



Full&Default Power Mode

WCDMA II Mode						
Item	Burst Average Power (dBm)			Frame Average Power (dBm)		
TV Channel	198	199	201	Limit	198	199
Frequency (MHz)	89.2	89.4	89.8	(dBm)	89.2	89.4
OPRR-1 Tx Limit	32.00	32.07	32.04	33.00	23.00	23.07
OPRR-1 Tx Limit	32.00	32.00	32.01	33.00	23.03	23.01
OPRR-2 Tx Limit	29.30	29.41	29.28	30.50	23.30	23.41
OPRR-2 Tx Limit	29.30	29.41	29.28	30.50	23.30	23.28
OPRR-3 Tx Limit	28.91	28.95	28.86	30.00	24.85	24.72
OPRR-4 Tx Limit	28.41	28.41	28.40	27.50	23.41	23.40
EDGE-1 Tx Limit	25.40	25.40	25.37	26.00	18.40	18.37
EDGE-2 Tx Limit	23.77	23.80	23.70	24.00	17.77	17.80
EDGE-3 Tx Limit	22.88	22.89	22.82	23.00	18.40	18.40
EDGE-4 Tx Limit	20.50	20.60	20.60	21.00	17.50	17.60

CDMA 1X Mode						
Item	Burst Average Power (dBm)			Frame Average Power (dBm)		
TV Channel	512	561	610	Limit	512	561
Frequency (MHz)	170.2	170.8	170.9	(dBm)	170.2	170.9
OPRR-1 Tx Limit	27.84	27.81	27.88	28.50	18.54	18.63
OPRR-1 Tx Limit	27.84	27.81	27.87	28.50	18.41	18.58
OPRR-2 Tx Limit	25.13	25.10	25.13	26.50	19.07	19.11
OPRR-3 Tx Limit	24.94	24.94	24.93	26.00	18.94	18.93
OPRR-4 Tx Limit	20.70	20.70	20.68	21.00	17.70	17.75
EDGE-1 Tx Limit	22.19	22.67	22.73	23.00	19.79	19.87
EDGE-2 Tx Limit	21.00	21.10	21.11	22.00	18.00	18.11
EDGE-3 Tx Limit	20.07	20.12	20.04	21.00	15.91	15.98
EDGE-4 Tx Limit	17.86	18.00	18.04	19.00	14.96	15.04

WCDMA II Mode												
Item	WCDMA II			WCDMA IV			WCDMA V					
TV Channel	902	960	938	1312	1413	1513	4152	4182	4233			
SA Channel	902	960	938	(MHz)	1312	1413	(MHz)	4152	4182			
ISPP Power	180.4	189.0	190.7	174.4	172.6	179.2	89.4	89.4	84.6			
ISPP Power	20.82	20.60	20.67	22.00	20.45	20.51	22.00	22.45	22.52			
ISPP Power	19.72	19.75	19.70	21.00	19.59	19.66	21.00	21.55	21.48			
ISPP Power	19.08	19.71	19.65	21.00	19.90	19.92	21.00	21.66	21.54			
ISPP Power	19.19	19.20	19.21	20.50	19.00	19.11	19.28	20.95	21.61			
ISPP Power	19.15	19.30	19.21	20.50	19.90	19.18	19.03	20.98	21.04			
ISPP Power	19.70	19.85	19.84	21.00	19.54	19.68	19.48	21.90	21.55			
ISPP Power	19.50	19.50	19.41	21.00	19.38	19.40	19.32	21.00	21.04			
ISPP Power	19.08	19.12	19.05	20.50	19.02	19.03	19.89	20.95	20.93			
ISPP Power	19.02	19.15	19.12	20.50	19.90	19.01	20.60	20.89	21.00			
ISPP Power	19.46	19.71	19.70	21.00	19.95	19.93	19.91	21.00	21.03			
ISPP Power	17.71	17.70	17.64	19.00	17.64	17.61	19.00	19.87	19.83			
ISPP Power	18.66	18.71	18.70	20.00	18.52	18.58	18.56	20.00	20.00			
ISPP Power	17.81	17.80	17.87	19.00	17.44	17.51	17.48	19.40	19.42			
ISPP Power	19.94	19.90	19.82	21.00	19.83	19.48	19.38	21.00	21.59			



Band 38 Ant0										
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)										
30	QPSK	1	0	20.97	20.95	20.93	22	0		
30	QPSK	1	49	20.48	20.43	20.40	22	0		
30	QPSK	1	99	20.47	20.43	20.40	22	0		
30	QPSK	50	0	20.47	20.50	20.53	22	0		
30	QPSK	50	24	20.38	20.50	20.42	22	0		
30	QPSK	50	49	20.38	20.50	20.42	22	0		
30	QPSK	100	0	20.37	20.52	20.53	22	0		
30	HQAM	1	0	20.46	20.57	20.59	22	0		
30	HQAM	1	49	20.36	20.55	20.53	22	0		
30	HQAM	1	99	20.29	20.53	20.40	22	0		
30	HQAM	50	0	20.08	20.52	20.04	21.5	0.5		
30	HQAM	50	24	20.10	20.50	20.46	21.5	0.5		
30	HQAM	50	49	19.97	20.53	19.96	21.5	0.5		
30	HQAM	100	0	19.92	20.51	20.50	21.5	0.5		
30	HQAM	100	0	20.03	20.55	20.53	21.5	0.5		
30	HQAM	1	49	19.94	20.04	20.10	21.5	0.5		
30	HQAM	1	99	20.10	20.01	20.00	20.5	1.5		
30	HQAM	50	0	19.88	20.04	19.95	20.5	1.5		
30	HQAM	50	24	19.83	19.90	19.89	20.5	1.5		
30	HQAM	50	49	19.82	19.89	19.83	20.5	1.5		
30	HQAM	100	0	19.85	19.88	19.79	20.5	1.5		
30	25QAM	1	0	17.91	18.08	17.94	18.5	3.5		
30	25QAM	1	49	17.82	17.93	17.82	18.5	3.5		
30	25QAM	1	99	17.86	17.86	17.87	18.5	3.5		
30	25QAM	50	0	17.84	17.89	17.87	18.5	3.5		
30	25QAM	50	24	17.80	17.95	17.90	18.5	3.5		
30	25QAM	50	49	17.77	17.87	17.81	18.5	3.5		
30	25QAM	100	0	17.76	17.89	17.84	18.5	3.5		
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.50	20.50	20.43	22	0		
15	QPSK	1	37	20.29	20.36	20.42	22	0		
15	QPSK	1	74	20.40	20.36	20.23	22	0		
15	QPSK	36	0	20.30	20.30	20.27	22	0		
15	QPSK	36	20	20.24	20.39	20.31	22	0		
15	QPSK	75	0	20.31	20.39	20.28	22	0		
15	HQAM	1	0	20.31	20.44	20.29	22	0		
15	HQAM	1	37	20.37	20.37	20.33	22	0		
15	HQAM	1	74	20.25	20.23	20.33	22	0		
15	HQAM	36	0	19.95	20.20	19.88	21.5	0.5		
15	HQAM	36	20	19.82	19.85	19.80	21.5	0.5		
15	HQAM	36	39	19.79	19.82	19.83	21.5	0.5		
15	HQAM	75	0	19.85	19.89	19.86	21.5	0.5		
15	HQAM	1	0	19.94	20.23	19.89	21.5	0.5		
15	HQAM	1	37	19.77	19.97	20.07	21.5	0.5		
15	HQAM	1	74	20.01	19.95	19.86	21.5	0.5		
15	HQAM	36	0	19.77	20.01	19.91	21.5	0.5		
15	HQAM	36	20	19.73	19.86	19.89	21.5	0.5		
15	HQAM	36	39	19.74	19.83	19.75	21.5	0.5		
15	HQAM	75	0	19.75	19.85	19.85	21.5	0.5		
15	25QAM	1	0	17.78	17.87	17.88	18.5	3.5		
15	25QAM	1	37	17.76	17.83	17.82	18.5	3.5		
15	25QAM	1	74	17.73	17.82	17.72	18.5	3.5		
15	25QAM	36	0	17.83	18.00	17.92	18.5	3.5		
15	25QAM	36	20	17.86	17.89	17.82	18.5	3.5		
15	25QAM	36	39	17.84	17.77	17.71	18.5	3.5		
15	25QAM	75	0	17.79	17.82	17.81	18.5	3.5		
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.51	20.48	20.46	22	0		
10	QPSK	1	25	20.31	20.39	20.41	22	0		
10	QPSK	1	49	20.35	20.28	20.34	22	0		
10	QPSK	12	0	20.32	20.45	20.36	22	0		
10	QPSK	25	12	20.24	20.46	20.38	22	0		
10	QPSK	25	25	20.17	20.25	20.22	22	0		
10	QPSK	50	0	20.34	20.42	20.35	22	0		
10	HQAM	1	0	20.32	20.41	20.29	22	0		
10	HQAM	1	25	20.22	20.33	20.29	22	0		
10	HQAM	1	49	20.16	20.17	20.31	22	0		
10	HQAM	25	0	20.04	20.20	19.98	21.5	0.5		
10	HQAM	25	12	20.04	19.86	19.86	21.5	0.5		
10	HQAM	25	25	19.81	19.86	19.87	21.5	0.5		
10	HQAM	50	0	19.86	20.04	19.84	21.5	0.5		
10	HQAM	50	0	19.80	20.09	20.01	21.5	0.5		
10	HQAM	1	25	19.82	20.01	20.01	21.5	0.5		
10	HQAM	1	49	20.06	19.83	20.04	21.5	0.5		
10	HQAM	25	0	19.81	20.00	19.81	21.5	0.5		
10	HQAM	25	12	19.71	19.85	19.78	21.5	0.5		
10	HQAM	25	25	19.74	19.71	19.75	21.5	0.5		
10	HQAM	50	0	19.80	19.83	19.72	21.5	0.5		
10	25QAM	1	0	17.81	18.03	17.84	18.5	3.5		
10	25QAM	1	25	17.73	17.87	17.78	18.5	3.5		
10	25QAM	1	49	17.71	17.79	17.76	18.5	3.5		
10	25QAM	25	0	17.84	17.83	17.84	18.5	3.5		
10	25QAM	25	12	17.80	17.81	17.86	18.5	3.5		
10	25QAM	25	25	17.69	17.82	17.85	18.5	3.5		
10	25QAM	50	0	17.85	17.88	17.84	18.5	3.5		

Band 41 FCC Ant0										
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)										
20	QPSK	1	0	22.40	22.42	22.41	24	0		
20	QPSK	1	49	22.33	22.54	22.52	24	0		
20	QPSK	1	99	22.31	22.41	22.32	24	0		
20	QPSK	50	0	22.27	22.18	22.34	24	0		
20	QPSK	50	24	22.05	22.15	22.18	24	0		
20	QPSK	50	49	22.05	22.12	22.18	24	0		
20	QPSK	100	0	22.25	22.10	22.30	24	0		
20	HQAM	1	0	22.15	22.13	22.28	24	0		
20	HQAM	1	49	22.04	22.12	22.09	24	0		
20	HQAM	1	99	22.02	22.03	22.13	24	0		
20	HQAM	50	0	21.30	21.18	21.38	24	0		
20	HQAM	50	24	21.20	21.17	21.20	24	0		
20	HQAM	50	49	21.01	21.08	21.16	24	0		
20	HQAM	100	0	21.06	21.21	21.35	24	0		
20	HQAM	100	0	21.41	21.33	21.49	24	0		
20	HQAM	1	49	21.30	21.27	21.37	24	0		
20	HQAM	1	99	21.18	21.04	21.30	24	0		
20	HQAM	50	0	20.27	20.27	20.40	24	0		
20	HQAM	50	24	20.23	20.24	20.32	24	0		
20	HQAM	50	49	20.10	20.18	20.24	24	0		
20	HQAM	100	0	20.16	20.14	20.22	24	0		
20	25QAM	1	0	18.24	18.20	18.37	18.24	18.24		
20	25QAM	1	49	18.27	18.18	18.37	18.18	18.24		
20	25QAM	1	99	18.10	18.08	18.23	18.15	18.15		
20	25QAM	50	0	18.14	18.14	18.24	18.15	18.15		
20	25QAM	50	24	18.18	18.14	18.24	18.15	18.14		
20	25QAM	50	49	18.12	18.05	18.20	18.09	18.10		
20	25QAM	100	0	18.14	18.16	18.28	18.10	18.10		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.17	22.12	22.16	24	0		
15	QPSK	1	37	22.17	22.37	22.46	24	0		
15	QPSK	1	74	22.14	22.26	22.26	24	0		
15	QPSK	36	0	22.29	22.08	22.24	24	0		
15	QPSK	36	20	21.99	22.01	22.09	24	0		
15	QPSK	75	0	22.13	21.96	22.15	24	0		
15	HQAM	1	0	22.09	21.88	22.16	24	0		
15	HQAM	1	37	21.99	22.07	22.15	24	0		
15	HQAM	1	74	21.99	21.91	22.04	24	0		
15	HQAM	36	0	21.28	21.04	21.28	24	0		
15	HQAM	36	20	20.88						



Band 41 PC2 FCC Ant0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up Int (dBm)	MPR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	25.60	25.62	25.64	25.66	25.68	25.70	26	0
20	QPSK	1	49	25.46	25.53	25.59	25.65	25.70	25.76	26	0
20	QPSK	1	99	25.32	25.38	25.44	25.50	25.56	25.62	26	0
20	QPSK	50	0	25.42	25.34	25.45	25.21	25.08		26	0
20	QPSK	50	24	25.32	25.43	25.38	25.29	25.10		26	0
20	QPSK	50	49	25.67	25.63	25.68	25.69	25.70		26	0
20	QPSK	100	0	25.32	25.40	25.38	25.28	25.13		26	0
20	HQAM	1	0	25.55	25.46	25.60	25.48	25.41		26	0
20	HQAM	1	49	25.35	25.39	25.41	25.49	25.57		26	0
20	HQAM	1	99	25.30	25.34	25.42	25.44	25.22		26	0
20	HQAM	50	0	24.26	24.15	24.36	24.27	24.10		25	1
20	HQAM	50	24	24.19	24.20	24.30	24.13	24.07		25	1
20	HQAM	50	49	24.11	24.05	24.17	24.11	23.97		25	1
20	HQAM	100	0	24.25	24.21	24.30	24.15	24.07		25	1
20	HQAM	100	24	24.18	24.15	24.25	24.10	24.10		25	1
20	HQAM	100	49	24.02	24.11	24.10	24.10	23.96		25	1
20	HQAM	1	0	24.06	24.03	24.14	24.03	23.96		24	2
20	HQAM	1	49	23.28	23.22	23.38	23.20	23.14		24	2
20	HQAM	1	99	23.15	23.14	23.27	23.19	23.03		24	2
20	HQAM	50	0	23.14	23.10	23.21	23.15	23.06		24	2
20	HQAM	50	24	23.11	23.17	23.23	23.22	23.02		24	2
20	HQAM	50	49	21.51	21.42	21.55	21.46	21.20		22	4
20	HQAM	1	0	21.54	21.49	21.56	21.50	21.30		22	4
20	HQAM	1	49	21.24	21.37	21.38	21.38	21.28		22	4
20	HQAM	1	99	21.24	21.37	21.38	21.38	21.28		22	4
20	HQAM	50	0	21.26	21.21	21.42	21.37	21.24		22	4
20	HQAM	50	24	21.22	21.16	21.29	21.24	21.04		22	4
20	HQAM	50	49	21.14	21.12	21.21	21.20	21.05		22	4
20	HQAM	100	0	21.32	21.29	21.49	21.46	21.16		22	4
20	HQAM	100	24	21.32	21.29	21.49	21.46	21.16		22	4
Channel											
Frequency (MHz)											
15	QPSK	1	0	25.52	25.47	25.50	25.53	25.52		26.00	0
15	QPSK	1	37	25.39	25.12	25.50	25.28	25.20		26.00	0
15	QPSK	1	74	25.13	25.30	25.35	25.24	25.21		26.00	0
15	QPSK	38	0	25.39	25.21	25.31	25.10	24.31		26	0
15	QPSK	38	20	25.20	25.08	25.34	25.19	24.95		26	0
15	QPSK	38	39	24.83	24.81	24.91	24.84	24.84		26	0
15	QPSK	75	0	25.24	25.15	25.23	25.15	25.00		26	0
15	HQAM	1	0	25.43	25.36	25.51	25.38	25.36		26	0
15	HQAM	1	37	25.25	25.20	25.29	25.24	25.29		26	0
15	HQAM	1	74	25.16	25.21	25.28	25.28	25.10		26	0
15	HQAM	38	0	24.22	24.02	24.24	24.16	23.97		25	1
15	HQAM	38	20	24.02	24.02	24.12	24.04	23.86		25	1
15	HQAM	38	39	24.08	23.99	24.08	24.06	23.88		25	1
15	HQAM	75	0	24.19	24.08	24.27	24.04	24.02		25	1
15	HQAM	1	0	24.04	24.10	24.19	24.09	24.00		25	1
15	HQAM	1	37	23.89	24.04	23.97	23.98	23.88		25	1
15	HQAM	1	74	24.03	23.89	24.10	23.94	23.92		25	1
15	HQAM	38	0	23.18	23.18	23.35	23.05	23.05		24	2
15	HQAM	38	20	23.05	23.09	23.22	23.15	22.97		24	2
15	HQAM	38	39	23.29	23.29	23.31	23.29	23.16		24	2
15	HQAM	75	0	23.04	23.03	23.18	23.15	22.92		24	2
15	HQAM	1	0	21.43	21.39	21.51	21.39	21.22		22	4
15	HQAM	1	37	21.43	21.37	21.51	21.39	21.22		22	4
15	HQAM	1	74	21.20	21.25	21.32	21.23	21.10		22	4
15	HQAM	38	0	21.24	21.17	21.34	21.25	21.11		22	4
15	HQAM	38	20	21.08	21.12	21.21	21.15	21.09		22	4
15	HQAM	38	39	21.10	21.08	21.07	21.09	20.98		22	4
15	HQAM	75	0	21.21	21.12	21.31	21.18	21.07		22	4
Channel											
Frequency (MHz)											
10	QPSK	1	0	25.64	25.44	25.56	25.43	25.47		26.00	0
10	QPSK	1	25	25.55	25.11	25.51	25.34	25.28		26.00	0
10	QPSK	1	49	25.06	25.30	25.30	25.31	25.16		26	0
10	QPSK	25	0	25.34	25.28	25.35	25.28	25.00		26	0
10	QPSK	25	12	25.28	25.05	25.22	25.14	25.03		26	0
10	QPSK	25	25	24.92	25.06	25.09	25.14	24.97		26	0
10	HQAM	1	0	25.30	25.28	25.29	25.24	25.06		26	0
10	HQAM	1	0	25.47	25.40	25.60	25.41	25.36		26	0
10	HQAM	1	25	25.20	25.34	25.40	25.38	25.12		26	0
10	HQAM	1	49	25.21	25.21	25.28	25.28	25.17		26	0
10	HQAM	25	0	24.23	24.09	24.31	24.12	24.03		25	1
10	HQAM	25	12	24.02	24.16	24.22	24.06	23.91		25	1
10	HQAM	25	25	24.04	23.98	24.14	24.04	23.85		25	1
10	HQAM	50	0	24.18	24.14	24.28	24.08	24.13		25	1
10	HQAM	50	12	24.09	24.09	24.28	24.06	23.97		25	1
10	HQAM	50	25	23.94	23.98	24.02	23.92	23.86		25	1
10	HQAM	25	0	23.21	23.08	23.20	23.15	23.03		24	2
10	HQAM	25	12	23.05	23.10	23.24	23.09	22.89		24	2
10	HQAM	25	25	23.02	22.87	23.20	23.08	22.96		24	2
10	HQAM	50	0	22.97	23.07	23.15	23.19	22.98		24	2
10	HQAM	50	12	21.47	21.39	21.54	21.36	21.18		22	4
10	HQAM	1	0	21.51	21.46	21.47	21.39	21.25		22	4
10	HQAM	1	49	21.14	21.20	21.25	21.30	21.22		22	4
10	HQAM	25	0	21.28	21.21	21.30	21.32	21.20		22	4
10	HQAM	25	12	21.50	21.04	21.20	21.17	20.84		22	4
10	HQAM	25	25	20.99	21.07	21.13	21.15	20.98		22	4
10	HQAM	50	0	21.28	21.16	21.27	21.11	21.02		22	4
Channel											
Frequency (MHz)											
5	QPSK	1	0	25.51	25.43	25.45	25.38	25.40		26.00	0
5	QPSK	1	12	25.42	25.07	25.45	25.33	25.31		26.00	0
5	QPSK	1	24	25.15	25.24	25.30	25.21	25.25		26	0
5	QPSK	12	0	25.39	25.42	25.47	25.39	24.81		26	0
5	QPSK	12	7	25.24	25.15	25.30	25.12	25.03		26	0
5	QPSK	12	13	24.93	25.06	25.02	25.17	25.05		26	0
5	QPSK	25	0	25.21	25.05	25.29	25.22	25.09		26	0
5	HQAM	1	0	25.47	25.42	25.52	25.38	25.27		26	0
5	HQAM	1	12	25.29	25.29	25.33	25.35	25.24		26	0
5	HQAM	1	24	25.10	25.21	25.28	25.24	25.16		26	0
5	HQAM	12	0	24.20	24.02	24.31	24.20	24.02		26	0
5	HQAM	12	7	24.15	24.14	24.19	24.08	23.97		26	0
5	HQAM	12	13	24.06	23.98	24.03	24.07	23.89		26	0
5	HQAM	25	0	24.12	24.15	24.20	24.08	24.07		26	0
5	HQAM	1	0	24.07	24.10	24.21	24.09	24.00		25	1
5	HQAM	1	12	23.91	23.97	24.02	24.07	23.92		25	1
5	HQAM	1	24	23.97	23.99	24.11	23.99	23.86		24	2
5	HQAM	12	0	23.18	23.15	23.27	23.07	23.09		24	2
5	HQAM	12	7	23.08	23.06	23.15	23.10	22.99		24	2
5	HQAM	12	13	23.00	22.98	23.10	23.05	22.91		24	2
5	HQAM	25	0	23.06	23.11	23					



CDMA2000 1X

TX Channel	Burst Average Power (dBm)			Tx Power Limit (dBm)	Frame Average Power (dBm)			Tx Power Limit (dBm)
	198.2	199.1	201.6		198.2	199.1	201.6	
CDMA 1 Tx Power	31.42	31.48	31.36	32.50	22.42	22.48	22.36	23.50
OPRS 1 Tx Power	31.38	31.44	31.33	32.46	22.38	22.44	22.33	23.46
OPRS 2 Tx Power	29.27	29.30	29.32	29.50	22.27	22.29	22.30	23.50
OPRS 3 Tx Power	26.80	26.91	26.80	28.00	22.24	22.55	22.44	23.74
OPRS 4 Tx Power	25.16	25.22	25.17	26.00	22.16	22.22	22.17	23.00
EDGE 1 Tx Power	24.00	24.17	24.05	25.00	18.03	18.17	18.05	18.50
EDGE 2 Tx Power	22.20	22.41	22.34	23.20	16.20	16.41	16.34	17.20
EDGE 3 Tx Power	21.15	21.21	21.08	22.00	15.89	16.07	15.82	17.74
EDGE 4 Tx Power	19.59	19.66	19.83	20.00	15.59	16.08	16.01	17.00

CDMA2000 1X Rev B

TX Channel	Burst Average Power (dBm)			Tx Power Limit (dBm)	Frame Average Power (dBm)			Tx Power Limit (dBm)
	199.2	199.0	199.8		199.2	199.0	199.8	
CDMA 1 Tx Power	21.50	21.50	21.52	26.50	13.50	13.51	13.52	18.50
OPRS 1 Tx Power	22.52	22.52	22.52	28.50	14.52	14.67	14.67	19.50
OPRS 2 Tx Power	20.06	20.00	24.88	26.00	10.06	10.00	18.08	20.00
OPRS 3 Tx Power	20.36	24.62	23.32	24.50	10.10	19.18	19.06	20.24
OPRS 4 Tx Power	20.62	20.74	20.63	21.50	17.62	17.74	17.63	18.50
EDGE 1 Tx Power	12.76	12.86	12.72	13.50	13.76	13.86	13.72	14.50
EDGE 2 Tx Power	21.13	21.22	21.13	22.00	15.13	15.22	15.13	16.00
EDGE 3 Tx Power	14.85	14.96	14.85	17.00	13.85	13.96	13.85	18.74
EDGE 4 Tx Power	17.01	18.05	17.07	19.00	14.91	15.05	14.97	18.50

WCDMA II Rev A

TX Channel	WCDMA II			WCDMA IV Rev A			WCDMA V Rev A			Tx Power Limit (dBm)		
	9582	9600	9598	1412	1413	1513	4152	4162	4238			
HS-DS-SS	21.45	21.52	21.44	23.00	21.42	21.44	21.31	21.00	21.14	21.17	21.04	23.00
HSPA-Subnet-1	20.85	20.64	20.47	22.00	20.46	20.57	20.32	22.00	20.23	20.23	20.50	22.00
HSPA-Subnet-2	20.48	20.51	20.52	22.00	20.42	20.50	20.41	22.00	20.12	20.22	20.17	22.00
HSPA-Subnet-3	20.02	20.14	20.10	21.50	18.91	20.02	19.95	21.50	19.87	19.70	19.89	21.50
HSPA-Subnet-4	19.56	20.14	20.36	21.50	18.87	20.31	19.54	21.50	19.56	19.79	19.68	21.50
HSPA-Subnet-5	20.50	20.70	20.45	22.00	20.46	20.63	20.35	22.00	20.21	20.32	20.91	22.00
HSPA-Subnet-6	20.37	20.42	20.36	22.00	20.33	20.29	20.28	22.00	20.08	20.08	19.84	22.00
HSPA-Subnet-7	19.00	19.96	19.92	21.50	19.94	19.84	19.86	21.50	19.95	19.98	19.95	21.50
HSPA-Subnet-8	19.87	18.54	18.99	21.50	19.82	19.80	19.83	21.50	19.49	19.47	19.64	21.50
HSPA-Subnet-9	20.96	20.81	20.80	22.00	20.43	20.98	20.96	22.00	20.18	20.22	20.28	22.00
HSPA-Subnet-10	18.83	18.87	18.82	20.00	18.42	18.53	18.39	20.00	18.09	18.19	18.13	20.00
HSPA-Subnet-11	18.20	18.48	18.58	21.00	18.48	18.51	18.49	21.00	18.18	18.26	18.18	21.00
HSPA-Subnet-12	18.45	18.48	18.44	20.00	18.37	18.45	18.35	20.00	18.04	18.14	18.03	20.00
HSPA-Subnet-13	20.59	20.40	20.39	22.00	20.58	20.36	20.33	22.00	20.21	20.03	20.08	22.00



Band 2 Ant1													
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up time (min)	MFR (dB)					
Channel		Frequency (MHz)	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.							
20	QPSK	1	0	20.99	21.00	20.98							
20	QPSK	1	49	20.96	20.99	20.98	22	0					
20	QPSK	1	99	20.90	20.99	20.98							
20	QPSK	50	0	20.99	21.04	20.99							
20	QPSK	50	24	20.97	20.99	20.98	22	0					
20	QPSK	100	0	20.99	20.99	20.97							
20	QPSK	100	24	20.96	20.99	20.98	22	0					
20	QPSK	150	0	20.99	20.99	20.97							
20	QPSK	150	24	20.96	20.99	20.98	22	0					
20	QPSK	200	0	20.99	20.99	20.97							
20	QPSK	200	24	20.96	20.99	20.98	22	0					
20	QPSK	250	0	20.99	20.99	20.97							
20	QPSK	250	24	20.96	20.99	20.98	22	0					
20	QPSK	300	0	20.99	20.99	20.97							
20	QPSK	300	24	20.96	20.99	20.98	22	0					
20	QPSK	350	0	20.99	20.99	20.97							
20	QPSK	350	24	20.96	20.99	20.98	22	0					
20	QPSK	400	0	20.99	20.99	20.97							
20	QPSK	400	24	20.96	20.99	20.98	22	0					
20	QPSK	450	0	20.99	20.99	20.97							
20	QPSK	450	24	20.96	20.99	20.98	22	0					
20	QPSK	500	0	20.99	20.99	20.97							
20	QPSK	500	24	20.96	20.99	20.98	22	0					
20	QPSK	550	0	20.99	20.99	20.97							
20	QPSK	550	24	20.96	20.99	20.98	22	0					
20	QPSK	600	0	20.99	20.99	20.97							
20	QPSK	600	24	20.96	20.99	20.98	22	0					
20	QPSK	650	0	20.99	20.99	20.97							
20	QPSK	650	24	20.96	20.99	20.98	22	0					
20	QPSK	700	0	20.99	20.99	20.97							
20	QPSK	700	24	20.96	20.99	20.98	22	0					
20	QPSK	750	0	20.99	20.99	20.97							
20	QPSK	750	24	20.96	20.99	20.98	22	0					
20	QPSK	800	0	20.99	20.99	20.97							
20	QPSK	800	24	20.96	20.99	20.98	22	0					
20	QPSK	850	0	20.99	20.99	20.97							
20	QPSK	850	24	20.96	20.99	20.98	22	0					
20	QPSK	900	0	20.99	20.99	20.97							
20	QPSK	900	24	20.96	20.99	20.98	22	0					
20	QPSK	950	0	20.99	20.99	20.97							
20	QPSK	950	24	20.96	20.99	20.98	22	0					
20	QPSK	1000	0	20.99	20.99	20.97							
20	QPSK	1000	24	20.96	20.99	20.98	22	0					
20	QPSK	1050	0	20.99	20.99	20.97							
20	QPSK	1050	24	20.96	20.99	20.98	22	0					
20	QPSK	1100	0	20.99	20.99	20.97							
20	QPSK	1100	24	20.96	20.99	20.98	22	0					
20	QPSK	1150	0	20.99	20.99	20.97							
20	QPSK	1150	24	20.96	20.99	20.98	22	0					
20	QPSK	1200	0	20.99	20.99	20.97							
20	QPSK	1200	24	20.96	20.99	20.98	22	0					
20	QPSK	1250	0	20.99	20.99	20.97							
20	QPSK	1250	24	20.96	20.99	20.98	22	0					
20	QPSK	1300	0	20.99	20.99	20.97							
20	QPSK	1300	24	20.96	20.99	20.98	22	0					
20	QPSK	1350	0	20.99	20.99	20.97							
20	QPSK	1350	24	20.96	20.99	20.98	22	0					
20	QPSK	1400	0	20.99	20.99	20.97							
20	QPSK	1400	24	20.96	20.99	20.98	22	0					
20	QPSK	1450	0	20.99	20.99	20.97							
20	QPSK	1450	24	20.96	20.99	20.98	22	0					
20	QPSK	1500	0	20.99	20.99	20.97							
20	QPSK	1500	24	20.96	20.99	20.98	22	0					
20	QPSK	1550	0	20.99	20.99	20.97							
20	QPSK	1550	24	20.96	20.99	20.98	22	0					
20	QPSK	1600	0	20.99	20.99	20.97							
20	QPSK	1600	24	20.96	20.99	20.98	22	0					
20	QPSK	1650	0	20.99	20.99	20.97							
20	QPSK	1650	24	20.96	20.99	20.98	22	0					
20	QPSK	1700	0	20.99	20.99	20.97							
20	QPSK	1700	24	20.96	20.99	20.98	22	0					
20	QPSK	1750	0	20.99	20.99	20.97							
20	QPSK	1750	24	20.96	20.99	20.98	22	0					
20	QPSK	1800	0	20.99	20.99	20.97							
20	QPSK	1800	24	20.96	20.99	20.98	22	0					
20	QPSK	1850	0	20.99	20.99	20.97							
20	QPSK	1850	24	20.96	20.99	20.98	22	0					
20	QPSK	1900	0	20.99	20.99	20.97							
20	QPSK	1900	24	20.96	20.99	20.98	22	0					
20	QPSK	1950	0	20.99	20.99	20.97							
20	QPSK	1950	24	20.96	20.99	20.98	22	0					
20	QPSK	2000	0	20.99	20.99	20.97							
20	QPSK	2000	24	20.96	20.99	20.98	22	0					
20	QPSK	2050	0	20.99	20.99	20.97							
20	QPSK	2050	24	20.96	20.99	20.98	22	0					
20	QPSK	2100	0	20.99	20.99	20.97							
20	QPSK	2100	24	20.96	20.99	20.98	22	0					
20	QPSK	2150	0	20.99	20.99	20.97							
20	QPSK	2150	24	20.96	20.99	20.98	22	0					
20	QPSK	2200	0	20.99	20.99	20.97							
20	QPSK	2200	24	20.96	20.99	20.98	22	0					
20	QPSK	2250	0	20.99	20.99	20.97							
20	QPSK	2250	24	20.96	20.99	20.98	22	0					
20	QPSK	2300	0	20.99	20.99	20.97							
20	QPSK	2300	24	20.96	20.99	20.98	22	0					
20	QPSK	2350	0	20.99	20.99	20.97							
20	QPSK	2350	24	20.96	20.99	20.98	22	0					
20	QPSK	2400	0	20.99	20.99	20.97							
20	QPSK	2400	24	20.96	20.99	20.98	22	0					
20	QPSK	2450	0	20.99	20.99	20.97							
20	QPSK	2450	24	20.96	20.99	20.98	22	0					
20	QPSK	2500	0	20.99	20.99	20.97							
20	QPSK	2500	24	20.96	20.99	20.98	22	0					
20	QPSK	2550	0	20.99	20.99	20.97							
20	QPSK	2550	24	20.96	20.99	20.98	22	0					
20	QPSK	2600	0	20.99	20.99	20.97							
20	QPSK	2600	24	20.96	20.99	20.98	22	0					
20	QPSK	2650	0	20.99	20.99	20.97							
20	QPSK	2650	24	20.9									



Band 12 Ant1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up Int. (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.81	21.73	21.68				
10	QPSK	1	25	21.90	21.80	21.52				
10	QPSK	1	49	21.47	21.49	21.92		23	0	
10	QPSK	25	0	21.60	21.70	21.55				
10	QPSK	25	12	21.65	21.63	21.63				
10	QPSK	25	25	21.46	21.48	21.46		23	0	
10	QPSK	50	0	21.51	21.57	21.45				
10	QPSK	50	12	21.55	21.50	21.51				
10	16QAM	1	25	21.40	21.48	21.36		23	0	
10	16QAM	1	49	21.35	21.46	21.44				
10	16QAM	25	0	21.39	21.50	21.49				
10	16QAM	25	12	21.34	21.40	21.40		22.5	0.5	
10	16QAM	25	25	21.38	21.39	21.41				
10	16QAM	50	0	21.50	21.50	21.40				
10	16QAM	1	0	21.34	21.50	21.36		22.5	0.5	
10	84QAM	1	25	21.26	21.26	21.53		22.5	0.5	
10	84QAM	1	49	21.24	21.38	21.28				
10	84QAM	25	0	20.49	20.53	20.43				
10	84QAM	25	12	20.57	20.43	20.31		21.5	1.5	
10	84QAM	25	25	20.33	20.34	20.33				
10	84QAM	50	0	20.25	20.27	20.31				
10	256QAM	1	25	18.44	18.62	18.46		19.5	3.5	
10	256QAM	1	49	18.41	18.37	18.33				
10	256QAM	25	0	18.36	18.36	18.42				
10	256QAM	25	12	18.26	18.37	18.36		19.5	3.5	
10	256QAM	25	25	18.24	18.32	18.32				
10	256QAM	50	0	18.33	18.42	18.30				
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.56	21.63	21.54				
5	QPSK	1	25	21.37	21.60	21.43				
5	QPSK	1	49	21.33	21.44	21.40		23	0	
5	QPSK	12	0	21.51	21.56	21.44				
5	QPSK	12	7	21.49	21.49	21.39				
5	QPSK	12	13	21.34	21.39	21.41		23	0	
5	QPSK	25	0	21.40	21.46	21.45				
5	16QAM	1	1	21.48	21.48	21.40				
5	16QAM	1	12	21.36	21.37	21.23		23	0	
5	16QAM	1	24	21.32	21.37	21.27				
5	16QAM	12	0	21.31	21.48	21.41				
5	16QAM	12	7	21.23	21.39	21.27		22.5	0.5	
5	16QAM	12	13	21.27	21.32	21.36				
5	16QAM	25	0	21.26	21.43	21.34				
5	84QAM	1	0	21.20	21.36	21.22		22.5	0.5	
5	84QAM	1	12	21.15	21.32	21.20				
5	84QAM	1	24	21.13	21.25	21.20				
5	84QAM	12	0	20.31	20.41	20.36		21.5	1.5	
5	84QAM	12	7	20.33	20.30	20.16				
5	84QAM	12	13	20.17	20.20	20.15				
5	84QAM	25	0	20.15	20.22	20.24				
5	256QAM	1	0	18.36	18.42	18.36		19.5	3.5	
5	256QAM	1	12	18.31	18.50	18.45				
5	256QAM	1	24	18.28	18.31	18.25				
5	256QAM	12	0	18.27	18.28	18.34				
5	256QAM	12	7	18.17	18.24	18.23		19.5	3.5	
5	256QAM	12	13	18.20	18.23	18.23				
5	256QAM	25	0	18.23	18.42	18.17				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	21.62	21.63	21.55				
1.4	QPSK	1	3	21.35	21.50	21.40				
1.4	QPSK	1	5	21.40	21.44	21.45		23	0	
1.4	QPSK	3	0	21.57	21.57	21.40				
1.4	QPSK	3	1	21.48	21.52	21.39				
1.4	QPSK	3	3	21.32	21.30	21.38		23	0	
1.4	16QAM	1	0	21.30	21.50	21.30				
1.4	16QAM	1	3	21.50	21.50	21.39				
1.4	16QAM	1	5	21.34	21.40	21.33				
1.4	16QAM	3	0	21.26	21.43	21.40		23	0	
1.4	16QAM	3	1	21.28	21.48	21.36				
1.4	16QAM	3	3	21.23	21.37	21.36				
1.4	84QAM	1	0	21.21	21.48	21.34		22.5	0.5	
1.4	84QAM	1	3	21.28	21.41	21.27				
1.4	84QAM	1	5	21.13	21.21	21.19				
1.4	84QAM	3	0	21.23	21.36	21.32		22.5	0.5	
1.4	84QAM	3	1	21.23	21.23	21.20				
1.4	84QAM	3	3	21.10	21.22	21.17				
1.4	84QAM	5	0	20.30	20.41	20.29		21.5	1.5	
1.4	256QAM	1	0	18.37	18.40	18.44		19.5	3.5	
1.4	256QAM	1	3	18.33	18.50	18.44				
1.4	256QAM	3	0	18.29	18.26	18.24				
1.4	256QAM	3	1	18.27	18.30	18.30				
1.4	256QAM	3	3	18.14	18.20	18.24		19.5	3.5	
1.4	256QAM	5	0	18.19	18.24	18.22				
1.4	256QAM	5	3	18.21	18.30	18.19		19.5	3.5	

Band 13 Ant1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up Int. (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.67	21.67	21.67				
10	QPSK	1	25	21.43	21.43	21.43		23	0	
10	QPSK	1	49	21.50	21.50	21.50				
10	QPSK	25	0	21.63	21.63	21.63				
10	QPSK	25	12	21.50	21.50	21.50				
10	QPSK	25	25	21.39	21.39	21.39		23	0	
10	QPSK	50	0	21.50	21.50	21.50				
10	16QAM	1	0	21.50	21.50	21.50				
10	16QAM	1	25	21.45	21.45	21.45				
10	16QAM	1	49	21.45	21.45	21.45				
10	16QAM	25	0	21.47	21.47	21.47				
10	16QAM	25	12	21.42	21.42	21.42		22.5	0.5	
10	16QAM	25	25	21.40	21.40	21.40				
10	16QAM	50	0	21.39	21.39	21.39				
10	84QAM	1	0	21.19	21.19	21.19				
10	84QAM	1	25	21.04	21.04	21.04		22.5	0.5	
10	84QAM	1	49	21.02	21.02	21.02				
10	84QAM	25	0	20.21	20.21	20.21				
10	84QAM	25	12	20.12	20.12	20.12		21.5	1.5	
10	84QAM	25	25	20.14	20.14	20.14				
10	84QAM	50	0	19.82	19.82	19.82				
10	256QAM	1	0	18.16	18.16	18.16		19.5	3.5	
10	256QAM	1	25	18.12	18.12	18.12				
10	256QAM	1	49	17.99	17.99	17.99				
10	256QAM	25	0	18.14	18.14	18.14				
10	256QAM	25	12	17.97	17.97	17.97		19.5	3.5	
10	256QAM	25	25	18.01	18.01	18.01				
10	256QAM	50	0	18.12	18.12	18.12				
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.53	21.62	21.58				
5	QPSK	1	12	21.42	21.44	21.34		23	0	
5	QPSK	1	24	21.42	21.38	21.46				
5	QPSK	12	0	21.54	21.57	21.49				
5	QPSK	12	7	21.48	21.45	21.36				
5	QPSK	12	13	21.32	21.32	21.35		23	0	
5	QPSK	25	0	21.48	21.46	21.45				
5	16QAM	1	0	21.47	21.37	21.38				
5	16QAM	1	12	21.32	21.31	21.30		23	0	
5	16QAM	1	24	21.28	21.27	21.42				
5	16QAM	12	0	21.33	21.33	21.42				
5	16QAM	12	7	21.35	21.36	21.38		22.5	0.5	
5	16QAM	12	13	21.28	21.27	21.28				
5	16QAM	25	0	21.28	21.32	21.32				
5	84QAM	1	0	21.08	21.14	21.14		22.5	0.5	
5	84QAM									



