9.50	11.50	10.00	12.00	14.00	18.00	18.00	20.00	20.00	22.00	13.00	15.00	17.00	17.00	13.00	15.00	17.00	17.00	17.00	17.00	100	
		155	5775	9.50	11.50	10.00	12.00	14.00	18.00	18.00	20.00	20.00	22.00	13.00	15.00	17.00	17.00	13.00	15.00	17.00	17.00	17.00	17.00		
		155	5775	9.50	11.50	10.00	12.00	14.00	18.00	18.00	20.00	20.00	22.00	13.00	15.00	17.00	17.00	13.00	15.00	17.00	17.00	17.00	17.00		



BT		Art 6 Full power			
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	17.86	15.09	15.13
	CH 05	2414	17.10	14.73	14.72
	CH 78	2430	17.81	15.19	15.22
	Take-up Limit	18	16.5	16.5	

BLE_1M		Art 6 Full power			
Mode	Channel	Frequency (MHz)	Average power (dBm)		
LE	CH 00	2402		14.03	
	CH 19	2440		14.21	
	CH 39	2480		12.36	
	Take-up Limit			14.00	

BLE_2M		Art 6 Full power			
Mode	Channel	Frequency (MHz)	Average power (dBm)		
LE	CH 00	2402		14.03	
	CH 19	2440		14.21	
	CH 39	2480		13.07	
	Take-up Limit			14.00	

BT		Art 3 Full power			
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	17.77	15.44	15.26
	CH 05	2414	17.06	14.81	14.76
	CH 78	2430	17.16	14.21	14.72
	Take-up Limit	18	16	16	

BLE_1M		Art 3 Full power			
Mode	Channel	Frequency (MHz)	Average power (dBm)		
LE	CH 00	2402		12.32	
	CH 19	2440		13.82	
	CH 39	2480		12.18	
	Take-up Limit			14.00	

BLE_2M		Art 3 Full power			
Mode	Channel	Frequency (MHz)	Average power (dBm)		
LE	CH 00	2402		12.36	
	CH 19	2440		13.97	
	CH 39	2480		12.19	
	Take-up Limit			14.00	

BT		Art 6 For Head Simultaneous			
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	11.56	9.05	9.18
	CH 05	2414	11.07	8.76	8.77
	CH 78	2430	11.63	9.19	9.24
	Take-up Limit		12.5	10.5	10.5

BLE_1M		Art 6 For Head Simultaneous			
Mode	Channel	Frequency (MHz)	Average power (dBm)		
LE	CH 00	2402			
	CH 19	2440			
	CH 39	2480			
	Take-up Limit			12.50	

BLE_2M		Art 6 For Head Simultaneous			
Mode	Channel	Frequency (MHz)	Average power (dBm)		
LE	CH 00	2402			
	CH 19	2440			
	CH 39	2480			
	Take-up Limit			12.50	

BT 2.0		Art 3 For Head Simultaneous			
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	11.73	9.43	9.31
	CH 05	2414	11.54	8.80	8.79
	CH 78	2430	11.20	8.16	8.72
	Take-up Limit		12.5	10	10

BLE_1M		Art 3 For Head Simultaneous			
Mode	Channel	Frequency (MHz)	Average power (dBm)		
LE	CH 00	2402			
	CH 19	2440			
	CH 39	2480			
	Take-up Limit			12.50	

BLE_2M		Art 3 For Head Simultaneous			
Mode	Channel	Frequency (MHz)	Average power (dBm)		
LE	CH 00	2402			
	CH 19	2440			
	CH 39	2480			
	Take-up Limit			12.50	

BT		Art 6 Head Simultaneous			
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	14.54	12.12	12.08
	CH 05	2414	14.15	11.80	11.72
	CH 78	2430	14.83	12.21	12.26
	Take-up Limit		15	13.5	13.5

BLE_1M		Art 6 Head Simultaneous			
Mode	Channel	Frequency (MHz)	Average power (dBm)		
LE	CH 00	2402			
	CH 19	2440			
	CH 39	2480			
	Take-up Limit			14.50	

BLE_2M		Art 6 Head Simultaneous			
Mode	Channel	Frequency (MHz)	Average power (dBm)		
LE	CH 00	2402			
	CH 19	2440			
	CH 39	2480			
	Take-up Limit			14.50	

BT		Art 3 Head Simultaneous			
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	14.75	12.48	12.30
	CH 05	2414	14.59	11.84	11.79
	CH 78	2430	14.14	11.25	11.70
	Take-up Limit		15	13	13

BLE_1M		Art 3 Head Simultaneous			
Mode	Channel	Frequency (MHz)	Average power (dBm)		
LE	CH 00	2402			
	CH 19	2440			
	CH 39	2480			
	Take-up Limit			14.00	

BLE_2M		Art 3 Head Simultaneous			
Mode	Channel	Frequency (MHz)	Average power (dBm)		
LE	CH 00	2402			
	CH 19	2440			
	CH 39	2480			
	Take-up Limit			14.00	

BT		Art 6 For Headset			
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	12.51	10.08	10.11
	CH 05	2414	12.06	9.74	9.75
	CH 78	2430	12.62	10.23	10.25
	Take-up Limit		13.5	11.5	11.5

BLE_1M		Art 6 For Headset			
Mode	Channel	Frequency (MHz)	Average power (dBm)		
LE	CH 00	2402			
	CH 19	2440			
	CH 39	2480			
	Take-up Limit			13.50	

BLE_2M		Art 6 For Headset			
Mode	Channel	Frequency (MHz)	Average power (dBm)		
LE	CH 00	2402			
	CH 19	2440			
	CH 39	2480			
	Take-up Limit			13.50	

BT		Art 3 For Headset			
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	12.76	10.48	10.26
	CH 05	2414	12.62	9.81	9.71
	CH 78	2430	12.22	9.18	9.69
	Take-up Limit		13.5	11.5	11.5

BLE_1M		Art 3 For Headset			
Mode	Channel	Frequency (MHz)	Average power (dBm)		
LE	CH 00	2402			
	CH 19	2440			
	CH 39	2480			
	Take-up Limit			13.50	

BLE_2M		Art 3 For Headset			
Mode	Channel	Frequency (MHz)	Average power (dBm)		
LE	CH 00	2402			
	CH 19	2440			
	CH 39	2480			
	Take-up Limit			13.50	