Band 25 Ant1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.00	21.11	21.06				
20	QPSK	1	49	20.84	20.95	20.90	22	0		
20	QPSK	1	99	20.68	20.80	20.87				
20	QPSK	50	0	20.92	21.06	20.96				
20	QPSK	25	0	20.84	20.95	20.90				
20	QPSK	50	50	20.76	20.87	20.80	22	0		
20	QPSK	100	0	20.89	21.02	20.94				
20	16QAM	1	0	20.87	21.00	20.93				
20	16QAM	1	49	20.83	20.89	20.89	22	0		
20	16QAM	1	99	20.78	20.85	20.84				
20	16QAM	50	0	20.84	21.00	20.94				
20	16QAM	50	24	20.77	20.90	20.81	22	0		
20	16QAM	50	50	20.74	20.79	20.75				
20	16QAM	100	0	20.82	20.94	20.78				
20	64QAM	1	0	20.88	21.00	20.97				
20	64QAM	1	49	20.92	20.97	20.89	22	0		
20	64QAM	1	99	20.89	20.89	20.80				
20	64QAM	50	0	20.89	21.01	20.89				
20	64QAM	25	24	20.81	20.89	20.84	22	0		
20	64QAM	50	50	20.75	20.75	20.74				
20	64QAM	100	0	20.86	20.92	20.92				
20	256QAM	1	0	17.89	18.07	17.86	19	3		
20	256QAM	1	49	17.92	18.07	17.88				
20	256QAM	1	99	17.77	17.84	17.77				
20	256QAM	50	0	17.86	17.92	17.86				
20	256QAM	50	24	17.80	17.85	17.84	19	3		
20	256QAM	50	50	17.71	17.82	17.78				
20	256QAM	100	0	17.82	17.88	17.78				
Channel										
Frequency (MHz)										
19	QPSK	1	0	20.89	21.07	20.96				
19	QPSK	1	49	20.75	20.81	20.79	22	0		
19	QPSK	1	74	20.75	20.84	20.75				
19	QPSK	36	0	20.83	20.94	20.91				
19	QPSK	36	20	20.80	20.77	20.77				
19	QPSK	36	36	20.62	20.70	20.74	22	0		
19	QPSK	75	0	20.82	20.96	20.88				
19	16QAM	1	0	20.86	20.98	20.88				
19	16QAM	1	37	20.77	20.83	20.79	22	0		
19	16QAM	1	74	20.69	20.87	20.86				
19	16QAM	36	0	20.71	20.86	20.71				
19	16QAM	36	20	20.71	20.88	20.74	22	0		
19	16QAM	75	0	20.78	20.81	20.81				
19	64QAM	1	0	20.83	21.06	20.86				
19	64QAM	1	37	20.75	20.80	20.77	22	0		
19	64QAM	1	74	20.74	20.85	20.70				
19	64QAM	36	0	20.78	20.86	20.75				
19	64QAM	36	20	20.82	20.83	20.60	22	0		
19	64QAM	75	0	20.77	20.81	20.88				
19	256QAM	1	0	17.86	18.03	17.86	19	3		
19	256QAM	1	37	17.88	18.03	17.78				
19	256QAM	1	74	17.83	17.71	17.73				
19	256QAM	36	0	17.86	17.86	17.86				
19	256QAM	36	20	17.69	17.78	17.77	19	3		
19	256QAM	36	36	17.86	17.78	17.87				
19	256QAM	75	0	17.82	17.86	17.80				
Channel										
Frequency (MHz)										
19	QPSK	1	0	20.84	21.00	20.92				
19	QPSK	1	26	20.78	20.83	20.88	22	0		
19	QPSK	1	49	20.78	20.80	20.73				
19	QPSK	12	0	20.78	20.86	20.86				
19	QPSK	25	10	20.77	20.77	20.78				
19	QPSK	25	25	20.63	20.78	20.73	22	0		
19	16QAM	1	0	20.80	20.86	20.86				
19	16QAM	1	26	20.74	20.78	20.79	22	0		
19	16QAM	25	0	20.77	20.91	20.75				
19	16QAM	25	12	20.68	20.85	20.74	22	0		
19	16QAM	25	25	20.68	20.84	20.80				
19	16QAM	50	0	20.78	20.81	20.85				
19	64QAM	1	0	20.80	21.00	20.89				
19	64QAM	1	49	20.77	20.80	20.77	22	0		
19	64QAM	1	49	20.84	20.80	20.88				
19	64QAM	25	0	20.79	20.88	20.74				
19	64QAM	25	12	20.68	20.82	20.72	22	0		
19	64QAM	25	25	20.65	20.68	20.62				
19	64QAM	50	0	20.71	20.91	20.81				
19	256QAM	1	0	17.87	18.03	17.80	19	3		
19	256QAM	1	26	17.88	17.99	17.74				
19	256QAM	1	49	17.81	17.75	17.82				
19	256QAM	12	0	17.86	17.82	17.82				
19	256QAM	25	12	17.74	17.71	17.77	19	3		
19	256QAM	25	25	17.84	17.74	17.74				
19	256QAM	50	0	17.82	17.86	17.78				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.84	21.00	20.92				
3	QPSK	1	14	20.89	20.81	20.89	22	0		
3	QPSK	8	0	20.81	21.00	20.81				
3	QPSK	8	4	20.73	20.83	20.70				
3	QPSK	8	7	20.69	20.70	20.71	22	0		
3	16QAM	1	0	20.81	20.94	20.83				
3	16QAM	1	0	20.81	20.89	20.86				
3	16QAM	8	0	20.78	20.84	20.85	22	0		
3	16QAM	12	13	20.64	20.74	20.67				
3	16QAM	16	0	20.69	20.84	20.83				
3	64QAM	1	0	20.85	21.04	20.91				
3	64QAM	1	0	20.86	20.89	20.81	22	0		
3	64QAM	1	24	20.77	20.79	20.89				
3	64QAM	12	0	20.79	20.92	20.84				
3	64QAM	12	7	20.77	20.74	20.70	22	0		
3	64QAM	12	13	20.59	20.68	20.83				
3	64QAM	25	0	20.74	20.84	20.86				
3	256QAM	1	0	17.77	18.03	17.77	19	3		
3	256QAM	1	12	17.81	18.02	17.74				
3	256QAM	1	24	17.73	17.70	17.69				
3	256QAM	12	0	17.76	17.78	17.75				
3	256QAM	12	7	17.70	17.71	17.74	19	3		
3	256QAM	12	10	17.82	17.70	17.74				
3	256QAM	25	0	17.83	18.04	17.83				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.86	20.90	20.85				
3	QPSK	1	8	20.75	20.83	20.87	22	0		
3	QPSK	1	14	20.71	20.87	20.79				
3	QPSK	8	0	20.81	21.00	20.81				
3	QPSK	8	4	20.73	20.83	20.70				
3	QPSK	8	7	20.69	20.70	20.71	22	0		
3	16QAM	1	0	20.81	20.94	20.83				
3	16QAM	1	0	20.81	20.89	20.86				
3	16QAM	8	0	20.78	20.84	20.85	22	0		
3	16QAM	12	13	20.65	20.75	20.72				
3	16QAM	16	0	20.76	20.86	20.79				
3	64QAM	1	0	20.84	21.00	20.87				
3	64QAM	1	0	20.86	20.90	20.76	22	0		
3	64QAM	1	14	20.81	20.76	20.69				
3	64QAM	8	0	20.76	20.86	20.79				
3	64QAM	8	7	20.64	20.63	20.67	22	0		
3	256QAM	1	0	17.85	17.96	17.85				
3	256QAM	1	8	17.81	17.86	17.83	19	3		
3	256QAM	1	14	17.77	17.69	17.63				
3	256QAM	8	0	17.75	17.83	17.83				
3	256QAM	8	4	17.74	17.73	17.76	19	3		
3	256QAM	8	7	17.66	17.73	17.66				
3	256QAM	16	0	17.82	17.83	17.83				
Channel										
Frequency (MHz)										



Band 66 Ant1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Turn-up (min)	APR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.03	21.12	20.97	22	0		
20	QPSK	1	49	20.91	21.00	20.85				
20	QPSK	1	99	20.86	20.90	20.79				
20	QPSK	50	0	20.87	21.07	20.96				
20	QPSK	50	24	20.83	20.98	20.84				
20	QPSK	50	50	20.80	20.87	20.88				
20	QPSK	100	0	20.84	20.95	20.82				
20	16QAM	1	0	20.90	20.92	20.87				
20	16QAM	1	49	20.74	20.80	20.80				
20	16QAM	1	99	20.78	20.82	20.73				
20	16QAM	50	0	20.71	20.97	20.79				
20	16QAM	50	24	20.84	20.88	20.85				
20	16QAM	50	50	20.83	20.89	20.89				
20	16QAM	100	0	20.82	20.90	20.82				
20	64QAM	1	0	20.81	20.92	20.74				
20	64QAM	1	49	20.75	20.86	20.77				
20	64QAM	1	99	20.85	20.90	20.80				
20	64QAM	50	0	20.81	20.79	20.69				
20	64QAM	50	24	20.59	20.70	20.56				
20	64QAM	50	50	20.56	20.60	20.49				
20	64QAM	100	0	20.74	20.83	20.82				
20	256QAM	1	0	17.69	17.80	17.65				
20	256QAM	1	49	17.93	17.95	17.95				
20	256QAM	1	99	17.79	17.80	17.85				
20	256QAM	50	0	17.85	17.75	17.85				
20	256QAM	50	24	17.60	17.58	17.52				
20	256QAM	50	50	17.47	17.58	17.47				
20	256QAM	100	0	17.73	17.52	17.60				
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.92	21.07	20.92	22	0		
15	QPSK	1	39	20.78	20.90	20.79				
15	QPSK	1	74	20.77	20.76	20.71				
15	QPSK	36	0	20.78	21.01	20.83				
15	QPSK	36	20	20.75	20.79	20.79				
15	QPSK	36	39	20.87	20.83	20.79				
15	QPSK	75	0	20.74	20.82	20.74				
15	16QAM	1	0	20.81	20.83	20.75				
15	16QAM	1	37	20.73	20.83	20.77				
15	16QAM	1	74	20.69	20.78	20.81				
15	16QAM	36	0	20.99	20.74	20.84				
15	16QAM	36	20	20.54	20.54	20.51				
15	16QAM	36	39	20.59	20.60	20.48				
15	16QAM	75	0	20.75	20.88	20.70				
15	64QAM	1	0	20.71	20.80	20.69				
15	64QAM	1	37	20.63	20.69	20.68				
15	64QAM	1	74	20.54	20.55	20.55				
15	64QAM	36	0	20.56	20.70	20.62				
15	64QAM	36	20	20.53	20.48	20.48				
15	64QAM	36	39	20.48	20.52	20.38				
15	64QAM	75	0	20.87	20.89	20.88				
15	256QAM	1	0	17.76	17.80	17.81				
15	256QAM	1	37	17.78	17.83	17.83				
15	256QAM	1	74	17.85	17.85	17.81				
15	256QAM	36	0	17.46	17.73	17.60				
15	256QAM	36	20	17.47	17.53	17.41				
15	256QAM	36	39	17.37	17.50	17.33				
15	256QAM	75	0	17.44	17.43	17.74				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.71	21.01	20.71	22	0		
10	QPSK	1	25	20.83	20.89	20.71				
10	QPSK	1	49	20.82	20.78	20.72				
10	QPSK	25	0	20.78	20.98	20.88				
10	QPSK	25	12	20.68	20.78	20.79				
10	QPSK	25	25	20.76	20.81	20.74				
10	16QAM	1	0	20.81	20.83	20.74				
10	16QAM	1	25	20.66	20.75	20.74				
10	16QAM	1	49	20.73	20.80	20.84				
10	16QAM	25	0	20.58	20.81	20.65				
10	16QAM	25	12	20.54	20.58	20.60				
10	16QAM	25	25	20.56	20.58	20.48				
10	64QAM	1	0	20.72	20.86	20.71				
10	64QAM	1	25	20.81	20.72	20.64				
10	64QAM	1	49	20.51	20.55	20.58				
10	64QAM	25	0	20.47	20.71	20.57				
10	64QAM	25	12	20.48	20.48	20.43				
10	64QAM	25	25	20.47	20.46	20.45				
10	64QAM	50	0	20.87	20.79	20.75				
10	256QAM	1	0	17.86	17.82	17.82				
10	256QAM	1	25	17.86	17.86	17.87				
10	256QAM	1	49	17.85	17.78	17.79				
10	256QAM	25	0	17.53	17.43	17.59				
10	256QAM	25	12	17.57	17.52	17.45				
10	256QAM	25	25	17.36	17.46	17.43				
10	256QAM	50	0	17.62	17.62	17.78				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.71	20.80	20.65	22	0		
5	QPSK	1	12	20.85	20.92	20.79				
5	QPSK	1	24	20.80	20.82	20.68				
5	QPSK	12	0	20.75	20.86	20.65				
5	QPSK	12	7	20.76	20.70	20.71				
5	QPSK	12	13	20.87	20.80	20.79				
5	QPSK	25	0	20.73	20.85	20.67				
5	16QAM	1	0	20.81	20.80	20.76				
5	16QAM	1	12	20.84	20.73	20.75				
5	16QAM	1	24	20.75	20.72	20.60				
5	16QAM	12	0	20.67	20.72	20.84				
5	16QAM	12	7	20.58	20.57	20.60				
5	16QAM	12	13	20.50	20.50	20.54				
5	64QAM	1	0	20.76	20.88	20.69				
5	64QAM	1	12	20.82	20.71	20.64				
5	64QAM	1	24	20.82	20.54	20.61				
5	64QAM	12	0	20.53	20.67	20.60				
5	64QAM	12	7	20.48	20.59	20.49				
5	64QAM	12	13	20.50	20.53	20.39				
5	64QAM	25	0	20.70	20.77	20.76				
5	256QAM	1	0	17.82	17.80	17.83				
5	256QAM	1	12	17.80	17.80	17.82				
5	256QAM	1	24	17.70	17.76	17.71				
5	256QAM	12	0	17.55	17.63	17.69				
5	256QAM	12	7	17.54	17.50	17.47				
5	256QAM	12	13	17.39	17.49	17.44				
5	256QAM	25	0	17.44	17.38	17.75				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.11	21.08	20.12	22	0		
3	QPSK	1	8	20.85	20.86	20.74				
3	QPSK	1	14	20.75	20.85	20.66				
3	QPSK	8	0	20.72	20.83	20.68				
3	QPSK	8	4	20.74	20.80	20.80				
3	QPSK	8	7	20.69	20.82	20.85				
3	QPSK	15	0	20.74	20.84	20.78				
3	16QAM	1	0	20.87	20.82	20.80				
3	16QAM	1	8	20.83	20.77	20.73				
3	16QAM	1	14	20.70	20.68	20.67				
3	16QAM	8	0	20.80	20.83	20.74				
3	16QAM	8	4	20.55	20.53	20.58				
3	16QAM	8	7	20.55	20.61	20.55				
3	64QAM	1	0	20.69	20.82	20.64				
3	64QAM	1	8	20.84	20.72	20.64				
3	64QAM	1	14	20.51	20.57	20.59				
3	64QAM	8	0	20.49	20.80	20.69				
3	64QAM	8	4	20.45	20.61	20.46				
3	64QAM	8	7	20.49	20.53	20.43				
3	256QAM	1	0	17.84	17.80	17.89				
3	256QAM									



Band 38 Ant1									
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)									
20	QPSK	1	0	22.41	22.53	22.59	23	0	
20	QPSK	1	49	22.32	22.35	22.39	23	0	
20	QPSK	50	24	22.29	22.29	22.29	23	0	
20	QPSK	50	0	22.29	22.48	22.59	23	0	
20	QPSK	50	24	22.24	22.36	22.52	23	0	
20	QPSK	100	0	22.26	22.45	22.53	23	0	
20	16QAM	1	0	22.35	22.51	22.59	23	0	
20	16QAM	1	49	22.31	22.35	22.38	23	0	
20	16QAM	1	99	22.27	22.30	22.24	23	0	
20	16QAM	50	0	21.97	22.14	21.96	22.5	0.5	
20	16QAM	50	24	21.91	21.95	21.93	22.5	0.5	
20	16QAM	50	50	21.88	21.92	21.89	22.5	0.5	
20	16QAM	100	0	21.99	22.09	21.96	22.5	0.5	
20	16QAM	100	24	21.93	22.04	22.22	22.5	0.5	
20	16QAM	100	49	21.93	22.11	22.03	22.5	0.5	
20	16QAM	50	0	21.93	22.05	21.96	22.5	0.5	
20	16QAM	50	24	21.89	22.03	21.90	22.5	0.5	
20	16QAM	50	50	21.90	21.94	21.85	22.5	0.5	
20	16QAM	100	0	21.91	22.05	21.96	22.5	0.5	
20	16QAM	100	24	21.83	22.00	21.86	22.5	0.5	
20	16QAM	100	49	21.79	22.00	21.78	22.5	0.5	
20	16QAM	100	99	21.76	21.77	21.87	22.5	0.5	
20	16QAM	50	0	21.97	22.16	21.87	22.5	0.5	
20	16QAM	50	24	21.87	21.95	21.86	22.5	0.5	
20	16QAM	50	50	21.89	21.85	21.84	22.5	0.5	
20	16QAM	100	0	21.90	21.95	21.86	22.5	0.5	
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.17	22.09	22.15	23	0	
15	QPSK	1	37	22.18	22.23	22.20	23	0	
15	QPSK	1	74	22.12	22.20	22.21	23	0	
15	QPSK	36	0	22.12	22.33	22.34	23	0	
15	QPSK	36	20	22.14	22.22	22.19	23	0	
15	QPSK	36	36	22.11	22.16	22.17	23	0	
15	QPSK	75	0	22.18	22.38	22.23	23	0	
15	16QAM	1	0	22.28	22.39	22.27	23	0	
15	16QAM	1	37	22.21	22.34	22.25	23	0	
15	16QAM	1	74	22.15	22.25	22.15	23	0	
15	16QAM	36	0	21.94	22.08	21.82	23	0	
15	16QAM	36	20	21.92	22.04	21.86	23	0	
15	16QAM	36	36	21.78	21.84	21.86	23	0	
15	16QAM	75	0	21.81	22.08	21.94	23	0	
15	16QAM	75	0	21.73	21.97	22.38	23	0	
15	16QAM	1	37	22.17	22.28	22.23	23	0	
15	16QAM	1	74	22.06	22.11	22.15	23	0	
15	16QAM	36	0	21.85	21.96	21.87	23	0	
15	16QAM	36	20	21.83	21.92	21.78	23	0	
15	16QAM	36	36	21.88	21.82	21.86	23	0	
15	16QAM	75	0	21.82	21.91	21.85	23	0	
15	16QAM	1	0	21.77	21.80	21.81	23	0	
15	16QAM	1	37	21.78	21.81	21.72	23	0	
15	16QAM	1	74	21.87	21.74	21.74	23	0	
15	16QAM	36	0	21.86	21.11	21.82	23	0	
15	16QAM	36	20	21.84	21.84	21.82	23	0	
15	16QAM	36	36	21.85	21.88	21.84	23	0	
15	16QAM	75	0	21.89	21.90	21.86	23	0	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.28	22.47	22.47	23	0	
10	QPSK	1	25	22.23	22.30	22.27	23	0	
10	QPSK	1	49	22.19	22.21	22.25	23	0	
10	QPSK	12	0	22.29	22.36	22.27	23	0	
10	QPSK	25	12	22.21	22.29	22.25	23	0	
10	QPSK	25	25	22.14	22.20	22.22	23	0	
10	16QAM	1	0	22.14	22.37	22.28	23	0	
10	16QAM	1	0	22.25	22.38	22.31	23	0	
10	16QAM	1	25	22.27	22.23	22.18	23	0	
10	16QAM	1	49	22.16	22.16	22.12	23	0	
10	16QAM	25	0	21.85	22.03	21.80	23	0	
10	16QAM	25	12	21.87	21.81	21.86	23	0	
10	16QAM	25	25	21.78	21.85	21.77	23	0	
10	16QAM	1	0	21.78	21.82	21.79	23	0	
10	16QAM	1	25	21.84	21.81	21.86	23	0	
10	16QAM	1	49	21.82	21.73	21.88	23	0	
10	16QAM	25	0	21.83	21.11	21.88	23	0	
10	16QAM	25	12	21.86	21.83	21.84	23	0	
10	16QAM	25	25	21.77	21.84	21.87	23	0	
10	16QAM	50	0	21.81	21.84	21.88	23	0	
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.26	22.40	22.42	23	0	
5	QPSK	1	19	22.27	22.21	22.34	23	0	
5	QPSK	1	24	22.17	22.17	22.21	23	0	
5	QPSK	12	0	22.19	22.24	22.28	23	0	
5	QPSK	12	7	22.19	22.20	22.22	23	0	
5	QPSK	12	19	22.21	22.21	22.17	23	0	
5	QPSK	25	0	22.21	22.31	22.23	23	0	
5	QPSK	25	0	22.31	22.41	22.34	23	0	
5	16QAM	1	12	22.21	22.24	22.13	23	0	
5	16QAM	1	24	22.13	22.17	22.18	23	0	
5	16QAM	12	0	21.89	22.08	21.90	23	0	
5	16QAM	12	7	21.81	21.89	21.88	23	0	
5	16QAM	12	13	21.80	21.86	21.85	23	0	
5	16QAM	25	0	21.85	22.04	21.85	23	0	
5	16QAM	1	0	22.20	22.38	22.24	23	0	
5	16QAM	1	12	22.14	22.25	22.20	23	0	
5	16QAM	1	24	22.04	22.14	22.08	23	0	
5	16QAM	12	0	21.96	22.08	21.86	23	0	
5	16QAM	12	7	21.78	21.85	21.82	23	0	
5	16QAM	12	13	21.78	21.79	21.73	23	0	
5	16QAM	25	0	21.78	21.90	21.90	23	0	
5	16QAM	1	0	21.73	21.88	21.71	23	0	
5	16QAM	1	12	21.72	21.87	21.85	23	0	
5	16QAM	1	24	21.84	21.73	21.70	23	0	
5	16QAM	12	0	21.82	21.81	21.84	23	0	
5	16QAM	12	13	21.85	21.88	21.80	23	0	
5	16QAM	25	0	21.85	21.85	21.81	23	0	

Band 41 FCC Ant1									
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)									
20	QPSK	1	0	23.67	23.70	23.73	24	0	
20	QPSK	1	49	23.55	23.62	23.65	24	0	
20	QPSK	50	24	23.48	23.59	23.60	24	0	
20	QPSK	50	0	23.59	23.50	23.60	24	0	
20	QPSK	50	24	23.50	23.52	23.60	24	0	
20	QPSK	100	0	23.60	23.58	23.60	24	0	
20	16QAM	1	0	23.69	23.67	23.68	24	0	
20	16QAM	1	49	23.68	23.62	23.70	24	0	
20	16QAM	1	99	23.67	23.58	23.72	24	0	
20	16QAM	50	0	23.62	23.62	23.62	24	0	
20	16QAM	50	24	23.56	23.51	23.64	24	0	
20	16QAM	50	50	23.58	23.52	23.60	24	0	
20	16QAM	100	0	23.68	23.68	23.68	24	0	
20	16QAM	100	24	23.62	23.58	23.64	24	0	
20	16QAM	100	49	23.62	23.58	23.64	24	0	
20	16QAM	50	0	23.65	23.65	23.65	24	0	
20	16QAM	50	24	23.58	23.58	23.64	24	0	
20	16QAM	50	50	23.58	23.58	23.64	24	0	
20	16QAM	100	0	23.68	23.67	23.70	24	0	
20	16QAM	100	24	23.62	23.58	23.64	24	0	
20	16QAM	100	49	23.62	23.58	23.64	24	0	
20	16QAM	50	0	23.65	23.65	23.65	24	0	
20	16QAM	50	24	23.58	23.58	23.64	24	0	
20	16QAM	50	50	23.58	23.58	23.64	24	0	
20	16QAM	100	0	23.68	23.67	23.70	24	0	
20	16QAM	100	24						



Band 41 PC2 FCC Ant1											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up Int (dBm)	MPR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	25.56	25.47	25.61	25.51	25.65	25.55	27	0
20	QPSK	1	49	25.33	25.40	25.58	25.35	25.53	25.43	27	0
20	QPSK	50	0	25.29	25.33	25.61	25.21	25.41	25.39	27	0
20	QPSK	50	24	25.33	25.30	25.49	25.29	25.37	25.35	27	0
20	QPSK	100	0	25.27	25.29	25.46	25.27	25.33	25.32	27	0
20	QPSK	100	24	25.18	25.22	25.35	25.18	25.26	25.24	27	0
20	16QAM	1	0	25.18	25.28	25.42	25.23	25.34	25.31	27	0
20	16QAM	1	49	25.20	25.14	25.39	25.18	25.28	25.26	27	0
20	16QAM	1	99	25.18	25.13	25.35	25.12	25.27	25.27	27	0
20	16QAM	50	0	24.29	24.40	24.53	24.24	24.44	24.44	26	1
20	16QAM	50	24	24.30	24.26	24.50	24.27	24.42	24.42	26	1
20	16QAM	50	50	24.21	24.24	24.46	24.22	24.39	24.39	26	1
20	16QAM	100	0	24.29	24.22	24.45	24.19	24.39	24.39	26	1
20	16QAM	100	24	24.27	24.05	24.30	24.27	24.25	24.25	26	1
20	16QAM	100	49	24.55	24.52	24.74	24.54	24.66	24.66	26	1
20	16QAM	100	74	24.52	24.55	24.78	24.50	24.65	24.65	26	1
20	16QAM	50	0	23.37	23.35	23.56	23.30	23.45	23.45	25	2
20	16QAM	50	24	23.33	23.33	23.53	23.31	23.45	23.45	25	2
20	16QAM	50	50	23.35	23.25	23.49	23.33	23.44	23.44	25	2
20	16QAM	100	0	23.23	23.29	23.44	23.31	23.33	23.33	25	2
20	256QAM	1	0	21.81	21.69	21.88	21.44	21.68	21.68	23	4
20	256QAM	1	49	21.29	21.41	21.61	21.42	21.52	21.52	23	4
20	256QAM	1	99	21.30	21.36	21.55	21.41	21.51	21.51	23	4
20	256QAM	50	0	21.27	21.29	21.44	21.24	21.45	21.45	23	4
20	256QAM	50	24	21.27	21.23	21.46	21.24	21.39	21.39	23	4
20	256QAM	50	50	21.23	21.26	21.41	21.26	21.35	21.35	23	4
20	256QAM	100	0	21.15	21.12	21.34	21.15	21.24	21.24	23	4
Channel											
Frequency (MHz)											
15	QPSK	1	0	24.47	24.33	24.51	24.31	24.52	24.42	27.00	0
15	QPSK	1	37	24.28	24.33	24.46	24.29	24.46	24.46	27.00	0
15	QPSK	1	74	24.15	24.26	24.38	24.24	24.30	24.30	27.00	0
15	QPSK	1	111	24.25	24.24	24.46	24.24	24.39	24.39	27.00	0
15	QPSK	36	20	24.13	24.15	24.43	24.21	24.25	24.25	27	0
15	QPSK	36	39	24.04	24.06	24.30	24.17	24.24	24.24	27	0
15	QPSK	75	0	24.04	24.06	24.28	24.17	24.24	24.24	27	0
15	16QAM	1	0	24.05	24.14	24.32	24.18	24.28	24.28	27	0
15	16QAM	1	37	24.05	24.11	24.31	24.03	24.29	24.29	27	0
15	16QAM	1	74	24.10	24.00	24.28	24.07	24.21	24.21	27	0
15	16QAM	36	0	24.17	24.33	24.39	24.24	24.35	24.35	26	1
15	16QAM	36	20	24.25	24.15	24.44	24.25	24.31	24.31	26	1
15	16QAM	36	39	24.11	24.09	24.27	24.10	24.26	24.26	26	1
15	16QAM	75	0	24.20	24.08	24.29	24.05	24.17	24.17	26	1
15	16QAM	75	0	24.44	24.27	24.72	24.47	24.75	24.75	26	1
15	16QAM	1	37	24.49	24.48	24.83	24.48	24.85	24.85	26	1
15	16QAM	74	24	24.42	24.42	24.82	24.26	24.81	24.81	26	1
15	16QAM	36	0	24.26	24.22	24.47	24.22	24.33	24.33	25	2
15	16QAM	36	20	24.23	24.28	24.49	24.19	24.34	24.34	25	2
15	16QAM	36	39	24.23	24.16	24.38	24.21	24.29	24.29	25	2
15	16QAM	75	0	24.19	24.25	24.32	24.15	24.23	24.23	25	2
15	256QAM	1	0	21.44	21.44	21.54	21.33	21.45	21.45	23	4
15	256QAM	1	37	21.26	21.29	21.51	21.31	21.42	21.42	23	4
15	256QAM	1	74	21.25	21.29	21.52	21.31	21.41	21.41	23	4
15	256QAM	36	0	21.28	21.27	21.39	21.26	21.30	21.30	23	4
15	256QAM	36	20	21.22	21.14	21.34	21.13	21.27	21.27	23	4
15	256QAM	36	39	21.14	21.22	21.37	21.12	21.30	21.30	23	4
15	256QAM	75	0	21.08	21.10	21.21	21.00	21.10	21.10	23	4
Channel											
Frequency (MHz)											
10	QPSK	1	0	24.38	24.27	24.47	24.27	24.48	24.48	27.00	0
10	QPSK	1	25	24.25	24.31	24.46	24.25	24.42	24.42	27.00	0
10	QPSK	1	49	24.21	24.18	24.38	24.17	24.37	24.37	27	0
10	QPSK	25	12	24.22	24.18	24.35	24.22	24.34	24.34	27	0
10	QPSK	25	25	24.17	24.21	24.43	24.22	24.28	24.28	27	0
10	QPSK	25	25	24.04	24.13	24.35	24.10	24.14	24.14	27	0
10	16QAM	1	0	24.06	24.20	24.30	24.17	24.24	24.24	27	0
10	16QAM	1	25	24.06	24.05	24.33	24.10	24.25	24.25	27	0
10	16QAM	1	49	24.09	24.07	24.30	24.17	24.24	24.24	27	0
10	16QAM	25	0	24.21	24.28	24.44	24.25	24.39	24.39	26	1
10	16QAM	25	12	24.23	24.19	24.46	24.18	24.29	24.29	26	1
10	16QAM	25	25	24.15	24.11	24.43	24.17	24.35	24.35	26	1
10	16QAM	50	0	24.17	24.12	24.31	24.16	24.22	24.22	26	1
10	16QAM	50	12	24.44	24.56	24.74	24.48	24.63	24.63	26	1
10	16QAM	1	25	24.43	24.48	24.80	24.49	24.61	24.61	26	1
10	16QAM	1	49	24.38	24.51	24.59	24.41	24.56	24.56	26	1
10	16QAM	25	0	23.23	23.28	23.51	23.21	23.38	23.38	25	2
10	16QAM	25	12	23.29	23.27	23.41	23.17	23.32	23.32	25	2
10	16QAM	25	25	23.25	23.12	23.45	23.19	23.38	23.38	25	2
10	16QAM	50	0	23.14	23.16	23.35	23.25	23.25	23.25	25	2
10	256QAM	1	0	21.45	21.46	21.56	21.35	21.48	21.48	23	4
10	256QAM	1	25	21.29	21.34	21.51	21.37	21.48	21.48	23	4
10	256QAM	1	49	21.26	21.25	21.47	21.33	21.42	21.42	23	4
10	256QAM	25	0	21.33	21.29	21.44	21.25	21.41	21.41	23	4
10	256QAM	25	12	21.29	21.11	21.35	21.18	21.39	21.39	23	4
10	256QAM	25	25	21.11	21.14	21.27	21.11	21.25	21.25	23	4
10	256QAM	50	0	21.04	21.04	21.24	21.09	21.18	21.18	23	4
Channel											
Frequency (MHz)											
5	QPSK	1	0	24.58	24.43	24.63	24.43	24.65	24.65	27.00	0
5	QPSK	1	12	24.37	24.39	24.54	24.38	24.47	24.47	27.00	0
5	QPSK	1	24	24.22	24.27	24.44	24.25	24.43	24.43	27	0
5	QPSK	10	0	24.10	24.27	24.38	24.21	24.32	24.32	27	0
5	QPSK	10	7	24.17	24.25	24.32	24.23	24.32	24.32	27	0
5	QPSK	12	18	24.09	24.17	24.28	24.07	24.23	24.23	27	0
5	QPSK	25	0	24.10	24.04	24.35	24.12	24.17	24.17	27	0
5	QPSK	25	0	24.09	24.19	24.32	24.18	24.23	24.23	27	0
5	16QAM	1	12	24.15	24.00	24.27	24.05	24.22	24.22	27	0
5	16QAM	1	24	24.07	24.02	24.26	24.04	24.16	24.16	27	0
5	16QAM	12	0	24.22	24.35	24.43	24.28	24.41	24.41	26	1
5	16QAM	12	7	24.24	24.18	24.44	24.12	24.36	24.36	26	1
5	16QAM	12	13	24.11	24.13	24.32	24.16	24.35	24.35	26	1
5	16QAM	25	0	24.18	24.16	24.30	24.08	24.18	24.18	26	1
5	16QAM	1	0	24.40	24.83	24.72	24.45	24.72	24.72	26	1
5	16QAM	1	12	24.46	24.43	24.68	24.39	24.66	24.66	26	1
5	16QAM	1	24	24.45	24.41	24.58	24.42	24.53	24.53		



COM1900 Awd									
Line/Type	Build Average Power (dBm)			Tune-up	Frame Average Power (dBm)			Tune-up	
Tx Channel	812	861	810	Limit	812	861	810	Limit	
Received (dBm)	180.2	180.3	180.8	(dBm)	180.2	180.0	180.8	(dBm)	
COM 1 Tx Wd	28.25	28.33	28.19	29.00	19.25	19.33	19.10	20.00	
OPNS 1 Tx Wd	28.23	28.20	28.13	29.00	19.23	19.20	19.13	20.00	
OPNS 2 Tx Wd	25.46	25.52	25.40	26.00	17.46	17.52	17.40	20.00	
OPNS 3 Tx Wd	23.98	24.13	24.00	25.00	15.72	15.87	15.74	20.74	
OPNS 4 Tx Wd	21.92	22.00	21.98	23.00	13.92	13.99	13.98	20.00	
EDGE 1 Tx Wd	23.59	23.64	23.61	24.50	14.59	14.64	14.61	15.50	
EDGE 2 Tx Wd	21.56	21.60	21.62	22.50	12.56	12.60	12.62	17.50	
EDGE 3 Tx Wd	20.78	20.85	20.70	21.50	11.78	11.85	11.64	17.34	
EDGE 4 Tx Wd	18.71	18.74	18.68	19.50	10.71	10.74	10.68	16.50	

WCCMA I Awd									
Band	WCCMA II			Tune-up	WCCMA IV			Tune-up	
Tx Channel	9862	9900	9938	Limit	1512	1513	1513	Limit	
Rx Channel	9902	9900	9938	(dBm)	1537	1538	1538	(dBm)	
Received (dBm)	89.24	89.8	89.8		172.4	178.9	174.6		
SOPP Rel 50	AWR 12 200us	21.00	21.50	21.46	23.00	21.42	21.44	21.37	23.00
SOPP Rel 50	RMC 15 200us	21.54	21.52	21.49	23.00	21.47	21.53	21.44	23.00
SOPP Rate 1	HEOPA Subclass 1	20.93	20.74	20.49	22.00	20.37	20.68	20.52	22.00
SOPP Rate 2	HEOPA Subclass 2	20.58	20.60	20.53	22.00	20.47	20.61	20.43	22.00
SOPP Rate 3	HEOPA Subclass 3	20.11	20.27	20.34	21.00	19.51	20.24	19.69	21.00
SOPP Rate 4	HEOPA Subclass 4	20.02	20.18	20.09	21.00	19.38	20.06	20.02	21.00
SOPP Rate 5	DC-HEOPA Subclass 1	20.55	20.73	20.51	22.00	20.40	20.50	20.39	22.00
SOPP Rate 6	DC-HEOPA Subclass 2	20.34	20.41	20.40	22.00	20.25	20.37	20.31	22.00
SOPP Rate 7	DC-HEOPA Subclass 3	19.88	19.98	19.84	21.50	19.80	19.87	19.83	21.50
SOPP Rate 8	DC-HEOPA Subclass 4	19.93	19.90	19.92	21.50	19.78	19.90	19.84	21.50
SOPP Rate 9	HEOPA Subclass 1	20.59	20.72	20.71	22.00	20.49	20.63	20.60	22.00
SOPP Rate 10	HEOPA Subclass 2	20.52	20.60	20.45	22.00	20.44	20.49	20.29	22.00
SOPP Rate 11	HEOPA Subclass 3	19.58	19.62	19.60	21.00	19.49	19.51	19.48	21.00
SOPP Rate 12	HEOPA Subclass 4	18.43	18.27	18.41	20.00	18.38	18.44	18.33	20.00
SOPP Rate 13	HEOPA Subclass 5	20.92	20.92	20.92	22.00	20.49	20.53	20.49	22.00



Band 2 Ant2										
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (dB)	MPR (dB)		
Channel				Ch. 1 / Freq.	Ch. 2 / Freq.	Ch. 3 / Freq.				
20	QPSK	1	0	21.12	21.24	21.07				
20	QPSK	1	49	20.92	21.04	20.92				
20	QPSK	1	99	20.92	21.04	20.92				
20	QPSK	50	0	21.06	21.20	21.10				
20	QPSK	50	24	21.06	21.20	21.06				
20	QPSK	50	50	20.88	21.01	20.86				
20	QPSK	100	0	21.01	21.12	21.03				
20	QPSK	100	24	21.01	21.12	21.01				
20	QPSK	150	0	20.94	21.03	20.94				
20	QPSK	150	24	20.94	21.03	20.94				
20	QPSK	150	50	20.76	20.86	20.81				
20	QPSK	150	75	20.92	21.01	20.92				
20	QPSK	1	0	20.97	21.18	21.10				
20	QPSK	1	49	21.01	21.07	21.02				
20	QPSK	1	99	20.93	21.06	20.96				
20	QPSK	50	0	19.87	19.97	19.84				
20	QPSK	50	24	19.79	19.94	19.73				
20	QPSK	50	50	19.92	20.00	19.90				
20	QPSK	100	0	18.92	19.04	18.98				
20	QPSK	100	24	18.92	19.04	18.98				
20	QPSK	100	50	18.76	18.86	18.81				
20	QPSK	100	75	18.92	19.01	18.92				
20	QPSK	150	0	18.05	18.20	17.99				
20	QPSK	150	24	18.02	18.08	18.02				
20	QPSK	150	50	18.13	18.24	18.13				
20	QPSK	150	75	17.86	17.96	17.86				
20	QPSK	150	100	17.86	17.86	17.86				
20	QPSK	150	125	17.86	17.86	17.86				
20	QPSK	150	150	17.86	17.86	17.86				
20	QPSK	150	175	17.86	17.86	17.86				
20	QPSK	150	200	17.86	17.86	17.86				
20	QPSK	150	225	17.86	17.86	17.86				
20	QPSK	150	250	17.86	17.86	17.86				
20	QPSK	150	275	17.86	17.86	17.86				
20	QPSK	150	300	17.86	17.86	17.86				
20	QPSK	150	325	17.86	17.86	17.86				
20	QPSK	150	350	17.86	17.86	17.86				
20	QPSK	150	375	17.86	17.86	17.86				
20	QPSK	150	400	17.86	17.86	17.86				
20	QPSK	150	425	17.86	17.86	17.86				
20	QPSK	150	450	17.86	17.86	17.86				
20	QPSK	150	475	17.86	17.86	17.86				
20	QPSK	150	500	17.86	17.86	17.86				
20	QPSK	150	525	17.86	17.86	17.86				
20	QPSK	150	550	17.86	17.86	17.86				
20	QPSK	150	575	17.86	17.86	17.86				
20	QPSK	150	600	17.86	17.86	17.86				
20	QPSK	150	625	17.86	17.86	17.86				
20	QPSK	150	650	17.86	17.86	17.86				
20	QPSK	150	675	17.86	17.86	17.86				
20	QPSK	150	700	17.86	17.86	17.86				
20	QPSK	150	725	17.86	17.86	17.86				
20	QPSK	150	750	17.86	17.86	17.86				
20	QPSK	150	775	17.86	17.86	17.86				
20	QPSK	150	800	17.86	17.86	17.86				
20	QPSK	150	825	17.86	17.86	17.86				
20	QPSK	150	850	17.86	17.86	17.86				
20	QPSK	150	875	17.86	17.86	17.86				
20	QPSK	150	900	17.86	17.86	17.86				
20	QPSK	150	925	17.86	17.86	17.86				
20	QPSK	150	950	17.86	17.86	17.86				
20	QPSK	150	975	17.86	17.86	17.86				
20	QPSK	150	1000	17.86	17.86	17.86				
20	QPSK	150	1025	17.86	17.86	17.86				
20	QPSK	150	1050	17.86	17.86	17.86				
20	QPSK	150	1075	17.86	17.86	17.86				
20	QPSK	150	1100	17.86	17.86	17.86				
20	QPSK	150	1125	17.86	17.86	17.86				
20	QPSK	150	1150	17.86	17.86	17.86				
20	QPSK	150	1175	17.86	17.86	17.86				
20	QPSK	150	1200	17.86	17.86	17.86				
20	QPSK	150	1225	17.86	17.86	17.86				
20	QPSK	150	1250	17.86	17.86	17.86				
20	QPSK	150	1275	17.86	17.86	17.86				
20	QPSK	150	1300	17.86	17.86	17.86				
20	QPSK	150	1325	17.86	17.86	17.86				
20	QPSK	150	1350	17.86	17.86	17.86				
20	QPSK	150	1375	17.86	17.86	17.86				
20	QPSK	150	1400	17.86	17.86	17.86				
20	QPSK	150	1425	17.86	17.86	17.86				
20	QPSK	150	1450	17.86	17.86	17.86				
20	QPSK	150	1475	17.86	17.86	17.86				
20	QPSK	150	1500	17.86	17.86	17.86				
20	QPSK	150	1525	17.86	17.86	17.86				
20	QPSK	150	1550	17.86	17.86	17.86				
20	QPSK	150	1575	17.86	17.86	17.86				
20	QPSK	150	1600	17.86	17.86	17.86				
20	QPSK	150	1625	17.86	17.86	17.86				
20	QPSK	150	1650	17.86	17.86	17.86				
20	QPSK	150	1675	17.86	17.86	17.86				
20	QPSK	150	1700	17.86	17.86	17.86				
20	QPSK	150	1725	17.86	17.86	17.86				
20	QPSK	150	1750	17.86	17.86	17.86				
20	QPSK	150	1775	17.86	17.86	17.86				
20	QPSK	150	1800	17.86	17.86	17.86				
20	QPSK	150	1825	17.86	17.86	17.86				
20	QPSK	150	1850	17.86	17.86	17.86				
20	QPSK	150	1875	17.86	17.86	17.86				
20	QPSK	150	1900	17.86	17.86	17.86				
20	QPSK	150	1925	17.86	17.86	17.86				
20	QPSK	150	1950	17.86	17.86	17.86				
20	QPSK	150	1975	17.86	17.86	17.86				
20	QPSK	150	2000	17.86	17.86	17.86				
20	QPSK	150	2025	17.86	17.86	17.86				
20	QPSK	150	2050	17.86	17.86	17.86				
20	QPSK	150	2075	17.86	17.86	17.86				
20	QPSK	150	2100	17.86	17.86	17.86				
20	QPSK	150	2125	17.86	17.86	17.86				
20	QPSK	150	2150	17.86	17.86	17.86				
20	QPSK	150	2175	17.86	17.86	17.86				
20	QPSK	150	2200	17.86	17.86	17.86				
20	QPSK	150	2225	17.86	17.86	17.86				
20	QPSK	150	2250	17.86	17.86	17.86				
20	QPSK	150	2275	17.86	17.86	17.86				
20	QPSK	150	2300	17.86	17.86	17.86				
20	QPSK	150	2325	17.86	17.86	17.86				
20	QPSK	150	2350	17.86	17.86	17.86				
20	QPSK	150	2375	17.86	17.86	17.86				
20	QPSK	150	2400	17.86	17.86	17.86				
20	QPSK	150	2425	17.86	17.86	17.86				
20	QPSK	150	2450	17.86	17.86	17.86				
20	QPSK	150	2475	17.86	17.86	17.86				
20	QPSK	150	2500	17.86	17.86	17.86				
20	QPSK	150	2525	17.86	17.86	17.86				
20	QPSK	150	2550	17.86	17.86	17.86				
20	QPSK	150	2575	17.86	17.86	17.86				
20	QPSK	150	2600	17.86	17.86	17.86				
20	QPSK									



Band 12 Ant2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int. (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.51	22.62	22.50				
10	QPSK	1	25	22.40	22.42	22.50				
10	QPSK	1	49	22.26	22.48	22.18			24	0
10	QPSK	25	0	22.40	22.62	22.40				
10	16QAM	25	0	22.30	22.62	22.30				
10	QPSK	25	25	22.29	22.32	22.24			24	0
10	QPSK	50	0	22.34	22.41	22.37				
10	16QAM	50	0	22.41	22.51	22.33				
10	16QAM	1	25	22.39	22.52	22.38			24	0
10	16QAM	49	25	22.18	22.40	22.39				
10	16QAM	25	0	22.51	22.52	22.54				
10	16QAM	25	12	22.29	22.41	22.35			24	0
10	16QAM	25	25	22.27	22.36	22.36				
10	16QAM	50	0	22.40	22.51	22.38				
10	16QAM	1	0	22.40	22.41	22.34				
10	8QAM	1	25	22.39	22.41	22.52			24	0
10	8QAM	1	49	22.14	22.41	22.29				
10	8QAM	25	0	21.24	21.36	21.17				
10	8QAM	25	12	21.13	21.24	21.08			22.5	1.5
10	8QAM	25	25	21.03	21.36	21.04				
10	8QAM	50	0	21.25	21.30	21.19				
10	256QAM	1	25	19.32	19.36	19.46			21	3
10	256QAM	1	49	19.32	19.36	19.46				
10	256QAM	25	12	19.34	19.28	19.32			21	3
10	256QAM	25	25	19.12	19.28	19.19				
10	256QAM	50	0	19.26	19.27	19.20				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.43	22.48	22.39				
5	QPSK	1	24	22.30	22.43	22.29			24	0
5	QPSK	1	24	22.14	22.40	22.04				
5	QPSK	12	0	22.29	22.50	22.37				
5	QPSK	12	7	22.25	22.37	22.05			24	0
5	QPSK	12	13	22.24	22.28	22.17				
5	QPSK	25	0	22.22	22.47	22.12				
5	16QAM	1	0	22.35	22.48	22.38				
5	16QAM	1	12	22.25	22.45	22.27			24	0
5	16QAM	1	24	22.09	22.39	22.07				
5	16QAM	12	0	22.47	22.43	22.51				
5	16QAM	12	7	22.18	22.28	22.25			24	0
5	16QAM	12	13	22.15	22.26	22.14				
5	16QAM	25	0	22.37	22.43	22.23				
5	8QAM	1	0	22.25	22.39	22.28			24	0
5	8QAM	1	24	22.09	22.37	22.08				
5	8QAM	1	24	22.05	22.32	22.21				
5	8QAM	12	0	21.17	21.31	21.05			22.5	1.5
5	8QAM	12	7	21.02	21.32	20.89				
5	8QAM	12	13	21.02	21.32	20.89				
5	8QAM	25	0	21.13	21.16	21.16				
5	256QAM	1	25	19.50	19.51	19.53			21	3
5	256QAM	1	49	19.25	19.28	19.24				
5	256QAM	12	0	19.36	19.43	19.25				
5	256QAM	12	7	19.22	19.24	19.26			21	3
5	256QAM	12	13	19.17	19.20	19.17				
5	256QAM	25	0	19.27	19.18	19.20				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.41	22.54	22.18				
1.4	QPSK	1	3	22.35	22.28	22.27				
1.4	QPSK	1	5	22.20	22.42	22.04			24	0
1.4	QPSK	3	0	22.34	22.50	22.27				
1.4	QPSK	3	1	22.20	22.50	22.23				
1.4	QPSK	3	3	22.17	22.20	22.20			24	0
1.4	16QAM	6	0	22.33	22.34	22.32				
1.4	16QAM	1	0	22.32	22.40	22.40				
1.4	16QAM	1	3	22.28	22.47	22.25			24	0
1.4	16QAM	1	6	22.04	22.37	22.33				
1.4	16QAM	3	0	22.47	22.47	22.40				
1.4	16QAM	3	1	22.26	22.31	22.25				
1.4	16QAM	6	0	22.26	22.43	22.38			24	0
1.4	8QAM	1	0	22.35	22.37	22.29				
1.4	8QAM	1	3	22.25	22.29	22.28				
1.4	8QAM	1	5	22.01	22.33	22.19			24	0
1.4	8QAM	3	0	22.38	22.36	22.40				
1.4	8QAM	3	1	22.16	22.32	22.22				
1.4	8QAM	3	3	22.15	22.29	22.21			22.5	1.5
1.4	256QAM	6	0	21.19	21.20	21.11				
1.4	256QAM	1	0	19.26	19.57	19.36			21	3
1.4	256QAM	1	3	19.22	19.56	19.47				
1.4	256QAM	3	0	19.26	19.22	19.30				
1.4	256QAM	3	1	19.10	19.34	19.30				
1.4	256QAM	3	1	19.21	19.18	19.19				
1.4	256QAM	6	0	19.08	19.20	19.14			21	3
1.4	256QAM	6	0	19.17	19.25	19.09				

Band 13 Ant2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int. (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.53	22.53	22.53			24	0
10	QPSK	1	25	22.41	22.41	22.41				
10	QPSK	1	49	22.43	22.43	22.43				
10	QPSK	25	0	22.45	22.45	22.45			24	0
10	QPSK	25	12	22.40	22.40	22.40				
10	QPSK	25	25	22.26	22.26	22.26				
10	QPSK	50	0	22.32	22.32	22.32				
10	16QAM	1	0	22.45	22.45	22.45				
10	16QAM	1	25	22.47	22.47	22.47			24	0
10	16QAM	1	49	22.40	22.40	22.40				
10	16QAM	25	0	22.54	22.54	22.54				
10	16QAM	25	12	22.35	22.35	22.35			24	0
10	16QAM	25	25	22.28	22.28	22.28				
10	16QAM	50	0	22.45	22.45	22.45				
10	8QAM	1	0	22.42	22.42	22.42			24	0
10	8QAM	1	25	22.42	22.42	22.42				
10	8QAM	1	49	22.41	22.41	22.41				
10	8QAM	25	0	21.30	21.30	21.30				
10	8QAM	25	12	21.20	21.20	21.20			22.5	1.5
10	8QAM	25	25	21.04	21.04	21.04				
10	8QAM	50	0	21.28	21.28	21.28				
10	256QAM	1	0	19.49	19.49	19.49			21	3
10	256QAM	1	25	19.35	19.35	19.35				
10	256QAM	1	49	19.31	19.31	19.31				
10	256QAM	25	0	19.48	19.48	19.48				
10	256QAM	25	12	19.29	19.29	19.29			21	3
10	256QAM	25	25	19.24	19.24	19.24				
10	256QAM	50	0	19.28	19.28	19.28				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.47	22.50	22.44			24	0
5	QPSK	1	12	22.33	22.36	22.39				
5	QPSK	1	24	22.34	22.44	22.44				
5	QPSK	12	0	22.41	22.37	22.40			24	0
5	QPSK	12	7	22.25	22.26	22.28				
5	QPSK	12	13	22.23	22.21	22.21				
5	QPSK	25	0	22.22	22.39	22.40				
5	16QAM	1	0	22.42	22.46	22.43			24	0
5	16QAM	1	12	22.38	22.44	22.46				
5	16QAM	1	24	22.34	22.42	22.41				
5	16QAM	12	0	22.41	22.41	22.40				
5	16QAM	12	7	22.31	22.33	22.31			24	0
5	16QAM	12	13	22.11	21.28	21.17				
5	16QAM	25	0	22.37	22.43	22.35			22.5	1.5
5	8QAM	1	0	22.31	22.30	22.29				
5	8QAM	1	24	22.07	22.32	22.07			24	0
5	8QAM	1	24	22.03	22.32	22.35				
5	8QAM	12	0							



Band 25 Ant2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power Hsp./Ch./F.Freq.	Power Hsp./F.Freq.	Turn-up time (sec)	MPR (dB)		
20	QPSK	1	0	23.18	23.22	23.31				
20	QPSK	1	49	23.00	23.13	23.03			24	0
20	QPSK	1	99	23.18	23.22	23.19				
20	QPSK	50	0	23.13	23.14	23.14				
20	QPSK	50	50	23.01	23.08	23.05				
20	QPSK	100	0	23.11	23.22	23.15				
20	QPSK	100	50	23.13	23.22	23.14				
20	16QAM	1	49	23.05	23.14	23.07			24	0
20	16QAM	1	99	23.09	23.09	23.07				
20	16QAM	50	0	23.02	23.04	23.04				
20	16QAM	50	24	22.84	22.89	22.90			24	0
20	16QAM	50	50	22.77	22.84	22.82				
20	16QAM	100	0	22.99	23.15	23.01				
20	16QAM	100	24	22.96	23.15	22.96				
20	16QAM	100	49	22.98	23.02	22.95			24	0
20	16QAM	100	74	22.92	22.94	22.90				
20	16QAM	50	0	22.92	22.94	22.90				
20	16QAM	50	24	22.84	22.89	22.90				
20	16QAM	50	50	22.77	22.84	22.82				
20	16QAM	100	0	22.99	23.15	23.01				
20	16QAM	100	24	22.96	23.15	22.96				
20	16QAM	100	49	22.98	23.02	22.95			21	3
20	16QAM	100	74	22.92	22.94	22.90				
20	256QAM	1	49	19.98	19.98	19.97			21	3
20	256QAM	1	99	19.88	19.83	19.82				
20	256QAM	50	0	19.92	19.98	19.97				
20	256QAM	50	24	19.95	19.98	19.97			21	3
20	256QAM	50	50	19.82	19.84	19.87				
20	256QAM	100	0	19.93	19.92	19.92				
20	256QAM	100	24	19.95	19.98	19.97				
20	256QAM	100	49	19.88	19.83	19.82			21	3
20	256QAM	100	74	19.92	19.92	19.92				
20	256QAM	100	99	19.85	19.83	19.82				
20	256QAM	100	124	19.88	19.83	19.82				
20	256QAM	100	149	19.82	19.83	19.82				
20	256QAM	100	174	19.85	19.83	19.82				
20	256QAM	100	199	19.77	19.82	19.82				
20	256QAM	100	224	19.82	19.83	19.82				
20	256QAM	100	249	19.85	19.83	19.82				
20	256QAM	100	274	19.88	19.83	19.82				
20	256QAM	100	299	19.82	19.83	19.82				
20	256QAM	100	324	19.85	19.83	19.82				
20	256QAM	100	349	19.88	19.83	19.82				
20	256QAM	100	374	19.82	19.83	19.82				
20	256QAM	100	399	19.85	19.83	19.82				
20	256QAM	100	424	19.88	19.83	19.82				
20	256QAM	100	449	19.82	19.83	19.82				
20	256QAM	100	474	19.85	19.83	19.82				
20	256QAM	100	499	19.88	19.83	19.82				
20	256QAM	100	524	19.82	19.83	19.82				
20	256QAM	100	549	19.85	19.83	19.82				
20	256QAM	100	574	19.88	19.83	19.82				
20	256QAM	100	599	19.82	19.83	19.82				
20	256QAM	100	624	19.85	19.83	19.82				
20	256QAM	100	649	19.88	19.83	19.82				
20	256QAM	100	674	19.82	19.83	19.82				
20	256QAM	100	699	19.85	19.83	19.82				
20	256QAM	100	724	19.88	19.83	19.82				
20	256QAM	100	749	19.82	19.83	19.82				
20	256QAM	100	774	19.85	19.83	19.82				
20	256QAM	100	799	19.88	19.83	19.82				
20	256QAM	100	824	19.82	19.83	19.82				
20	256QAM	100	849	19.85	19.83	19.82				
20	256QAM	100	874	19.88	19.83	19.82				
20	256QAM	100	899	19.82	19.83	19.82				
20	256QAM	100	924	19.85	19.83	19.82				
20	256QAM	100	949	19.88	19.83	19.82				
20	256QAM	100	974	19.82	19.83	19.82				
20	256QAM	100	999	19.85	19.83	19.82				
20	256QAM	100	1024	19.88	19.83	19.82				
20	256QAM	100	1049	19.82	19.83	19.82				
20	256QAM	100	1074	19.85	19.83	19.82				
20	256QAM	100	1099	19.88	19.83	19.82				
20	256QAM	100	1124	19.82	19.83	19.82				
20	256QAM	100	1149	19.85	19.83	19.82				
20	256QAM	100	1174	19.88	19.83	19.82				
20	256QAM	100	1199	19.82	19.83	19.82				
20	256QAM	100	1224	19.85	19.83	19.82				
20	256QAM	100	1249	19.88	19.83	19.82				
20	256QAM	100	1274	19.82	19.83	19.82				
20	256QAM	100	1299	19.85	19.83	19.82				
20	256QAM	100	1324	19.88	19.83	19.82				
20	256QAM	100	1349	19.82	19.83	19.82				
20	256QAM	100	1374	19.85	19.83	19.82				
20	256QAM	100	1399	19.88	19.83	19.82				
20	256QAM	100	1424	19.82	19.83	19.82				
20	256QAM	100	1449	19.85	19.83	19.82				
20	256QAM	100	1474	19.88	19.83	19.82				
20	256QAM	100	1499	19.82	19.83	19.82				
20	256QAM	100	1524	19.85	19.83	19.82				
20	256QAM	100	1549	19.88	19.83	19.82				
20	256QAM	100	1574	19.82	19.83	19.82				
20	256QAM	100	1599	19.85	19.83	19.82				
20	256QAM	100	1624	19.88	19.83	19.82				
20	256QAM	100	1649	19.82	19.83	19.82				
20	256QAM	100	1674	19.85	19.83	19.82				
20	256QAM	100	1699	19.88	19.83	19.82				
20	256QAM	100	1724	19.82	19.83	19.82				
20	256QAM	100	1749	19.85	19.83	19.82				
20	256QAM	100	1774	19.88	19.83	19.82				
20	256QAM	100	1799	19.82	19.83	19.82				
20	256QAM	100	1824	19.85	19.83	19.82				
20	256QAM	100	1849	19.88	19.83	19.82				
20	256QAM	100	1874	19.82	19.83	19.82				
20	256QAM	100	1899	19.85	19.83	19.82				
20	256QAM	100	1924	19.88	19.83	19.82				
20	256QAM	100	1949	19.82	19.83	19.82				
20	256QAM	100	1974	19.85	19.83	19.82				
20	256QAM	100	1999	19.88	19.83	19.82				
20	256QAM	100	2024	19.82	19.83	19.82				
20	256QAM	100	2049	19.85	19.83	19.82				
20	256QAM	100	2074	19.88	19.83	19.82				
20	256QAM	100	2099	19.82	19.83	19.82				
20	256QAM	100	2124	19.85	19.83	19.82				
20	256QAM	100	2149	19.88	19.83	19.82				
20	256QAM	100	2174	19.82	19.83	19.82				
20	256QAM	100	2199	19.85	19.83	19.82				
20	256QAM	100	2224	19.88	19.83	19.82				
20	256QAM	100	2249	19.82	19.83	19.82				
20	256QAM	100	2274	19.85	19.83	19.82				
20	256QAM	100	2299	19.88	19.83	19.82				
20	256QAM	100	2324	19.82	19.83	19.82				
20	256QAM	100	2349	19.85	19.83	19.82				
20	256QAM	100	2374	19.88	19.83	19.82				
20	256QAM	100	2399	19.82	19.83	19.82				
20	256QAM	100	2424	19.85						



Band 38 Ant2										
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)										
30	QPSK	1	0	22.20	22.24	22.28	23	0		
30	QPSK	1	49	22.03	22.07	22.10	23	0		
30	QPSK	1	99	22.00	22.00	22.00	23	0		
30	QPSK	50	0	22.07	22.10	22.00	23	0		
30	QPSK	50	24	22.00	22.08	22.00	23	0		
30	QPSK	50	49	21.99	22.02	22.01	23	0		
30	QPSK	100	0	22.04	22.11	21.95	23	0		
30	HQAM	1	0	22.01	22.17	22.00	23	0		
30	HQAM	1	49	21.99	22.02	22.01	23	0		
30	HQAM	1	99	21.88	21.92	21.92	23	0		
30	HQAM	50	0	21.84	21.72	21.84	22.5	0.5		
30	HQAM	50	24	21.81	21.86	21.86	22.5	0.5		
30	HQAM	50	49	21.80	21.80	21.80	22.5	0.5		
30	HQAM	100	0	21.82	21.75	21.85	22.5	0.5		
30	HQAM	1	49	21.82	21.84	21.82	22.5	0.5		
30	HQAM	1	99	21.81	21.83	21.81	22.5	0.5		
30	HQAM	50	0	20.83	20.75	20.85	21.5	1.5		
30	HQAM	50	24	20.49	20.58	20.59	21.5	1.5		
30	HQAM	50	49	20.45	20.51	20.45	21.5	1.5		
30	HQAM	100	0	20.52	20.58	20.48	21.5	1.5		
30	25QAM	1	0	18.57	18.78	18.55	19.5	3.5		
30	25QAM	1	49	18.54	18.78	18.50	19.5	3.5		
30	25QAM	1	99	18.45	18.58	18.50	19.5	3.5		
30	25QAM	50	0	18.42	18.57	18.48	19.5	3.5		
30	25QAM	50	24	18.58	18.62	18.54	19.5	3.5		
30	25QAM	50	49	18.45	18.58	18.48	19.5	3.5		
30	25QAM	100	0	18.51	18.55	18.49	19.5	3.5		
Channel										
Frequency (MHz)										
15	QPSK	1	0	21.73	21.75	21.74	23	0		
15	QPSK	1	37	21.84	21.93	21.89	23	0		
15	QPSK	1	74	21.88	21.96	21.79	23	0		
15	QPSK	36	0	22.00	22.00	21.99	23	0		
15	QPSK	36	20	21.88	21.95	21.82	23	0		
15	QPSK	36	39	21.88	21.91	21.80	23	0		
15	QPSK	75	0	21.84	22.04	21.91	23	0		
15	HQAM	1	0	21.98	22.04	21.97	23	0		
15	HQAM	1	37	21.81	21.82	21.80	23	0		
15	HQAM	1	74	21.76	21.78	21.78	23	0		
15	HQAM	36	0	21.40	21.61	21.41	22.5	0.5		
15	HQAM	36	20	21.42	21.62	21.41	22.5	0.5		
15	HQAM	36	39	21.38	21.38	21.38	22.5	0.5		
15	HQAM	75	0	21.48	21.68	21.41	22.5	0.5		
15	HQAM	1	0	21.82	21.63	21.60	22.5	0.5		
15	HQAM	1	37	21.38	21.81	21.42	22.5	0.5		
15	HQAM	1	74	21.41	21.49	21.44	22.5	0.5		
15	HQAM	36	0	20.45	20.69	20.45	21.5	1.5		
15	HQAM	36	20	20.45	20.47	20.49	21.5	1.5		
15	HQAM	36	39	20.45	20.45	20.45	21.5	1.5		
15	HQAM	75	0	20.48	20.45	20.43	21.5	1.5		
15	25QAM	1	0	18.45	18.70	18.53	19.5	3.5		
15	25QAM	1	49	18.45	18.64	18.53	19.5	3.5		
15	25QAM	1	99	18.39	18.44	18.41	19.5	3.5		
15	25QAM	50	0	18.58	18.72	18.59	19.5	3.5		
15	25QAM	50	24	18.50	18.61	18.57	19.5	3.5		
15	25QAM	50	49	18.33	18.46	18.43	19.5	3.5		
15	25QAM	100	0	18.50	18.62	18.47	19.5	3.5		
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.75	21.75	21.75	23	0		
10	QPSK	1	25	21.97	21.94	21.93	23	0		
10	QPSK	1	49	21.97	21.98	21.81	23	0		
10	QPSK	12	0	21.84	21.90	21.80	23	0		
10	QPSK	25	12	21.88	21.90	21.80	23	0		
10	QPSK	25	25	21.99	21.99	21.78	23	0		
10	QPSK	50	0	21.87	22.01	21.82	23	0		
10	HQAM	1	0	21.82	22.10	22.00	23	0		
10	HQAM	1	25	21.94	21.86	21.81	23	0		
10	HQAM	1	49	21.75	21.79	21.80	23	0		
10	HQAM	25	0	21.41	21.64	21.44	22.5	0.5		
10	HQAM	25	12	21.43	21.41	21.44	22.5	0.5		
10	HQAM	25	25	21.44	21.40	21.38	22.5	0.5		
10	HQAM	50	0	21.42	21.62	21.40	22.5	0.5		
10	HQAM	1	0	21.86	21.68	21.60	22.5	0.5		
10	HQAM	1	25	21.38	21.55	21.43	22.5	0.5		
10	HQAM	1	49	21.39	21.49	21.44	22.5	0.5		
10	HQAM	25	0	20.54	20.68	20.51	21.5	1.5		
10	HQAM	25	12	20.38	20.48	20.52	21.5	1.5		
10	HQAM	25	25	20.37	20.39	20.47	21.5	1.5		
10	HQAM	50	0	20.41	20.48	20.35	21.5	1.5		
10	25QAM	1	0	18.50	18.67	18.51	19.5	3.5		
10	25QAM	1	49	18.34	18.51	18.45	19.5	3.5		
10	25QAM	25	0	18.51	18.67	18.57	19.5	3.5		
10	25QAM	25	12	18.45	18.57	18.44	19.5	3.5		
10	25QAM	25	25	18.52	18.50	18.38	19.5	3.5		
10	25QAM	50	0	18.49	18.67	18.49	19.5	3.5		

Band 41 FCC Ant2										
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)										
20	QPSK	1	0	23.90	23.93	23.93	24	0		
20	QPSK	1	49	23.45	23.42	23.37	23.61	23.44	24	
20	QPSK	1	99	23.38	23.31	23.14	23.65	23.39	24	
20	QPSK	50	0	23.78	23.65	23.52	23.72	23.67	23	
20	QPSK	50	24	23.55	23.61	23.69	23.57	23.57	23	
20	QPSK	50	49	23.58	23.52	23.47	23.54	23.54	23	
20	QPSK	100	0	23.52	23.47	23.38	23.39	23.52	23	
20	HQAM	1	0	23.62	23.58	23.73	23.60	23.69	23	
20	HQAM	1	49	23.51	23.58	23.58	23.49	23.51	23	
20	HQAM	1	99	22.45	22.42	22.52	22.44	22.38	22	
20	HQAM	50	0	21.87	21.88	21.88	21.49	21.81	22	
20	HQAM	50	24	21.88	21.81	21.80	21.50	21.49	22	
20	HQAM	50	49	21.42	21.44	21.53	21.41	21.40	22	
20	HQAM	100	0	21.69	21.57	21.66	21.52	21.63	22	
20	HQAM	1	49	21.83	21.82	21.82	21.58	21.54	22	
20	HQAM	1	99	21.43	21.48	21.48	21.51	21.43	21	
20	HQAM	50	0	20.55	20.49	20.54	20.46	20.55	21	
20	HQAM	50	24	20.42	20.38	20.47	20.49	20.38	21	
20	HQAM	50	49	20.30	20.40	20.45	20.43	20.30	21	
20	HQAM	100	0	20.43	20.54	20.57	20.51	20.53	21	
20	25QAM	1	0	18.60	18.53	18.69	18.55	18.61	19	
20	25QAM	1	49	18.56	18.52	18.69	18.54	18.56	19	
20	25QAM	1	99	18.48	18.38	18.52	18.51	18.42	19	
20	25QAM	50	0	18.38	18.50	18.50	18.50	18.38	19	
20	25QAM	50	24	18.32	18.43	18.46	18.42	18.31	19	
20	25QAM	100	0	18.55	18.56	18.55	18.45	18.55	19	
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.93	23.93	23.93	23.74	23.92		
15	QPSK	1	37	23.41	23.32	23.80	23.58	23.40	24.00	
15	QPSK	1	74	23.33	23.17	23.36	23.27	23.30	24.00	
15	QPSK	36	0	22.66	22.58	22.70	22.65	22.65	23	
15	QPSK	36	20	22.44	22.50	22.67	22.45	22.50	23	
15	QPSK	36	39	22.44	22.44	22.60	22.45	22.45	23	
15	QPSK	75	0	22.45	22.40	22.50	22.32	22.45	23	
15	HQAM	1	0	22.53	22.53	22.69	22.55	22.66	23	
15	HQAM	1	37	22.45	22.45	22.55	22.45	22.45	23	
15	HQAM	1	74	22.35	22.20	22.47	22.38	22.28	23	
15	HQAM	36	0	21.49	21.53	21.64	21.43	21.54	22	
15	HQAM	36	20	21.33	21.34	21.38	21.42	21.38	22	
15	HQAM	36	39	21.30	21.32	21.40	21.35	21.32	22	
15	HQAM	75	0	21.50	21.45	21.65	21.38	21.50	22	
15	HQAM	1	0	21.69	21.49	21.61	21.56	21.69	22	
15	HQAM	1	37	21.49	21.38	21.48	21.53	21.49	22	
15	HQAM	1	74	21.34	21.44	21.59	21.45	21.38	22	
15	HQAM	36	0	20.33	20.48	20.55	20.35	20.46	21	
15	HQAM	36	20	20.32	20.35	20.42	20.45	20.31	21	
15	HQAM	36	39	20.34	20.34	20.40	20.34	20.34	21	
15	HQAM	75	0	20.33	20.51	20.43	20.45	20.45	21	
15	25QAM	1	0	18.56	18.41	18.60	18.42	18.53	19	
15	25QAM	1	49	18.42	18.44	18.61	18.47	18.55	19	
15	25QAM	1	99	18.44	18.29	18.48	18.38	18.37	19	
15	25QAM	50	0	18.54	18.48	18.54	18.54	18.50	19	
15	25QAM	50	24	18.50	18.50	18.57				



Band 41 PC2 FCC Ant2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Mids Ch / Freq	Power High Mids Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	24.25	24.25	24.25	24.25	24.25	26.5	0
20	QPSK	1	49	25.09	25.19	25.29	25.14	25.18	26.5	0
20	QPSK	1	99	25.93	26.03	26.13	25.98	26.02	26.5	0
20	QPSK	50	0	25.11	25.16	25.21	25.13	25.22	26.5	0
20	QPSK	50	24	24.99	25.03	25.07	24.96	25.04	26.5	0
20	QPSK	100	0	24.82	24.84	24.86	24.82	24.84	26.5	0
20	QPSK	100	49	25.11	25.20	25.29	25.18	25.23	26.5	0
20	HQAM	1	0	25.03	25.03	25.03	25.03	25.03	26.5	0
20	HQAM	1	99	25.02	25.07	25.13	25.10	25.01	26.5	0
20	HQAM	50	0	24.98	24.98	24.98	24.94	24.90	26.5	0
20	HQAM	50	24	24.96	24.97	24.98	24.93	24.94	26.5	0
20	HQAM	100	0	24.82	24.82	24.82	24.82	24.82	26.5	0
20	HQAM	100	49	24.43	24.50	24.58	24.51	24.58	26.5	0
20	HQAM	1	49	24.41	24.48	24.47	24.40	24.42	26.5	1
20	HQAM	1	99	24.33	24.43	24.48	24.41	24.34	26.5	1
20	HQAM	50	0	23.98	23.95	23.93	23.93	23.91	26.5	2
20	HQAM	50	24	22.93	23.05	23.13	23.11	23.01	26.5	2
20	HQAM	100	0	23.96	23.91	23.91	23.94	23.98	26.5	2
20	HQAM	100	49	23.90	23.98	23.11	23.17	23.11	26.5	2
20	SSBQAM	1	0	21.19	21.31	21.45	21.26	21.31	22.5	4
20	SSBQAM	1	49	21.22	21.36	21.49	21.31	21.41	22.5	4
20	SSBQAM	1	99	21.12	21.18	21.29	21.25	21.34	22.5	4
20	SSBQAM	50	0	21.08	21.08	21.08	21.07	21.07	22.5	4
20	SSBQAM	50	24	20.98	21.03	21.09	21.00	21.02	22.5	4
20	SSBQAM	50	50	20.98	21.01	21.04	20.98	20.93	22.5	4
20	SSBQAM	100	0	21.80	21.83	21.86	21.83	21.83	22.5	4
Channel										
Frequency (MHz)										
15	QPSK	1	0	25.14	25.23	25.31	25.13	25.21	26.50	0
15	QPSK	1	37	26.01	26.08	26.16	26.06	26.09	26.50	0
15	QPSK	1	74	24.93	25.01	25.04	24.94	25.06	26.50	0
15	QPSK	38	0	25.02	25.11	25.19	25.06	25.09	26.50	0
15	QPSK	38	20	24.87	24.91	24.94	24.85	24.92	26.50	0
15	QPSK	75	0	24.82	24.80	24.80	24.80	24.80	26.50	0
15	QPSK	75	0	24.82	24.80	24.80	24.80	24.80	26.50	0
15	HQAM	1	0	25.04	25.08	25.20	25.14	25.16	26.50	0
15	HQAM	1	37	24.90	24.95	25.07	24.98	24.98	26.50	0
15	HQAM	1	74	24.92	24.98	25.07	24.98	24.98	26.50	0
15	HQAM	38	0	23.88	23.83	24.00	24.10	24.08	26.50	0
15	HQAM	38	20	23.85	23.83	24.00	24.02	24.06	26.50	0
15	HQAM	75	0	23.88	23.92	24.07	23.92	23.90	26.50	1
15	HQAM	75	0	23.85	24.01	24.13	23.98	24.13	26.50	1
15	HQAM	1	0	24.35	24.38	24.38	24.33	24.34	26.50	1
15	HQAM	1	37	24.31	24.38	24.38	24.30	24.36	26.50	1
15	HQAM	1	74	24.29	24.36	24.37	24.37	24.23	26.50	1
15	HQAM	38	0	23.87	23.87	23.87	23.84	23.86	26.50	1
15	HQAM	38	20	22.82	23.02	23.01	23.08	22.91	26.50	2
15	HQAM	75	0	23.82	23.82	23.82	23.82	23.82	26.50	2
15	HQAM	75	0	22.94	23.05	23.13	23.11	23.01	26.50	2
15	SSBQAM	1	0	21.14	21.19	21.32	21.20	21.18	22.5	4
15	SSBQAM	1	37	21.03	21.11	21.23	21.03	21.13	22.5	4
15	SSBQAM	1	74	20.98	21.11	21.12	21.10	21.02	22.5	4
15	SSBQAM	38	0	21.00	21.04	21.18	21.09	21.11	22.5	4
15	SSBQAM	38	20	20.81	20.92	21.06	20.98	20.88	22.5	4
15	SSBQAM	75	0	20.80	20.94	21.01	20.94	20.88	22.5	4
15	SSBQAM	75	0	20.80	21.02	21.11	21.00	21.00	22.5	4
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.71	24.71	24.71	24.71	24.71	26.50	0
10	QPSK	1	25	25.03	25.05	25.20	25.10	25.06	26.50	0
10	QPSK	1	49	24.94	24.99	25.20	25.00	25.12	26.50	0
10	QPSK	12	0	24.84	24.84	24.84	24.84	24.84	26.50	0
10	QPSK	25	12	24.88	24.86	24.92	24.87	24.91	26.50	0
10	QPSK	25	25	24.88	24.88	24.92	24.85	24.81	26.50	0
10	HQAM	1	0	24.76	24.87	24.94	24.86	24.86	26.50	0
10	HQAM	1	0	24.66	24.74	24.82	24.72	24.70	26.50	0
10	HQAM	1	25	24.97	25.01	25.16	24.99	25.01	26.50	0
10	HQAM	1	49	24.88	24.97	25.01	24.88	24.92	26.50	0
10	HQAM	25	0	23.88	23.97	24.17	24.05	24.16	26.50	0
10	HQAM	25	12	23.83	23.83	24.05	23.96	23.96	26.50	0
10	HQAM	25	25	23.80	23.80	24.05	23.93	23.93	26.50	0
10	HQAM	50	0	23.90	23.99	24.13	23.99	24.15	26.50	0
10	HQAM	1	0	24.32	24.47	24.67	24.46	24.56	26.50	0
10	HQAM	1	25	24.37	24.38	24.44	24.27	24.25	26.50	0
10	HQAM	1	49	24.20	24.31	24.31	24.30	24.30	26.50	0
10	HQAM	25	0	23.04	23.13	23.10	23.00	23.08	26.50	0
10	HQAM	25	12	22.88	22.96	23.04	23.01	22.90	26.50	0
10	HQAM	25	25	22.82	22.86	22.96	22.94	22.91	26.50	0
10	HQAM	50	0	22.94	22.95	23.14	23.04	23.05	26.50	0
10	SSBQAM	1	0	21.08	21.20	21.31	21.18	21.19	22.5	4
10	SSBQAM	1	25	21.19	21.13	21.36	21.26	21.37	22.5	4
10	SSBQAM	1	49	20.98	21.14	21.26	21.19	21.08	22.5	4
10	SSBQAM	25	0	20.93	21.00	21.11	21.10	21.06	22.5	4
10	SSBQAM	25	12	20.75	20.90	20.99	20.87	20.86	22.5	4
10	SSBQAM	25	25	20.79	20.87	20.91	20.91	20.91	22.5	4
10	SSBQAM	50	0	20.85	20.98	21.19	21.08	21.05	22.5	4
Channel										
Frequency (MHz)										
5	QPSK	1	0	25.11	25.19	25.31	25.10	25.19	26.50	0
5	QPSK	1	12	25.03	25.10	25.14	25.01	25.10	26.50	0
5	QPSK	1	24	24.93	25.01	25.23	24.94	25.14	26.50	0
5	QPSK	12	0	24.96	25.13	25.27	25.07	25.19	26.50	0
5	QPSK	12	7	24.88	24.97	25.01	24.90	24.88	26.50	0
5	QPSK	12	13	24.85	24.93	25.01	24.83	24.81	26.50	0
5	QPSK	25	0	24.73	24.87	25.01	24.68	24.69	26.50	0
5	QPSK	25	0	25.05	25.09	25.20	25.11	25.15	26.50	0
5	HQAM	1	12	24.88	24.88	24.96	24.85	24.98	26.50	0
5	HQAM	1	24	24.86	25.03	25.02	24.85	24.91	26.50	0
5	HQAM	12	0	23.91	23.92	24.19	24.09	24.07	26.50	0
5	HQAM	12	7	23.88	23.97	24.02	24.01	23.98	26.50	0
5	HQAM	12	13	23.83	23.94	24.09	24.00	23.93	26.50	0
5	HQAM	25	0	23.87	24.03	24.23	24.02	24.15	26.50	0
5	HQAM	1	0	24.30	24.46	24.65	24.47	24.54	26.50	0
5	HQAM	1	12	24.30	24.43	24.56	24.34	24.32	26.50	0
5	HQAM	1	24	24.26	24.37	24.29	24.26	24.29	26.50	0
5	HQAM	12	0	22.84	22.96	23.15	22.96	23.01	26.50	0
5	HQAM	12	7	22.88	22.98	23.08	23.08	22.89	26.50	0
5	HQAM	12	13	22.85	22.86	23.07	22.95	22.87	26.50	0
5	HQAM	25	0	22.96	23.04	23.04	23.04	22.96	26.50	0
5	SSBQAM	1	0	21.07	21.27	21.31	21.12	21.17	22.5	4
5	SSBQAM	1	12	21.08	21.19	21.41	21.17	21.37	22.5	4
5	SSBQAM	1	24	21.04	21.09	21.40	21.21	21.05	22.5	4
5	SSBQAM	12	0	20.93	20.97	21.19	21.09	21.14	22.5	4
5	SSBQAM	12	7	20.85	20.91	20.95	20.88	20.91	22.5	



CSM1900 Awt									
Tx Channel	Best Average Power (dBm)			Tuneup Limit	Frame-Average Power (dBm)			Tuneup Limit	
	812	861	810		650	812	861		810
Frequency (MHz)	181.2	180.3	180.3	30.00	20.52	19.80	20.00	30.00	
CSM 1 Tx Wd	20.56	20.00	20.63	30.00	20.56	20.00	20.63	21.00	
OPRS 1 Tx Wd	20.52	20.61	20.49	30.00	20.52	20.61	20.49	21.00	
OPRS 2 Tx Wd	21.00	21.12	20.97	20.00	21.00	21.12	20.97	22.00	
OPRS 3 Tx Wd	20.70	21.70	20.86	20.00	21.44	21.00	21.40	22.24	
OPRS 4 Tx Wd	20.14	20.37	21.40	24.00	20.54	20.37	20.68	21.00	
EDGE 1 Tx Wd	20.06	20.13	24.99	20.00	18.06	16.13	18.00	17.00	
EDGE 2 Tx Wd	21.33	21.43	20.40	24.00	17.33	17.43	17.40	18.00	
EDGE 3 Tx Wd	22.21	22.25	22.20	23.00	17.95	18.00	17.95	19.24	
EDGE 4 Tx Wd	20.13	20.18	20.08	21.00	17.13	17.18	17.08	18.00	

WCDMA IV Awt									
Tx Channel	VCDMA II			Tuneup Limit	WCDMA IV			Tuneup Limit	
	882	900	938		1512	1681	1515		
Frequency (MHz)	662	660	668	34.00	16.74	17.00	16.74	34.00	
WCDMA IV Wd	22.26	23.00	23.00	24.00	21.84	22.26	22.11	24.00	
SOPF Rel Wd	23.05	23.07	22.92	24.00	22.89	23.03	22.84	24.00	
SOPF Rate	21.95	22.14	22.11	23.00	21.81	22.04	21.94	23.00	
SOPF Rate	22.84	22.17	21.92	23.00	21.83	22.07	21.84	23.00	
SOPF Rate	21.54	21.50	21.57	23.00	21.58	21.49	21.44	22.00	
SOPF Rate	21.48	21.60	21.60	22.00	21.43	21.60	21.50	22.00	
SOPF Rate	22.08	22.17	21.98	23.00	21.90	22.00	21.90	23.00	
SOPF Rate	21.90	22.13	22.18	23.00	21.91	22.07	22.07	23.00	
SOPF Rate	21.37	21.57	21.48	22.00	21.28	21.46	21.34	22.00	
SOPF Rate	21.61	21.50	21.44	22.00	21.50	21.45	21.51	22.00	
SOPF Rate	22.88	22.31	21.97	23.00	22.04	22.24	21.84	23.00	
SOPF Rate	20.22	20.14	20.17	21.00	19.28	20.00	19.04	21.00	
SOPF Rate	21.20	21.00	21.03	22.00	21.10	20.90	20.90	22.00	
SOPF Rate	18.98	20.25	20.22	21.00	19.84	20.10	20.08	21.00	
SOPF Rate	22.03	22.04	21.94	23.00	21.90	21.90	21.80	23.00	



Band 2 Ant3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up (min)	MPE (dB)		
Channel										
1860 1860 1900										
20	QPSK	1	0	22.66	22.72	22.76				
20	QPSK	1	49	22.45	22.58	22.67	24	0		
20	QPSK	1	99	22.45	22.58	22.63				
20	QPSK	50	0	22.49	22.67	22.63				
20	QPSK	50	24	22.45	22.58	22.63				
20	QPSK	50	50	22.38	22.47	22.38				
20	QPSK	100	0	22.45	22.60	22.41				
20	16QAM	50	0	22.40	22.40	22.40				
20	16QAM	1	49	22.38	22.45	22.41	24	0		
20	16QAM	1	99	22.33	22.44	22.37				
20	16QAM	50	0	22.38	22.38	22.44				
20	16QAM	50	24	22.38	22.37	22.31				
20	16QAM	50	50	22.32	22.38	22.31				
20	16QAM	100	0	22.38	22.49	22.32				
20	16QAM	1	0	22.29	22.47	22.31				
20	16QAM	1	49	22.29	22.29	22.29	24	0		
20	16QAM	1	99	22.28	22.48	22.37				
20	16QAM	50	0	22.28	22.48	22.34				
20	16QAM	50	24	22.28	22.34	22.34				
20	16QAM	50	50	22.28	22.38	22.31				
20	16QAM	100	0	22.42	22.46	22.38				
20	256QAM	1	0	19.47	19.63	19.48				
20	256QAM	1	49	19.51	19.45	19.45	21	3		
20	256QAM	1	99	19.38	19.43	19.33				
20	256QAM	50	0	19.37	19.37	19.37				
20	256QAM	50	24	19.33	19.39	19.36				
20	256QAM	50	50	19.25	19.35	19.32				
20	256QAM	100	0	19.43	19.39	19.32				
Channel										
1875 1890 1925										
15	QPSK	1	0	22.60	22.68	22.61				
15	QPSK	1	37	22.42	22.49	22.49	24	0		
15	QPSK	1	74	22.40	22.49	22.46				
15	QPSK	36	0	22.42	22.59	22.47				
15	QPSK	36	29	22.30	22.51	22.39				
15	QPSK	36	39	22.31	22.39	22.29				
15	QPSK	75	0	22.34	22.56	22.44				
15	16QAM	1	0	22.30	22.30	22.42				
15	16QAM	1	37	22.24	22.41	22.29	24	0		
15	16QAM	1	74	22.24	22.41	22.37				
15	16QAM	36	0	22.20	22.41	22.34				
15	16QAM	36	29	22.12	22.27	22.28				
15	16QAM	36	39	22.12	22.27	22.27				
15	16QAM	75	0	22.26	22.44	22.27				
15	16QAM	1	0	22.17	22.37	22.21				
15	16QAM	1	37	22.14	22.31	22.21				
15	16QAM	1	74	22.14	22.31	22.21				
15	16QAM	36	0	22.23	22.41	22.19				
15	16QAM	36	29	22.14	22.39	22.27				
15	16QAM	36	39	22.20	22.30	22.17				
15	16QAM	75	0	22.28	22.34	22.29				
15	256QAM	1	0	19.35	19.35	19.35				
15	256QAM	1	37	19.39	19.30	19.40	21	3		
15	256QAM	1	74	19.33	19.30	19.38				
15	256QAM	50	0	19.33	19.33	19.33				
15	256QAM	50	24	19.23	19.25	19.26				
15	256QAM	50	39	19.14	19.23	19.20				
15	256QAM	75	0	19.33	19.33	19.20				
Channel										
1885 1890 1905										
10	QPSK	1	0	22.62	22.61	22.62				
10	QPSK	1	25	22.46	22.54	22.50	24	0		
10	QPSK	1	49	22.34	22.52	22.43				
10	QPSK	12	0	22.37	22.52	22.43				
10	QPSK	25	12	22.37	22.52	22.43				
10	QPSK	25	25	22.27	22.33	22.27				
10	16QAM	1	0	22.30	22.30	22.42				
10	16QAM	1	0	22.28	22.49	22.37				
10	16QAM	1	24	22.24	22.33	22.30	24	0		
10	16QAM	1	49	22.24	22.33	22.30				
10	16QAM	12	0	22.27	22.40	22.34				
10	16QAM	12	12	22.32	22.33	22.22				
10	16QAM	12	25	22.21	22.38	22.28				
10	16QAM	50	0	22.25	22.43	22.28				
10	16QAM	1	0	22.21	22.43	22.16				
10	16QAM	1	24	22.17	22.38	22.18	24	0		
10	16QAM	1	49	22.13	22.22	22.15				
10	16QAM	25	0	22.23	22.45	22.21				
10	16QAM	25	12	22.18	22.45	22.21				
10	16QAM	25	25	22.20	22.28	22.20				
10	16QAM	50	0	22.37	22.34	22.25				
10	256QAM	1	0	19.38	19.41	19.41				
10	256QAM	1	24	19.38	19.37	19.34	21	3		
10	256QAM	1	49	19.27	19.31	19.27				
10	256QAM	12	0	19.25	19.45	19.28				
10	256QAM	25	12	19.28	19.36	19.26				
10	256QAM	25	25	19.14	19.28	19.19				
10	256QAM	50	0	19.33	19.34	19.28				
Channel										
1895 1890 1915										
5	QPSK	1	0	22.63	22.61	22.61				
5	QPSK	1	12	22.39	22.54	22.46	24	0		
5	QPSK	1	24	22.38	22.51	22.49				
5	QPSK	12	0	22.36	22.51	22.44				
5	QPSK	12	7	22.34	22.45	22.41				
5	QPSK	12	13	22.27	22.39	22.33				
5	QPSK	25	0	22.34	22.52	22.32				
5	16QAM	1	0	22.31	22.45	22.33				
5	16QAM	1	12	22.31	22.42	22.28	24	0		
5	16QAM	1	24	22.19	22.33	22.20				
5	16QAM	12	0	22.33	22.46	22.32				
5	16QAM	12	7	22.24	22.23	22.28				
5	16QAM	12	13	22.23	22.28	22.20				
5	16QAM	25	0	22.29	22.46	22.33				
5	16QAM	1	0	22.20	22.41	22.32				
5	16QAM	1	12	22.17	22.29	22.20	24	0		
5	16QAM	1	24	22.20	22.24	22.23				
5	16QAM	12	0	22.14	22.40	22.16				
5	16QAM	12	7	22.23	22.28	22.28				
5	16QAM	12	13	22.14	22.20	22.15				
5	16QAM	25	0	22.37	22.38	22.27				
5	256QAM	1	0	19.37	19.39	19.28				
5	256QAM	1	12	19.43	19.52	19.42				
5	256QAM	1	24	19.26	19.33	19.29	21	3		
5	256QAM	12	0	19.26	19.45	19.28				
5	256QAM	12	7	19.28	19.33	19.25				
5	256QAM	12	13	19.13	19.29	19.25				
5	256QAM	25	0	19.33	19.34	19.26				
Channel										
1865 1860 1895										
3	QPSK	1	0	22.51	22.66	22.55				
3	QPSK	1	8	22.37	22.51	22.45	24	0		
3	QPSK	1	14	22.39	22.51	22.41				
3	QPSK	8	0	22.43	22.58	22.44				
3	QPSK	8	4	22.39	22.42	22.43				
3	QPSK	8	7	22.36	22.33	22.34				
3	QPSK	15	0	22.34	22.48	22.32				
3	16QAM	1	0	22.32	22.53	22.41				
3	16QAM	1	8	22.28	22.36	22.33	24	0		
3	16QAM	1	14	22.19	22.30	22.20				
3	16QAM	8	0	22.31	22.31	22.27				
3	16QAM	8	7	22.22	22.27	22.20				
3	16QAM	15	0	22.34	22.44	22.28				
3	16QAM	1	0	22.23	22.49	22.40				
3	16QAM	1	8	22.22	22.38	22.21				
3	16QAM	1	14	22.10	22.22	22.22				



Band 25 Ant3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Time-up (min)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.60	22.76	22.72	24	0		
20	QPSK	1	48	22.60	22.68	22.64				
20	QPSK	1	96	22.36	22.58	22.35				
20	QPSK	50	0	22.50	22.60	22.47				
20	QPSK	50	24	22.39	22.47	22.47				
20	QPSK	50	50	22.39	22.49	22.45	24	0		
20	QPSK	100	0	22.49	22.62	22.53				
20	16QAM	1	0	22.42	22.50	22.47				
20	16QAM	1	48	22.36	22.42	22.38	24	0		
20	16QAM	1	96	22.39	22.44	22.38				
20	16QAM	50	0	22.37	22.58	22.37				
20	16QAM	50	24	22.40	22.46	22.42	24	0		
20	16QAM	50	50	22.34	22.36	22.34				
20	16QAM	100	0	22.47	22.61	22.48				
20	16QAM	1	0	22.39	22.55	22.46				
20	16QAM	1	48	22.39	22.40	22.32	24	0		
20	16QAM	1	96	22.39	22.33	22.36				
20	16QAM	50	0	21.45	21.56	21.45				
20	16QAM	50	24	21.38	21.36	21.36				
20	16QAM	50	50	21.38	21.33	21.34	23	1		
20	16QAM	100	0	21.59	21.64	21.57				
20	16QAM	1	0	19.47	19.60	19.52				
20	256QAM	1	48	19.43	19.65	19.47	21	3		
20	256QAM	1	96	19.44	19.42	19.40				
20	256QAM	50	0	19.38	19.38	19.38				
20	256QAM	50	24	19.38	19.46	19.41	21	3		
20	256QAM	50	50	19.42	19.40	19.39				
20	256QAM	100	0	19.44	19.44	19.44				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.50	22.60	22.60	24	0		
15	QPSK	1	48	22.46	22.56	22.47				
15	QPSK	1	74	22.27	22.48	22.42				
15	QPSK	36	0	22.38	22.62	22.37				
15	QPSK	36	24	22.39	22.33	22.41	24	0		
15	QPSK	36	36	22.35	22.43	22.42				
15	QPSK	75	0	22.44	22.56	22.41				
15	16QAM	1	0	22.36	22.61	22.34				
15	16QAM	1	37	22.25	22.39	22.31	24	0		
15	16QAM	1	74	22.25	22.33	22.28				
15	16QAM	36	0	22.28	22.53	22.29				
15	16QAM	36	20	22.32	22.33	22.33	24	0		
15	16QAM	36	36	22.34	22.58	22.43				
15	16QAM	75	0	22.30	22.42	22.36				
15	16QAM	1	0	22.30	22.42	22.36	24	0		
15	16QAM	1	48	22.34	22.48	22.38				
15	16QAM	1	74	22.27	22.24	22.13				
15	16QAM	36	0	21.34	21.52	21.34				
15	16QAM	36	20	21.35	21.48	21.35	23	1		
15	16QAM	36	36	21.18	21.18	21.24				
15	16QAM	75	0	21.62	21.68	21.54				
15	256QAM	1	48	19.40	19.52	19.40	21	3		
15	256QAM	1	74	19.40	19.61	19.37				
15	256QAM	1	37	19.39	19.38	19.38				
15	256QAM	50	0	19.38	19.38	19.38				
15	256QAM	36	20	19.39	19.43	19.39	21	3		
15	256QAM	36	36	19.34	19.35	19.26				
15	256QAM	75	0	19.40	19.40	19.40				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.50	22.54	22.54	24	0		
10	QPSK	1	48	22.35	22.52	22.44				
10	QPSK	1	96	22.28	22.47	22.47				
10	QPSK	12	0	22.45	22.45	22.41				
10	QPSK	25	12	22.25	22.37	22.40	24	0		
10	QPSK	25	25	22.30	22.38	22.38				
10	16QAM	1	0	22.30	22.48	22.40				
10	16QAM	1	25	22.25	22.37	22.29	24	0		
10	16QAM	25	0	22.34	22.52	22.28				
10	16QAM	25	12	22.28	22.38	22.38	24	0		
10	16QAM	25	25	22.37	22.54	22.39				
10	16QAM	50	0	22.33	22.52	22.34				
10	16QAM	1	0	22.30	22.42	22.33	24	0		
10	16QAM	1	48	22.33	22.33	22.33				
10	16QAM	1	48	22.15	22.23	22.14				
10	16QAM	25	0	21.37	21.45	21.35				
10	16QAM	25	12	21.14	21.25	21.14	23	1		
10	16QAM	25	25	21.22	21.20	21.25				
10	16QAM	50	0	21.54	21.54	21.44				
10	256QAM	1	48	19.48	19.55	19.43	21	3		
10	256QAM	1	26	19.39	19.59	19.44				
10	256QAM	1	49	19.35	19.35	19.35				
10	256QAM	25	0	19.38	19.52	19.48	21	3		
10	256QAM	25	12	19.32	19.32	19.33				
10	256QAM	25	25	19.37	19.28	19.25	21	3		
10	256QAM	50	0	19.41	19.52	19.47				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.50	22.62	22.62	24	0		
5	QPSK	1	12	22.42	22.57	22.40				
5	QPSK	1	24	22.25	22.46	22.41				
5	QPSK	12	0	22.45	22.45	22.44				
5	QPSK	12	7	22.30	22.48	22.38	24	0		
5	QPSK	12	13	22.26	22.44	22.38				
5	QPSK	25	0	22.45	22.48	22.40				
5	16QAM	1	0	22.29	22.48	22.40				
5	16QAM	1	12	22.32	22.29	22.24	24	0		
5	16QAM	1	24	22.28	22.40	22.30				
5	16QAM	12	0	22.24	22.48	22.23				
5	16QAM	12	7	22.33	22.39	22.36	24	0		
5	16QAM	12	13	22.28	22.36	22.29				
5	16QAM	25	0	22.36	22.49	22.35				
5	16QAM	1	0	22.32	22.47	22.42	24	0		
5	16QAM	1	48	22.39	22.34	22.17				
5	16QAM	1	24	22.14	22.24	22.25				
5	16QAM	12	0	21.34	21.47	21.36				
5	16QAM	12	7	21.29	21.24	21.29	23	1		
5	16QAM	12	13	21.12	21.27	21.24				
5	16QAM	25	0	21.46	21.59	21.49				
5	256QAM	1	48	19.52	19.38	19.38	21	3		
5	256QAM	1	12	19.38	19.52	19.31				
5	256QAM	1	24	19.31	19.30	19.28				
5	256QAM	12	0	19.37	19.58	19.42	21	3		
5	256QAM	12	7	19.32	19.41	19.26				
5	256QAM	12	13	19.38	19.32	19.30	21	3		
5	256QAM	25	0	19.31	19.50	19.40				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.47	22.65	22.65	24	0		
3	QPSK	1	8	22.45	22.66	22.44				
3	QPSK	1	14	22.28	22.45	22.42				
3	QPSK	8	0	22.38	22.45	22.38				
3	QPSK	8	4	22.32	22.43	22.39	24	0		
3	QPSK	8	7	22.26	22.29	22.38				
3	16QAM	1	0	22.39	22.49	22.45				
3	16QAM	1	8	22.29	22.47	22.34	24	0		
3	16QAM	1	8	22.25	22.25	22.25				
3	16QAM	1	16	22.32	22.45	22.33				
3	16QAM	8	0	22.32	22.42	22.22	24	0		
3	16QAM	8	4	22.32	22.29	22.38				
3	16QAM	15	0	22.27	22.31	22.27				
3	16QAM	16	0	22.33	22.58	22.39				
3	16QAM	1	0	22.28	22.46	22.40	24	0		
3	16QAM	1	8	22.22	22.52	22.38				
3	16QAM	1	14	22.24	22.27	22.16				
3	16QAM	8								



Band 38 Ant3										
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)										
38	QPSK	1	0	23.49	23.52	23.54	24	0		
38	QPSK	1	49	23.37	23.45	23.50	24	0		
38	QPSK	1	99	23.36	23.33	23.29	24	0		
38	QPSK	50	0	23.52	23.52	23.58	24	0		
38	QPSK	50	24	23.25	23.36	23.38	24	0		
38	QPSK	50	50	23.21	23.28	23.21	24	0		
38	QPSK	100	0	23.24	23.45	23.38	24	0		
38	HQAM	1	0	23.16	23.37	23.21	24	0		
38	HQAM	1	49	23.14	23.24	23.21	24	0		
38	HQAM	1	99	23.09	23.24	23.13	24	0		
38	HQAM	50	0	22.77	22.86	22.86	23.5	0.5		
38	HQAM	50	24	22.82	22.87	22.86	23.5	0.5		
38	HQAM	50	50	22.73	22.74	22.71	23.5	0.5		
38	HQAM	100	0	22.66	22.67	22.66	23.5	0.5		
38	HQAM	100	49	22.77	22.87	22.81	23.5	0.5		
38	HQAM	1	99	22.66	22.76	22.65	23.5	0.5		
38	HQAM	50	0	21.80	22.01	21.90	22.5	1.5		
38	HQAM	50	24	21.82	21.80	21.80	22.5	1.5		
38	HQAM	50	50	21.72	21.88	21.79	22.5	1.5		
38	HQAM	100	0	21.97	22.01	21.91	22.5	1.5		
38	256QAM	1	0	19.81	20.02	19.87	20.5	3.5		
38	256QAM	1	49	19.81	20.02	19.85	20.5	3.5		
38	256QAM	1	99	19.80	19.77	19.79	20.5	3.5		
38	256QAM	50	0	19.89	19.84	19.86	20.5	3.5		
38	256QAM	50	24	19.88	19.85	19.87	20.5	3.5		
38	256QAM	50	50	19.82	19.85	19.77	20.5	3.5		
38	256QAM	100	0	19.83	19.83	19.83	20.5	3.5		
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.13	23.11	23.10	24	0		
15	QPSK	1	37	23.24	23.38	23.29	24	0		
15	QPSK	1	74	23.14	23.18	23.32	24	0		
15	QPSK	36	36	23.25	23.46	23.25	24	0		
15	QPSK	36	20	23.14	23.28	23.21	24	0		
15	QPSK	75	0	23.14	23.31	23.24	24	0		
15	HQAM	1	0	23.02	23.33	23.08	24	0		
15	HQAM	1	37	22.97	23.33	23.09	24	0		
15	HQAM	1	74	23.08	23.17	23.09	24	0		
15	HQAM	36	0	22.72	22.84	22.72	23.5	0.5		
15	HQAM	36	20	22.71	22.77	22.62	23.5	0.5		
15	HQAM	36	39	22.60	22.70	22.62	23.5	0.5		
15	HQAM	75	0	22.86	23.06	22.85	23.5	0.5		
15	HQAM	1	0	22.71	22.82	22.79	23.5	0.5		
15	HQAM	1	37	22.71	22.74	22.74	23.5	0.5		
15	HQAM	1	74	22.82	22.71	22.84	23.5	0.5		
15	HQAM	36	0	21.76	21.87	21.86	22.5	1.5		
15	HQAM	36	20	21.84	21.81	21.87	22.5	1.5		
15	HQAM	36	39	21.84	21.83	21.89	22.5	1.5		
15	HQAM	75	0	21.83	21.85	21.78	22.5	1.5		
15	256QAM	1	0	19.75	19.85	19.75	20.5	3.5		
15	256QAM	1	37	19.88	19.83	19.78	20.5	3.5		
15	256QAM	1	74	19.89	19.83	19.88	20.5	3.5		
15	256QAM	36	0	19.80	19.89	19.76	20.5	3.5		
15	256QAM	36	20	19.82	19.73	19.82	20.5	3.5		
15	256QAM	36	39	19.77	19.77	19.86	20.5	3.5		
15	256QAM	75	0	19.88	19.80	19.85	20.5	3.5		
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.24	23.43	23.41	24	0		
10	QPSK	1	25	23.28	23.33	23.20	24	0		
10	QPSK	1	49	23.13	23.21	23.27	24	0		
10	QPSK	12	0	23.20	23.48	23.36	24	0		
10	QPSK	25	12	23.17	23.25	23.22	24	0		
10	QPSK	25	25	23.16	23.24	23.13	24	0		
10	QPSK	50	0	23.10	23.33	23.30	24	0		
10	HQAM	1	0	23.06	23.33	23.18	24	0		
10	HQAM	1	25	23.07	23.16	23.14	24	0		
10	HQAM	1	49	23.00	23.18	23.02	24	0		
10	HQAM	25	0	22.84	22.88	22.79	23.5	0.5		
10	HQAM	25	12	22.88	22.77	22.71	23.5	0.5		
10	HQAM	25	25	22.80	22.84	22.85	23.5	0.5		
10	HQAM	50	0	22.91	23.07	22.77	23.5	0.5		
10	HQAM	1	0	22.80	22.89	22.80	23.5	0.5		
10	HQAM	1	25	22.82	22.73	22.72	23.5	0.5		
10	HQAM	1	49	22.59	22.67	22.53	23.5	0.5		
10	HQAM	25	0	21.70	21.81	21.80	22.5	1.5		
10	HQAM	25	12	21.78	21.81	21.87	22.5	1.5		
10	HQAM	25	25	21.84	21.75	21.84	22.5	1.5		
10	HQAM	50	0	21.86	21.91	21.88	22.5	1.5		
10	256QAM	1	0	19.73	19.91	19.75	20.5	3.5		
10	256QAM	1	25	19.74	19.88	19.72	20.5	3.5		
10	256QAM	1	49	19.87	19.84	19.75	20.5	3.5		
10	256QAM	25	0	19.76	19.85	19.73	20.5	3.5		
10	256QAM	25	12	19.85	19.79	19.85	20.5	3.5		
10	256QAM	25	25	19.78	19.81	19.85	20.5	3.5		
10	256QAM	50	0	19.84	20.05	19.85	20.5	3.5		
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.36	23.48	23.47	24	0		
5	QPSK	1	12	23.23	23.35	23.31	24	0		
5	QPSK	1	24	23.22	23.24	23.20	24	0		
5	QPSK	12	0	23.23	23.42	23.34	24	0		
5	QPSK	12	7	23.11	23.25	23.36	24	0		
5	QPSK	12	13	23.09	23.21	23.10	24	0		
5	QPSK	25	0	23.09	23.40	23.29	24	0		
5	HQAM	1	0	23.02	23.29	23.17	24	0		
5	HQAM	1	12	23.06	23.11	23.10	24	0		
5	HQAM	1	24	23.00	23.25	23.00	24	0		
5	HQAM	12	0	22.68	22.84	22.74	23.5	0.5		
5	HQAM	12	7	22.69	22.77	22.61	23.5	0.5		
5	HQAM	12	13	22.70	22.68	22.69	23.5	0.5		
5	HQAM	25	0	22.85	23.03	22.78	23.5	0.5		
5	HQAM	1	0	22.87	22.87	22.74	23.5	0.5		
5	HQAM	1	12	22.85	22.80	22.79	23.5	0.5		
5	HQAM	1	24	22.59	22.70	22.50	23.5	0.5		
5	HQAM	12	0	21.71	21.87	21.78	22.5	1.5		
5	HQAM	12	7	21.71	21.80	21.88	22.5	1.5		
5	HQAM	12	13	21.59	21.78	21.73	22.5	1.5		
5	HQAM	25	0	21.85	21.98	21.78	22.5	1.5		
5	256QAM	1	0	19.87	19.80	19.81	20.5	3.5		
5	256QAM	1	12	19.88	19.83	19.77	20.5	3.5		
5	256QAM	1	24	19.80	19.91	19.73	20.5	3.5		
5	256QAM	12	0	19.75	19.76	19.84	20.5	3.5		
5	256QAM	12	13	19.79	19.78	19.70	20.5	3.5		
5	256QAM	25	0	19.88	20.05	19.88	20.5	3.5		

Band 41 FCCAnt3											
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)											
41	QPSK	1	0	23.43	23.45	23.41	23.5	24	0		
41	QPSK	1	49	23.34	23.31	23.45	23.5	24	0		
41	QPSK	1	99	23.26	23.36	23.35	23.5	24	0		
41	QPSK	50	0	23.21	23.43	23.30	23.5	24	0		
41	QPSK	50	24	23.38	23.33	23.44	23.5	24	0		
41	QPSK	50	50	23.22	23.35	23.27	23.5	24	0		
41	HQAM	1	0	23.43	23.38	23.33	23.5	24	0		
41	HQAM	1	49	23.62	23.73	23.86	22.77	23.83	23	1	
41	HQAM	1	99	23.65	23.69	23.61	22.61	23.66	23	1	
41	HQAM	50	0	23.37	23.51	23.66	21.50	23.52	22	2	
41	HQAM	50	24	23.39	23.40	23.45	21.48	23.48	21.50	2	
41	HQAM										



Band 41 PC2 FCC Ant3											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	25.72	25.82	25.92	26.02	26.12	26.22	26.5	0
20	QPSK	1	49	25.72	25.84	25.89	25.75	25.75	25.87		
20	QPSK	1	99	25.69	25.69	25.69	25.69	25.69	25.69		
20	QPSK	50	0	25.50	25.54	25.71	25.50	25.47			
20	QPSK	50	24	25.41	25.45	25.54	25.52	25.38			
20	QPSK	50	49	25.38	25.42	25.50	25.42	25.35			
20	QPSK	100	0	25.37	25.49	25.64	25.50	25.35			
20	HQAM	1	0	25.69	25.75	25.84	25.83	25.72			
20	HQAM	1	49	25.65	25.72	25.85	25.70	25.60			
20	HQAM	1	99	25.58	25.59	25.74	25.70	25.56			
20	HQAM	50	0	25.49	25.55	25.72	25.38	25.34			
20	HQAM	50	24	25.42	25.48	25.60	25.47	25.41			
20	HQAM	50	49	25.41	25.47	25.56	25.46	25.39			
20	HQAM	100	0	25.42	25.50	25.74	25.55	25.56			
20	HQAM	100	0	25.57	25.55	25.84	25.65	25.55			
20	HQAM	100	49	25.61	25.65	25.75	25.65	25.59			
20	HQAM	100	99	25.62	25.60	25.63	25.57	25.44			
20	HQAM	50	0	24.51	24.64	24.75	24.64	24.55			
20	HQAM	50	24	24.50	24.65	24.65	24.56	24.45			
20	HQAM	50	50	24.32	24.44	24.50	24.47	24.37			
20	HQAM	100	0	24.52	24.65	24.61	24.56	24.45			
20	HQAM	100	49	21.73	21.82	21.95	21.79	21.73			
20	HQAM	100	99	21.72	21.74	21.85	21.78	21.71			
20	SSBQAM	1	0	21.56	21.67	21.71	21.71	21.67			
20	SSBQAM	50	0	21.61	21.62	21.70	21.66	21.57			
20	SSBQAM	50	24	21.55	21.58	21.58	21.62	21.59			
20	SSBQAM	50	50	21.41	21.54	21.61	21.52	21.39			
20	SSBQAM	100	0	21.52	21.62	21.66	21.66	21.60			
Channel											
Frequency (MHz)											
15	QPSK	1	0	25.74	25.73	25.90	25.73	25.73			
15	QPSK	1	37	25.82	25.88	25.72	25.70	25.84			
15	QPSK	1	74	25.84	25.85	25.84	25.70	25.84			
15	QPSK	38	0	25.35	25.42	25.61	25.47	25.43			
15	QPSK	38	20	25.32	25.34	25.43	25.38	25.29			
15	QPSK	38	39	25.31	25.40	25.49	25.39	25.34			
15	QPSK	75	0	25.29	25.43	25.61	25.42	25.20			
15	HQAM	1	0	25.58	25.62	25.81	25.77	25.68			
15	HQAM	1	37	25.61	25.63	25.69	25.64	25.54			
15	HQAM	1	74	25.53	25.58	25.64	25.63	25.44			
15	HQAM	38	0	25.45	25.61	25.69	25.47	25.45			
15	HQAM	38	20	25.28	25.42	25.60	25.41	25.35			
15	HQAM	38	39	25.31	25.40	25.44	25.34	25.27			
15	HQAM	75	0	25.37	25.43	25.66	25.43	25.33			
15	HQAM	1	0	25.54	25.63	25.78	25.67	25.47			
15	HQAM	1	37	25.57	25.61	25.69	25.60	25.39			
15	HQAM	1	74	25.31	25.46	25.46	25.33	25.37			
15	HQAM	38	0	24.42	24.53	24.62	24.52	24.43			
15	HQAM	38	20	24.38	24.47	24.61	24.42	24.41			
15	HQAM	38	39	24.44	24.44	24.60	24.42	24.32			
15	HQAM	75	0	24.44	24.52	24.57	24.51	24.41			
15	SSBQAM	1	0	21.63	21.70	21.81	21.66	21.62			
15	SSBQAM	37	0	21.62	21.63	21.70	21.65	21.64			
15	SSBQAM	1	74	21.50	21.59	21.68	21.68	21.56			
15	SSBQAM	38	0	21.47	21.50	21.67	21.61	21.43			
15	SSBQAM	38	20	21.44	21.55	21.66	21.56	21.55			
15	SSBQAM	38	39	21.33	21.40	21.57	21.43	21.33			
15	SSBQAM	75	0	21.58	21.58	21.72	21.51	21.45			
Channel											
Frequency (MHz)											
10	QPSK	1	0	25.64	25.74	25.93	25.74	25.64			
10	QPSK	1	25	25.64	25.53	25.82	25.62	25.55			
10	QPSK	1	49	25.65	25.62	25.84	25.72	25.54			
10	QPSK	25	0	25.41	25.45	25.60	25.46	25.34			
10	QPSK	25	12	25.31	25.36	25.43	25.44	25.34			
10	QPSK	25	25	25.29	25.37	25.43	25.38	25.20			
10	QPSK	50	0	25.30	25.40	25.50	25.44	25.34			
10	HQAM	1	0	25.69	25.69	25.90	25.72	25.61			
10	HQAM	1	25	25.69	25.67	25.86	25.67	25.62			
10	HQAM	1	49	25.48	25.67	25.69	25.61	25.51			
10	HQAM	25	0	25.44	25.40	25.61	25.48	25.44			
10	HQAM	25	12	25.39	25.46	25.56	25.40	25.29			
10	HQAM	25	25	25.28	25.39	25.41	25.37	25.20			
10	HQAM	50	0	25.41	25.44	25.62	25.47	25.46			
10	HQAM	50	0	25.42	25.55	25.74	25.58	25.40			
10	HQAM	1	0	25.57	25.58	25.65	25.55	25.55			
10	HQAM	1	49	25.34	25.53	25.53	25.50	25.37			
10	HQAM	25	0	24.38	24.47	24.60	24.40	24.40			
10	HQAM	25	12	24.44	24.52	24.62	24.53	24.32			
10	HQAM	25	25	24.22	24.30	24.46	24.40	24.32			
10	HQAM	50	0	24.45	24.55	24.54	24.52	24.35			
10	SSBQAM	1	0	21.63	21.79	21.84	21.66	21.64			
10	SSBQAM	1	25	21.65	21.63	21.86	21.64	21.64			
10	SSBQAM	1	49	21.49	21.65	21.65	21.65	21.55			
10	SSBQAM	25	0	21.57	21.51	21.67	21.61	21.53			
10	SSBQAM	25	12	21.62	21.63	21.66	21.67	21.52			
10	SSBQAM	25	25	21.35	21.47	21.55	21.45	21.31			
10	SSBQAM	50	0	21.44	21.56	21.77	21.50	21.47			
Channel											
Frequency (MHz)											
5	QPSK	1	0	25.70	25.67	25.90	25.74	25.60			
5	QPSK	1	12	25.69	25.59	25.81	25.72	25.58			
5	QPSK	1	24	25.65	25.59	25.85	25.77	25.55			
5	QPSK	12	0	25.46	25.42	25.66	25.49	25.40			
5	QPSK	12	7	25.34	25.35	25.49	25.43	25.33			
5	QPSK	12	13	25.25	25.34	25.40	25.39	25.25			
5	QPSK	25	0	25.38	25.44	25.49	25.39	25.27			
5	HQAM	1	0	25.69	25.66	25.81	25.76	25.61			
5	HQAM	1	12	25.68	25.69	25.79	25.61	25.51			
5	HQAM	1	24	25.43	25.61	25.60	25.59	25.46			
5	HQAM	12	0	25.38	25.47	25.62	25.48	25.41			
5	HQAM	12	7	25.35	25.38	25.49	25.33	25.37			
5	HQAM	12	13	25.32	25.35	25.44	25.37	25.33			
5	HQAM	25	0	25.31	25.38	25.69	25.48	25.41			
5	HQAM	1	0	25.53	25.62	25.73	25.52	25.45			
5	HQAM	1	12	25.57	25.63	25.66	25.61	25.53			
5	HQAM	1	24	25.30	25.54	25.58	25.52	25.32			
5	HQAM	12	0	24.45	24.67	24.66	24.59	24.43			
5	HQAM	12	7	24.40	24.50	24.57	24.40	24.41			
5	HQAM	12	13	24.27	24.35	24.46	24.39	24.23			
5	HQAM	25	0	24.43	24.63	24.66	24.50	24.36			
5	SSBQAM	1	0	21.68	21.76	21.84	21.71	21.69			
5	SSBQAM	1	12	21.64	21.65	21.82	21.64	21.63			
5	SSBQAM	1	24	21.48	21.67	21.69	21.62	21.52			
5	SSBQAM	12	0	21.47	21.51	21.70	21.54	21.43			
5	SSBQAM	12	7	21.44	21.49	21.42	21.49	21.56			
5	SSB										



Reduced Power Mode for DS12-Standalone

DS1200 A/B									
Row	TX Channel	Burst Average Power (dBm)			Frame Average Power (dBm)				
		128	180	261	128	180	261		
	Frequency (MHz)	(dBm)			(dBm)				
1	DS12-1 Tx-wid	32.90	32.97	32.94	33.00	23.90	23.97	23.94	24.00
2	DS12-1 Tx-nb	32.85	32.94	32.81	33.00	23.83	23.94	23.91	24.00
3	DS12-2 Tx-wid	25.30	25.41	25.26	25.50	23.30	23.41	23.26	24.00
4	DS12-2 Tx-nb	25.31	25.50	25.86	26.00	24.65	24.72	24.60	25.14
5	EDGE-1 Tx-wid	25.42	25.40	25.37	26.00	16.42	16.40	16.37	17.00
6	EDGE-1 Tx-nb	25.77	25.60	25.70	26.00	17.77	17.60	17.70	18.00
7	EDGE-3 Tx-wid	22.66	22.60	22.62	23.00	16.40	16.43	16.38	16.24
8	EDGE-3 Tx-nb	20.59	20.63	20.60	21.00	17.59	17.63	17.60	18.00

DS1200 A/B									
Row	TX Channel	Burst Average Power (dBm)			Frame Average Power (dBm)				
		512	864	810	512	864	810		
	Frequency (MHz)	(dBm)			(dBm)				
1	DS12-1 Tx-wid	27.14	27.86	27.52	28.52	18.54	18.62	18.52	19.00
2	DS12-1 Tx-nb	27.54	27.55	27.58	28.50	18.54	18.61	18.58	19.00
3	DS12-2 Tx-wid	24.84	24.94	24.83	26.00	18.84	18.94	18.83	20.00
4	DS12-2 Tx-nb	23.33	23.30	23.33	24.50	19.07	19.13	19.07	20.24
5	DS12-4 Tx-wid	20.70	20.70	20.88	21.00	17.70	17.70	17.88	18.00
6	EDGE-1 Tx-wid	22.70	22.61	22.73	23.00	13.70	13.67	13.73	14.00
7	EDGE-2 Tx-wid	21.89	21.10	21.11	22.00	15.09	15.10	15.11	16.00
8	EDGE-2 Tx-nb	20.00	20.12	20.04	21.00	15.81	15.86	15.78	16.14
9	EDGE-3 Tx-wid	17.08	17.05	17.04	17.00	14.06	14.02	14.04	15.00

WCDMA II A/B													
Row	TX Channel	WCDMA II A			WCDMA II B			WCDMA V A/B					
		1800	1800	1800	1800	1800	1800	1800	1800	1800			
	Frequency (MHz)	(dBm)			(dBm)			(dBm)					
1	SCPP Ref #1	20.57	20.65	20.53	22.00	20.39	20.47	20.38	22.00	22.43	22.40	24.00	
2	SCPP Ref #2	20.52	20.60	20.57	22.00	20.45	20.51	20.41	22.00	22.45	22.42	24.00	
3	SCPP Ref #3	19.72	19.78	19.70	21.00	19.50	19.68	19.60	21.00	21.55	21.48	23.00	
4	SCPP Ref #4	19.46	19.71	19.65	21.00	19.60	19.68	19.62	21.00	21.48	21.60	23.00	
5	SCPP Ref #5	19.19	19.25	19.23	20.50	19.00	19.11	19.08	20.50	21.61	21.14	21.04	22.50
6	SCPP Ref #6	19.12	19.26	19.21	20.50	18.50	18.53	18.53	20.50	20.98	21.04	21.06	22.50
7	SCPP Ref #7	19.70	19.80	19.64	21.00	19.54	19.68	19.48	21.00	21.62	21.72	21.42	23.00
8	SCPP Ref #8	19.56	19.50	19.41	21.00	19.38	19.40	19.32	21.00	21.34	21.42	21.32	23.00
9	SCPP Ref #9	19.08	19.12	19.05	20.50	18.92	18.93	18.89	20.50	20.99	20.99	20.99	22.50
10	SCPP Ref #10	19.02	19.15	19.12	20.50	18.80	18.89	19.01	20.50	20.89	21.00	21.03	22.50
11	SCPP Ref #11	19.86	19.71	19.70	21.00	19.55	19.61	19.61	21.00	21.61	21.88	21.67	23.00
12	SCPP Ref #12	17.71	17.75	17.64	19.00	17.54	17.60	17.51	19.00	19.67	19.83	19.50	21.00
13	SCPP Ref #13	18.88	18.78	18.70	20.00	18.52	18.58	18.38	20.00	20.52	20.81	20.60	21.00
14	SCPP Ref #14	17.81	17.68	17.67	19.00	17.44	17.51	17.48	19.00	19.45	19.52	19.45	21.00
15	SCPP Ref #15	19.64	19.60	19.52	21.00	19.63	19.48	19.38	21.00	21.55	21.44	21.40	23.00



Band 2 Default Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (min)	MPR (dB)		
Channel	Ch. 1 Freq.	Ch. 2 Freq.	Ch. 3 Freq.	Ch. 1 Freq.	Ch. 2 Freq.	Ch. 3 Freq.				
20	QPSK	1	0	23.11	23.12	23.07				
20	QPSK	1	49	23.03	23.04	23.09				
20	QPSK	1	99	22.99	23.07	22.97			24	0
20	QPSK	50	0	23.08	23.13	23.05				
20	QPSK	50	24	23.04	23.08	23.02				
20	QPSK	50	50	23.02	23.04	23.06			24	0
20	QPSK	100	0	23.09	23.05	23.01				
20	QPSK	100	24	23.05	23.02	23.08				
20	QPSK	100	49	22.85	22.98	22.90			24	0
20	QPSK	150	0	22.70	22.85	22.80				
20	QPSK	150	24	22.82	22.82	22.84				
20	QPSK	150	50	22.34	22.48	22.34			23.5	0.5
20	QPSK	50	50	22.36	22.42	22.27				
20	QPSK	50	99	22.30	22.42	22.47				
20	QPSK	1	0	22.72	22.82	22.72				
20	QPSK	1	49	22.68	22.76	22.67			23.5	0.5
20	QPSK	50	0	21.84	21.71	21.97				
20	QPSK	50	24	21.46	21.56	21.50			22.5	1.5
20	QPSK	50	50	21.42	21.48	21.52				
20	QPSK	100	0	21.43	21.52	21.38				
20	QPSK	100	24	19.82	19.88	19.85				
20	QPSK	100	49	19.82	19.88	19.80			20.5	3.5
20	QPSK	150	0	19.82	19.82	19.87				
20	QPSK	150	24	19.80	19.73	19.63				
20	QPSK	150	50	19.70	19.81	19.78			20.5	3.5
20	QPSK	100	99	19.85	19.87	19.87				
Channel	Ch. 1 Freq.	Ch. 2 Freq.	Ch. 3 Freq.	Ch. 1 Freq.	Ch. 2 Freq.	Ch. 3 Freq.	Turn-up (min)	MPR (dB)		
15	QPSK	1	0	23.03	23.10	23.09				
15	QPSK	1	49	22.79	22.92	22.82			24	0
15	QPSK	1	99	22.81	22.96	22.83				
15	QPSK	50	0	22.87	23.00	22.90				
15	QPSK	50	24	22.81	22.92	22.87				
15	QPSK	50	50	22.87	22.98	22.81			24	0
15	QPSK	100	0	22.91	23.00	22.91				
15	QPSK	100	24	22.90	22.79	22.79				
15	QPSK	100	49	22.77	22.88	22.83			24	0
15	QPSK	150	0	22.85	22.95	22.85				
15	QPSK	150	24	22.80	22.55	22.45				
15	QPSK	150	50	22.20	22.37	22.28			23.5	0.5
15	QPSK	50	50	22.23	22.34	22.23				
15	QPSK	100	0	22.21	22.28	22.21				
15	QPSK	100	24	22.21	22.28	22.21				
15	QPSK	100	49	22.21	22.28	22.21				
15	QPSK	150	0	21.84	21.73	21.93			22.5	1.5
15	QPSK	150	24	21.76	21.81	21.76				
15	QPSK	150	50	21.75	21.73	21.75				
15	QPSK	1	49	19.74	19.88	19.85			20.5	3.5
15	QPSK	1	99	19.77	19.78	19.72				
15	QPSK	50	0	19.76	19.82	19.86				
15	QPSK	50	24	19.78	19.80	19.73			20.5	3.5
15	QPSK	50	50	19.72	19.74	19.74				
15	QPSK	100	0	19.82	19.82	19.82				
Channel	Ch. 1 Freq.	Ch. 2 Freq.	Ch. 3 Freq.	Ch. 1 Freq.	Ch. 2 Freq.	Ch. 3 Freq.	Turn-up (min)	MPR (dB)		
10	QPSK	1	0	23.02	23.14	23.06				
10	QPSK	1	49	22.83	22.98	22.81			24	0
10	QPSK	1	99	22.85	22.96	22.86				
10	QPSK	50	0	22.87	23.00	22.91				
10	QPSK	50	24	22.81	22.92	22.87				
10	QPSK	50	50	22.87	22.98	22.81			24	0
10	QPSK	100	0	22.91	23.04	22.91				
10	QPSK	100	24	22.93	23.04	22.72				
10	QPSK	100	49	22.82	22.77	22.82			24	0
10	QPSK	150	0	22.85	22.95	22.85				
10	QPSK	150	24	22.82	22.84	22.87				
10	QPSK	150	50	22.20	22.30	22.28			23.5	0.5
10	QPSK	50	50	22.23	22.34	22.23				
10	QPSK	100	0	22.21	22.28	22.21				
10	QPSK	100	24	22.21	22.28	22.21				
10	QPSK	100	49	22.21	22.28	22.21				
10	QPSK	150	0	21.84	21.73	21.93			22.5	1.5
10	QPSK	150	24	21.76	21.81	21.76				
10	QPSK	150	50	21.75	21.73	21.75				
10	QPSK	1	49	19.74	19.88	19.85			20.5	3.5
10	QPSK	1	99	19.77	19.78	19.72				
10	QPSK	50	0	19.76	19.82	19.86				
10	QPSK	50	24	19.78	19.80	19.73			20.5	3.5
10	QPSK	50	50	19.72	19.74	19.74				
10	QPSK	100	0	19.82	19.82	19.82				
Channel	Ch. 1 Freq.	Ch. 2 Freq.	Ch. 3 Freq.	Ch. 1 Freq.	Ch. 2 Freq.	Ch. 3 Freq.	Turn-up (min)	MPR (dB)		
5	QPSK	1	0	23.02	23.14	23.06				
5	QPSK	1	49	22.83	22.98	22.81			24	0
5	QPSK	1	99	22.85	22.96	22.86				
5	QPSK	50	0	22.87	23.00	22.91				
5	QPSK	50	24	22.81	22.92	22.87				
5	QPSK	50	50	22.87	22.98	22.81			24	0
5	QPSK	100	0	22.91	23.04	22.91				
5	QPSK	100	24	22.93	23.04	22.72				
5	QPSK	100	49	22.82	22.77	22.82			24	0
5	QPSK	150	0	22.85	22.95	22.85				
5	QPSK	150	24	22.82	22.84	22.87				
5	QPSK	150	50	22.20	22.30	22.28			23.5	0.5
5	QPSK	50	50	22.23	22.34	22.23				
5	QPSK	100	0	22.21	22.28	22.21				
5	QPSK	100	24	22.21	22.28	22.21				
5	QPSK	100	49	22.21	22.28	22.21				
5	QPSK	150	0	21.84	21.73	21.93			22.5	1.5
5	QPSK	150	24	21.76	21.81	21.76				
5	QPSK	150	50	21.75	21.73	21.75				
5	QPSK	1	49	19.74	19.88	19.85			20.5	3.5
5	QPSK	1	99	19.77	19.78	19.72				
5	QPSK	50	0	19.76	19.82	19.86				
5	QPSK	50	24	19.78	19.80	19.73			20.5	3.5
5	QPSK	50	50	19.72	19.74	19.74				
5	QPSK	100	0	19.82	19.82	19.82				

Band 4 Default Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (min)	MPR (dB)		
Channel	Ch. 1 Freq.	Ch. 2 Freq.	Ch. 3 Freq.	Ch. 1 Freq.	Ch. 2 Freq.	Ch. 3 Freq.				
20	QPSK	1	0	23.07	23.21	23.15				
20	QPSK	1	49	22.94	23.09	23.03			24	0
20	QPSK	1	99	22.89	23.05	23.00				
20	QPSK	50	0	22.97	23.18	23.05				
20	QPSK	50	24	22.92	23.02	22.92				
20	QPSK	50	50	22.95	23.02	22.88			24	0
20	QPSK	100	0	23.03	23.14	23.04				
20	QPSK	100	24	22.93	23.07	22.97				
20	QPSK	100	49	22.87	22.91	22.81				
20	QPSK	150	0	22.75	22.87	22.83				
20	QPSK	150	24	22.72	22.92	22.75				
20	QPSK	150	50	22.26	22.92	22.78			23.5	0.5
20	QPSK	50	50	22.28	22.73	22.71				
20	QPSK	100	0	22.28	22.98	22.79				
20	QPSK	100	24	22.28	22.98	22.80				
20	QPSK	100	49	22.28	22.76	22.83			23.5	0.5
20	QPSK	150	0	21.86	21.97	21.86				
20	QPSK	150	24	21.79	21.80	21.76			22.5	1.5
20	QPSK	150	50	21.75	21.73	21.75				
20	QPSK	100	0	21.73	21.85	21.71				



Band 25 Default Ant 0										
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up (min)	APR (dB)		
Channel										
1800 1800 1900										
20	QPSK	1	0	23.16	23.21	23.18				
20	QPSK	1	49	23.03	23.01	23.03	24	0		
20	QPSK	1	99	22.97	23.01	23.03				
20	QPSK	50	0	23.00	23.10	23.05				
20	QPSK	50	24	22.95	23.03	23.05	24	0		
20	QPSK	50	50	22.88	22.99	22.88				
20	QPSK	100	0	22.91	23.01	22.92				
20	16QAM	1	0	22.96	22.99	22.91				
20	16QAM	1	49	22.84	22.99	22.95	24	0		
20	16QAM	1	99	22.81	22.87	22.80				
20	16QAM	50	0	22.79	22.99	22.83				
20	16QAM	50	24	22.75	22.90	22.75	23.5	0.5		
20	16QAM	50	50	22.61	22.72	22.70				
20	16QAM	100	0	22.62	22.69	22.61				
20	64QAM	1	0	22.86	23.05	22.91				
20	64QAM	1	49	22.70	22.95	22.87	23.5	0.5		
20	64QAM	1	99	21.92	21.90	21.79				
20	64QAM	50	24	21.78	21.79	21.74	22.5	1.5		
20	64QAM	50	50	21.69	21.66	21.64				
20	64QAM	100	0	21.67	21.69	21.68				
20	256QAM	1	49	19.79	19.90	19.83	20.5	3.5		
20	256QAM	1	99	19.77	19.85	19.78				
20	256QAM	50	24	19.77	19.90	19.74	20.5	3.5		
20	256QAM	50	50	19.70	19.74	19.71				
20	256QAM	100	0	19.62	19.74	19.67				
Channel										
1827.5 1880 1927.5										
15	QPSK	1	0	23.05	23.13	23.04				
15	QPSK	1	37	22.99	22.99	22.90	24	0		
15	QPSK	1	74	22.84	22.90	22.87				
15	QPSK	36	0	22.94	23.01	22.85				
15	QPSK	36	25	22.82	22.96	22.89	24	0		
15	QPSK	36	39	22.84	22.95	22.75				
15	QPSK	75	0	22.77	22.99	22.79				
15	16QAM	1	0	22.92	22.92	22.84				
15	16QAM	1	37	22.81	22.87	22.85	24	0		
15	16QAM	1	74	22.66	22.69	22.67				
15	16QAM	36	0	22.70	22.81	22.75				
15	16QAM	36	25	22.68	22.69	22.62	23.5	0.5		
15	16QAM	36	39	22.62	22.62	22.62				
15	16QAM	75	0	22.49	22.53	22.50				
15	64QAM	1	0	22.74	22.90	22.77	23.5	0.5		
15	64QAM	1	37	22.67	22.69	22.67				
15	64QAM	1	74	22.70	22.65	22.65				
15	64QAM	36	0	21.74	21.85	21.85	22.5	1.5		
15	64QAM	36	25	21.67	21.68	21.68				
15	64QAM	36	39	21.68	21.73	21.59				
15	64QAM	75	0	21.65	21.64	21.60				
15	256QAM	1	37	19.75	19.75	19.70	20.5	3.5		
15	256QAM	1	74	19.67	19.70	19.73				
15	256QAM	50	24	19.78	19.85	19.87	20.5	3.5		
15	256QAM	50	50	19.69	19.87	19.80				
15	256QAM	36	39	19.67	19.70	19.61				
15	256QAM	75	0	19.55	19.68	19.65				
Channel										
20600 20640 20680										
10	QPSK	1	0	23.03	23.09	23.00				
10	QPSK	1	25	22.94	22.92	22.98	24	0		
10	QPSK	1	49	22.90	22.95	22.90				
10	QPSK	12	0	22.87	22.88	22.89				
10	QPSK	25	12	22.87	22.85	22.83	24	0		
10	QPSK	25	25	22.84	22.85	22.71				
10	16QAM	1	0	22.80	22.80	22.83				
10	16QAM	1	24	22.90	22.95	22.83	24	0		
10	16QAM	1	49	22.81	22.91	22.88				
10	16QAM	1	99	22.66	22.79	22.68				
10	16QAM	25	0	22.74	22.80	22.75				
10	16QAM	25	12	22.62	22.68	22.67	23.5	0.5		
10	16QAM	25	25	22.62	22.62	22.67				
10	16QAM	50	0	22.57	22.65	22.54				
10	64QAM	1	0	22.82	22.91	22.85	23.5	0.5		
10	64QAM	1	24	22.64	22.68	22.68				
10	64QAM	1	49	22.72	22.76	22.71				
10	64QAM	25	0	21.79	21.84	21.68	22.5	1.5		
10	64QAM	25	12	21.74	21.69	21.70				
10	64QAM	25	25	21.68	21.77	21.61				
10	64QAM	50	0	21.62	21.56	21.52				
10	256QAM	1	24	19.80	19.84	19.81	20.5	3.5		
10	256QAM	1	28	19.68	19.75	19.72				
10	256QAM	1	49	19.74	19.73	19.73				
10	256QAM	12	0	19.65	19.81	19.77	20.5	3.5		
10	256QAM	12	12	19.71	19.83	19.68				
10	256QAM	25	25	19.65	19.61	19.60				
10	256QAM	50	0	19.55	19.67	19.63				
Channel										
20665 20680 20695										
5	QPSK	1	0	23.03	23.09	23.00				
5	QPSK	1	12	22.95	22.92	23.03	24	0		
5	QPSK	1	24	22.86	22.90	22.95				
5	QPSK	12	0	22.86	23.04	22.82				
5	QPSK	12	7	22.88	23.00	22.84	24	0		
5	QPSK	12	13	22.77	22.88	22.79				
5	QPSK	25	0	22.77	22.88	22.79				
5	16QAM	1	0	22.88	23.04	22.88				
5	16QAM	1	12	22.88	22.90	22.87	24	0		
5	16QAM	1	24	22.67	22.73	22.73				
5	16QAM	12	0	22.70	22.84	22.73				
5	16QAM	12	7	22.71	22.70	22.63	23.5	0.5		
5	16QAM	12	13	22.60	22.60	22.67				
5	16QAM	25	0	22.55	22.62	22.61				
5	64QAM	1	0	22.78	22.88	22.88	23.5	0.5		
5	64QAM	1	12	22.71	22.92	22.81				
5	64QAM	1	24	22.65	22.69	22.76				
5	64QAM	12	0	21.78	21.84	21.70	22.5	1.5		
5	64QAM	12	7	21.70	21.65	21.70				
5	64QAM	12	13	21.68	21.79	21.68				
5	64QAM	25	0	21.60	21.64	21.60				
5	256QAM	1	0	19.75	19.86	19.88	20.5	3.5		
5	256QAM	1	12	19.71	19.82	19.75				
5	256QAM	1	24	19.68	19.75	19.74				
5	256QAM	12	0	19.76	19.85	19.84	20.5	3.5		
5	256QAM	12	7	19.68	19.78	19.59				
5	256QAM	12	13	19.61	19.64	19.64				
5	256QAM	25	0	19.57	19.64	19.54				
Channel										
20667 20680 20683										
1.4	QPSK	1	0	23.02	23.10	23.15				
1.4	QPSK	1	3	22.98	22.97	22.95	24	0		
1.4	QPSK	1	14	22.94	22.93	22.99				
1.4	QPSK	8	0	22.94	23.05	22.98				
1.4	QPSK	8	4	22.80	22.97	22.91	24	0		
1.4	QPSK	8	7	22.75	22.84	22.78				
1.4	QPSK	15	0	22.83	22.89	22.80				
1.4	16QAM	1	0	22.84	23.02	22.85				
1.4	16QAM	1	8	22.89	22.86	22.87	24	0		
1.4	16QAM	1	14	22.77	22.75	22.66				
1.4	16QAM	8	0	22.66	22.87	22.79				
1.4	16QAM	8	4	22.65	22.65	22.67	23.5	0.5		
1.4	16QAM	15	0	22.97	22.89	22.97				
1.4	64QAM	1	0	22.75	22.92	22.80				
1.4	64QAM	1	8	22.66	22.93	22.79	23.5	0.5		
1.4	64QAM	1	14	22.65	22.72	22.69				
1.4	64QAM	8	0	21.76	21.87	21.84	22.5	1.5		
1.4	64QAM									



Band 66 Default Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Turn-up (min)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.17	20.22	20.14	24	0		
20	QPSK	1	49	20.99	21.11	20.98				
20	QPSK	1	99	20.02	20.02	20.90				
20	QPSK	50	0	20.96	20.18	20.07				
20	QPSK	50	24	20.92	20.02	20.99				
20	QPSK	50	50	20.85	20.98	20.92				
20	QPSK	100	0	20.88	20.01	20.91				
20	16QAM	1	0	20.80	20.10	20.98				
20	16QAM	1	49	20.87	20.01	20.91				
20	16QAM	1	99	20.83	20.85	20.86				
20	16QAM	50	0	20.81	20.81	20.86				
20	16QAM	50	24	20.80	20.85	20.87				
20	16QAM	50	50	20.83	20.81	20.84				
20	64QAM	1	0	20.85	20.75	20.84				
20	64QAM	1	49	20.49	20.84	20.84				
20	64QAM	1	99	20.81	20.85	20.80				
20	64QAM	50	0	21.09	21.00	21.71				
20	64QAM	50	24	21.83	21.71	21.71				
20	64QAM	50	50	21.83	21.75	21.81				
20	64QAM	100	0	21.57	21.82	21.58				
20	256QAM	1	49	18.99	18.92	18.84				
20	256QAM	1	99	18.81	18.84	18.83				
20	256QAM	50	0	18.84	18.88	18.88				
20	256QAM	50	24	18.78	18.80	18.74				
20	256QAM	50	50	18.80	18.77	18.73				
20	256QAM	100	0	18.71	18.75	18.75				
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.06	20.16	20.00	24	0		
15	QPSK	1	39	20.95	20.90	20.84				
15	QPSK	1	74	20.89	20.87	20.84				
15	QPSK	36	0	20.87	20.10	20.02				
15	QPSK	36	20	20.82	20.10	20.02				
15	QPSK	36	39	20.78	20.87	20.78				
15	16QAM	1	0	20.82	20.81	20.76				
15	16QAM	1	49	20.88	20.87	20.80				
15	16QAM	1	37	20.75	20.91	20.85				
15	16QAM	1	74	20.79	20.74	20.75				
15	16QAM	36	0	20.49	20.71	20.60				
15	16QAM	36	20	20.47	20.60	20.60				
15	16QAM	75	0	20.41	20.48	20.44				
15	64QAM	1	0	20.47	20.52	20.57				
15	64QAM	1	37	20.81	20.85	20.84				
15	64QAM	1	74	20.45	20.52	20.38				
15	64QAM	36	0	21.59	21.86	21.61				
15	64QAM	36	20	21.51	21.60	21.67				
15	64QAM	36	39	21.50	21.50	21.52				
15	64QAM	75	0	21.48	21.50	21.51				
15	256QAM	1	49	18.78	18.80	18.80				
15	256QAM	1	37	18.92	18.80	18.79				
15	256QAM	1	74	18.75	18.79	18.77				
15	256QAM	36	0	18.80	18.80	18.80				
15	256QAM	36	20	18.73	18.73	18.80				
15	256QAM	36	39	18.88	18.69	18.63				
15	256QAM	75	0	18.83	18.81	18.84				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.09	20.10	20.10	24	0		
10	QPSK	1	25	20.94	20.02	20.89				
10	QPSK	1	49	20.88	20.96	20.82				
10	QPSK	25	0	20.84	20.85	20.83				
10	QPSK	25	12	20.80	20.01	20.95				
10	QPSK	25	25	20.81	20.87	20.86				
10	16QAM	1	0	20.86	20.86	20.88				
10	16QAM	1	25	20.81	20.85	20.80				
10	16QAM	1	49	20.76	20.79	20.84				
10	16QAM	25	0	20.37	20.70	20.55				
10	16QAM	25	12	20.81	20.80	20.89				
10	16QAM	25	25	20.82	20.86	20.84				
10	16QAM	50	0	20.35	20.53	20.41				
10	64QAM	1	0	20.45	20.68	20.57				
10	64QAM	1	25	20.41	20.52	20.48				
10	64QAM	1	49	20.43	20.52	20.43				
10	64QAM	25	0	21.56	21.75	21.61				
10	64QAM	25	12	21.50	21.48	21.68				
10	64QAM	25	25	21.54	21.57	21.57				
10	64QAM	50	0	21.42	21.52	21.44				
10	256QAM	1	49	18.76	18.80	18.81				
10	256QAM	1	25	18.79	18.82	18.80				
10	256QAM	1	49	18.73	18.70	18.77				
10	256QAM	25	0	18.71	18.81	18.74				
10	256QAM	25	12	18.75	18.81	18.83				
10	256QAM	25	25	18.80	18.65	18.62				
10	256QAM	50	0	18.83	18.87	18.83				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.13	20.10	20.13	24	0		
5	QPSK	1	12	20.89	20.01	20.84				
5	QPSK	1	24	20.91	20.90	20.81				
5	QPSK	12	0	20.85	20.11	20.86				
5	QPSK	12	7	20.79	20.88	20.90				
5	QPSK	12	13	20.76	20.89	20.83				
5	QPSK	25	0	20.84	20.86	20.87				
5	16QAM	1	0	20.72	20.88	20.82				
5	16QAM	1	12	20.80	20.90	20.78				
5	16QAM	1	24	20.75	20.88	20.88				
5	16QAM	12	0	20.47	20.74	20.83				
5	16QAM	12	7	20.37	20.61	20.69				
5	16QAM	12	13	20.43	20.52	20.61				
5	16QAM	25	0	20.37	20.53	20.48				
5	64QAM	1	0	20.48	20.72	20.57				
5	64QAM	1	12	20.45	20.66	20.48				
5	64QAM	1	24	20.39	20.51	20.44				
5	64QAM	12	0	21.63	21.80	21.61				
5	64QAM	12	7	21.51	21.61	21.70				
5	64QAM	12	13	21.58	21.67	21.56				
5	64QAM	25	0	21.51	21.83	21.80				
5	256QAM	1	12	18.76	18.80	18.88				
5	256QAM	1	24	18.77	18.84	18.80				
5	256QAM	1	12	18.71	18.76	18.76				
5	256QAM	12	0	18.72	18.80	18.71				
5	256QAM	12	7	18.71	18.72	18.69				
5	256QAM	12	13	18.69	18.65	18.61				
5	256QAM	25	0	18.82	18.81	18.81				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.03	20.14	20.15	24	0		
3	QPSK	1	8	20.89	20.00	20.85				
3	QPSK	1	14	20.86	20.89	20.75				
3	QPSK	8	0	20.87	20.00	20.03				
3	QPSK	8	4	20.89	20.04	20.85				
3	QPSK	8	7	20.78	20.83	20.83				
3	QPSK	15	0	20.79	20.89	20.88				
3	16QAM	1	0	20.76	20.07	20.84				
3	16QAM	1	8	20.82	20.85	20.87				
3	16QAM	1	14	20.76	20.85	20.82				
3	16QAM	8	0	20.56	20.73	20.63				
3	16QAM	8	4	20.54	20.52	20.49				
3	16QAM	8	24	20.42	20.47	20.52				
3	16QAM	15	0	20.43	20.48	20.51				
3	64QAM	1	0	20.41	20.62	20.46				
3	64QAM	1	14	20.42	20.48	20.38				
3	64QAM	8	0	21.87	21.86	21.89				
3	64QAM	8	4	21.82	21.88	21.70				
3	64QAM	8	7	21.51	21.60	21.49				
3	64QAM	15	0	21.45	21.50	21.48				
3	256QAM	1	0	18.75	18.80	18.84				
3	25									



Band 38 Default Ant 0										
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)										
30	QPSK	1	0	20.97	20.60	20.42	22	0		
30	QPSK	1	49	20.48	20.43	20.48				
30	QPSK	1	99	20.47	20.43	20.48				
30	QPSK	50	0	20.47	20.50	20.33				
30	QPSK	50	24	20.38	20.50	20.42	22	0		
30	QPSK	50	49	20.37	20.50	20.42				
30	QPSK	100	0	20.37	20.52	20.33				
30	HQAM	1	0	20.46	20.57	20.39	22	0		
30	HQAM	1	49	20.36	20.56	20.31				
30	HQAM	1	99	20.29	20.33	20.40				
30	HQAM	50	0	20.08	20.52	20.04	21.5	0.5		
30	HQAM	50	24	20.10	20.50	20.46				
30	HQAM	50	50	19.97	20.03	19.96				
30	HQAM	100	0	19.92	20.01	19.95				
30	HQAM	1	0	20.03	20.25	20.10				
30	HQAM	1	49	19.94	20.04	20.10	21.5	0.5		
30	HQAM	1	99	20.10	20.01	20.00				
30	HQAM	50	0	19.88	20.04	19.95				
30	HQAM	50	24	19.83	19.90	19.89	20.5	1.5		
30	HQAM	50	50	19.82	19.89	19.83				
30	HQAM	100	0	19.85	19.88	19.79				
30	25QAM	1	0	17.91	18.08	17.94				
30	25QAM	1	49	17.82	17.93	17.99	18.5	3.5		
30	25QAM	1	99	17.86	17.86	17.87				
30	25QAM	50	0	17.84	17.89	17.87				
30	25QAM	50	24	17.80	17.95	17.90				
30	25QAM	50	50	17.77	17.87	17.81	18.5	3.5		
30	25QAM	100	0	17.79	17.83	17.84				
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.50	20.60	20.42	22	0		
15	QPSK	1	37	20.29	20.36	20.42				
15	QPSK	1	74	20.40	20.36	20.23				
15	QPSK	36	0	20.30	20.30	20.27				
15	QPSK	36	20	20.24	20.39	20.31	22	0		
15	QPSK	75	0	20.31	20.39	20.28				
15	HQAM	1	0	20.31	20.44	20.29	22	0		
15	HQAM	1	37	20.37	20.37	20.33				
15	HQAM	1	74	20.25	20.23	20.33				
15	HQAM	36	0	19.95	20.20	19.88	21.5	0.5		
15	HQAM	36	20	19.82	19.85	19.85				
15	HQAM	36	39	19.79	19.83	19.83				
15	HQAM	75	0	19.85	19.89	19.86				
15	HQAM	1	0	19.94	20.23	19.89	21.5	0.5		
15	HQAM	1	37	19.77	19.97	20.07				
15	HQAM	1	74	20.01	19.95	19.96				
15	HQAM	36	0	19.77	20.01	19.91	20.5	1.5		
15	HQAM	36	20	19.73	19.88	19.89				
15	HQAM	36	39	19.71	19.83	19.81				
15	HQAM	75	0	19.75	19.85	19.85				
15	25QAM	1	0	17.78	17.87	17.88	18.5	3.5		
15	25QAM	1	37	17.70	17.83	17.81				
15	25QAM	1	74	17.73	17.82	17.72				
15	25QAM	36	0	17.83	18.00	17.82	18.5	3.5		
15	25QAM	36	20	17.86	17.89	17.82				
15	25QAM	36	39	17.84	17.77	17.71				
15	25QAM	75	0	17.79	17.82	17.81				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.51	20.48	20.48	22	0		
10	QPSK	1	25	20.31	20.39	20.41				
10	QPSK	1	49	20.35	20.28	20.34				
10	QPSK	12	0	20.32	20.40	20.36	22	0		
10	QPSK	25	12	20.24	20.46	20.38				
10	QPSK	25	25	20.17	20.25	20.22				
10	HQAM	1	0	20.34	20.42	20.36	22	0		
10	HQAM	1	0	20.32	20.41	20.29				
10	HQAM	1	25	20.22	20.33	20.29				
10	HQAM	1	49	20.16	20.17	20.31				
10	HQAM	25	0	20.04	20.20	19.98	21.5	0.5		
10	HQAM	25	12	20.04	19.95	19.96				
10	HQAM	25	25	19.81	19.86	19.87				
10	HQAM	50	0	19.86	20.04	19.84	21.5	0.5		
10	HQAM	50	0	19.80	20.09	20.01				
10	HQAM	1	0	19.82	20.01	20.01	21.5	0.5		
10	HQAM	1	49	20.06	19.83	20.04				
10	HQAM	25	0	19.81	20.00	19.81	20.5	1.5		
10	HQAM	25	12	19.71	19.85	19.78				
10	HQAM	25	25	19.74	19.71	19.75				
10	HQAM	50	0	19.80	19.83	19.72				
10	25QAM	1	0	17.81	17.83	17.84	18.5	3.5		
10	25QAM	1	49	17.73	17.87	17.86				
10	25QAM	1	99	17.71	17.79	17.76				
10	25QAM	25	0	17.84	17.83	17.84	18.5	3.5		
10	25QAM	25	12	17.80	17.81	17.86				
10	25QAM	25	25	17.69	17.82	17.85				
10	25QAM	50	0	17.85	17.88	17.84				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.56	20.61	20.38	22	0		
5	QPSK	1	12	20.31	20.32	20.37				
5	QPSK	1	24	20.44	20.39	20.33				
5	QPSK	12	0	20.38	20.46	20.38	22	0		
5	QPSK	12	7	20.24	20.42	20.38				
5	QPSK	12	13	20.11	20.29	20.18				
5	HQAM	1	0	20.20	20.29	20.29	22	0		
5	HQAM	1	0	20.31	20.44	20.23				
5	HQAM	1	12	20.28	20.39	20.15	22	0		
5	HQAM	1	24	20.16	20.29	20.20				
5	HQAM	12	0	19.93	20.17	19.96	21.5	0.5		
5	HQAM	12	7	19.97	19.82	20.00				
5	HQAM	12	13	19.77	19.83	19.80				
5	HQAM	25	0	19.82	19.96	19.83	21.5	0.5		
5	HQAM	1	0	19.94	20.12	20.00				
5	HQAM	1	12	19.89	19.86	20.00				
5	HQAM	1	24	19.95	19.91	19.99				
5	HQAM	12	0	19.78	19.87	19.81	20.5	1.5		
5	HQAM	12	7	19.76	19.76	19.76				
5	HQAM	12	13	19.72	19.78	19.71				
5	25QAM	1	0	17.83	18.01	17.80	18.5	3.5		
5	25QAM	1	12	17.74	18.03	17.82				
5	25QAM	1	24	17.74	17.70	17.70				
5	25QAM	12	0	17.70	17.86	17.86	18.5	3.5		
5	25QAM	12	13	17.70	17.81	17.70				
5	25QAM	25	0	17.87	17.89	17.89				

Band 41 FCC&C Default Ant 0										
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)										
20	QPSK	1	0	22.40	22.42	22.41	24	0		
20	QPSK	1	49	22.33	22.54	22.52				
20	QPSK	1	99	22.31	22.41	22.32				
20	QPSK	50	0	22.27	22.18	22.34				
20	QPSK	50	24	22.05	22.15	22.18	23.5	0.5		
20	QPSK	50	49	22.00	22.02	22.10				
20	QPSK	100	0	22.25	22.10	22.30				
20	HQAM	1	0	22.15	22.13	22.28	23.5	0.5		
20	HQAM	1	49	22.04	22.10	22.09				
20	HQAM	1	99	22.02	22.03	22.13				
20	HQAM	50	0	21.90	21.18	21.98	22.5	1.5		
20	HQAM	50	24	21.81	21.08	21.76				
20	HQAM	50	50	21.69	21.08	21.76				
20	HQAM	100	0	21.46	21.31	21.49	22.5	1.5		
20	HQAM	1	0	21.41	21.33	21.49				
20	HQAM	1	49	21.30	21.27	21.37	22.5	1.5		
20	HQAM	1	99							



Band 41 FCC & IC Default Ant 0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	25.60	25.62	25.64	25.66	25.68	25.70	26.00	0
20	QPSK	1	49	25.46	25.53	25.59	25.65	25.70	25.76	26.00	0
20	QPSK	1	99	25.32	25.38	25.44	25.50	25.56	25.62	26.00	0
20	QPSK	50	0	25.42	25.34	25.45	25.21	25.08	25.00	26.00	0
20	QPSK	50	24	25.32	25.43	25.38	25.29	25.20	25.10	26.00	0
20	QPSK	100	0	25.67	25.62	25.57	25.52	25.47	25.42	26.00	0
20	QPSK	100	0	25.32	25.40	25.38	25.28	25.28	25.13	26.00	0
20	HQAM	1	0	25.55	25.46	25.60	25.46	25.48	25.41	26.00	0
20	HQAM	1	49	25.35	25.39	25.45	25.49	25.57	25.60	26.00	0
20	HQAM	1	99	25.30	25.34	25.42	25.44	25.22	25.22	26.00	0
20	HQAM	50	0	24.26	24.15	24.36	24.27	24.10	24.10	26.00	0
20	HQAM	50	24	24.19	24.20	24.30	24.13	24.07	24.07	26.00	0
20	HQAM	100	0	24.11	24.05	24.17	24.11	23.97	23.97	26.00	0
20	HQAM	100	0	24.25	24.21	24.30	24.15	24.07	24.07	26.00	0
20	HQAM	1	0	24.18	24.15	24.23	24.10	24.10	24.10	26.00	0
20	HQAM	1	49	24.02	24.11	24.10	24.10	23.96	23.96	26.00	0
20	HQAM	1	99	24.06	24.03	24.14	24.03	23.96	23.96	26.00	0
20	HQAM	50	0	23.28	23.22	23.38	23.20	23.14	23.14	26.00	0
20	HQAM	50	24	23.15	23.14	23.27	23.19	23.03	23.03	26.00	0
20	HQAM	100	0	23.14	23.10	23.21	23.15	23.06	23.06	26.00	0
20	HQAM	100	0	23.11	23.17	23.23	23.22	23.02	23.02	26.00	0
20	SSBAM	1	0	21.51	21.42	21.55	21.46	21.20	21.20	22.4	4
20	SSBAM	1	49	21.54	21.49	21.55	21.45	21.30	21.30	22.4	4
20	SSBAM	1	99	21.24	21.37	21.38	21.38	21.28	21.28	22.4	4
20	SSBAM	50	0	21.36	21.21	21.24	21.24	21.04	21.04	22.4	4
20	SSBAM	50	24	21.22	21.16	21.29	21.24	21.04	21.04	22.4	4
20	SSBAM	100	0	21.14	21.12	21.21	21.20	21.05	21.05	22.4	4
20	SSBAM	100	0	21.32	21.29	21.38	21.38	21.16	21.16	22.4	4
Channel											
Frequency (MHz)											
15	QPSK	1	0	25.52	25.47	25.50	25.53	25.52	25.52	26.00	0
15	QPSK	1	37	25.39	25.12	25.50	25.28	25.20	25.20	26.00	0
15	QPSK	1	74	25.13	25.30	25.35	25.24	25.21	25.21	26.00	0
15	QPSK	38	0	25.39	25.21	25.31	25.10	24.91	24.91	26.00	0
15	QPSK	38	20	25.20	25.08	25.34	25.19	24.95	24.95	26.00	0
15	QPSK	75	0	24.43	24.33	24.39	24.24	24.04	24.04	26.00	0
15	QPSK	75	0	25.24	25.15	25.23	25.15	25.00	25.00	26.00	0
15	HQAM	1	0	25.43	25.36	25.51	25.38	25.36	25.36	26.00	0
15	HQAM	1	37	25.35	25.30	25.35	25.24	25.20	25.20	26.00	0
15	HQAM	1	74	25.16	25.21	25.28	25.28	25.10	25.10	26.00	0
15	HQAM	38	0	24.22	24.02	24.24	24.16	23.97	23.97	26.00	0
15	HQAM	38	20	24.05	24.05	24.15	24.05	23.86	23.86	26.00	0
15	HQAM	75	0	24.08	23.99	24.08	24.06	23.86	23.86	26.00	0
15	HQAM	75	0	24.19	24.08	24.27	24.04	24.02	24.02	26.00	0
15	HQAM	1	0	24.04	24.10	24.16	24.16	23.99	23.99	26.00	0
15	HQAM	1	37	23.89	24.04	23.97	23.96	23.88	23.88	26.00	0
15	HQAM	1	74	24.03	23.89	24.10	23.94	23.92	23.92	26.00	0
15	HQAM	38	0	23.18	23.18	23.25	23.05	23.05	23.05	26.00	0
15	HQAM	38	20	23.05	23.09	23.22	23.15	22.97	22.97	26.00	0
15	HQAM	75	0	23.21	23.21	23.21	23.15	22.92	22.92	26.00	0
15	SSBAM	1	0	21.43	21.39	21.51	21.39	21.20	21.20	22.4	4
15	SSBAM	1	37	21.47	21.47	21.57	21.47	21.28	21.28	22.4	4
15	SSBAM	1	74	21.20	21.26	21.32	21.23	21.10	21.10	22.4	4
15	SSBAM	38	0	21.24	21.17	21.34	21.25	21.11	21.11	22.4	4
15	SSBAM	38	20	21.08	21.12	21.24	21.15	20.99	20.99	22.4	4
15	SSBAM	75	0	21.10	21.08	21.07	21.09	20.98	20.98	22.4	4
15	SSBAM	75	0	21.21	21.12	21.21	21.16	21.07	21.07	22.4	4
Channel											
Frequency (MHz)											
10	QPSK	1	0	25.64	25.64	25.64	25.64	25.64	25.64	26.00	0
10	QPSK	1	25	25.55	25.11	25.51	25.34	25.28	25.28	26.00	0
10	QPSK	1	49	25.06	25.30	25.30	25.31	25.16	25.16	26.00	0
10	QPSK	25	0	25.34	25.28	25.28	25.18	25.03	25.03	26.00	0
10	QPSK	25	12	25.28	25.05	25.22	25.14	25.03	25.03	26.00	0
10	QPSK	25	25	24.92	25.06	25.09	25.14	24.97	24.97	26.00	0
10	HQAM	1	0	25.30	25.30	25.30	25.24	25.06	25.06	26.00	0
10	HQAM	1	0	25.47	25.40	25.60	25.41	25.36	25.36	26.00	0
10	HQAM	1	25	25.20	25.34	25.40	25.38	25.21	25.21	26.00	0
10	HQAM	1	49	25.21	25.21	25.29	25.36	25.17	25.17	26.00	0
10	HQAM	25	0	24.23	24.09	24.31	24.12	24.03	24.03	26.00	0
10	HQAM	25	12	24.02	24.16	24.22	24.06	23.91	23.91	26.00	0
10	HQAM	25	25	24.04	23.96	24.14	24.04	23.85	23.85	26.00	0
10	HQAM	50	0	24.18	24.14	24.28	24.08	24.13	24.13	26.00	0
10	HQAM	50	0	24.09	24.09	24.20	24.06	23.97	23.97	26.00	0
10	HQAM	1	0	23.94	23.98	24.02	23.92	23.86	23.86	26.00	0
10	HQAM	25	0	23.21	23.08	23.20	23.15	23.03	23.03	26.00	0
10	HQAM	25	12	23.05	23.10	23.24	23.09	22.89	22.89	26.00	0
10	HQAM	25	25	23.02	22.87	23.20	23.08	22.96	22.96	26.00	0
10	HQAM	50	0	22.97	23.07	23.10	23.19	22.98	22.98	26.00	0
10	SSBAM	1	0	21.47	21.39	21.54	21.36	21.18	21.18	22.4	4
10	SSBAM	1	25	21.51	21.26	21.47	21.39	21.25	21.25	22.4	4
10	SSBAM	1	49	21.14	21.20	21.25	21.30	21.22	21.22	22.4	4
10	SSBAM	25	0	21.28	21.21	21.30	21.32	21.20	21.20	22.4	4
10	SSBAM	25	12	21.00	21.04	21.20	21.17	20.94	20.94	22.4	4
10	SSBAM	25	25	20.99	21.07	21.13	21.15	20.98	20.98	22.4	4
10	SSBAM	50	0	21.28	21.16	21.27	21.11	21.02	21.02	22.4	4
Channel											
Frequency (MHz)											
5	QPSK	1	0	25.51	25.43	25.45	25.38	25.40	25.40	26.00	0
5	QPSK	1	12	25.43	25.07	25.45	25.33	25.31	25.31	26.00	0
5	QPSK	1	24	25.15	25.24	25.30	25.21	25.25	25.25	26.00	0
5	QPSK	12	0	25.39	25.42	25.47	25.39	25.31	25.31	26.00	0
5	QPSK	12	7	25.24	25.15	25.30	25.12	25.03	25.03	26.00	0
5	QPSK	12	13	24.93	25.06	25.02	25.17	25.05	25.05	26.00	0
5	QPSK	25	0	25.21	25.05	25.29	25.22	25.09	25.09	26.00	0
5	HQAM	1	0	25.47	25.42	25.52	25.38	25.27	25.27	26.00	0
5	HQAM	1	12	25.29	25.29	25.33	25.35	25.24	25.24	26.00	0
5	HQAM	1	24	25.10	25.21	25.26	25.24	25.16	25.16	26.00	0
5	HQAM	12	0	24.20	24.02	24.31	24.20	24.02	24.02	26.00	0
5	HQAM	12	7	24.15	24.14	24.19	24.06	23.97	23.97	26.00	0
5	HQAM	12	13	24.06	23.98	24.03	24.07	23.89	23.89	26.00	0
5	HQAM	25	0	24.12	24.15	24.20	24.06	24.07	24.07	26.00	0
5	HQAM	25	0	24.07	24.10	24.21	24.09	24.00	24.00	26.00	0
5	HQAM	1	12	23.91	23.97	24.02	24.07	23.92	23.92	26.00	0
5	H										



Band 12 Default Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int. (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.81	21.73	21.68				
10	QPSK	1	25	21.90	21.80	21.52				
10	QPSK	1	49	21.47	21.49	21.92		23	0	
10	QPSK	25	0	21.60	21.70	21.55				
10	QPSK	25	12	21.65	21.63	21.63				
10	QPSK	25	25	21.46	21.48	21.46		23	0	
10	QPSK	50	0	21.51	21.57	21.45				
10	QPSK	50	12	21.55	21.50	21.51				
10	16QAM	1	25	21.40	21.48	21.36		23	0	
10	16QAM	1	49	21.35	21.46	21.44				
10	16QAM	25	0	21.39	21.50	21.49				
10	16QAM	25	12	21.34	21.40	21.40		22.5	0.5	
10	16QAM	25	25	21.38	21.39	21.41				
10	16QAM	50	0	21.52	21.56	21.40				
10	16QAM	1	0	21.34	21.50	21.36		22.5	0.5	
10	8QAM	1	25	21.26	21.26	21.52		22.5	0.5	
10	8QAM	1	49	21.24	21.38	21.28				
10	8QAM	25	0	20.49	20.53	20.43				
10	8QAM	25	12	20.57	20.43	20.31		21.5	1.5	
10	8QAM	25	25	20.33	20.34	20.33				
10	8QAM	50	0	20.25	20.27	20.31				
10	256QAM	1	25	18.44	18.42	18.36		19.5	3.5	
10	256QAM	1	49	18.41	18.37	18.33				
10	256QAM	25	0	18.26	18.26	18.36		19.5	3.5	
10	256QAM	25	12	18.26	18.37	18.36				
10	256QAM	25	25	18.24	18.32	18.32				
10	256QAM	50	0	18.33	18.42	18.30				
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.56	21.63	21.54				
5	QPSK	1	25	21.37	21.60	21.43				
5	QPSK	1	24	21.33	21.44	21.40		23	0	
5	QPSK	12	0	21.51	21.56	21.44				
5	QPSK	12	7	21.49	21.49	21.39				
5	QPSK	12	13	21.32	21.39	21.41		23	0	
5	QPSK	25	0	21.40	21.46	21.45				
5	16QAM	1	25	21.48	21.48	21.40		23	0	
5	16QAM	1	49	21.36	21.37	21.23				
5	16QAM	12	0	21.31	21.48	21.41				
5	16QAM	12	7	21.23	21.39	21.27		22.5	0.5	
5	16QAM	12	13	21.27	21.32	21.36				
5	16QAM	25	0	21.26	21.43	21.34				
5	8QAM	1	0	21.20	21.36	21.22		22.5	0.5	
5	8QAM	1	24	21.15	21.27	21.17				
5	8QAM	12	0	20.31	20.41	20.36		21.5	1.5	
5	8QAM	12	7	20.33	20.34	20.16				
5	8QAM	12	13	20.17	20.20	20.15				
5	8QAM	25	0	20.15	20.22	20.24				
5	256QAM	1	0	18.36	18.32	18.36		19.5	3.5	
5	256QAM	1	12	18.31	18.50	18.45				
5	256QAM	1	24	18.28	18.31	18.25				
5	256QAM	12	0	18.26	18.26	18.34		19.5	3.5	
5	256QAM	12	7	18.17	18.24	18.23				
5	256QAM	12	13	18.20	18.23	18.23				
5	256QAM	25	0	18.23	18.42	18.17				
Channel										
Frequency (MHz)										
3	QPSK	1	0	21.62	21.63	21.55				
3	QPSK	1	25	21.32	21.54	21.37				
3	QPSK	1	14	21.42	21.43	21.38		23	0	
3	QPSK	3	0	21.55	21.60	21.48				
3	QPSK	3	7	21.48	21.52	21.39				
3	QPSK	3	14	21.32	21.40	21.38		23	0	
3	QPSK	25	0	21.52	21.57	21.36				
3	16QAM	1	0	21.47	21.57	21.37				
3	16QAM	1	8	21.30	21.41	21.33		23	0	
3	16QAM	1	16	21.22	21.43	21.36				
3	16QAM	8	0	21.26	21.49	21.41				
3	16QAM	8	4	21.21	21.38	21.30		22.5	0.5	
3	16QAM	8	7	21.28	21.33	21.27				
3	8QAM	1	0	21.22	21.47	21.39		22.5	0.5	
3	8QAM	1	8	21.12	21.28	21.18				
3	8QAM	1	14	21.12	21.23	21.16				
3	8QAM	8	0	20.37	20.43	20.39		21.5	1.5	
3	8QAM	8	4	20.33	20.28	20.25				
3	8QAM	8	7	20.16	20.19	20.27				
3	256QAM	1	0	18.30	18.23	18.36		19.5	3.5	
3	256QAM	1	8	18.27	18.49	18.43				
3	256QAM	1	14	18.28	18.33	18.26				
3	256QAM	8	0	18.28	18.40	18.31		19.5	3.5	
3	256QAM	8	4	18.18	18.26	18.30				
3	256QAM	8	7	18.20	18.19	18.29				
3	256QAM	15	0	18.23	18.38	18.17				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	21.62	21.63	21.55				
1.4	QPSK	1	3	21.35	21.50	21.40				
1.4	QPSK	1	5	21.40	21.44	21.45		23	0	
1.4	QPSK	3	0	21.57	21.61	21.40				
1.4	QPSK	3	1	21.48	21.50	21.39				
1.4	QPSK	3	3	21.35	21.39	21.38		23	0	
1.4	16QAM	1	0	21.30	21.50	21.39				
1.4	16QAM	1	3	21.34	21.40	21.33				
1.4	16QAM	6	0	21.26	21.43	21.40		23	0	
1.4	16QAM	3	0	21.28	21.48	21.39				
1.4	16QAM	3	1	21.26	21.44	21.28				
1.4	16QAM	3	3	21.23	21.37	21.36				
1.4	8QAM	1	0	21.21	21.48	21.34		22.5	0.5	
1.4	8QAM	1	3	21.28	21.41	21.27				
1.4	8QAM	1	5	21.13	21.21	21.19				
1.4	8QAM	3	0	21.23	21.36	21.32		22.5	0.5	
1.4	8QAM	3	1	21.23	21.23	21.20				
1.4	8QAM	3	3	21.10	21.22	21.17				
1.4	8QAM	8	0	20.39	20.41	20.29		21.5	1.5	
1.4	256QAM	1	0	18.37	18.40	18.44		19.5	3.5	
1.4	256QAM	1	3	18.33	18.50	18.44				
1.4	256QAM	3	0	18.29	18.26	18.24				
1.4	256QAM	3	1	18.27	18.30	18.30				
1.4	256QAM	3	1	18.14	18.20	18.24				
1.4	256QAM	8	0	18.19	18.24	18.22		19.5	3.5	
1.4	256QAM	8	1	18.21	18.30	18.19				

Band 13 Default Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int. (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.67	21.67	21.67				
10	QPSK	1	25	21.48	21.47	21.47		23	0	
10	QPSK	1	49	21.50	21.50	21.50				
10	QPSK	25	0	21.63	21.63	21.63				
10	QPSK	25	12	21.52	21.52	21.52		23	0	
10	QPSK	25	25	21.39	21.39	21.39				
10	QPSK	50	0	21.50	21.50	21.50				
10	QPSK	50	12	21.51	21.51	21.51				
10	16QAM	1	25	21.45	21.45	21.45		23	0	
10	16QAM	1	49	21.45	21.45	21.45				
10	16QAM	25	0	21.47	21.47	21.47		22.5	0.5	
10	16QAM	25	12	21.42	21.42	21.42				
10	16QAM	25	25	21.40	21.40	21.40				
10	16QAM	50	0	21.50	21.50	21.50				
10	8QAM	1	0	21.19	21.19	21.19		22.5	0.5	
10	8QAM	1	25	21.04	21.04	21.04		22.5	0.5	
10	8QAM	1	49	21.02	21.02	21.02				
10	8QAM	25	0	20.21	20.21	20.21				
10	8QAM	25	12	20.12	20.12	20.12		21.5	1.5	
10	8QAM	25	25	20.14	20.14	20				



Band 25 Default Ant 1										
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MPE (dB)		
Channel										
1800 1800 1800										
20	QPSK	1	0	21.00	21.11	21.06				
20	QPSK	1	48	20.83	20.94	20.89			22	0
20	QPSK	1	96	20.67	20.78	20.73				
20	QPSK	50	0	20.92	21.03	20.98				
20	QPSK	50	24	20.84	20.95	20.90				
20	QPSK	50	50	20.76	20.87	20.82			22	0
20	QPSK	100	0	20.89	21.00	20.94				
20	16QAM	50	0	20.87	20.98	20.93				
20	16QAM	1	48	20.83	20.94	20.89			22	0
20	16QAM	1	96	20.76	20.87	20.82				
20	16QAM	50	24	20.77	20.88	20.83				
20	16QAM	50	50	20.74	20.79	20.75			22	0
20	16QAM	100	0	20.82	20.93	20.88				
20	64QAM	1	0	20.88	21.09	20.97				
20	64QAM	1	48	20.92	21.07	21.01			22	0
20	64QAM	1	96	20.88	21.01	20.99				
20	64QAM	50	0	20.89	21.01	20.99				
20	64QAM	50	24	20.81	20.99	20.94				
20	64QAM	50	50	20.76	20.98	20.74			22	0
20	256QAM	1	0	20.86	20.97	20.91				
20	256QAM	1	48	17.82	17.87	17.88			19	3
20	256QAM	1	96	17.77	17.84	17.77				
20	256QAM	50	24	17.80	17.85	17.84			19	3
20	256QAM	50	50	17.71	17.82	17.78				
20	256QAM	100	0	17.82	17.83	17.82				
Channel										
1825 1825 1825										
15	QPSK	1	0	20.89	21.07	20.98				
15	QPSK	1	32	20.76	20.91	20.83			22	0
15	QPSK	1	74	20.75	20.84	20.78				
15	QPSK	36	0	20.83	20.94	20.91				
15	QPSK	36	20	20.80	20.91	20.91				
15	QPSK	36	39	20.82	20.79	20.74			22	0
15	QPSK	75	0	20.82	20.98	20.88				
15	16QAM	1	0	20.80	20.98	20.88				
15	16QAM	1	32	20.77	20.83	20.79			22	0
15	16QAM	1	74	20.80	20.89	20.84				
15	16QAM	36	0	20.91	20.96	20.91				
15	16QAM	36	20	20.71	20.86	20.74			22	0
15	16QAM	36	39	20.87	20.88	20.82				
15	16QAM	75	0	20.78	20.91	20.81				
15	64QAM	1	0	20.83	21.06	20.88				
15	64QAM	1	32	20.88	20.98	20.97			22	0
15	64QAM	1	74	20.74	20.85	20.75				
15	64QAM	36	0	20.76	20.86	20.75				
15	64QAM	36	20	20.76	20.86	20.78				
15	64QAM	36	39	20.62	20.63	20.60			22	0
15	64QAM	75	0	20.77	20.81	20.88				
15	256QAM	1	0	17.86	17.87	17.86				
15	256QAM	1	32	17.88	17.83	17.79			19	3
15	256QAM	1	74	17.83	17.71	17.73				
15	256QAM	36	0	17.86	17.81	17.86				
15	256QAM	36	20	17.69	17.78	17.77			19	3
15	256QAM	36	39	17.86	17.78	17.67				
15	256QAM	75	0	17.82	17.86	17.80			19	3
Channel										
2600 2600 2600										
10	QPSK	1	0	20.88	21.00	20.94				
10	QPSK	1	25	20.78	20.93	20.89			22	0
10	QPSK	1	49	20.78	20.80	20.73				
10	QPSK	12	0	20.88	20.97	20.91				
10	QPSK	25	12	20.77	20.77	20.76				
10	QPSK	25	25	20.63	20.78	20.73			22	0
10	QPSK	50	0	20.79	20.88	20.82				
10	16QAM	1	0	20.80	20.97	20.82				
10	16QAM	1	24	20.74	20.78	20.79			22	0
10	16QAM	1	49	20.76	20.86	20.81				
10	16QAM	25	0	20.77	20.91	20.75				
10	16QAM	25	12	20.68	20.88	20.74			22	0
10	16QAM	25	25	20.67	20.84	20.82				
10	16QAM	50	0	20.76	20.81	20.85				
10	64QAM	1	0	20.89	21.00	20.93				
10	64QAM	1	24	20.77	20.85	20.77			22	0
10	64QAM	1	49	20.84	20.80	20.85				
10	64QAM	25	0	20.79	20.88	20.74				
10	64QAM	25	12	20.68	20.87	20.87				
10	64QAM	25	25	20.65	20.66	20.62			22	0
10	64QAM	50	0	20.71	20.91	20.81				
10	256QAM	1	0	17.82	17.87	17.87				
10	256QAM	1	24	17.88	17.99	17.74			19	3
10	256QAM	1	49	17.71	17.75	17.62				
10	256QAM	25	0	17.80	17.85	17.85				
10	256QAM	25	12	17.74	17.71	17.77			19	3
10	256QAM	25	25	17.64	17.74	17.74				
10	256QAM	50	0	17.82	17.86	17.79			19	3
Channel										
2650 2650 2650										
5	QPSK	1	0	20.88	21.00	20.94				
5	QPSK	1	12	20.80	20.84	20.89			22	0
5	QPSK	1	24	20.69	20.81	20.89				
5	QPSK	12	0	20.78	20.82	20.82				
5	QPSK	12	7	20.73	20.83	20.74			22	0
5	QPSK	12	13	20.64	20.80	20.74				
5	QPSK	25	0	20.84	20.98	20.90				
5	16QAM	1	0	20.73	20.92	20.82				
5	16QAM	1	12	20.73	20.81	20.75			22	0
5	16QAM	1	24	20.68	20.74	20.78				
5	16QAM	12	0	20.77	20.90	20.86				
5	16QAM	12	7	20.72	20.78	20.72			22	0
5	16QAM	12	13	20.64	20.74	20.87				
5	16QAM	25	0	20.69	20.84	20.83				
5	64QAM	1	0	20.85	21.04	20.91				
5	64QAM	1	12	20.85	20.88	20.81			22	0
5	64QAM	1	24	20.77	20.79	20.89				
5	64QAM	12	0	20.75	20.92	20.84				
5	64QAM	12	7	20.77	20.74	20.79				
5	64QAM	12	13	20.59	20.68	20.83			22	0
5	64QAM	25	0	20.74	20.84	20.86				
5	256QAM	1	0	17.77	18.09	17.77				
5	256QAM	1	12	17.81	18.02	17.74			19	3
5	256QAM	1	24	17.73	17.79	17.69				
5	256QAM	12	0	17.76	17.81	17.75				
5	256QAM	12	7	17.70	17.71	17.74			19	3
5	256QAM	12	13	17.62	17.70	17.74				
5	256QAM	25	0	17.83	18.04	17.83			19	3
Channel										
2655 2655 2655										
3	QPSK	1	0	20.95	20.99	20.93				
3	QPSK	1	8	20.75	20.83	20.87			22	0
3	QPSK	1	14	20.71	20.87	20.79				
3	QPSK	8	0	20.81	21.02	20.91				
3	QPSK	8	4	20.73	20.83	20.76			22	0
3	QPSK	8	7	20.69	20.79	20.71				
3	QPSK	15	0	20.81	20.84	20.83				
3	16QAM	1	0	20.81	20.99	20.86				
3	16QAM	1	8	20.78	20.84	20.85			22	0
3	16QAM	1	14	20.65	20.79	20.72				
3	16QAM	8	0	20.76	20.86	20.79				
3	16QAM	8	4	20.67	20.84	20.72			22	0
3	16QAM	15	0	20.90	20.96	20.91				
3	16QAM	15	0	20.74	20.88	20.83				
3	64QAM	1	0	20.84	21.00	20.87				
3	64QAM	1	8	20.86	20.93	20.78			22	0
3	64QAM	1	14	20.81	20.79	20.89				
3	64QAM	8	0	20.75	20.84					



Band 66 Default Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power Hgh Ch./Freq.	Turn-up (min)	APR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.03	21.12	20.97				
20	QPSK	1	49	20.91	21.00	20.85	22	0		
20	QPSK	1	99	20.86	20.90	20.79				
20	QPSK	50	0	20.87	21.07	20.96				
20	QPSK	50	24	20.83	20.98	20.84				
20	QPSK	50	50	20.80	20.87	20.88				
20	QPSK	100	0	20.84	20.95	20.82				
20	16QAM	1	0	20.90	20.92	20.87				
20	16QAM	1	49	20.74	20.80	20.80	22	0		
20	16QAM	1	99	20.78	20.82	20.73				
20	16QAM	50	0	20.71	20.97	20.79				
20	16QAM	50	24	20.84	20.80	20.85				
20	16QAM	50	50	20.83	20.80	20.80				
20	16QAM	100	0	20.83	20.80	20.80				
20	64QAM	1	0	20.81	20.92	20.74				
20	64QAM	1	49	20.75	20.86	20.77	22	0		
20	64QAM	1	99	20.85	20.80	20.80				
20	64QAM	50	0	20.81	20.79	20.69				
20	64QAM	50	24	20.59	20.70	20.56				
20	64QAM	50	50	20.56	20.60	20.49				
20	64QAM	100	0	20.74	20.83	20.82	22	0		
20	256QAM	1	49	17.67	17.69	17.61				
20	256QAM	1	99	17.93	17.91	17.95	19	3		
20	256QAM	1	99	17.79	17.80	17.85				
20	256QAM	50	24	17.60	17.75	17.83				
20	256QAM	50	24	17.60	17.58	17.52				
20	256QAM	50	50	17.47	17.58	17.47	19	3		
20	256QAM	100	0	17.73	17.50	17.40				
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.92	21.07	20.92				
15	QPSK	1	39	20.78	20.90	20.79	22	0		
15	QPSK	1	74	20.77	20.70	20.71				
15	QPSK	36	0	20.78	21.01	20.83				
15	QPSK	36	20	20.75	20.70	20.70				
15	QPSK	36	39	20.87	20.83	20.79	22	0		
15	QPSK	75	0	20.74	20.82	20.74				
15	16QAM	1	0	20.81	20.83	20.75				
15	16QAM	1	37	20.73	20.83	20.77	22	0		
15	16QAM	1	74	20.69	20.80	20.81				
15	16QAM	36	0	20.99	20.74	20.84				
15	16QAM	36	20	20.54	20.54	20.51				
15	16QAM	75	0	20.75	20.80	20.70	22	0		
15	64QAM	1	0	20.71	20.80	20.69				
15	64QAM	1	37	20.61	20.69	20.68	22	0		
15	64QAM	1	74	20.54	20.55	20.55				
15	64QAM	36	0	20.56	20.70	20.62				
15	64QAM	36	20	20.53	20.40	20.48				
15	64QAM	36	39	20.48	20.52	20.39	22	0		
15	64QAM	75	0	20.87	20.80	20.88				
15	256QAM	1	49	17.76	17.80	17.81				
15	256QAM	1	37	17.78	17.80	17.83	19	3		
15	256QAM	1	74	17.85	17.85	17.81				
15	256QAM	36	0	18.46	18.30	18.30				
15	256QAM	36	20	17.47	17.50	17.41				
15	256QAM	36	39	17.37	17.50	17.33	19	3		
15	256QAM	75	0	17.44	17.81	17.74				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.92	21.07	20.92				
10	QPSK	1	25	20.83	20.80	20.71	22	0		
10	QPSK	1	49	20.82	20.78	20.72				
10	QPSK	25	0	20.78	20.90	20.80				
10	QPSK	25	12	20.68	20.78	20.79				
10	QPSK	25	25	20.76	20.81	20.74	22	0		
10	16QAM	1	0	20.81	20.83	20.74				
10	16QAM	1	25	20.66	20.75	20.74	22	0		
10	16QAM	1	49	20.73	20.80	20.84				
10	16QAM	25	0	20.58	20.81	20.65				
10	16QAM	25	12	20.54	20.58	20.60	22	0		
10	16QAM	25	25	20.56	20.50	20.48				
10	16QAM	50	0	20.80	20.82	20.68				
10	64QAM	1	0	20.72	20.86	20.71	22	0		
10	64QAM	1	25	20.81	20.72	20.64				
10	64QAM	1	49	20.51	20.55	20.58				
10	64QAM	25	0	20.47	20.71	20.57				
10	64QAM	25	12	20.48	20.40	20.43	22	0		
10	64QAM	25	25	20.47	20.40	20.45				
10	64QAM	50	0	20.87	20.70	20.75				
10	256QAM	1	49	17.86	17.82	17.82				
10	256QAM	1	25	17.88	17.86	17.87	19	3		
10	256QAM	1	49	17.85	17.78	17.79				
10	256QAM	25	0	18.53	17.82	17.80				
10	256QAM	25	12	17.87	17.82	17.85	19	3		
10	256QAM	25	25	17.96	17.46	17.43				
10	256QAM	50	0	17.62	17.82	17.78				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.92	21.07	20.92				
5	QPSK	1	12	20.85	20.82	20.70	22	0		
5	QPSK	1	24	20.80	20.82	20.68				
5	QPSK	12	0	20.75	20.80	20.65				
5	QPSK	12	7	20.76	20.70	20.71	22	0		
5	QPSK	12	13	20.87	20.80	20.79				
5	QPSK	25	0	20.73	20.80	20.67				
5	16QAM	1	0	20.81	20.80	20.76				
5	16QAM	1	12	20.64	20.73	20.75	22	0		
5	16QAM	1	24	20.75	20.72	20.60				
5	16QAM	12	0	20.67	20.72	20.84				
5	16QAM	12	7	20.58	20.57	20.60	22	0		
5	16QAM	12	13	20.50	20.50	20.54				
5	16QAM	25	0	20.76	20.88	20.89				
5	64QAM	1	0	20.70	20.83	20.66	22	0		
5	64QAM	1	12	20.65	20.77	20.64				
5	64QAM	1	24	20.82	20.54	20.61				
5	64QAM	12	0	20.53	20.67	20.60	22	0		
5	64QAM	12	7	20.48	20.50	20.49				
5	64QAM	12	13	20.50	20.53	20.39				
5	64QAM	25	0	20.70	20.77	20.70				
5	256QAM	1	0	17.82	18.00	17.89				
5	256QAM	1	12	17.80	17.98	17.82	19	3		
5	256QAM	1	24	17.70	17.76	17.71				
5	256QAM	12	0	18.55	17.82	17.80				
5	256QAM	12	7	17.84	17.80	17.82	19	3		
5	256QAM	12	13	17.99	17.50	17.44				
5	256QAM	25	0	17.44	17.78	17.75				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.91	21.08	20.93				
3	QPSK	1	8	20.85	20.86	20.74	22	0		
3	QPSK	1	14	20.75	20.85	20.66				
3	QPSK	8	0	20.73	20.80	20.68				
3	QPSK	8	4	20.74	20.80	20.80	22	0		
3	QPSK	8	7	20.69	20.82	20.85				
3	QPSK	15	0	20.72	20.84	20.78				
3	16QAM	1	0	20.87	20.82	20.80				
3	16QAM	1	8	20.83	20.77	20.73	22	0		
3	16QAM	1	14	20.70	20.68	20.67				
3	16QAM	8	0	20.80	20.83	20.74				
3	16QAM	8	4	20.55	20.53	20.58	22	0		
3	16QAM	8	7	20.55	20.61	20.50				
3	64QAM	1	0	20.69	20.82	20.64				
3	64QAM	1	8	20.84	20.72	20.64	22	0		
3	64QAM	1	14	20.51	20.57	20.59				
3	64QAM	8	0	20.49	20.80	20.69				
3	64QAM	8	4	20.45						



Band 38 Default Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.41	22.53	22.59	23	0	
20	QPSK	1	49	22.32	22.35	22.39	23	0	
20	QPSK	50	0	22.29	22.39	22.39	23	0	
20	QPSK	50	24	22.24	22.36	22.32	23	0	
20	QPSK	100	0	22.26	22.45	22.33	23	0	
20	16QAM	1	0	22.35	22.51	22.39	23	0	
20	16QAM	1	49	22.31	22.35	22.38	23	0	
20	16QAM	1	99	22.27	22.30	22.24	23	0	
20	16QAM	50	0	21.97	22.14	21.95	22.5	0	
20	16QAM	50	24	21.91	21.95	21.93	22.5	0	
20	16QAM	50	50	21.88	21.92	21.89	22.5	0	
20	16QAM	100	0	21.99	22.09	21.96	22.5	0	
20	16QAM	1	49	22.28	22.36	22.28	23	0	
20	16QAM	1	99	22.16	22.24	22.22	23	0	
20	16QAM	50	24	21.89	22.03	21.90	22.5	0.5	
20	16QAM	50	50	21.90	21.94	21.85	22.5	0.5	
20	16QAM	100	0	21.91	22.05	21.96	22.5	0.5	
20	25QAM	1	0	18.83	18.90	18.85	20.5	2.5	
20	25QAM	1	49	18.79	18.90	18.78	20.5	2.5	
20	25QAM	1	99	18.76	18.77	18.78	20.5	2.5	
20	25QAM	50	0	18.96	18.97	18.97	20.5	2.5	
20	25QAM	50	24	18.97	18.95	18.96	20.5	2.5	
20	25QAM	50	50	18.89	18.85	18.84	20.5	2.5	
20	25QAM	100	0	18.90	18.91	18.88	20.5	2.5	
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.17	22.09	22.12	23	0	
15	QPSK	1	37	22.18	22.23	22.20	23	0	
15	QPSK	1	74	22.12	22.20	22.21	23	0	
15	QPSK	36	0	22.12	22.33	22.34	23	0	
15	QPSK	36	20	22.14	22.22	22.19	23	0	
15	QPSK	75	0	22.11	22.16	22.16	23	0	
15	QPSK	75	0	22.18	22.28	22.23	23	0	
15	16QAM	1	0	22.26	22.39	22.27	23	0	
15	16QAM	1	37	22.21	22.24	22.25	23	0	
15	16QAM	1	74	22.15	22.25	22.15	23	0	
15	16QAM	36	0	21.94	22.08	21.82	23	0	
15	16QAM	36	20	21.92	21.84	21.86	23	0	
15	16QAM	36	59	21.78	21.84	21.86	23	0	
15	16QAM	75	0	21.81	22.08	21.94	23	0	
15	16QAM	75	0	22.10	22.37	22.26	23	0	
15	16QAM	1	37	22.17	22.28	22.23	23	0	
15	16QAM	1	74	22.06	22.11	22.15	23	0	
15	16QAM	36	0	21.85	21.96	21.87	22.5	0.5	
15	16QAM	36	20	21.83	21.92	21.78	22.5	0.5	
15	16QAM	36	59	21.68	21.82	21.86	22.5	0.5	
15	16QAM	75	0	21.82	21.91	21.85	22.5	0.5	
15	25QAM	1	0	18.77	18.90	18.81	20.5	2.5	
15	25QAM	1	37	18.79	18.91	18.79	20.5	2.5	
15	25QAM	1	74	18.87	18.74	18.74	20.5	2.5	
15	25QAM	36	0	18.86	18.91	18.92	20.5	2.5	
15	25QAM	36	20	18.92	18.94	18.92	20.5	2.5	
15	25QAM	36	59	18.85	18.88	18.84	20.5	2.5	
15	25QAM	75	0	18.89	18.90	18.89	20.5	2.5	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.28	22.47	22.47	23	0	
10	QPSK	1	25	22.23	22.30	22.27	23	0	
10	QPSK	1	49	22.19	22.21	22.25	23	0	
10	QPSK	12	0	22.29	22.36	22.27	23	0	
10	QPSK	25	12	22.21	22.29	22.25	23	0	
10	QPSK	25	25	22.14	22.20	22.22	23	0	
10	16QAM	1	0	22.14	22.37	22.28	23	0	
10	16QAM	1	0	22.25	22.38	22.31	23	0	
10	16QAM	1	25	22.27	22.23	22.18	23	0	
10	16QAM	1	49	22.15	22.16	22.12	23	0	
10	16QAM	25	0	21.85	22.03	21.80	22.5	0	
10	16QAM	25	12	21.87	21.81	21.86	22.5	0	
10	16QAM	25	25	21.78	21.85	21.77	22.5	0	
10	16QAM	50	0	21.87	22.00	21.86	22.5	0	
10	16QAM	1	0	22.08	22.33	22.27	23	0	
10	16QAM	1	0	21.75	21.80	21.78	22.5	0	
10	16QAM	1	25	21.59	21.59	21.72	21.49	21.80	
10	16QAM	1	49	21.52	21.49	21.62	21.57	21.47	
10	16QAM	25	0	20.58	20.65	20.76	20.55	20.39	
10	16QAM	25	12	20.42	20.58	20.52	20.46	20.30	
10	16QAM	25	25	20.39	20.42	20.83	20.45	20.46	
10	16QAM	50	0	20.69	20.52	20.87	20.57	20.47	
10	25QAM	1	0	18.58	18.35	18.66	18.36	18.60	
10	25QAM	1	25	18.56	18.40	18.94	18.49	18.53	
10	25QAM	1	49	18.35	18.20	18.90	18.46	18.30	
10	25QAM	25	0	18.62	18.52	18.78	18.59	18.60	
10	25QAM	25	12	18.69	18.49	18.60	18.50	18.55	
10	25QAM	25	25	18.40	18.40	18.51	18.51	18.40	
10	25QAM	50	0	18.67	18.65	18.81	18.64	18.60	
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.58	23.66	23.64	24	0	
5	QPSK	1	19	23.53	23.54	23.57	23.36	23.42	
5	QPSK	1	24	23.42	23.48	23.48	23.35	23.39	
5	QPSK	12	0	22.47	22.41	22.88	22.89	22.82	
5	QPSK	12	7	22.38	22.48	22.60	22.41	22.34	
5	QPSK	12	13	22.37	22.20	22.43	22.37	22.35	
5	QPSK	25	0	22.24	22.50	22.62	22.47	22.33	
5	QPSK	1	0	22.86	22.57	22.84	22.62	22.63	
5	16QAM	1	12	22.56	22.87	22.83	22.69	22.66	
5	16QAM	1	24	22.37	22.52	22.62	22.50	22.38	
5	16QAM	12	0	21.81	21.58	21.65	21.51	21.45	
5	16QAM	12	7	21.60	21.49	21.57	21.52	21.54	
5	16QAM	12	13	21.35	21.41	21.52	21.42	21.39	
5	16QAM	25	0	21.85	21.54	21.75	21.60	21.87	
5	16QAM	1	0	21.75	21.63	21.75	21.61	21.77	
5	16QAM	1	12	21.62	21.50	21.63	21.61	21.61	
5	16QAM	1	24	21.44	21.57	21.64	21.57	21.49	
5	16QAM	12	0	20.68	20.52	20.72	20.44	20.57	
5	16QAM	12	7	20.42	20.52	20.56	20.45	20.39	
5	16QAM	12	13	20.35	20.49	20.55	20.39	20.49	
5	16QAM	25	0	20.68	20.67	20.56	20.67	20.51	
5	25QAM	1	0	18.55	18.40	18.59	18.37	18.50	
5	25QAM	1	12	18.50	18.30	18.59	18.43	18.45	
5	25QAM	1	24	18.36	18.37	18.48	18.47	18.29	
5	25QAM	12	0	18.64	18.53	18.66	18.57	18.66	
5	25QAM	12	7	18.50	18.45	18.61	18.51	18.58	
5	25QAM	12	13	18.37	18.49	18.53	18.52	18.44	
5	25QAM	25	0	18.67	18.67	18.81	18.62	18.63	

Band 41 FCC&C Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.67	23.70	23.75	24.5	0	
20	QPSK	1	49	23.55	23.62	23.65	23.51	23.52	
20	QPSK	1	99	23.48	23.59	23.59	23.50	23.46	
20	QPSK	50	0	22.59	22.50	22.72	22.60	22.66	
20	QPSK	50	24	22.50	22.51	22.84	22.54	22.47	
20	QPSK	100	0	22.60	22.58	22.80	22.52	22.59	
20	16QAM	1	0	22.80	22.67	22.88	22.75	22.77	
20	16QAM	1	49	22.68	22.62	22.70	22.68	22.72	
20	16QAM	1	99	22.67	22.58	22.72	22.62	22.64	
20	16QAM	50	0	21.61	21.66	21.83	21.63	21.71	
20	16QAM	50	24	21.64	21.60	21.63	21.62	21.59	
20	16QAM	50	50	21.49	21.56	21.65	21.50	21.49	
20	16QAM	100	0	21.68	21.69	21.69	21.74	21.77	
20	16QAM	1	49	21.75	21.78	21.71	21.76	21.50	
20	16QAM	1	99	21.72	21.74	21.69	21.64	21.67	
20	16QAM	50	24	20.80	20.85	20.74	20.83	20.87	
20	16QAM	50	50	20.66	20.58	20.74	20.63	20.41	
20	16QAM	100	0	20.60	20.48	20.65	20.54	20.39	
20	16QAM	1	0	18.62	18.40	18.70	18.50	18.65	
20	16QAM	1	49	18.64	18.47	18.70	18.50	18.56	
20	16QAM	1	99	18.43	18.43	18.53	18.51	18.38	
20	25QAM	1	0	18.76	18.67	18.70	18.70	18.74	
20	25QAM	50	24	18.61	18.59	18.64	18.62	18.52	
20	25QAM	50	50	18.51	18.53	18.61	18.63	18.59	
20	25QAM	100	0	18.77	18.75	18.71	18.73	18.73	
Channel									
Frequency (MHz)									
16	QPSK	1	0	23.67	23.70	23.75	24.5	0	
16	QPSK	1	37	23.35	23.42	23.45	23.31	23.32	
16	QPSK	1	74	23.28	23.36	23.39	23.30	23.26	
16	QPSK	36	0	22.38	22.30	22.52	22.40	22.46	
16	QPSK	36	20	22.30	22.31	22.44	22.34	22.27	



Band 41 PC2 FCC&C Ant 1											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up Int (dBm)	MPR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	25.56	25.47	25.63	25.51	25.65	25.55	27	0
20	QPSK	1	49	25.33	25.40	25.58	25.35	25.53	25.43	27	0
20	QPSK	50	0	25.29	25.33	25.51	25.21	25.41	25.31	27	0
20	QPSK	50	24	25.33	25.30	25.49	25.29	25.37	25.27	27	0
20	QPSK	100	0	25.27	25.29	25.46	25.27	25.33	25.28	27	0
20	QPSK	100	49	25.18	25.22	25.35	25.18	25.26	25.22	27	0
20	16QAM	1	0	25.18	25.28	25.42	25.23	25.34	25.24	27	0
20	16QAM	1	49	25.20	25.14	25.39	25.18	25.28	25.19	27	0
20	16QAM	1	99	25.18	25.13	25.35	25.12	25.27	25.17	27	0
20	16QAM	50	0	24.29	24.40	24.53	24.24	24.44	24.34	26	1
20	16QAM	50	24	24.30	24.26	24.50	24.27	24.42	24.32	26	1
20	16QAM	50	50	24.21	24.24	24.46	24.22	24.39	24.29	26	1
20	16QAM	100	0	24.29	24.23	24.45	24.19	24.39	24.29	26	1
20	16QAM	100	49	24.27	24.05	24.30	24.17	24.25	24.15	26	1
20	16QAM	100	99	24.55	24.52	24.74	24.54	24.66	24.66	26	1
20	16QAM	50	0	23.37	23.35	23.56	23.30	23.45	23.45	25	2
20	16QAM	50	24	23.33	23.33	23.53	23.31	23.45	23.45	25	2
20	16QAM	50	50	23.35	23.25	23.49	23.33	23.44	23.44	25	2
20	16QAM	100	0	23.23	23.29	23.44	23.31	23.33	23.33	25	2
20	256QAM	1	0	21.81	21.49	21.68	21.44	21.68	21.68	23	4
20	256QAM	1	49	21.29	21.41	21.61	21.42	21.52	21.52	23	4
20	256QAM	1	99	21.30	21.36	21.55	21.41	21.51	21.51	23	4
20	256QAM	50	0	21.27	21.29	21.46	21.24	21.46	21.46	23	4
20	256QAM	50	24	21.27	21.23	21.46	21.24	21.39	21.39	23	4
20	256QAM	50	50	21.23	21.26	21.41	21.26	21.35	21.35	23	4
20	256QAM	100	0	21.12	21.13	21.34	21.15	21.24	21.24	23	4
Channel											
Frequency (MHz)											
15	QPSK	1	0	24.47	24.33	24.51	24.31	24.52	24.42	27.00	0
15	QPSK	1	37	24.28	24.33	24.46	24.29	24.46	24.46	27.00	0
15	QPSK	1	74	24.15	24.26	24.38	24.24	24.30	24.30	27.00	0
15	QPSK	1	111	24.25	24.24	24.46	24.24	24.39	24.39	27.00	0
15	QPSK	36	20	24.13	24.15	24.43	24.21	24.25	24.25	27	0
15	QPSK	36	39	24.04	24.06	24.30	24.17	24.24	24.24	27	0
15	QPSK	75	0	24.04	24.06	24.30	24.17	24.24	24.24	27	0
15	16QAM	1	0	24.05	24.14	24.32	24.18	24.28	24.28	27	0
15	16QAM	1	37	24.05	24.11	24.31	24.03	24.29	24.29	27	0
15	16QAM	1	74	24.10	24.00	24.28	24.07	24.21	24.21	27	0
15	16QAM	36	0	24.17	24.33	24.39	24.24	24.35	24.35	26	1
15	16QAM	36	20	24.25	24.15	24.44	24.25	24.31	24.31	26	1
15	16QAM	36	39	24.11	24.09	24.27	24.10	24.26	24.26	26	1
15	16QAM	75	0	24.20	24.08	24.29	24.05	24.17	24.17	26	1
15	16QAM	75	0	24.44	24.27	24.72	24.47	24.75	24.75	26	1
15	16QAM	1	37	24.49	24.48	24.83	24.48	24.85	24.85	26	1
15	16QAM	74	24	24.42	24.42	24.82	24.26	24.81	24.81	26	1
15	16QAM	36	0	24.26	24.22	24.47	24.22	24.33	24.33	25	2
15	16QAM	36	20	24.23	24.28	24.49	24.19	24.34	24.34	25	2
15	16QAM	36	39	24.23	24.18	24.45	24.18	24.31	24.31	25	2
15	16QAM	75	0	24.19	24.25	24.32	24.15	24.23	24.23	25	2
15	256QAM	1	0	21.44	21.44	21.54	21.33	21.45	21.45	23	4
15	256QAM	1	37	21.26	21.29	21.52	21.31	21.41	21.41	23	4
15	256QAM	1	74	21.25	21.29	21.52	21.31	21.41	21.41	23	4
15	256QAM	36	0	21.28	21.27	21.39	21.26	21.30	21.30	23	4
15	256QAM	36	20	21.22	21.14	21.34	21.13	21.27	21.27	23	4
15	256QAM	36	39	21.14	21.22	21.37	21.12	21.30	21.30	23	4
15	256QAM	75	0	21.08	21.10	21.21	21.00	21.10	21.10	23	4
Channel											
Frequency (MHz)											
10	QPSK	1	0	25.38	25.27	25.47	25.27	25.48	25.48	27.00	0
10	QPSK	1	25	25.25	25.31	25.46	25.25	25.42	25.42	27.00	0
10	QPSK	1	49	25.21	25.18	25.38	25.17	25.37	25.37	27.00	0
10	QPSK	1	74	25.22	25.18	25.35	25.18	25.32	25.32	27.00	0
10	QPSK	25	12	25.17	25.21	25.43	25.22	25.28	25.28	27	0
10	QPSK	25	25	25.04	25.13	25.35	25.10	25.14	25.14	27	0
10	16QAM	1	0	25.06	25.06	25.31	25.03	25.29	25.29	27	0
10	16QAM	1	25	25.06	25.05	25.30	25.17	25.24	25.24	27	0
10	16QAM	25	0	24.21	24.28	24.44	24.25	24.39	24.39	26	1
10	16QAM	25	12	24.23	24.19	24.46	24.18	24.29	24.29	26	1
10	16QAM	25	25	24.13	24.11	24.43	24.17	24.35	24.35	26	1
10	16QAM	50	0	24.17	24.12	24.31	24.16	24.22	24.22	26	1
10	16QAM	50	12	24.44	24.56	24.74	24.48	24.63	24.63	26	1
10	16QAM	1	25	24.43	24.48	24.80	24.49	24.61	24.61	26	1
10	16QAM	1	49	24.38	24.51	24.59	24.41	24.56	24.56	26	1
10	16QAM	25	0	23.23	23.28	23.51	23.21	23.36	23.36	25	2
10	16QAM	25	12	23.29	23.27	23.41	23.17	23.32	23.32	25	2
10	16QAM	25	25	23.25	23.12	23.45	23.19	23.38	23.38	25	2
10	16QAM	50	0	23.14	23.16	23.35	23.25	23.35	23.35	25	2
10	256QAM	1	0	21.45	21.46	21.56	21.35	21.48	21.48	23	4
10	256QAM	1	25	21.29	21.34	21.51	21.37	21.48	21.48	23	4
10	256QAM	1	49	21.26	21.25	21.47	21.33	21.42	21.42	23	4
10	256QAM	25	0	21.33	21.29	21.44	21.25	21.41	21.41	23	4
10	256QAM	25	12	21.23	21.11	21.35	21.18	21.33	21.33	23	4
10	256QAM	25	25	21.11	21.14	21.27	21.11	21.25	21.25	23	4
10	256QAM	50	0	21.04	21.04	21.24	21.09	21.18	21.18	23	4
Channel											
Frequency (MHz)											
5	QPSK	1	0	25.38	25.27	25.47	25.27	25.48	25.48	27.00	0
5	QPSK	1	12	25.22	25.27	25.44	25.25	25.43	25.43	27.00	0
5	QPSK	1	24	25.15	25.21	25.39	25.19	25.29	25.29	27.00	0
5	QPSK	10	0	25.40	25.27	25.56	25.21	25.52	25.52	27	0
5	QPSK	10	7	25.17	25.25	25.32	25.23	25.27	25.27	27	0
5	QPSK	12	18	25.09	25.17	25.28	25.07	25.23	25.23	27	0
5	QPSK	25	0	25.10	25.04	25.35	25.12	25.17	25.17	27	0
5	QPSK	25	0	25.09	25.19	25.32	25.18	25.23	25.23	27	0
5	16QAM	1	12	25.15	25.00	25.27	25.05	25.22	25.22	27	0
5	16QAM	1	24	25.07	25.02	25.26	25.04	25.16	25.16	27	0
5	16QAM	12	0	24.22	24.35	24.43	24.28	24.41	24.41	26	1
5	16QAM	12	7	24.24	24.18	24.44	24.12	24.36	24.36	26	1
5	16QAM	12	13	24.11	24.13	24.32	24.16	24.35	24.35	26	1
5	16QAM	25	0	24.18	24.16	24.30	24.08	24.18	24.18	26	1
5	16QAM	1	0	24.40	24.83	24.72	24.45	24.72	24.72	26	1
5	16QAM	1	12	24.46	24.43	24.68	24.39	24.66	24.66	26	1
5	16QAM	1	24	24.45	24.41	24.58	24.42	24.53	24.53	26	1
5	16QAM	10	0	23.24	23.31	23.46	23.24	23.31	23.31	25	2
5	16QAM	10	7	23.20	23.20	23.44	23.24	23.42	23.		



CDM1000 Awp		Output							
Channel	Best Average Power (dBm)	812	861	810	Tune-up Limit (dBm)	812	861	810	Tune-up Limit (dBm)
Transmit (W)	180.2	180	180.8		180.2	180	180.8		180.2
CDM 1 Tx total	28.25	28.33	28.19	29.00	19.25	19.33	19.19	20.00	
OPRS 1 Tx total	26.23	26.29	26.13	26.60	18.23	18.28	18.13	20.00	
OPRS 1 Tx total	25.46	25.53	25.40	26.00	17.46	17.53	17.40	20.00	
OPRS 2 Tx total	21.95	22.00	21.96	23.00	13.95	13.99	13.96	20.00	
EDGE 1 Tx total	23.59	23.64	23.61	24.50	14.59	14.64	14.61	25.00	
EDGE 2 Tx total	21.95	22.01	21.97	23.00	13.95	14.01	13.97	20.00	
EDGE 3 Tx total	20.78	20.81	20.70	21.50	12.78	12.80	12.64	20.00	
EDGE 4 Tx total	18.71	18.74	18.68	19.50	10.71	10.74	10.68	20.00	
Best Average Power (dBm)		WCDMA II				WCDMA IV			
TX Channel	5262	5650	5658	Tune-up Limit (dBm)	5312	5651	5613	Tune-up Limit (dBm)	
Rx Channel	5662	5650	5658		5517	5658	5758		
Transmit (W)	997.6	999	997.8		1312	1291.6	1302		
SOPP Rate	AMR 12.2kbit	18.04	18.11	18.00	20.00	21.42	21.44	21.37	22.00
SOPP Rate	RMC 12.2kbit	18.14	18.10	18.07	20.10	21.47	21.53	21.44	22.00
SOPP Rate	HS-PA Subclass 1	18.14	18.10	17.95	19.10	20.57	20.66	20.52	21.00
SOPP Rate	HS-PA Subclass 2	18.08	18.17	18.07	19.10	20.47	20.61	20.43	21.00
SOPP Rate	HS-PA Subclass 3	17.51	17.71	17.51	18.00	19.01	20.04	19.05	21.00
SOPP Rate	HS-PA Subclass 4	17.58	17.68	17.65	18.00	19.58	20.08	20.02	21.00
SOPP Rate	DC-HSPA Subclass 1	18.00	18.2	18.00	19.00	20.48	20.57	20.58	21.00
SOPP Rate	DC-HSPA Subclass 2	17.80	17.65	17.84	18.10	20.20	20.57	20.31	21.00
SOPP Rate	DC-HSPA Subclass 3	17.98	17.40	17.45	18.00	19.80	19.67	19.83	21.00
SOPP Rate	DC-HSPA Subclass 4	17.37	17.51	17.43	18.00	19.78	19.50	19.84	21.00
SOPP Rate	HSPA Subclass 1	18.18	18.22	18.28	19.10	20.49	20.65	20.60	21.00
SOPP Rate	HSPA Subclass 2	18.16	18.00	18.00	17.00	19.66	19.01	19.00	19.00
SOPP Rate	HSPA Subclass 3	17.15	17.03	17.14	18.00	19.48	19.01	19.48	20.00
SOPP Rate	HSPA Subclass 4	16.00	16.04	16.01	17.10	18.38	18.44	18.33	19.00
SOPP Rate	HSPA Subclass 5	15.04	15.10	15.03	16.10	17.46	17.53	17.40	18.00



Band 2 DS12_Standalone Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power Hsp./Freq.	Power Ch./Freq.	Turn-up Time (min)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	19.71	19.77	19.73	21	0
20	QPSK	1	49	19.80	19.71	19.85		
20	QPSK	50	0	19.58	19.62	19.62		
20	QPSK	50	49	19.48	19.59	19.42		
20	QPSK	100	0	19.58	19.62	19.60		
20	QPSK	100	49	19.49	19.57	19.43		
20	16QAM	1	0	19.58	19.61	19.52		
20	16QAM	1	49	19.52	19.60	19.53		
20	16QAM	50	24	19.48	19.52	19.53		
20	16QAM	50	74	19.38	19.67	19.36		
20	16QAM	100	0	19.42	19.50	19.48		
20	16QAM	100	49	19.45	19.59	19.51		
20	64QAM	1	0	19.49	19.60	19.52		
20	64QAM	1	49	19.52	19.48	19.46		
20	64QAM	50	24	19.52	19.48	19.46		
20	64QAM	50	74	19.42	19.50	19.48		
20	64QAM	100	0	19.51	19.40	19.46		
20	64QAM	100	49	19.45	19.56	19.47		
20	256QAM	1	0	19.05	19.20	17.99	19	2
20	256QAM	1	49	19.02	18.08	18.02		
20	256QAM	50	24	19.48	19.62	19.58		
20	256QAM	50	74	19.38	19.67	19.36		
20	256QAM	100	0	19.42	19.50	19.48		
20	256QAM	100	49	19.45	19.59	19.51		
20	256QAM	50	24	17.86	17.96	17.86	19	2
20	256QAM	50	74	17.87	17.86	17.88		
20	256QAM	100	0	17.86	17.86	17.86		
20	256QAM	100	49	17.87	17.86	17.88		
Channel								
Frequency (MHz)								
15	QPSK	1	0	19.87	19.69	19.59		
15	QPSK	1	49	19.83	19.67	19.63		
15	QPSK	1	74	19.48	19.68	19.59		
15	QPSK	36	0	19.50	19.60	19.54		
15	QPSK	36	49	19.44	19.60	19.57		
15	QPSK	36	74	19.39	19.61	19.54		
15	QPSK	75	0	19.48	19.51	19.46		
15	16QAM	1	0	19.51	19.54	19.41		
15	16QAM	1	37	19.49	19.43	19.38		
15	16QAM	1	74	19.41	19.46	19.41		
15	16QAM	36	24	19.48	19.63	19.46		
15	16QAM	36	74	19.38	19.63	19.46		
15	16QAM	75	0	19.39	19.48	19.42		
15	64QAM	1	0	19.31	19.48	19.46		
15	64QAM	1	37	19.45	19.41	19.41		
15	64QAM	1	74	19.30	19.57	19.43		
15	64QAM	36	0	19.44	19.44	19.36		
15	64QAM	36	49	19.49	19.45	19.38		
15	64QAM	36	74	19.34	19.32	19.47		
15	64QAM	75	0	19.48	19.37	19.34		
15	256QAM	1	0	17.86	17.86	17.86		
15	256QAM	1	37	17.80	17.18	17.88	19	2
15	256QAM	1	74	17.86	17.86	17.86		
15	256QAM	36	24	17.71	17.87	17.82		
15	256QAM	36	74	17.83	17.82	17.82		
15	256QAM	75	0	17.77	17.86	17.86		
Channel								
Frequency (MHz)								
10	QPSK	1	0	19.87	19.69	19.59		
10	QPSK	1	25	19.53	19.61	19.49		
10	QPSK	1	49	19.51	19.62	19.61		
10	QPSK	1	74	19.48	19.60	19.58		
10	QPSK	36	0	19.50	19.60	19.54		
10	QPSK	36	49	19.44	19.60	19.57		
10	QPSK	36	74	19.39	19.61	19.54		
10	QPSK	75	0	19.48	19.51	19.46		
10	16QAM	1	0	19.51	19.54	19.41		
10	16QAM	1	37	19.49	19.43	19.38		
10	16QAM	1	74	19.41	19.46	19.41		
10	16QAM	36	24	19.48	19.63	19.46		
10	16QAM	36	74	19.38	19.63	19.46		
10	16QAM	75	0	19.39	19.48	19.42		
10	64QAM	1	0	19.31	19.48	19.46		
10	64QAM	1	37	19.45	19.41	19.41		
10	64QAM	1	74	19.30	19.57	19.43		
10	64QAM	36	0	19.44	19.44	19.36		
10	64QAM	36	49	19.49	19.45	19.38		
10	64QAM	36	74	19.34	19.32	19.47		
10	64QAM	75	0	19.48	19.37	19.34		
10	256QAM	1	0	17.86	17.86	17.86		
10	256QAM	1	37	17.80	17.18	17.88	19	2
10	256QAM	1	74	17.86	17.86	17.86		
10	256QAM	36	24	17.71	17.87	17.82		
10	256QAM	36	74	17.83	17.82	17.82		
10	256QAM	75	0	17.77	17.86	17.86		

Band 4 Default Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power Hsp./Freq.	Power Ch./Freq.	Turn-up Time (min)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	21.16	21.30	21.12		
20	QPSK	1	49	21.12	21.24	21.15		
20	QPSK	1	99	20.98	21.11	20.88	22	0
20	QPSK	50	0	21.06	21.19	21.02		
20	QPSK	50	49	21.02	21.15	20.99		
20	QPSK	100	0	21.02	21.16	21.06		
20	QPSK	100	49	21.02	21.16	21.02		
20	16QAM	1	0	21.03	21.17	21.02		
20	16QAM	1	50	20.96	21.10	21.05		
20	16QAM	50	0	21.12	21.24	21.15		
20	16QAM	50	24	20.99	21.08	21.05		
20	16QAM	50	74	20.96	21.09	20.97		
20	16QAM	100	0	21.06	21.21	21.05		
20	16QAM	100	49	21.03	21.08	21.02		
20	16QAM	100	99	20.92	21.00	20.92		
20	64QAM	1	0	20.99	21.09	20.99		
20	64QAM	1	50	20.96	21.09	20.97		
20	64QAM	50	24	20.93	21.03	20.93		
20	64QAM	50	74	20.92	21.02	20.99		
20	64QAM	100	0	20.97	21.04	20.95		
20	64QAM	100	49	20.94	21.03	20.94		
20	64QAM	100	99	20.87	21.03	20.87		
20	256QAM	1	0	18.03	18.28	18.10	19	3
20	256QAM	1	50	18.05	18.06	18.00		
20	256QAM	50	24	17.92	17.99	17.95		
20	256QAM	50	74	17.96	17.99	17.88		
20	256QAM	100	0	17.87	17.87	17.86		
20	256QAM	100	49	17.87	17.86	17.87		
Channel								
Frequency (MHz)								
15	QPSK	1	0	21.01	21.25	20.88		
15	QPSK	1	49	20.87	21.07	20.82		
15	QPSK	1	74	20.90	21.07	20.83		
15	QPSK	36	0	20.99	21.07	20.83		
15	QPSK	36	49	20.98	21.09	20.82		
15	QPSK	36	74	20.84	20.91	20.84		
15	QPSK	75	0	20.92	21.07	20.84		
15	16QAM	1	0	21.04	21.15	21.03		
15	16QAM	1	37	21.00	21.03	20.94		
15	16QAM	1	74	20.92	21.00	20.92		
15	16QAM	36	24	21.03	21.10	21.02		
15	16QAM	36	74	20.89	21.02	21.00		
15	16QAM	75	0	20.92	21.00	20.90		
15	64QAM	1	0	20.96	21.14	20.91		
15	64QAM	1	37	20.90	21.04	20.92		
15	64QAM	1	74	20.80	21.00	20.91		
15	64QAM	36	0	20.98	20.90	20.80		
15	64QAM	36	49	20.97	20.98	20.84		
15	64QAM	36	74	20.84	20.95	20.80		
15	64QAM	75	0	20.97	20.88	20.89		
15	256QAM	1	0	17.86	17.86	17.86		
15	256QAM	1	37	17.84	17.18	18.07	19	3
15	256QAM	1	74	17.80	17.86	17.85		
15	256QAM	36	24	17.71	17.87	17.82		
15	256QAM	36	74	17.83	17.82	17.82		
15	256QAM	75	0	17.77	17.86	17.86		
Channel								
Frequency (MHz)								
10	QPSK	1	0	21.04	21.28	20.91		
10	QPSK	1	25	20.96	21.08	20.83		
10	QPSK	1	49	20.94	21.06	20.73		
10	QPSK	1	74	20.91	21.07	20.84		
10	QPSK	36	0	20.99	21.07	20.83		
10	QPSK	36	49					



Band 12 Default Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.51	22.62	22.50				
10	QPSK	1	25	22.40	22.42	22.48				
10	QPSK	1	49	22.26	22.48	22.18				
10	QPSK	25	0	22.40	22.62	22.40				
10	16QAM	25	0	22.30	22.62	22.40				
10	QPSK	25	25	22.29	22.52	22.24				
10	QPSK	50	0	22.34	22.41	22.37				
10	16QAM	50	0	22.41	22.51	22.53				
10	16QAM	1	25	22.39	22.52	22.38				
10	16QAM	1	49	22.18	22.40	22.39				
10	16QAM	25	0	22.51	22.52	22.54				
10	16QAM	25	12	22.29	22.41	22.35				
10	16QAM	25	25	22.27	22.36	22.36				
10	16QAM	50	0	22.40	22.51	22.38				
10	16QAM	1	0	22.40	22.41	22.34				
10	8QAM	1	25	22.39	22.41	22.52				
10	8QAM	1	49	22.14	22.41	22.29				
10	8QAM	25	0	21.24	21.36	21.17				
10	8QAM	25	12	21.13	21.24	21.08				
10	8QAM	25	25	21.03	21.36	21.04				
10	8QAM	50	0	21.25	21.30	21.19				
10	256QAM	1	25	19.52	19.60	19.46				
10	256QAM	1	49	19.35	19.58	19.51				
10	256QAM	1	25	19.34	19.36	19.43				
10	256QAM	25	12	19.34	19.28	19.32				
10	256QAM	25	25	19.12	19.28	19.19				
10	256QAM	50	0	19.22	19.28	19.20				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.43	22.48	22.39				
5	QPSK	1	25	22.30	22.42	22.27				
5	QPSK	1	24	22.14	22.40	22.04				
5	QPSK	12	0	22.29	22.50	22.37				
5	QPSK	12	7	22.25	22.37	22.05				
5	QPSK	12	13	22.24	22.28	22.17				
5	QPSK	25	0	22.22	22.27	22.12				
5	16QAM	1	0	22.35	22.48	22.38				
5	16QAM	1	12	22.25	22.45	22.27				
5	16QAM	1	24	22.02	22.16	22.07				
5	16QAM	12	0	22.47	22.43	22.51				
5	16QAM	12	7	22.18	22.28	22.25				
5	16QAM	12	13	22.15	22.26	22.14				
5	16QAM	25	0	22.37	22.43	22.23				
5	8QAM	1	0	22.25	22.39	22.28				
5	8QAM	1	24	22.09	22.37	22.08				
5	8QAM	1	24	22.05	22.32	22.21				
5	8QAM	12	0	21.28	21.27	21.25				
5	8QAM	12	7	21.11	21.28	21.17				
5	8QAM	12	13	20.98	20.97	21.01				
5	8QAM	25	0	21.17	21.25	21.28				
5	256QAM	1	0	19.50	19.51	19.53				
5	256QAM	1	24	19.25	19.29	19.24				
5	256QAM	12	0	19.36	19.43	19.25				
5	256QAM	12	7	19.22	19.24	19.26				
5	256QAM	12	13	19.17	19.20	19.17				
5	256QAM	25	0	19.27	19.18	19.20				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.41	22.51	22.18				
3	QPSK	1	7	22.33	22.37	22.26				
3	QPSK	1	14	22.11	22.43	22.08				
3	QPSK	3	0	22.32	22.48	22.30				
3	QPSK	3	7	22.19	22.34	22.21				
3	QPSK	3	14	22.21	22.18	22.11				
3	QPSK	15	0	22.30	22.37	22.27				
3	16QAM	1	0	22.26	22.39	22.46				
3	16QAM	1	8	22.31	22.38	22.32				
3	16QAM	1	15	22.05	22.28	22.08				
3	16QAM	8	0	22.37	22.41	22.40				
3	16QAM	8	4	22.18	22.33	22.29				
3	16QAM	8	7	22.13	22.29	22.18				
3	16QAM	15	0	22.36	22.39	22.25				
3	8QAM	1	0	22.27	22.31	22.21				
3	8QAM	1	8	22.34	22.33	22.28				
3	8QAM	1	14	22.06	22.28	22.20				
3	8QAM	8	0	21.32	21.27	21.02				
3	8QAM	8	4	21.04	21.12	20.95				
3	8QAM	8	7	20.98	21.00	20.99				
3	8QAM	15	0	21.19	21.24	21.12				
3	256QAM	1	0	19.23	19.45	19.41				
3	256QAM	1	8	19.27	19.51	19.37				
3	256QAM	1	14	19.24	19.31	19.35				
3	256QAM	8	0	19.10	19.31	19.36				
3	256QAM	8	4	19.24	19.15	19.17				
3	256QAM	8	7	19.09	19.23	19.09				
3	256QAM	15	0	19.20	19.25	19.12				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.41	22.51	22.18				
1.4	QPSK	1	3	22.35	22.28	22.27				
1.4	QPSK	1	5	22.20	22.42	22.04				
1.4	QPSK	3	0	22.34	22.50	22.37				
1.4	QPSK	3	1	22.20	22.50	22.23				
1.4	QPSK	3	3	22.17	22.20	22.20				
1.4	16QAM	1	0	22.33	22.34	22.32				
1.4	16QAM	1	3	22.32	22.40	22.40				
1.4	16QAM	1	5	22.28	22.47	22.25				
1.4	16QAM	3	0	22.44	22.37	22.33				
1.4	16QAM	3	1	22.47	22.47	22.40				
1.4	16QAM	3	1	22.26	22.31	22.25				
1.4	16QAM	3	3	22.17	22.32	22.25				
1.4	16QAM	6	0	22.26	22.43	22.38				
1.4	8QAM	1	0	22.35	22.37	22.29				
1.4	8QAM	1	3	22.25	22.29	22.28				
1.4	8QAM	1	5	22.01	22.33	22.19				
1.4	8QAM	3	0	22.38	22.36	22.40				
1.4	8QAM	3	0	22.16	22.32	22.22				
1.4	8QAM	3	3	22.15	22.29	22.21				
1.4	8QAM	6	0	21.19	21.20	21.11				
1.4	256QAM	1	0	19.26	19.57	19.36				
1.4	256QAM	1	3	19.22	19.55	19.47				
1.4	256QAM	1	5	19.26	19.22	19.35				
1.4	256QAM	3	0	19.10	19.34	19.30				
1.4	256QAM	3	1	19.21	19.18	19.19				
1.4	256QAM	3	3	19.08	19.20	19.14				
1.4	256QAM	6	0	19.17	19.25	19.09				

Band 13 Default Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.53						
10	QPSK	1	25	22.41						
10	QPSK	1	49	22.43						
10	QPSK	25	0	22.45						
10	QPSK	25	12	22.40						
10	QPSK	25	25	22.26						
10	QPSK	50	0	22.32						
10	16QAM	1	0	22.45						
10	16QAM	1	25	22.47						
10	16QAM	1	49	22.40						
10	16QAM	25	0	22.54						
10	16QAM	25	12	22.35						
10	16QAM	25	25	22.28						
10	16QAM	50	0	22.45						
10	8QAM	1	0	22.42						
10	8QAM	1	25	22.42						
10	8QAM	1	49	22.41						
10	8QAM	25	0	21.30						
10	8QAM	25	12	21.20						
10	8QAM	25	25	21.04						
10	8QAM	50	0	21.26						



Band 25 DSI2_ Standalone Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power Hsp./F.Freq.	Power Hsp./F.Freq.	Time-up Int. (min)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	19.84	19.82	19.78		
20	QPSK	1	49	19.82	19.81	19.85	21	0
20	QPSK	1	99	19.82	19.74	19.82		
20	QPSK	50	0	19.85	19.79	19.83		
20	QPSK	50	24	19.85	19.72	19.81	21	0
20	QPSK	50	50	19.80	19.71	19.80		
20	QPSK	100	0	19.85	19.82	19.77		
20	QPSK	100	24	19.72	19.69	19.84	21	0
20	16QAM	1	49	19.57	19.69	19.61		
20	16QAM	1	99	19.61	19.70	19.63		
20	16QAM	50	0	19.65	19.61	19.65		
20	16QAM	50	24	19.64	19.71	19.71	21	0
20	16QAM	50	50	19.66	19.72	19.67		
20	16QAM	100	0	19.67	19.63	19.69		
20	16QAM	100	24	19.59	19.64	19.65		
20	64QAM	1	49	19.61	19.71	19.62	21	0
20	64QAM	50	0	19.63	19.70	19.64		
20	64QAM	50	24	19.58	19.64	19.52	21	0
20	64QAM	50	50	19.55	19.60	19.63		
20	64QAM	100	0	19.56	19.65	19.54		
20	64QAM	100	24	19.55	19.59	19.53	21	0
20	256QAM	1	49	19.57	19.61	19.56		
20	256QAM	50	0	19.57	19.62	19.57		
20	256QAM	50	24	19.48	19.52	19.46	21	0
20	256QAM	50	50	19.47	19.48	19.55		
20	256QAM	100	0	19.47	19.48	19.48		
Channel								
Frequency (MHz)								
15	QPSK	1	0	22.20	22.24	22.17		
15	QPSK	1	37	22.03	22.10	22.05	23	0
15	QPSK	1	74	22.03	22.10	22.05		
15	QPSK	36	0	22.16	22.20	22.05		
15	QPSK	36	25	21.92	21.94	21.81	23	0
15	QPSK	75	0	21.99	22.02	22.02		
15	QPSK	75	25	21.92	21.99	21.92	23	0
15	16QAM	1	37	22.09	22.18	22.18		
15	16QAM	1	74	21.99	22.01	22.10		
15	16QAM	36	0	22.08	22.17	22.08		
15	16QAM	36	25	21.88	21.91	21.87	23	0
15	16QAM	75	0	22.02	22.12	22.04		
15	16QAM	75	25	21.97	22.02	22.07	23	0
15	64QAM	1	37	22.09	22.09	22.04		
15	64QAM	36	0	22.04	21.90	20.97	22	1
15	64QAM	36	25	20.76	20.88	20.87	22	1
15	64QAM	75	0	20.85	20.78	20.80		
15	64QAM	75	25	20.86	20.85	20.78	22	1
15	256QAM	1	37	19.38	19.35	19.25	20	3
15	256QAM	1	74	19.11	19.14	19.06		
15	256QAM	36	0	22.12	22.10	22.08		
15	256QAM	36	25	20.91	20.99	20.92	20	3
15	256QAM	75	0	18.88	18.87	18.89		
15	256QAM	75	25	18.88	18.87	18.89	20	3
Channel								
Frequency (MHz)								
10	QPSK	1	0	22.14	22.20	22.10		
10	QPSK	1	49	21.90	21.98	21.99	23	0
10	QPSK	36	0	22.12	22.12	21.86		
10	QPSK	36	25	21.94	21.90	21.90	23	0
10	QPSK	75	0	21.94	21.99	21.92		
10	QPSK	75	25	21.84	21.84	21.81	23	0
10	16QAM	1	25	22.03	22.09	22.09		
10	16QAM	1	49	21.88	21.92	21.84	23	0
10	16QAM	25	0	21.93	22.07	21.86		
10	16QAM	25	12	21.98	21.89	21.94	23	0
10	16QAM	36	0	21.93	21.93	22.00		
10	16QAM	36	25	21.95	21.99	21.90	23	0
10	16QAM	50	0	21.95	21.99	21.90		
10	16QAM	50	24	21.83	21.83	22.00	23	0
10	16QAM	50	49	21.92	22.04	21.97		
10	16QAM	25	0	20.99	20.93	20.87	22	1
10	16QAM	25	12	20.92	20.76	20.77	22	1
10	16QAM	25	25	20.91	20.72	20.71	22	1
10	16QAM	50	0	20.83	20.78	20.79		
10	16QAM	50	24	20.84	20.81	20.87	20	3
10	16QAM	50	49	19.08	19.01	19.00		
10	256QAM	1	25	19.30	19.28	19.20	20	3
10	256QAM	1	49	19.08	19.01	19.00		
10	256QAM	36	0	18.76	18.85	18.87		
10	256QAM	36	25	18.76	18.81	18.88	20	3
10	256QAM	75	0	18.84	18.80	18.81		
Channel								
Frequency (MHz)								
5	QPSK	1	0	21.53	21.59	21.53		
5	QPSK	1	24	21.90	22.01	21.92	23	0
5	QPSK	12	7	21.86	21.90	21.90	23	0
5	QPSK	12	13	21.82	21.90	21.83		
5	QPSK	25	25	21.96	22.04	21.99		
5	16QAM	1	12	21.98	22.14	22.14	23	0
5	16QAM	12	0	22.00	22.07	21.92		
5	16QAM	12	7	21.98	21.98	21.97	23	0
5	16QAM	12	13	21.85	21.91	21.87		
5	16QAM	25	0	22.03	22.05	22.00		
5	16QAM	25	1	21.88	21.95	22.01	23	0
5	16QAM	25	12	21.96	22.00	21.90		
5	16QAM	25	13	20.93	20.93	22.02	22	1
5	16QAM	25	25	20.99	20.78	20.77		
5	256QAM	1	12	19.31	19.31	19.18	20	3
5	256QAM	1	24	19.07	19.07	19.01		
5	256QAM	12	0	18.66	18.65	18.63		
5	256QAM	12	7	18.78	18.87	18.88	20	3
5	256QAM	12	13	18.78	18.83	18.83		
5	256QAM	25	25	18.78	18.81	18.87	20	3
Channel								
Frequency (MHz)								
3	QPSK	1	0	21.47	21.52	21.53		
3	QPSK	1	8	22.00	22.01	22.09	23	0
3	QPSK	1	14	21.94	22.06	21.91		
3	QPSK	3	25	22.04	22.09	22.05		
3	QPSK	8	4	21.83	21.90	21.92	23	0
3	QPSK	8	7	21.78	21.90	21.87		
3	16QAM	1	8	21.96	22.05	22.04		
3	16QAM	3	25	21.95	22.00	21.92	23	0
3	16QAM	8	4	21.93	22.12	21.87		
3	16QAM	8	7	21.78	21.77	21.73	23	0
3	16QAM	15	0	21.99	21.99	21.92		
3	16QAM	15	0	21.92	21.94	21.84	23	0
3	16QAM	15	8	22.02	21.96	21.89		
3	16QAM	14	22	22.03	22.03	21.87	22	1
3	16QAM	8	7	20.88	20.85	20.78		
3	16QAM	15	0	20.99	20.78	20.74	22	1
3	256QAM	1	8	19.23	19.30	19.13	20	3
3	256QAM	1	14	19.01	19.00	19.03		
3	256QAM	8	0	19.09	19.07	19.05		
3	256QAM	8	4	18.81	18.85	18.82	20	3
3	256QAM	15	0	18.84	18.81	18.83		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	22.07	22.10	22.11		
1.4	QPSK	1	3	22.11	21.96	22.09	23	0
1.4	QPSK	1	5	21.99	21.99	21.91		
1.4	QPSK	3	25	22.11	22.02	22.05		
1.4	QPSK	3	1	21.82	21.89	21.85	23	0
1.4	QPSK	3	3	21.88	21.85	21.82		
1.4	QPSK	11	0	21.95	21.90	21.87	23	0
1.4	16QAM	1	0	21.97	21.97	21.97		
1.4	16QAM	1	3	21.97	22.08	22.10		
1.4	16QAM	3	25	21.87	21.94	21.97	23	0
1.4	16QAM	3	1	21.98	21.98	21.96		
1.4	16QAM	3	1	21.78	21.77	21.79		
1.4	16QAM	6	0	22.02	22.05	21.92	23	0
1.4	16QAM	6	1	21.96	21.96	22.04		
1.4	16QAM	6	3	22.02	22.04	21.85		
1.4	16QAM	3	3	21.91	22.03	21.92	22	1
1.4	16QAM	3	3	21.91	21.99	21.84		
1.4	16QAM	3	2	22.02	22.04	21.85		
1.4	256QAM	1	0	19.12	19.11	19.13	22	1
1.4	256QAM	3	3	19.20	19.24	19.17		
1.4	256QAM	3	2	19.03	19.03	19.04	20	3
1.4	256QAM	3	3	19.03	19.02	19.02		
1.4	256QAM	3	1	18.94	18.85	18.88		
1.4	256QAM	15	0</					



Band 38 DS12_Standalone Ant 2

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)				38750	39000	39150		
20	QPSK	1	0	17.56	17.63	17.70		
20	QPSK	1	49	17.50	17.55	17.60	19.2	0
20	QPSK	50	0	17.29	17.53	17.45		
20	QPSK	50	24	17.35	17.49	17.51	19.2	0
20	QPSK	100	0	17.34	17.40	17.35		
20	16QAM	1	0	17.38	17.44	17.52	19.2	0
20	16QAM	1	49	17.29	17.43	17.27		
20	16QAM	1	99	17.33	17.43	17.38		
20	16QAM	50	0	17.27	17.53	17.52	19.2	0
20	16QAM	50	24	17.26	17.42	17.39		
20	16QAM	50	50	17.44	17.45	17.37		
20	16QAM	100	0	17.29	17.50	17.35		
20	16QAM	1	49	17.33	17.44	17.38	19.2	0
20	16QAM	1	99	17.28	17.42	17.38		
20	16QAM	50	24	17.28	17.43	17.28	19.2	0
20	16QAM	50	50	17.20	17.37	17.26		
20	16QAM	100	0	17.30	17.37	17.30		
20	256QAM	1	0	17.37	17.58	17.39		
20	256QAM	1	49	17.24	17.58	17.39	19.2	0
20	256QAM	1	99	17.26	17.38	17.35		
20	256QAM	50	0	17.42	17.57	17.56		
20	256QAM	50	24	17.28	17.42	17.34	19.2	0
20	256QAM	50	50	17.25	17.38	17.28		
20	256QAM	100	0	17.41	17.38	17.38		
Channel								
Frequency (MHz)				31623	31600	31515		
15	QPSK	1	0	17.51	17.53	17.52		
15	QPSK	1	37	17.44	17.49	17.36	19.2	0
15	QPSK	1	74	17.32	17.51	17.36		
15	QPSK	36	0	17.48	17.43	17.43		
15	QPSK	36	20	17.28	17.40	17.27	19.2	0
15	QPSK	36	36	17.22	17.37	17.36		
15	QPSK	75	0	17.25	17.35	17.28		
15	16QAM	1	0	17.33	17.38	17.29	19.2	0
15	16QAM	1	37	17.28	17.34	17.25		
15	16QAM	1	74	17.24	17.37	17.30		
15	16QAM	36	0	17.21	17.49	17.25	19.2	0
15	16QAM	36	20	17.20	17.34	17.26		
15	16QAM	36	36	17.36	17.38	17.28		
15	16QAM	75	0	17.28	17.32	17.24	19.2	0
15	16QAM	1	37	17.25	17.42	17.24		
15	16QAM	1	74	17.23	17.45	17.24		
15	16QAM	36	0	17.27	17.33	17.24	19.2	0
15	16QAM	36	20	17.24	17.37	17.31		
15	16QAM	36	36	17.28	17.35	17.26		
15	16QAM	75	0	17.22	17.32	17.25		
15	256QAM	1	0	17.32	17.53	17.39	19.2	0
15	256QAM	1	37	17.26	17.52	17.31		
15	256QAM	1	74	17.28	17.34	17.28		
15	256QAM	36	0	17.38	17.53	17.38	19.2	0
15	256QAM	36	20	17.31	17.38	17.29		
15	256QAM	36	36	17.28	17.29	17.20		
15	256QAM	75	0	17.43	17.43	17.20		
Channel								
Frequency (MHz)				2372	2395	2415		
10	QPSK	1	0	17.41	17.51	17.61		
10	QPSK	1	25	17.44	17.51	17.51	19.2	0
10	QPSK	1	49	17.34	17.49	17.57		
10	QPSK	25	0	17.30	17.40	17.44		
10	QPSK	25	12	17.27	17.39	17.28	19.2	0
10	QPSK	25	25	17.23	17.27	17.23		
10	16QAM	1	0	17.35	17.42	17.22	19.2	0
10	16QAM	1	25	17.21	17.29	17.23		
10	16QAM	1	49	17.26	17.40	17.29		
10	16QAM	25	0	17.22	17.45	17.29	19.2	0
10	16QAM	25	12	17.23	17.37	17.23		
10	16QAM	25	25	17.20	17.33	17.21		
10	16QAM	50	0	17.28	17.31	17.31		
10	16QAM	1	25	17.25	17.38	17.21	19.2	0
10	16QAM	1	49	17.28	17.40	17.31		
10	16QAM	25	0	17.26	17.33	17.27	19.2	0
10	16QAM	25	12	17.24	17.38	17.20		
10	16QAM	25	25	17.23	17.28	17.22		
10	16QAM	50	0	17.26	17.34	17.26		
10	256QAM	1	0	17.34	17.50	17.34	19.2	0
10	256QAM	1	25	17.24	17.59	17.31		
10	256QAM	1	49	17.20	17.35	17.29		
10	256QAM	25	0	17.39	17.50	17.37	19.2	0
10	256QAM	25	12	17.28	17.50	17.25		
10	256QAM	25	25	17.21	17.34	17.25		
10	256QAM	50	0	17.37	17.46	17.38		
Channel								
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	17.55	17.53	17.50		
5	QPSK	1	19	17.47	17.46	17.33	19.2	0
5	QPSK	1	24	17.35	17.45	17.36		
5	QPSK	12	0	17.39	17.46	17.36	19.2	0
5	QPSK	12	7	17.30	17.39	17.28		
5	QPSK	25	0	17.52	17.31	17.52		
5	QPSK	25	0	17.29	17.33	17.27		
5	16QAM	1	12	17.28	17.31	17.23	19.2	0
5	16QAM	1	24	17.30	17.30	17.26		
5	16QAM	12	0	17.24	17.45	17.29		
5	16QAM	12	7	17.20	17.35	17.29	19.2	0
5	16QAM	12	13	17.41	17.41	17.32		
5	16QAM	25	0	17.37	17.34	17.20		
5	16QAM	1	0	17.37	17.34	17.31	19.2	0
5	16QAM	1	12	17.29	17.37	17.26		
5	16QAM	1	24	17.27	17.43	17.37		
5	16QAM	12	0	17.25	17.34	17.25	19.2	0
5	16QAM	12	7	17.22	17.34	17.25		
5	16QAM	12	13	17.52	17.33	17.21		
5	16QAM	25	0	17.37	17.30	17.22		
5	256QAM	1	0	17.30	17.52	17.34	19.2	0
5	256QAM	1	12	17.31	17.49	17.34		
5	256QAM	1	24	17.23	17.35	17.20		
5	256QAM	12	0	17.38	17.54	17.43	19.2	0
5	256QAM	12	7	17.32	17.39	17.26		
5	256QAM	12	13	17.21	17.32	17.24		
5	256QAM	25	0	17.35	17.52	17.52		

Band 41 PC3 FCC&IC DS12_Standalone Ant 2

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)				39750	40185	40600	41055	41460
20	QPSK	1	0	17.76	17.83	17.93	24.73	17.70
20	QPSK	1	49	17.68	17.73	17.78	17.67	17.73
20	QPSK	1	99	17.72	17.80	17.74	17.71	17.68
20	QPSK	50	0	17.69	17.63	17.60	17.77	17.69
20	QPSK	50	24	17.54	17.54	17.70	17.56	17.66
20	QPSK	50	50	17.63	17.58	17.58	17.58	17.66
20	QPSK	100	0	17.65	17.61	17.66	17.58	17.67
20	16QAM	1	0	17.73	17.69	17.77	17.62	17.67
20	16QAM	1	49	17.61	17.58	17.69	17.42	17.67
20	16QAM	1	99	17.64	17.64	17.56	17.56	17.66
20	16QAM	50	0	17.66	17.59	17.71	17.57	17.66
20	16QAM	50	24	17.52	17.54	17.69	17.56	17.65
20	16QAM	50	50	17.62	17.61	17.63	17.62	17.64
20	16QAM	100	0	17.68	17.64	17.65	17.50	17.62
20	16QAM	1	0	17.41	17.53	17.67	17.55	17.47
20	16QAM	1	49	17.51	17.56	17.65	17.58	17.53
20	16QAM	1	99	17.54	17.60	17.74	17.52	17.66
20	16QAM	50	0	17.65	17.63	17.68	17.62	17.62
20	16QAM	50	24	17.63	17.49	17.65	17.54	17.51
20	16QAM	50	50	17.69	17.48	17.58	17.52	17.63
20	16QAM	100	0	17.63	17.59	17.59	17.54	17.63
20	256QAM	1	0	17.35	17.44	17.61	17.45	17.44
20	256QAM	1	49	17.46	17.49	17.57	17.49	17.63
20	256QAM	1	99	17.45	17.59	17.71	17.48	17.56
20	256QAM	50	0	17.68	17.66	17.67	17.64	17.64
20	256QAM	50	24	17.48	17.41	17.57	17.50	17.42
20	256QAM	50	50	17.45	17.39	17.52	17.44	17.45
20	256QAM	100	0	17.59	17.52	17.51	17.38	17.58
Channel								
Frequency (MHz)								



Band 41 PC2 FCC&IC DS12_ Standalone Ant 2

RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-Up Int (dBm)	MPR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	19.25	19.47	19.52	19.55	19.51	19.51	20.8	0
20	QPSK	1	49	19.44	19.26	19.52	19.37	19.45	19.45	20.8	0
20	QPSK	50	0	19.36	19.32	19.46	19.41	19.38	19.38	20.8	0
20	QPSK	50	24	19.42	19.40	19.50	19.45	19.28	19.28	20.8	0
20	QPSK	50	74	19.51	19.31	19.45	19.38	19.50	19.50	20.8	0
20	QPSK	100	0	19.30	19.31	19.51	19.39	19.45	19.45	20.8	0
20	16QAM	1	0	19.43	19.30	19.43	19.33	19.32	19.32	20.8	0
20	16QAM	1	49	19.40	19.43	19.44	19.41	19.46	19.46	20.8	0
20	16QAM	1	99	19.42	19.37	19.38	19.34	19.43	19.43	20.8	0
20	16QAM	50	0	19.36	19.29	19.44	19.37	19.30	19.30	20.8	0
20	16QAM	50	24	19.45	19.29	19.47	19.30	19.42	19.42	20.8	0
20	16QAM	50	50	19.47	19.42	19.50	19.46	19.35	19.35	20.8	0
20	16QAM	100	0	19.38	19.21	19.46	19.29	19.41	19.41	20.8	0
20	16QAM	100	0	19.43	19.22	19.45	19.35	19.31	19.31	20.8	0
20	16QAM	100	49	19.49	19.41	19.51	19.28	19.55	19.55	20.8	0
20	16QAM	100	0	19.37	19.34	19.34	19.40	19.60	19.60	20.8	0
20	16QAM	50	0	19.42	19.20	19.45	19.45	19.39	19.39	20.8	0
20	16QAM	50	24	19.43	19.42	19.35	19.27	19.33	19.33	20.8	0
20	16QAM	50	50	19.49	19.34	19.54	19.24	19.45	19.45	20.8	0
20	16QAM	100	0	19.47	19.38	19.47	19.38	19.37	19.37	20.8	0
20	16QAM	100	0	19.40	19.28	19.49	19.44	19.38	19.38	20.8	0
20	16QAM	100	49	19.38	19.38	19.33	19.20	19.48	19.48	20.8	0
20	256QAM	1	0	19.37	19.23	19.42	19.45	19.34	19.34	20.8	0
20	256QAM	1	49	19.41	19.30	19.42	19.38	19.44	19.44	20.8	0
20	256QAM	50	0	19.51	19.32	19.42	19.31	19.40	19.40	20.8	0
20	256QAM	50	24	19.48	19.23	19.51	19.23	19.34	19.34	20.8	0
20	256QAM	100	0	19.41	19.35	19.35	19.35	19.32	19.32	20.8	0
Channel											
Frequency (MHz)											
15	QPSK	1	0	19.40	19.35	19.39	19.23	19.43	19.43	20.8	0
15	QPSK	1	37	19.32	19.16	19.49	19.28	19.41	19.41	20.8	0
15	QPSK	1	74	19.28	19.24	19.43	19.24	19.30	19.30	20.8	0
15	QPSK	36	0	19.30	19.34	19.42	19.42	19.41	19.41	20.8	0
15	QPSK	36	20	19.37	19.36	19.38	19.32	19.40	19.40	20.8	0
15	QPSK	75	0	19.28	19.22	19.46	19.28	19.38	19.38	20.8	0
15	16QAM	1	0	19.34	19.21	19.39	19.22	19.20	19.20	20.8	0
15	16QAM	1	37	19.27	19.36	19.46	19.26	19.46	19.46	20.8	0
15	16QAM	1	74	19.38	19.25	19.30	19.21	19.32	19.32	20.8	0
15	16QAM	36	0	19.23	19.19	19.38	19.27	19.46	19.46	20.8	0
15	16QAM	36	20	19.41	19.32	19.38	19.22	19.38	19.38	20.8	0
15	16QAM	36	39	19.41	19.32	19.45	19.37	19.29	19.29	20.8	0
15	16QAM	75	0	19.34	19.12	19.43	19.23	19.35	19.35	20.8	0
15	16QAM	75	0	19.40	19.19	19.39	19.30	19.39	19.39	20.8	0
15	16QAM	1	37	19.39	19.38	19.48	19.28	19.51	19.51	20.8	0
15	16QAM	1	74	19.30	19.25	19.38	19.20	19.36	19.36	20.8	0
15	16QAM	36	0	19.40	19.15	19.39	19.40	19.34	19.34	20.8	0
15	16QAM	36	20	19.29	19.34	19.23	19.18	19.23	19.23	20.8	0
15	16QAM	36	39	19.41	19.34	19.44	19.27	19.46	19.46	20.8	0
15	16QAM	75	0	19.45	19.34	19.45	19.25	19.30	19.30	20.8	0
15	256QAM	1	0	19.35	19.21	19.39	19.30	19.33	19.33	20.8	0
15	256QAM	1	37	19.33	19.30	19.45	19.25	19.48	19.48	20.8	0
15	256QAM	1	74	19.32	19.13	19.38	19.30	19.30	19.30	20.8	0
15	256QAM	36	0	19.41	19.13	19.41	19.23	19.21	19.21	20.8	0
15	256QAM	36	20	19.43	19.24	19.35	19.20	19.32	19.32	20.8	0
15	256QAM	36	39	19.46	19.16	19.43	19.12	19.22	19.22	20.8	0
15	256QAM	75	0	19.36	19.25	19.37	19.26	19.42	19.42	20.8	0
Channel											
Frequency (MHz)											
10	QPSK	1	0	19.46	19.41	19.45	19.23	19.43	19.43	20.8	0
10	QPSK	1	25	19.41	19.13	19.45	19.34	19.32	19.32	20.8	0
10	QPSK	1	49	19.28	19.24	19.43	19.31	19.32	19.32	20.8	0
10	QPSK	25	0	19.28	19.38	19.42	19.42	19.41	19.41	20.8	0
10	QPSK	25	12	19.31	19.34	19.38	19.27	19.40	19.40	20.8	0
10	QPSK	25	25	19.42	19.28	19.35	19.26	19.35	19.35	20.8	0
10	16QAM	1	0	19.27	19.22	19.38	19.24	19.41	19.41	20.8	0
10	16QAM	1	0	19.34	19.24	19.29	19.29	19.20	19.20	20.8	0
10	16QAM	1	25	19.27	19.31	19.36	19.16	19.37	19.37	20.8	0
10	16QAM	1	49	19.37	19.33	19.38	19.20	19.39	19.39	20.8	0
10	16QAM	25	0	19.34	19.22	19.35	19.29	19.44	19.44	20.8	0
10	16QAM	25	12	19.35	19.23	19.41	19.29	19.21	19.21	20.8	0
10	16QAM	25	25	19.38	19.40	19.41	19.25	19.28	19.28	20.8	0
10	16QAM	50	0	19.33	19.17	19.43	19.28	19.37	19.37	20.8	0
10	16QAM	50	0	19.29	19.11	19.43	19.20	19.28	19.28	20.8	0
10	16QAM	1	0	19.40	19.29	19.38	19.20	19.52	19.52	20.8	0
10	16QAM	1	25	19.31	19.22	19.24	19.45	19.27	19.27	20.8	0
10	16QAM	25	0	19.34	19.17	19.36	19.42	19.27	19.27	20.8	0
10	16QAM	25	12	19.39	19.29	19.32	19.16	19.30	19.30	20.8	0
10	16QAM	25	25	19.45	19.27	19.47	19.18	19.41	19.41	20.8	0
10	16QAM	50	0	19.37	19.32	19.35	19.27	19.30	19.30	20.8	0
10	256QAM	1	0	19.30	19.15	19.44	19.38	19.34	19.34	20.8	0
10	256QAM	1	25	19.29	19.30	19.44	19.26	19.37	19.37	20.8	0
10	256QAM	1	49	19.27	19.12	19.39	19.30	19.28	19.28	20.8	0
10	256QAM	25	0	19.37	19.18	19.39	19.27	19.21	19.21	20.8	0
10	256QAM	25	12	19.48	19.30	19.34	19.27	19.30	19.30	20.8	0
10	256QAM	25	25	19.42	19.24	19.42	19.12	19.31	19.31	20.8	0
10	256QAM	50	0	19.38	19.27	19.31	19.38	19.35	19.35	20.8	0
Channel											
Frequency (MHz)											
5	QPSK	1	0	19.46	19.41	19.50	19.18	19.46	19.46	20.8	0
5	QPSK	1	12	19.30	19.13	19.42	19.27	19.40	19.40	20.8	0
5	QPSK	1	24	19.20	19.25	19.34	19.30	19.35	19.35	20.8	0
5	QPSK	12	0	19.30	19.29	19.46	19.26	19.18	19.18	20.8	0
5	QPSK	12	7	19.29	19.28	19.43	19.25	19.38	19.38	20.8	0
5	QPSK	12	19	19.41	19.27	19.32	19.28	19.30	19.30	20.8	0
5	QPSK	25	0	19.29	19.21	19.46	19.29	19.35	19.35	20.8	0
5	QPSK	25	0	19.40	19.22	19.31	19.23	19.20	19.20	20.8	0
5	16QAM	1	12	19.29	19.35	19.32	19.22	19.39	19.39	20.8	0
5	16QAM	1	24	19.31	19.33	19.27	19.25	19.38	19.38	20.8	0
5	16QAM	12	0	19.30	19.16	19.35	19.26	19.45	19.45	20.8	0
5	16QAM	12	7	19.36	19.18	19.44	19.21	19.24	19.24	20.8	0
5	16QAM	12	13	19.39	19.29	19.47	19.43	19.27	19.27	20.8	0
5	16QAM	25	0	19.25	19.17	19.45	19.21	19.30	19.30	20.8	0
5	16QAM	1	0	19.32	19.10	19.44	19.30	19.27	19.27	20.8	0
5	16QAM	1	12								



OSM 1900 Act		OSG Summary							
	Band	Frequency	Bandwidth	Time/Up	Time/Down	Power (dBm)	Time/Up	Time/Down	Power (dBm)
TX Channel	812	861	810	Limit	812	861	810	Limit	
Frequency (MHz)	2812	2813	2814	(MHz)	2812	2813	2814	(MHz)	
OSM 1 Tx Wd	28.13	28.81	28.87	29.10	19.73	19.81	19.87	20.10	
OSM 1 Tx Wd	28.84	28.70	28.88	29.10	19.84	19.70	19.88	20.10	
OSM 2 Tx Wd	24.97	25.00	24.98	24.10	18.97	19.00	18.98	20.10	
OSM 3 Tx Wd	22.72	22.81	22.70	24.50	18.48	18.50	18.44	20.04	
OSM 4 Tx Wd	21.80	21.31	21.72	23.10	18.60	18.78	18.72	20.01	
EDGE 1 Tx Wd	23.86	25.13	24.99	26.00	18.06	18.13	18.09	17.60	
EDGE 2 Tx Wd	25.33	24.43	24.49	24.40	17.33	17.43	17.48	18.00	
EDGE 3 Tx Wd	22.21	22.25	22.20	23.50	17.95	18.00	17.95	19.24	
EDGE 4 Tx Wd	20.13	20.18	20.08	21.00	17.13	17.18	17.08	18.00	
		OSG Summary WCDMA 1 (MHz)				OSG Summary WCDMA 1 (MHz)			
Band	812	860	810	Time/Up	812	860	810	Time/Up	
Rx Channel	862	860	868	Limit	862	860	868	Limit	
Frequency (MHz)	1812	1800	1812	(MHz)	1812	1800	1812	(MHz)	
SOPP Rel (9)	17.02	17.02	17.02	19.00	18.24	18.24	18.24	20.70	
SOPP Rel (9)	17.81	17.02	17.83	19.00	18.34	18.45	18.37	20.70	
SOPP Rel 8	18.05	17.70	17.03	18.00	18.30	18.44	18.47	19.70	
SOPP Rel 6	17.86	17.12	17.05	18.00	18.33	18.52	18.24	19.70	
SOPP Rel 5	16.57	16.54	16.43	18.00	18.21	17.90	17.60	19.20	
SOPP Rel 4	16.40	16.60	16.52	18.40	17.81	17.04	17.93	18.20	
SOPP Rel 3	16.05	17.00	16.95	18.00	18.34	18.52	18.36	19.70	
SOPP Rel 2	16.95	17.00	17.00	18.00	18.32	18.53	18.44	19.70	
SOPP Rel 1	18.48	18.48	18.45	18.40	17.81	17.80	17.89	19.20	
SOPP Rel 0	16.44	16.21	16.44	18.40	17.71	17.00	17.71	18.00	
SOPP Rel 5	17.83	17.19	18.92	18.00	18.44	18.62	18.33	19.30	
SOPP Rel 4	16.13	16.00	16.13	18.00	18.55	18.44	18.44	19.20	
SOPP Rel 3	16.11	16.01	16.05	17.00	17.49	17.40	17.38	18.10	
SOPP Rel 2	14.93	15.14	15.13	18.00	18.27	18.67	18.43	19.70	
SOPP Rel 1	16.93	16.92	16.92	18.00	18.31	18.32	18.28	19.70	



Band 2 DS12_Standalone Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power High Ch./Freq.	Power Low Ch./Freq.	Turn-up limit (dB)	MFR (dB)		
Channel										
	Frequency (MHz)			1860	1880	1900				
20	QPSK	1	0	18.10	18.10	18.15				
20	QPSK	1	49	18.03	18.11	18.07	19.8	0		
20	QPSK	50	0	18.02	18.10	18.09				
20	QPSK	50	24	17.88	18.07	17.82				
20	QPSK	50	50	17.91	17.99	17.82	19.8	0		
20	QPSK	100	0	17.98	18.01	17.99				
20	HQAM	1	0	18.01	18.08	17.99				
20	HQAM	1	49	17.93	17.96	17.88	19.8	0		
20	HQAM	1	99	17.96	17.98	17.88				
20	HQAM	50	0	17.98	18.05	17.99				
20	HQAM	50	24	17.90	18.05	17.93	19.8	0		
20	HQAM	50	50	17.95	18.10	17.96				
20	HQAM	100	0	17.97	17.99	17.91				
20	HQAM	1	0	17.88	17.96	17.85				
20	HQAM	1	49	17.92	17.98	17.86	19.8	0		
20	HQAM	1	99	17.95	17.97	17.86				
20	HQAM	50	0	17.97	18.03	17.96				
20	HQAM	50	24	17.92	17.98	17.82	19.8	0		
20	HQAM	50	50	17.93	17.91	17.89				
20	HQAM	100	0	17.97	17.96	17.82				
20	HQAM	1	0	17.76	17.85	17.88				
20	HQAM	1	49	17.76	17.84	17.83	19.8	0		
20	HQAM	1	99	17.75	17.85	17.83				
20	HQAM	50	0	17.83	17.86	17.82				
20	HQAM	50	24	17.82	17.83	17.89	19.8	0		
20	HQAM	50	50	17.82	17.88	17.82				
20	HQAM	100	0	17.87	17.88	17.82				
20	HQAM	1	0	17.65	17.76	17.88				
20	HQAM	1	49	17.76	17.84	17.83	19.8	0		
20	HQAM	1	99	17.75	17.85	17.83				
20	HQAM	50	0	17.83	17.86	17.82				
20	HQAM	50	24	17.82	17.83	17.89	19.8	0		
20	HQAM	50	50	17.82	17.88	17.82				
20	HQAM	100	0	17.87	17.87	17.82				
20	HQAM	1	0	17.67	17.79	17.88				
20	HQAM	1	49	17.77	17.85	17.89	19.8	0		
20	HQAM	1	99	17.76	17.86	17.89				
20	HQAM	50	0	17.84	17.87	17.83				
20	HQAM	50	24	17.82	17.83	17.79	19.8	0		
20	HQAM	50	50	17.82	17.87	17.88				
20	HQAM	100	0	17.87	17.87	17.88				
20	HQAM	1	0	17.65	17.76	17.88				
20	HQAM	1	49	17.76	17.84	17.83	19.8	0		
20	HQAM	1	99	17.75	17.85	17.83				
20	HQAM	50	0	17.83	17.86	17.82				
20	HQAM	50	24	17.82	17.83	17.79	19.8	0		
20	HQAM	50	50	17.82	17.87	17.88				
20	HQAM	100	0	17.87	17.87	17.88				
20	HQAM	1	0	17.65	17.76	17.88				
20	HQAM	1	49	17.76	17.84	17.83	19.8	0		
20	HQAM	1	99	17.75	17.85	17.83				
20	HQAM	50	0	17.83	17.86	17.82				
20	HQAM	50	24	17.82	17.83	17.79	19.8	0		
20	HQAM	50	50	17.82	17.87	17.88				
20	HQAM	100	0	17.87	17.87	17.88				
20	HQAM	1	0	17.65	17.76	17.88				
20	HQAM	1	49	17.76	17.84	17.83	19.8	0		
20	HQAM	1	99	17.75	17.85	17.83				
20	HQAM	50	0	17.83	17.86	17.82				
20	HQAM	50	24	17.82	17.83	17.79	19.8	0		
20	HQAM	50	50	17.82	17.87	17.88				
20	HQAM	100	0	17.87	17.87	17.88				
20	HQAM	1	0	17.65	17.76	17.88				
20	HQAM	1	49	17.76	17.84	17.83	19.8	0		
20	HQAM	1	99	17.75	17.85	17.83				
20	HQAM	50	0	17.83	17.86	17.82				
20	HQAM	50	24	17.82	17.83	17.79	19.8	0		
20	HQAM	50	50	17.82	17.87	17.88				
20	HQAM	100	0	17.87	17.87	17.88				
20	HQAM	1	0	17.65	17.76	17.88				
20	HQAM	1	49	17.76	17.84	17.83	19.8	0		
20	HQAM	1	99	17.75	17.85	17.83				
20	HQAM	50	0	17.83	17.86	17.82				
20	HQAM	50	24	17.82	17.83	17.79	19.8	0		
20	HQAM	50	50	17.82	17.87	17.88				
20	HQAM	100	0	17.87	17.87	17.88				
20	HQAM	1	0	17.65	17.76	17.88				
20	HQAM	1	49	17.76	17.84	17.83	19.8	0		
20	HQAM	1	99	17.75	17.85	17.83				
20	HQAM	50	0	17.83	17.86	17.82				
20	HQAM	50	24	17.82	17.83	17.79	19.8	0		
20	HQAM	50	50	17.82	17.87	17.88				
20	HQAM	100	0	17.87	17.87	17.88				
20	HQAM	1	0	17.65	17.76	17.88				
20	HQAM	1	49	17.76	17.84	17.83	19.8	0		
20	HQAM	1	99	17.75	17.85	17.83				
20	HQAM	50	0	17.83	17.86	17.82				
20	HQAM	50	24	17.82	17.83	17.79	19.8	0		
20	HQAM	50	50	17.82	17.87	17.88				
20	HQAM	100	0	17.87	17.87	17.88				
20	HQAM	1	0	17.65	17.76	17.88				
20	HQAM	1	49	17.76	17.84	17.83	19.8	0		
20	HQAM	1	99	17.75	17.85	17.83				
20	HQAM	50	0	17.83	17.86	17.82				
20	HQAM	50	24	17.82	17.83	17.79	19.8	0		
20	HQAM	50	50	17.82	17.87	17.88				
20	HQAM	100	0	17.87	17.87	17.88				
20	HQAM	1	0	17.65	17.76	17.88				
20	HQAM	1	49	17.76	17.84	17.83	19.8	0		
20	HQAM	1	99	17.75	17.85	17.83				
20	HQAM	50	0	17.83	17.86	17.82				
20	HQAM	50	24	17.82	17.83	17.79	19.8	0		
20	HQAM	50	50	17.82	17.87	17.88				
20	HQAM	100	0	17.87	17.87	17.88				
20	HQAM	1	0	17.65	17.76	17.88				
20	HQAM	1	49	17.76	17.84	17.83	19.8	0		
20	HQAM	1	99	17.75	17.85	17.83				
20	HQAM	50	0	17.83	17.86	17.82				
20	HQAM	50	24	17.82	17.83	17.79	19.8	0		
20	HQAM	50	50	17.82	17.87	17.88				
20	HQAM	100	0	17.87	17.87	17.88				
20	HQAM	1	0	17.65	17.76	17.88				
20	HQAM	1	49	17.76	17.84	17.83	19.8	0		
20	HQAM	1	99	17.75	17.85	17.83				
20	HQAM	50	0	17.83	17.86	17.82				
20	HQAM	50	24	17.82	17.83	17.79	19.8	0		
20	HQAM	50	50	17.82	17.87	17.88				
20	HQAM	100	0	17.87	17.87	17.88				
20	HQAM	1	0	17.65	17.76	17.88				
20	HQAM	1	49	17.76	17.84	17.83	19.8	0		
20	HQAM	1	99	17.75	17.85	17.83				
20	HQAM	50	0	17.83	17.86	17.82				
20	HQAM	50	24	17.82	17.83	17.79	19.8	0		
20	HQAM	50	50	17.82	17.87	17.88				
20	HQAM	100	0	17.87	17.87	17.88				
20	HQAM	1	0	17.65	17.76	17.88				
20	HQAM	1	49	17.76	17.84	17.83	19.8	0		
20	HQAM	1	99	17.75	17.85	17.83				
20	HQAM	50	0	17.83	17.86	17.82				
20	HQAM									



Band 25 DS12_ Standalone Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up limit (min)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.21	18.23	18.27	19.6	0		
20	QPSK	1	49	18.13	18.18	18.16	19.6	0		
20	QPSK	50	0	18.04	18.24	18.18	19.6	0		
20	QPSK	50	24	17.95	18.24	18.24	19.6	0		
20	QPSK	50	50	18.03	18.11	17.92	19.6	0		
20	QPSK	100	0	18.06	18.10	18.06	19.6	0		
20	16QAM	1	0	18.13	18.15	18.05	19.6	0		
20	16QAM	1	49	18.03	18.04	17.89	19.6	0		
20	16QAM	1	99	18.15	18.14	18.02	19.6	0		
20	16QAM	50	0	18.09	18.09	18.07	19.6	0		
20	16QAM	50	24	18.01	18.07	18.06	19.6	0		
20	16QAM	50	50	18.12	18.18	18.06	19.6	0		
20	16QAM	100	0	17.92	18.02	17.98	19.6	0		
20	16QAM	1	0	17.90	18.10	18.00	19.6	0		
20	16QAM	1	49	17.98	18.16	18.02	19.6	0		
20	16QAM	50	0	18.00	18.16	18.07	19.6	0		
20	16QAM	50	0	17.97	18.17	18.06	19.6	0		
20	16QAM	50	24	17.94	18.08	18.05	19.6	0		
20	16QAM	50	50	17.96	18.08	17.95	19.6	0		
20	16QAM	100	0	18.00	18.00	18.07	19.6	0		
20	256QAM	1	49	17.94	18.11	17.97	19.6	0		
20	256QAM	1	99	17.95	18.04	17.94	19.6	0		
20	256QAM	50	0	17.88	18.00	17.92	19.6	0		
20	256QAM	50	24	17.93	18.04	17.90	19.6	0		
20	256QAM	50	50	17.77	17.86	17.92	19.6	0		
20	256QAM	100	0	17.82	17.92	17.84	19.6	0		
Channel										
Frequency (MHz)										
19	QPSK	1	0	18.12	18.22	18.19	19.6	0		
19	QPSK	1	37	18.09	18.10	18.03	19.6	0		
19	QPSK	1	74	17.99	18.10	18.03	19.6	0		
19	QPSK	36	0	17.96	18.14	18.05	19.6	0		
19	QPSK	36	20	17.83	18.15	17.92	19.6	0		
19	QPSK	36	39	17.95	18.01	17.78	19.6	0		
19	QPSK	75	0	18.03	18.09	17.87	19.6	0		
19	16QAM	1	0	18.00	18.00	17.93	19.6	0		
19	16QAM	1	37	17.92	17.94	17.79	19.6	0		
19	16QAM	1	74	18.00	18.00	17.93	19.6	0		
19	16QAM	36	20	17.93	17.97	17.95	19.6	0		
19	16QAM	36	20	17.86	18.00	17.92	19.6	0		
19	16QAM	75	0	17.78	17.98	17.83	19.6	0		
19	16QAM	1	0	17.78	18.01	17.88	19.6	0		
19	16QAM	1	37	17.88	18.00	17.87	19.6	0		
19	16QAM	1	74	17.92	18.05	17.92	19.6	0		
19	16QAM	36	0	17.90	18.13	17.99	19.6	0		
19	16QAM	36	20	17.96	18.08	17.95	19.6	0		
19	16QAM	36	39	17.83	18.03	17.83	19.6	0		
19	16QAM	75	0	18.03	18.00	17.83	19.6	0		
19	256QAM	1	37	17.80	18.03	17.82	19.6	0		
19	256QAM	1	74	17.87	17.94	17.85	19.6	0		
19	256QAM	50	0	17.88	17.98	17.83	19.6	0		
19	256QAM	50	24	17.89	17.95	17.79	19.6	0		
19	256QAM	50	39	17.88	17.74	17.83	19.6	0		
19	256QAM	75	0	17.78	17.84	17.78	19.6	0		
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.11	18.24	18.13	19.6	0		
20	QPSK	1	25	18.02	18.05	17.96	19.6	0		
20	QPSK	1	49	18.07	18.07	18.13	19.6	0		
20	QPSK	12	0	18.00	18.00	18.13	19.6	0		
20	QPSK	25	12	17.92	18.10	17.95	19.6	0		
20	QPSK	25	25	17.96	18.03	17.84	19.6	0		
20	QPSK	50	0	18.00	18.00	18.00	19.6	0		
20	16QAM	1	0	18.03	18.05	17.94	19.6	0		
20	16QAM	1	24	17.91	17.98	17.84	19.6	0		
20	16QAM	1	49	18.00	18.00	17.97	19.6	0		
20	16QAM	25	0	17.98	18.14	18.03	19.6	0		
20	16QAM	25	12	17.95	17.93	17.96	19.6	0		
20	16QAM	50	0	18.00	18.00	18.00	19.6	0		
20	16QAM	50	0	17.81	18.00	17.83	19.6	0		
20	16QAM	1	0	17.78	17.95	17.87	19.6	0		
20	16QAM	1	24	17.88	18.00	17.83	19.6	0		
20	16QAM	1	49	17.88	18.05	17.85	19.6	0		
20	16QAM	25	0	17.92	18.04	18.02	19.6	0		
20	16QAM	25	12	17.92	17.96	17.81	19.6	0		
20	16QAM	50	0	18.01	17.95	17.87	19.6	0		
20	16QAM	50	0	17.86	18.00	17.87	19.6	0		
20	16QAM	50	24	17.85	18.05	17.88	19.6	0		
20	256QAM	1	49	17.84	17.91	17.91	19.6	0		
20	256QAM	12	0	17.88	17.98	17.83	19.6	0		
20	256QAM	25	12	17.89	17.89	17.77	19.6	0		
20	256QAM	25	25	17.74	17.72	17.79	19.6	0		
20	256QAM	50	0	17.77	17.84	17.78	19.6	0		
Channel										
Frequency (MHz)										
5	QPSK	1	0	18.08	18.24	18.13	19.6	0		
5	QPSK	1	12	18.00	18.06	18.06	19.6	0		
5	QPSK	1	24	18.07	18.41	18.45	19.6	0		
5	QPSK	12	0	18.28	18.34	18.32	19.6	0		
5	QPSK	12	7	18.25	18.40	18.21	19.6	0		
5	QPSK	12	13	18.04	18.33	18.03	19.6	0		
5	QPSK	25	0	18.22	18.37	18.24	19.6	0		
5	16QAM	1	0	18.14	18.20	18.25	19.6	0		
5	16QAM	1	12	18.29	18.25	18.12	19.6	0		
5	16QAM	12	0	18.24	18.33	18.28	19.6	0		
5	16QAM	12	7	18.19	18.41	18.15	19.6	0		
5	16QAM	25	0	18.33	18.28	18.14	19.6	0		
5	16QAM	1	0	18.19	18.19	18.22	19.6	0		
5	16QAM	1	0	18.14	18.25	18.28	19.6	0		
5	16QAM	1	24	18.25	18.32	18.27	19.6	0		
5	16QAM	12	0	18.16	18.24	18.19	19.6	0		
5	16QAM	12	7	18.11	18.30	18.18	19.6	0		
5	16QAM	25	0	18.15	18.21	18.02	19.6	0		
5	16QAM	25	13	18.15	18.21	18.02	19.6	0		
5	16QAM	25	0	18.27	18.28	18.16	19.6	0		
5	16QAM	50	0	18.14	18.18	18.23	19.6	0		
5	16QAM	1	12	18.12	18.24	18.14	19.6	0		
5	256QAM	1	24	18.09	18.18	18.20	19.6	0		
5	256QAM	12	0	18.05	18.11	18.05	19.6	0		
5	256QAM	12	7	18.04	18.02	17.98	19.6	0		
5	256QAM	12	13	17.98	18.06	18.01	19.6	0		
5	256QAM	25	0	18.00	18.03	18.10	19.6	0		
Channel										
Frequency (MHz)										
19	QPSK	1	0	18.05	18.20	18.10	19.6	0		
19	QPSK	1	25	18.02	18.05	17.96	19.6	0		
19	QPSK	1	49	18.07	18.07	18.13	19.6	0		
19	QPSK	12	0	18.00	18.00	18.13	19.6	0		
19	QPSK	25	12	17.92	18.10	17.95	19.6	0		
19	QPSK	25	25	17.96	18.03	17.84	19.6	0		
19	QPSK	50	0	18.00	18.00	18.00	19.6	0		
19	16QAM	1	0	18.03	18.05	17.94	19.6	0		
19	16QAM	1	24	17.91	17.98	17.84	19.6	0		
19	16QAM	1	49	18.00	18.00	17.97	19.6	0		
19	16QAM	25	0	17.98	18.14	18.03	19.6	0		
19	16QAM	25	12	17.95	17.93	17.96	19.6	0		
19	16QAM	50	0	18.00	18.00	18.00	19.6	0		
19	16QAM	50	0	17.81	18.00	17.83	19.6	0		



Band 38 FCC&IC DSI2_Standalone Ant 3										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	19.54	19.66	19.49	21.1	0		
20	QPSK	1	49	19.52	19.39	19.61				
20	QPSK	1	99	19.53	19.48	19.52				
20	QPSK	50	0	19.46	19.53	19.39				
20	QPSK	50	24	19.23	19.48	19.48	21.1	0		
20	QPSK	50	50	19.25	19.44	19.38				
20	QPSK	100	0	19.28	19.42	19.41				
20	16QAM	1	0	19.46	19.51	19.43				
20	16QAM	1	49	19.29	19.55	19.22	21.1	0		
20	16QAM	1	99	19.40	19.55	19.33				
20	16QAM	50	0	19.34	19.39	19.34				
20	16QAM	50	24	19.38	19.50	19.24				
20	16QAM	50	50	19.48	19.28	19.30	21.1	0		
20	16QAM	100	0	19.36	19.27	19.37				
20	64QAM	1	0	19.39	19.51	19.16				
20	64QAM	1	49	19.28	19.46	19.35				
20	64QAM	1	99	19.51	19.51	19.32	21.1	0		
20	64QAM	50	0	19.39	19.48	19.36				
20	64QAM	50	24	19.45	19.38	19.27				
20	64QAM	50	50	19.49	19.63	19.17				
20	64QAM	100	0	19.42	19.45	19.37	21.1	0		
20	256QAM	1	0	19.56	19.49	19.34				
20	256QAM	1	49	19.30	19.41	19.43				
20	256QAM	1	99	19.45	19.41	19.45				
20	256QAM	50	0	19.41	19.56	19.09	20.5	0.6		
20	256QAM	50	24	19.39	19.52	19.26				
20	256QAM	50	50	19.32	19.35	19.24				
20	256QAM	100	0	19.25	19.24	19.25				
Channel				37825	38000	38175				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	19.51	19.58	19.39	21.1	0		
15	QPSK	1	37	19.44	19.35	19.58				
15	QPSK	1	74	19.49	19.38	19.43				
15	QPSK	36	0	19.44	19.49	19.37				
15	QPSK	36	20	19.17	19.41	19.44	21.1	0		
15	QPSK	36	39	19.16	19.34	19.31				
15	QPSK	75	0	19.19	19.34	19.36				
15	16QAM	1	0	19.37	19.44	19.34				
15	16QAM	1	37	19.26	19.52	19.19	21.1	0		
15	16QAM	1	74	19.36	19.47	19.30				
15	16QAM	36	0	19.31	19.30	19.27				
15	16QAM	36	20	19.29	19.44	19.16				
15	16QAM	36	39	19.40	19.25	19.20	21.1	0		
15	16QAM	75	0	19.30	19.23	19.33				
15	64QAM	1	0	19.33	19.44	19.12				
15	64QAM	1	37	19.22	19.38	19.30				
15	64QAM	1	74	19.49	19.42	19.28	21.1	0		
15	64QAM	36	0	19.34	19.43	19.27				
15	64QAM	36	20	19.38	19.29	19.23				
15	64QAM	36	39	19.44	19.54	19.13				
15	64QAM	75	0	19.34	19.42	19.32	20.5	0.6		
15	256QAM	1	0	19.53	19.46	19.25				
15	256QAM	1	37	19.23	19.38	19.33				
15	256QAM	1	74	19.40	19.36	19.40				
15	256QAM	36	0	19.31	19.49	19.07	20.5	0.6		
15	256QAM	36	20	19.34	19.49	19.20				
15	256QAM	36	39	19.27	19.31	19.15				
15	256QAM	75	0	19.20	19.20	19.22				
Channel				37800	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	19.50	19.61	19.39	21.1	0		
10	QPSK	1	25	19.47	19.34	19.52				
10	QPSK	1	49	19.50	19.42	19.49				
10	QPSK	25	0	19.40	19.46	19.35				
10	QPSK	25	12	19.16	19.41	19.40	21.1	0		
10	QPSK	25	25	19.19	19.35	19.28				
10	QPSK	50	0	19.23	19.35	19.35				
10	16QAM	1	0	19.38	19.49	19.41				
10	16QAM	1	25	19.26	19.49	19.17	21.1	0		
10	16QAM	1	49	19.34	19.48	19.23				
10	16QAM	25	0	19.29	19.35	19.26				
10	16QAM	25	12	19.35	19.41	19.15				
10	16QAM	25	25	19.40	19.19	19.25	21.1	0		
10	16QAM	50	0	19.31	19.18	19.32				
10	64QAM	1	0	19.31	19.46	19.11				
10	64QAM	1	25	19.24	19.37	19.33				
10	64QAM	1	49	19.46	19.42	19.23	21.1	0		
10	64QAM	25	0	19.29	19.39	19.27				
10	64QAM	25	12	19.39	19.32	19.20				
10	64QAM	25	25	19.43	19.57	19.12				
10	64QAM	50	0	19.38	19.39	19.29	20.5	0.6		
10	256QAM	1	0	19.53	19.45	19.32				
10	256QAM	1	25	19.24	19.34	19.33				
10	256QAM	1	49	19.40	19.35	19.36				
10	256QAM	25	0	19.31	19.50	19.04	20.5	0.6		
10	256QAM	25	12	19.37	19.46	19.21				
10	256QAM	25	25	19.26	19.31	19.21				
10	256QAM	50	0	19.19	19.17	19.20				
Channel				37775	38000	38225				
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	19.51	19.59	19.44	21.1	0		
5	QPSK	1	12	19.44	19.31	19.59				
5	QPSK	1	24	19.50	19.43	19.48				
5	QPSK	12	0	19.40	19.43	19.30				
5	QPSK	12	7	19.19	19.46	19.41	21.1	0		
5	QPSK	12	13	19.21	19.36	19.29				
5	QPSK	25	0	19.26	19.39	19.34				
5	16QAM	1	0	19.40	19.44	19.40				
5	16QAM	1	12	19.20	19.47	19.17	21.1	0		
5	16QAM	1	24	19.37	19.45	19.26				
5	16QAM	12	0	19.26	19.29	19.26				
5	16QAM	12	7	19.34	19.47	19.16				
5	16QAM	12	13	19.40	19.22	19.24	21.1	0		
5	16QAM	25	0	19.31	19.24	19.28				
5	64QAM	1	0	19.34	19.45	19.15				
5	64QAM	1	12	19.22	19.41	19.25				
5	64QAM	1	24	19.49	19.47	19.27	21.1	0		
5	64QAM	12	0	19.31	19.38	19.28				
5	64QAM	12	7	19.38	19.30	19.24				
5	64QAM	12	13	19.41	19.59	19.15				
5	64QAM	25	0	19.33	19.40	19.29	21.1	0		
5	256QAM	1	0	19.50	19.46	19.31				
5	256QAM	1	12	19.25	19.35	19.37				
5	256QAM	1	24	19.41	19.37	19.36				
5	256QAM	12	0	19.35	19.52	19.02	20.5	0.6		
5	256QAM	12	7	19.36	19.46	19.17				
5	256QAM	12	13	19.26	19.27	19.16				
5	256QAM	25	0	19.22	19.18	19.21				

Band 41 FCC&IC DSI2_Standalone Ant 3												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	19.45	19.66	19.71	19.62	19.61	21.1	0		
20	QPSK	1	49	19.64	19.62	19.60	19.60	19.59				
20	QPSK	1	99	19.56	19.60	19.62	19.56	19.53				
20	QPSK	50	0	19.52	19.53	19.65	19.53	19.47				
20	QPSK	50	24	19.48	19.44	19.53	19.49	19.59	21.1	0		
20	QPSK	50	50	19.43	19.43	19.58	19.40	19.39				
20	QPSK	100	0	19.44	19.45	19.61	19.40	19.60				
20	16QAM	1	0	19.40	19.49	19.51	19.50	19.59				
20	16QAM	1	49	19.31	19.50	19.55	19.39	19.45	21.1	0		
20	16QAM	1	99	19.48	19.43	19.55	19.46	19.48				
20	16QAM	50	0	19.40	19.37	19.60	19.41	19.42				
20	16QAM	50	24	19.46	19.47	19.50	19.35	19.53				
20	16QAM	50	50	19.56	19.47	19.43	19.51	19.44	21.1	0		
20	16QAM	100	0	19.41	19.45	19.45	19.46	19.29				
20	64Q											



Band 41 PC2 DSI2_Standalone Ant 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	21.07	21.24	21.30	21.26	21.20	22.7	0
20	QPSK	1	49	21.25	21.23	21.17	21.17	21.20		
20	QPSK	1	99	21.14	21.20	21.19	21.18	21.11		
20	QPSK	50	0	21.07	21.17	21.19	21.15	21.06		
20	QPSK	50	24	21.03	21.07	21.11	21.10	21.16	22.7	0
20	QPSK	50	50	20.99	21.07	21.15	21.01	21.00		
20	QPSK	100	0	21.06	21.05	21.18	20.99	21.13		
20	16QAM	1	0	21.02	21.11	21.14	21.07	21.12		
20	16QAM	1	49	20.93	21.03	21.07	20.92	20.99	22.7	0
20	16QAM	1	99	21.02	21.07	21.14	21.03	21.10		
20	16QAM	50	0	21.02	20.98	21.18	21.01	21.04		
20	16QAM	50	24	21.05	21.05	21.06	20.98	21.13		
20	16QAM	50	50	21.09	21.08	21.05	21.06	21.03	22.7	0
20	16QAM	100	0	20.96	21.00	21.09	20.98	20.92		
20	64QAM	1	0	21.05	21.16	21.15	21.01	20.99		
20	64QAM	1	49	21.04	20.97	21.06	21.04	21.09		
20	64QAM	1	99	20.97	21.05	21.06	21.00	20.92	22.7	0
20	64QAM	50	0	21.10	20.98	21.15	20.95	21.15		
20	64QAM	50	24	20.98	21.09	21.15	21.01	21.02		
20	64QAM	50	50	20.85	21.05	21.22	20.88	20.92		
20	64QAM	100	0	20.89	20.97	21.12	20.99	20.85	22.7	0
20	256QAM	1	0	21.00	21.08	21.02	20.89	20.90		
20	256QAM	1	49	20.96	20.84	20.94	20.92	20.99		
20	256QAM	1	99	20.92	20.98	20.97	20.96	20.83		
20	256QAM	50	0	21.02	20.90	21.08	20.92	21.10	22.7	0
20	256QAM	50	24	20.95	21.00	21.04	20.91	20.98		
20	256QAM	50	50	20.82	20.91	21.11	20.76	20.79		
20	256QAM	100	0	20.83	20.86	21.05	20.91	20.83		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	20.98	21.16	21.23	21.12	21.17	23	0
15	QPSK	1	37	21.15	21.18	21.10	21.06	21.09		
15	QPSK	1	74	21.02	21.12	21.12	21.14	21.03		
15	QPSK	36	0	21.00	21.13	21.08	21.03	21.03		
15	QPSK	36	20	20.98	20.97	21.03	21.07	21.07	22.7	0
15	QPSK	36	39	20.90	21.00	21.09	20.92	20.88		
15	QPSK	75	0	20.97	20.93	21.06	20.88	21.01		
15	16QAM	1	0	20.93	21.08	21.04	21.00	21.02		
15	16QAM	1	37	20.85	20.89	21.01	20.82	20.87	22.7	0
15	16QAM	1	74	20.97	21.00	21.05	20.99	21.03		
15	16QAM	36	0	20.91	20.84	21.11	20.97	20.98		
15	16QAM	36	20	21.01	20.95	20.93	20.85	21.09		
15	16QAM	36	39	20.96	21.04	20.95	20.97	20.91	22.7	0
15	16QAM	75	0	20.83	20.91	21.03	20.94	20.85		
15	64QAM	1	0	20.97	21.13	21.02	20.96	20.86		
15	64QAM	1	37	21.00	20.92	21.04	21.01	21.07		
15	64QAM	1	74	20.94	20.97	20.98	20.94	20.81	22.7	0
15	64QAM	36	0	21.03	20.85	21.11	20.83	21.04		
15	64QAM	36	20	20.93	21.04	21.06	20.97	20.99		
15	64QAM	36	39	20.78	20.95	21.20	20.81	20.85		
15	64QAM	75	0	20.77	20.92	21.00	20.86	20.77	22.7	0
15	256QAM	1	0	20.98	21.03	21.03	20.91	20.89		
15	256QAM	1	37	20.91	20.87	20.99	21.00	21.02		
15	256QAM	1	74	20.88	20.97	20.93	20.88	20.84		
15	256QAM	36	0	20.97	20.89	21.01	20.91	21.10	22.7	0
15	256QAM	36	20	20.87	20.96	21.06	20.99	20.95		
15	256QAM	36	39	20.81	20.92	21.13	20.85	20.85		
15	256QAM	75	0	20.85	20.95	21.08	20.92	20.73		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	21.01	21.13	21.28	21.14	21.09	23	0
10	QPSK	1	25	21.23	21.11	21.13	21.11	21.16		
10	QPSK	1	49	21.02	21.17	21.14	21.12	21.05		
10	QPSK	25	0	21.00	21.12	21.16	21.04	21.01		
10	QPSK	25	12	20.92	20.98	21.00	21.06	21.07	22.7	0
10	QPSK	25	25	20.89	20.95	21.08	20.88	20.98		
10	QPSK	50	0	20.93	21.03	21.15	20.93	21.00		
10	16QAM	1	0	20.98	20.98	21.02	21.03	21.03		
10	16QAM	1	25	20.91	20.96	21.05	20.84	20.91	22.7	0
10	16QAM	1	49	20.99	20.94	21.00	20.92	21.02		
10	16QAM	25	0	20.97	20.94	21.12	20.89	20.96		
10	16QAM	25	12	20.91	21.03	21.03	20.90	21.00		
10	16QAM	25	25	21.05	21.04	20.94	20.94	20.98	22.7	0
10	16QAM	50	0	20.84	20.88	20.99	20.89	20.81		
10	64QAM	1	0	20.98	21.14	21.04	20.95	20.89		
10	64QAM	1	25	20.92	20.86	21.00	21.00	21.06		
10	64QAM	1	49	20.85	20.95	20.99	20.88	20.82	22.7	0
10	64QAM	25	0	21.06	20.85	21.08	20.82	21.06		
10	64QAM	25	12	20.91	20.98	21.04	20.88	20.99		
10	64QAM	25	25	20.81	21.01	21.14	20.79	20.81		
10	64QAM	50	0	20.79	20.88	21.02	20.94	20.80	22.7	0
10	256QAM	1	0	20.98	21.11	21.10	20.91	20.91		
10	256QAM	1	25	20.99	20.90	21.03	20.93	21.01		
10	256QAM	1	49	20.85	20.95	20.95	20.95	20.89		
10	256QAM	25	0	21.01	20.95	21.13	20.91	21.08	22.7	0
10	256QAM	25	12	20.91	21.07	21.06	20.90	20.93		
10	256QAM	25	25	20.75	20.93	21.11	20.80	20.86		
10	256QAM	50	0	20.83	20.90	21.02	20.86	20.78		
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	20.98	21.15	21.18	21.20	21.13	23	0
5	QPSK	1	12	21.13	21.11	21.03	21.10	21.07		
5	QPSK	1	24	21.12	21.18	21.05	21.13	21.05		
5	QPSK	12	0	20.99	21.05	21.10	21.12	20.99		
5	QPSK	12	7	20.93	21.01	21.03	21.03	21.02	22.7	0
5	QPSK	12	13	20.95	21.00	21.11	20.92	20.93		
5	QPSK	25	0	21.01	20.98	21.15	20.86	21.03		
5	16QAM	1	0	20.97	21.07	21.12	21.01	21.07		
5	16QAM	1	12	20.83	21.00	20.94	20.80	20.94	22.7	0
5	16QAM	1	24	20.97	20.95	21.03	20.89	20.97		
5	16QAM	12	0	20.99	20.86	21.05	20.87	20.99		
5	16QAM	12	7	21.00	20.99	21.00	20.86	21.11		
5	16QAM	12	13	21.03	20.97	20.94	21.03	20.93	22.7	0
5	16QAM	25	0	20.89	20.91	20.97	20.86	20.88		
5	64QAM	1	0	21.00	21.12	21.07	20.90	20.93		
5	64QAM	1	12	20.93	20.89	20.99	20.94	21.02		
5	64QAM	1	24	20.90	21.01	20.93	20.90	20.86	22.7	0
5	64QAM	12	0	21.02	20.94	21.10	20.92	21.02		
5	64QAM	12	7	20.91	21.03	21.12	20.99	20.94		
5	64QAM	12	13	20.79	20.94	21.18	20.79	20.80		
5	64QAM	25	0	20.79	20.92	21.05	20.89	20.75	22.7	0
5	256QAM	1	0	20.96	21.12	21.12	20.95	20.96		
5	256QAM	1	12	20.97	20.92	21.01	20.91	20.96		
5	256QAM	1	24	20.83	21.01	20.97	20.94	20.78		
5	256QAM	12	0	21.00	20.88	21.11	20.82	21.04	22.7	0
5	256QAM	12	7	20.89	21.05	21.04	20.94	20.99		
5	256QAM	12	13	20.76	20.94	21.10	20.81	20.87		
5	256QAM	25	0	20.86	20.91	21.07	20.88	20.72		

Band 48 DSI2_Standalone Ant 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.
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Reduced Power Mode for DS12-Simultaneous

GSM850 Arit0									
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	183	189	251		128	189	251		
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8		
Frequency (MHz)	32.90	32.97	32.94	33.50	23.90	23.97	23.94	24.50	
GSM 1 Tx slot	32.83	32.94	32.91	33.50	23.83	23.94	23.91	24.50	
GPRS 2 Tx slots	29.30	29.41	29.26	30.50	23.30	23.41	23.26	24.50	
GPRS 3 Tx slots	28.91	28.98	28.86	30.00	24.65	24.72	24.60	25.74	
GPRS 4 Tx slots	26.41	26.47	26.40	27.50	23.41	23.47	23.40	24.50	
EDGE 1 Tx slot	25.42	25.46	25.37	26.50	16.42	16.46	16.37	17.50	
EDGE 2 Tx slots	23.77	23.89	23.79	25.00	17.77	17.89	17.79	19.00	
EDGE 3 Tx slots	22.86	22.89	22.82	23.50	16.40	16.43	16.36	19.24	
EDGE 4 Tx slots	20.59	20.63	20.60	21.50	17.59	17.63	17.60	18.50	

GSM1900 Arit0									
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	512	661	810		512	661	810		
TX Channel	1850.2	1880	1909.8		1850.2	1880	1909.8		
Frequency (MHz)	27.61	27.66	27.57	28.50	18.61	18.66	18.57	19.50	
GSM 1 Tx slot	27.54	27.63	27.58	28.50	18.54	18.63	18.58	19.50	
GPRS 2 Tx slots	24.84	24.94	24.83	26.00	18.84	18.94	18.83	20.00	
GPRS 3 Tx slots	23.33	23.39	23.33	24.50	19.07	19.13	19.07	20.24	
GPRS 4 Tx slots	20.70	20.75	20.68	21.50	17.70	17.75	17.68	18.50	
EDGE 1 Tx slot	22.79	22.87	22.73	23.50	13.79	13.87	13.73	14.50	
EDGE 2 Tx slots	21.09	21.19	21.11	22.00	15.09	15.19	15.11	16.00	
EDGE 3 Tx slots	20.07	20.12	20.04	21.00	15.81	15.86	15.78	16.74	
EDGE 4 Tx slots	17.96	18.09	18.04	19.00	14.96	15.09	15.04	16.00	

Band	WCDMA II Arit0			Tune-up Limit (dBm)	WCDMA IV Arit0			Tune-up Limit (dBm)	WCDMA V Arit0			Tune-up Limit (dBm)
	9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel	9662	9800	9938		1337	1638	1738		4357	4407	4458	
Frequency (MHz)	1932.4	1930	1907.6		1712.4	1732.3	1723.3		826.4	836.4	846.6	
3GPP Rel 99 AMR 12.2kbps	20.57	20.65	20.53	22.00	20.30	20.47	20.38	22.00	22.43	22.47	22.40	24.00
3GPP Rel 99 RMC 12.2kbps	20.82	20.88	20.57	22.00	20.45	20.51	20.41	22.00	22.45	22.52	22.46	24.00
3GPP Rel 6 HSDPA Subtest-1	19.72	19.76	19.70	21.00	19.59	19.66	19.50	21.00	21.55	21.69	21.48	23.00
3GPP Rel 6 HSDPA Subtest-2	19.66	19.73	19.65	21.00	19.50	19.58	19.52	21.00	21.46	21.60	21.54	23.00
3GPP Rel 6 HSDPA Subtest-3	19.19	19.25	19.23	20.50	19.00	19.11	19.08	20.50	21.01	21.14	21.04	22.50
3GPP Rel 6 HSDPA Subtest-4	19.15	19.30	19.21	20.50	18.96	19.18	19.03	20.50	20.98	21.24	21.06	22.50
3GPP Rel 6 DC-HSDPA Subtest-1	19.70	19.85	19.64	21.00	19.54	19.68	19.46	21.00	21.55	21.72	21.42	23.00
3GPP Rel 6 DC-HSDPA Subtest-2	19.56	19.59	19.41	21.00	19.38	19.40	19.32	21.00	21.34	21.42	21.32	23.00
3GPP Rel 6 DC-HSDPA Subtest-3	19.06	19.12	19.05	20.50	18.92	18.93	18.89	20.50	20.95	20.93	20.92	22.50
3GPP Rel 6 DC-HSDPA Subtest-4	19.02	19.15	19.12	20.50	18.90	18.99	19.01	20.50	20.89	21.00	21.03	22.50
3GPP Rel 6 HSUPA Subtest-1	19.66	19.73	19.70	21.00	19.55	19.63	19.61	21.00	21.61	21.68	21.67	23.00
3GPP Rel 6 HSUPA Subtest-2	17.71	17.75	17.64	19.00	17.54	17.60	17.51	19.00	19.57	19.63	19.50	21.00
3GPP Rel 6 HSUPA Subtest-3	18.65	18.73	18.70	20.00	18.52	18.58	18.58	20.00	20.52	20.59	20.61	22.00
3GPP Rel 6 HSUPA Subtest-4	17.61	17.66	17.57	19.00	17.44	17.51	17.48	19.00	19.45	19.52	19.49	21.00
3GPP Rel 6 HSUPA Subtest-5	19.64	19.60	19.52	21.00	19.53	19.48	19.38	21.00	21.55	21.44	21.40	23.00



Band 2 Default Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (min)	MFR (dB)	
Channel	Ch. 1 Freq.	Ch. 2 Freq.	Ch. 3 Freq.	Ch. 1 Freq.	Ch. 2 Freq.	Ch. 3 Freq.			
20	QPSK	1	0	23.11	23.12	23.07			
20	QPSK	1	49	23.03	23.04	23.09			
20	QPSK	1	99	22.99	23.07	22.97			
20	QPSK	50	0	23.08	23.13	23.05			
20	QPSK	50	24	23.04	23.08	23.02			
20	QPSK	50	50	23.02	23.04	23.06			
20	QPSK	100	0	23.09	23.05	23.01			
20	QPSK	100	24	23.05	23.02	23.08			
20	QPSK	1	49	22.85	22.88	22.90			
20	QPSK	1	99	22.70	22.85	22.80			
20	QPSK	50	0	22.85	22.82	22.84			
20	QPSK	50	24	22.34	22.48	22.34			
20	QPSK	50	50	22.36	22.42	22.27			
20	QPSK	100	0	22.30	22.42	22.47			
20	QPSK	1	0	22.72	22.82	22.72			
20	QPSK	1	49	22.68	22.76	22.67			
20	QPSK	1	99	22.50	22.65	22.48			
20	QPSK	50	0	21.84	21.71	21.91			
20	QPSK	50	24	21.46	21.36	21.50			
20	QPSK	50	50	21.42	21.48	21.35			
20	QPSK	100	0	21.43	21.38	21.38			
20	QPSK	1	49	19.82	19.88	19.80			
20	QPSK	1	99	19.86	19.82	19.57			
20	QPSK	50	0	19.85	19.86	19.85			
20	QPSK	50	24	19.80	19.73	19.63			
20	QPSK	50	50	19.70	19.81	19.78			
20	QPSK	100	0	19.75	19.87	19.87			
20	QPSK	100	24	19.75	19.82	19.75			
20	QPSK	100	50	19.75	19.82	19.75			
Channel	Frequency (MHz)	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (min)	MFR (dB)	
15	QPSK	1	0	23.03	23.14	23.06			
15	QPSK	1	49	22.79	22.92	22.84			
15	QPSK	1	99	22.81	22.96	22.83			
15	QPSK	50	0	22.87	23.05	22.91			
15	QPSK	50	24	22.81	23.06	22.87			
15	QPSK	50	50	22.87	22.98	22.81			
15	QPSK	100	0	22.91	23.04	22.97			
15	QPSK	100	24	22.90	22.79	22.79			
15	QPSK	1	37	22.77	22.88	22.83			
15	QPSK	1	74	22.67	22.80	22.76			
15	QPSK	50	0	22.50	22.55	22.45			
15	QPSK	50	24	22.21	22.37	22.28			
15	QPSK	50	50	22.23	22.35	22.26			
15	QPSK	100	0	22.21	22.38	22.29			
15	QPSK	100	24	22.22	22.40	22.31			
15	QPSK	100	50	22.22	22.40	22.31			
15	QPSK	1	74	21.42	21.42	21.48			
15	QPSK	50	0	21.38	21.32	21.23			
15	QPSK	50	24	21.38	21.37	21.28			
15	QPSK	50	50	21.38	21.38	21.35			
15	QPSK	100	0	21.39	21.52	21.37			
15	QPSK	1	37	19.82	19.81	19.42			
15	QPSK	1	74	19.85	19.85	19.48			
15	QPSK	50	0	19.84	19.85	19.48			
15	QPSK	50	24	19.84	19.82	19.50			
15	QPSK	50	50	19.86	19.73	19.67			
15	QPSK	100	0	19.82	19.87	19.84			
Channel	Frequency (MHz)	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (min)	MFR (dB)	
10	QPSK	1	0	22.87	22.88	22.81			
10	QPSK	1	25	22.87	22.88	22.81			
10	QPSK	1	49	22.82	22.84	22.82			
10	QPSK	1	74	22.82	22.84	22.82			
10	QPSK	50	0	22.81	22.80	22.84			
10	QPSK	50	24	22.81	22.80	22.84			
10	QPSK	50	50	22.80	22.80	22.89			
10	QPSK	100	0	22.80	22.80	22.89			
10	QPSK	1	25	22.82	22.87	22.85			
10	QPSK	1	49	22.82	22.87	22.85			
10	QPSK	1	74	22.82	22.87	22.85			
10	QPSK	50	0	22.80	22.80	22.89			
10	QPSK	50	24	22.80	22.80	22.89			
10	QPSK	50	50	22.80	22.80	22.89			
10	QPSK	100	0	22.80	22.80	22.89			
10	QPSK	100	24	22.80	22.80	22.89			
10	QPSK	100	50	22.80	22.80	22.89			
10	QPSK	1	25	22.82	22.87	22.85			
10	QPSK	1	49	22.82	22.87	22.85			
10	QPSK	1	74	22.82	22.87	22.85			
10	QPSK	50	0	22.80	22.80	22.89			
10	QPSK	50	24	22.80	22.80	22.89			
10	QPSK	50	50	22.80	22.80	22.89			
10	QPSK	100	0	22.80	22.80	22.89			
10	QPSK	100	24	22.80	22.80	22.89			
10	QPSK	100	50	22.80	22.80	22.89			
10	QPSK	1	25	22.82	22.87	22.85			
10	QPSK	1	49	22.82	22.87	22.85			
10	QPSK	1	74	22.82	22.87	22.85			
10	QPSK	50	0	22.80	22.80	22.89			
10	QPSK	50	24	22.80	22.80	22.89			
10	QPSK	50	50	22.80	22.80	22.89			
10	QPSK	100	0	22.80	22.80	22.89			
10	QPSK	100	24	22.80	22.80	22.89			
10	QPSK	100	50	22.80	22.80	22.89			
10	QPSK	1	25	22.82	22.87	22.85			
10	QPSK	1	49	22.82	22.87	22.85			
10	QPSK	1	74	22.82	22.87	22.85			
10	QPSK	50	0	22.80	22.80	22.89			
10	QPSK	50	24	22.80	22.80	22.89			
10	QPSK	50	50	22.80	22.80	22.89			
10	QPSK	100	0	22.80	22.80	22.89			
10	QPSK	100	24	22.80	22.80	22.89			
10	QPSK	100	50	22.80	22.80	22.89			
10	QPSK	1	25	22.82	22.87	22.85			
10	QPSK	1	49	22.82	22.87	22.85			
10	QPSK	1	74	22.82	22.87	22.85			
10	QPSK	50	0	22.80	22.80	22.89			
10	QPSK	50	24	22.80	22.80	22.89			
10	QPSK	50	50	22.80	22.80	22.89			
10	QPSK	100	0	22.80	22.80	22.89			
10	QPSK	100	24	22.80	22.80	22.89			
10	QPSK	100	50	22.80	22.80	22.89			
10	QPSK	1	25	22.82	22.87	22.85			
10	QPSK	1	49	22.82	22.87	22.85			
10	QPSK	1	74	22.82	22.87	22.85			
10	QPSK	50	0	22.80	22.80	22.89			
10	QPSK	50	24	22.80	22.80	22.89			
10	QPSK	50	50	22.80	22.80	22.89			
10	QPSK	100	0	22.80	22.80	22.89			
10	QPSK	100	24	22.80	22.80	22.89			
10	QPSK	100	50	22.80	22.80	22.89			
10	QPSK	1	25	22.82	22.87	22.85			
10	QPSK	1	49	22.82	22.87	22.85			
10	QPSK	1	74	22.82	22.87	22.85			
10	QPSK	50	0	22.80	22.80	22.89			
10	QPSK	50	24	22.80	22.80	22.89			
10	QPSK	50	50	22.80	22.80	22.89			
10	QPSK	100	0	22.80	22.80	22.89			
10	QPSK	100	24	22.80	22.80	22.89			
10	QPSK	100	50	22.80	22.80	22.89			
10	QPSK	1	25	22.82	22.87	22.85			
10	QPSK	1	49	22.82	22.87	22.85			
10	QPSK	1	74	22.82	22.87	22.85			
10	QPSK	50	0	22.80	22.80	22.89			
10	QPSK	50	24	22.80	22.80	22.89			
10	QPSK	50	50	22.80	22.80	22.89			
10	QPSK	100	0	22.80	22.80	22.89			
10	QPSK	100	24	22.80	22.80	22.89			
10	QPSK	100	50	22.80	22.80	22.89			



Band 25 Default Ant 0										
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up (min)	MFR (dB)		
Channel										
1800 1800 1900										
20	QPSK	1	0	23.16	23.21	23.18				
20	QPSK	1	49	23.03	23.01	23.03	24	0		
20	QPSK	1	99	22.97	23.01	23.03				
20	QPSK	50	0	23.00	23.10	23.05				
20	QPSK	50	24	22.95	23.03	23.05	24	0		
20	QPSK	50	50	22.88	22.99	22.88				
20	QPSK	100	0	22.91	23.01	22.92				
20	16QAM	1	0	22.96	22.99	22.91				
20	16QAM	1	49	22.84	22.99	22.95	24	0		
20	16QAM	1	99	22.81	22.87	22.80				
20	16QAM	50	0	22.79	22.99	22.83				
20	16QAM	50	24	22.75	22.90	22.75	23.5	0.5		
20	16QAM	50	50	22.61	22.72	22.70				
20	16QAM	100	0	22.62	22.69	22.61				
20	64QAM	1	0	22.86	23.09	22.91				
20	64QAM	1	49	22.79	22.99	22.87	23.5	0.5		
20	64QAM	1	99	22.76	22.99	22.87				
20	64QAM	50	0	21.82	21.99	21.79				
20	64QAM	50	24	21.78	21.79	21.74	22.5	1.5		
20	64QAM	50	50	21.69	21.68	21.64				
20	64QAM	100	0	21.67	21.69	21.68				
20	256QAM	1	49	19.79	19.90	19.83	20.5	3.5		
20	256QAM	1	99	19.77	19.85	19.78				
20	256QAM	50	0	19.76	19.89	19.81				
20	256QAM	50	24	19.77	19.90	19.74	20.5	3.5		
20	256QAM	50	50	19.70	19.74	19.71				
20	256QAM	100	0	19.62	19.74	19.61				
Channel										
2415 2415 2615										
1807.5 1800 1907.5										
15	QPSK	1	0	23.05	23.13	23.04				
15	QPSK	1	37	22.99	22.99	22.90	24	0		
15	QPSK	1	74	22.84	22.90	22.87				
15	QPSK	36	0	22.94	23.01	22.85				
15	QPSK	36	25	22.82	22.96	22.89	24	0		
15	QPSK	36	39	22.84	22.95	22.75				
15	QPSK	75	0	22.77	22.99	22.79				
15	16QAM	1	0	22.92	22.94	22.84				
15	16QAM	1	37	22.81	22.87	22.85	24	0		
15	16QAM	1	74	22.66	22.89	22.87				
15	16QAM	36	0	22.70	22.81	22.75				
15	16QAM	36	25	22.68	22.69	22.62	23.5	0.5		
15	16QAM	36	39	22.62	22.74	22.61				
15	16QAM	75	0	22.49	22.53	22.50				
15	64QAM	1	0	22.74	22.90	22.77	23.5	0.5		
15	64QAM	1	37	22.67	22.89	22.87				
15	64QAM	1	74	22.70	22.65	22.65				
15	64QAM	36	0	21.74	21.85	21.85	22.5	1.5		
15	64QAM	36	25	21.67	21.68	21.68				
15	64QAM	36	39	21.68	21.73	21.59				
15	64QAM	75	0	21.65	21.64	21.60				
15	256QAM	1	37	19.75	19.79	19.79	20.5	3.5		
15	256QAM	1	74	19.67	19.70	19.73				
15	256QAM	36	0	19.78	19.85	19.87				
15	256QAM	36	25	19.69	19.87	19.80	20.5	3.5		
15	256QAM	36	39	19.67	19.70	19.61				
15	256QAM	75	0	19.55	19.68	19.65				
Channel										
2600 2600 3000										
1855 1800 1910										
10	QPSK	1	0	23.03	23.09	23.00				
10	QPSK	1	25	22.94	22.92	22.98	24	0		
10	QPSK	1	49	22.90	22.95	22.90				
10	QPSK	12	0	22.87	22.88	22.89	24	0		
10	QPSK	25	12	22.87	22.85	22.83				
10	QPSK	25	25	22.84	22.85	22.71				
10	16QAM	1	0	22.80	22.80	22.80				
10	16QAM	1	0	22.90	22.95	22.83	24	0		
10	16QAM	1	24	22.81	22.91	22.88				
10	16QAM	1	49	22.66	22.79	22.68				
10	16QAM	25	0	22.74	22.80	22.75				
10	16QAM	25	12	22.62	22.68	22.67	23.5	0.5		
10	16QAM	25	25	22.62	22.61	22.61				
10	16QAM	50	0	22.57	22.65	22.54				
10	64QAM	1	0	22.82	22.91	22.85	23.5	0.5		
10	64QAM	1	24	22.64	22.68	22.68				
10	64QAM	1	49	22.72	22.76	22.71				
10	64QAM	25	0	21.79	21.84	21.68	22.5	1.5		
10	64QAM	25	12	21.74	21.69	21.70				
10	64QAM	25	25	21.68	21.77	21.61				
10	64QAM	50	0	21.62	21.58	21.52				
10	256QAM	1	24	19.80	19.84	19.81	20.5	3.5		
10	256QAM	1	24	19.68	19.75	19.72				
10	256QAM	1	49	19.74	19.73	19.77				
10	256QAM	12	0	19.65	19.81	19.77	20.5	3.5		
10	256QAM	25	12	19.71	19.83	19.68				
10	256QAM	25	25	19.65	19.61	19.60	20.5	3.5		
10	256QAM	50	0	19.55	19.67	19.63				
Channel										
2665 2600 3000										
1853 1800 1915										
5	QPSK	1	0	23.03	23.07	23.00				
5	QPSK	1	12	22.95	22.92	23.03	24	0		
5	QPSK	1	24	22.86	22.90	22.95				
5	QPSK	12	0	22.86	23.04	22.82	24	0		
5	QPSK	12	7	22.88	23.00	22.84				
5	QPSK	12	13	22.77	22.88	22.79				
5	QPSK	25	0	22.77	22.88	22.79	24	0		
5	16QAM	1	0	22.88	23.04	22.88				
5	16QAM	1	12	22.88	22.90	22.87	24	0		
5	16QAM	1	24	22.67	22.73	22.73				
5	16QAM	12	0	22.70	22.84	22.73				
5	16QAM	12	7	22.71	22.70	22.63	23.5	0.5		
5	16QAM	12	13	22.60	22.60	22.60				
5	16QAM	25	0	22.55	22.62	22.61				
5	64QAM	1	0	22.78	22.88	22.88	23.5	0.5		
5	64QAM	1	12	22.71	22.92	22.81				
5	64QAM	1	24	22.65	22.69	22.76				
5	64QAM	12	0	21.78	21.84	21.70	22.5	1.5		
5	64QAM	12	7	21.70	21.65	21.70				
5	64QAM	12	13	21.68	21.79	21.68				
5	64QAM	25	0	21.60	21.64	21.60				
5	256QAM	1	0	19.75	19.86	19.88	20.5	3.5		
5	256QAM	1	12	19.71	19.82	19.75				
5	256QAM	1	24	19.68	19.75	19.74				
5	256QAM	12	0	19.76	19.85	19.84	20.5	3.5		
5	256QAM	12	7	19.68	19.78	19.59				
5	256QAM	12	13	19.61	19.64	19.64	20.5	3.5		
5	256QAM	25	0	19.57	19.64	19.54				
Channel										
2665 2600 3000										
1853 1800 1915										
3	QPSK	1	0	23.02	23.15	23.15				
3	QPSK	1	8	22.98	22.95	22.96	24	0		
3	QPSK	1	14	22.94	22.93	22.99				
3	QPSK	8	0	22.94	23.05	22.98	24	0		
3	QPSK	8	4	22.80	22.97	22.91				
3	QPSK	8	7	22.75	22.84	22.78				
3	QPSK	15	0	22.83	22.89	22.80	24	0		
3	16QAM	1	0	22.84	23.02	22.85				
3	16QAM	1	8	22.89	22.86	22.87	24	0		
3	16QAM	1	14	22.77	22.75	22.66				
3	16QAM	8	0	22.66	22.87	22.79				
3	16QAM	8	4	22.65	22.65	22.67	23.5	0.5		
3	16QAM	15	0	22.97	22.69	22.67				
3	64QAM	1	0	22.75	22.92	22.80	23.5	0.5		
3										



Band 66 Default Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.17	20.22	20.14	24	0		
20	QPSK	1	49	20.99	21.11	20.98				
20	QPSK	1	99	20.02	20.02	20.90				
20	QPSK	50	0	20.96	20.18	20.07				
20	QPSK	50	24	20.92	20.02	20.99				
20	QPSK	50	50	20.85	20.98	20.92				
20	QPSK	100	0	20.88	20.01	20.91				
20	16QAM	1	0	20.80	20.10	20.98				
20	16QAM	1	49	20.87	20.01	20.91				
20	16QAM	1	99	20.83	20.85	20.86				
20	16QAM	50	0	20.81	20.81	20.86				
20	16QAM	50	24	20.80	20.85	20.87				
20	16QAM	50	50	20.83	20.81	20.84				
20	64QAM	1	0	20.85	20.75	20.84				
20	64QAM	1	49	20.49	20.84	20.84				
20	64QAM	1	99	20.81	20.85	20.80				
20	64QAM	50	0	21.09	21.00	21.71				
20	64QAM	50	24	21.83	21.71	21.71				
20	64QAM	50	50	21.83	21.75	21.81				
20	84QAM	100	0	21.57	21.82	21.58				
20	256QAM	1	49	18.99	18.92	18.84				
20	256QAM	1	99	18.81	18.84	18.83				
20	256QAM	50	0	18.84	18.88	18.88				
20	256QAM	50	24	18.78	18.80	18.74				
20	256QAM	50	50	18.80	18.77	18.73				
20	256QAM	100	0	18.71	18.75	18.75				
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.06	20.16	20.00	24	0		
15	QPSK	1	39	20.95	20.90	20.84				
15	QPSK	1	74	20.89	20.87	20.84				
15	QPSK	36	0	20.87	20.10	20.02				
15	QPSK	36	20	20.82	20.10	20.02				
15	QPSK	36	39	20.78	20.87	20.78				
15	16QAM	1	0	20.82	20.81	20.76				
15	16QAM	1	49	20.88	20.87	20.80				
15	16QAM	1	37	20.75	20.91	20.85				
15	16QAM	1	74	20.79	20.74	20.75				
15	16QAM	36	0	20.49	20.71	20.60				
15	16QAM	36	20	20.41	20.71	20.60				
15	16QAM	36	39	20.37	20.60	20.60				
15	64QAM	1	0	20.47	20.52	20.57				
15	64QAM	1	37	20.81	20.85	20.84				
15	64QAM	1	74	20.45	20.52	20.38				
15	64QAM	36	0	21.59	21.86	21.61				
15	64QAM	36	20	21.51	21.60	21.67				
15	64QAM	36	39	21.50	21.50	21.52				
15	64QAM	75	0	21.48	21.50	21.51				
15	256QAM	1	49	18.78	18.80	18.80				
15	256QAM	1	37	18.92	18.80	18.79				
15	256QAM	1	74	18.75	18.79	18.77				
15	256QAM	36	0	18.80	18.80	18.80				
15	256QAM	36	20	18.73	18.73	18.80				
15	256QAM	36	39	18.88	18.69	18.63				
15	256QAM	75	0	18.83	18.81	18.84				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.09	20.10	20.10	24	0		
10	QPSK	1	25	20.94	20.02	20.89				
10	QPSK	1	49	20.88	20.96	20.82				
10	QPSK	25	0	20.84	20.02	20.89				
10	QPSK	25	14	20.80	20.01	20.95				
10	QPSK	25	25	20.81	20.87	20.86				
10	16QAM	1	0	20.86	20.86	20.88				
10	16QAM	1	25	20.81	20.85	20.80				
10	16QAM	1	49	20.76	20.79	20.84				
10	16QAM	25	0	20.37	20.70	20.55				
10	16QAM	25	14	20.81	20.59	20.59				
10	16QAM	25	25	20.82	20.82	20.44				
10	16QAM	50	0	20.35	20.53	20.41				
10	64QAM	1	0	20.45	20.68	20.57				
10	64QAM	1	25	20.41	20.52	20.44				
10	64QAM	1	49	20.43	20.52	20.43				
10	64QAM	25	0	21.56	21.75	21.61				
10	64QAM	25	14	21.50	21.48	21.68				
10	64QAM	25	25	21.54	21.87	21.87				
10	64QAM	50	0	21.42	21.62	21.44				
10	256QAM	1	49	18.76	18.80	18.81				
10	256QAM	1	25	18.79	18.82	18.80				
10	256QAM	1	49	18.73	18.70	18.77				
10	256QAM	25	0	18.71	18.81	18.84				
10	256QAM	25	14	18.75	18.81	18.83				
10	256QAM	25	25	18.80	18.65	18.62				
10	256QAM	50	0	18.83	18.87	18.83				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.13	20.10	20.13	24	0		
5	QPSK	1	12	20.89	20.01	20.84				
5	QPSK	1	24	20.91	20.90	20.81				
5	QPSK	12	0	20.85	20.11	20.86				
5	QPSK	12	7	20.79	20.88	20.90				
5	QPSK	12	13	20.76	20.89	20.83				
5	QPSK	25	0	20.84	20.86	20.87				
5	16QAM	1	0	20.72	20.98	20.82				
5	16QAM	1	12	20.80	20.90	20.76				
5	16QAM	1	24	20.75	20.98	20.88				
5	16QAM	12	0	20.47	20.74	20.83				
5	16QAM	12	7	20.37	20.61	20.59				
5	16QAM	12	13	20.43	20.52	20.51				
5	16QAM	25	0	20.37	20.53	20.48				
5	64QAM	1	0	20.48	20.72	20.57				
5	64QAM	1	12	20.45	20.66	20.48				
5	64QAM	1	24	20.39	20.51	20.44				
5	64QAM	12	0	21.63	21.80	21.61				
5	64QAM	12	7	21.51	21.69	21.70				
5	64QAM	12	13	21.58	21.87	21.86				
5	64QAM	25	0	21.51	21.83	21.80				
5	256QAM	1	12	18.76	18.80	18.88				
5	256QAM	1	24	18.77	18.84	18.80				
5	256QAM	1	12	18.71	18.76	18.76				
5	256QAM	12	0	18.72	18.80	18.71				
5	256QAM	12	7	18.71	18.72	18.69				
5	256QAM	12	13	18.80	18.65	18.61				
5	256QAM	25	0	18.82	18.81	18.81				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.03	20.14	20.15	24	0		
3	QPSK	1	8	20.89	20.00	20.85				
3	QPSK	1	14	20.88	20.89	20.75				
3	QPSK	8	0	20.87	20.02	20.83				
3	QPSK	8	4	20.89	20.04	20.85				
3	QPSK	8	7	20.78	20.83	20.83				
3	QPSK	15	0	20.79	20.89	20.88				
3	16QAM	1	0	20.76	20.87	20.84				
3	16QAM	1	8	20.82	20.95	20.87				
3	16QAM	1	14	20.76	20.89	20.82				
3	16QAM	8	0	20.56	20.73	20.63				
3	16QAM	8	4	20.54	20.52	20.49				
3	16QAM	8	24	20.42	20.47	20.52				
3	16QAM	15	0	20.43	20.48	20.51				
3	64QAM	1	0	20.41	20.62	20.46				
3	64QAM	1	14	20.42	20.48	20.38				
3	64QAM	8	0	21.87	21.86	21.89				
3	64QAM	8	4	21.82	21.88	21.70				
3	64QAM	8	7	21.51	21.60	21.49				
3	64QAM	15	0	21.45	21.87	21.84				
3	256QAM	1	0	18.75	18.80	18.84				
3										



Band 38 Default Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	20.67	20.69	20.50	22	0		
20	QPSK	1	49	20.46	20.43	20.46				
20	QPSK	1	99	20.47	20.43	20.40				
20	QPSK	50	0	20.47	20.55	20.33	22	0		
20	QPSK	50	24	20.36	20.50	20.42				
20	QPSK	50	50	20.23	20.36	20.32				
20	QPSK	100	0	20.37	20.52	20.33				
20	16QAM	1	0	20.46	20.57	20.39	22	0		
20	16QAM	1	49	20.36	20.45	20.33				
20	16QAM	1	99	20.29	20.33	20.40				
20	16QAM	50	0	20.06	20.23	20.04				
20	16QAM	50	24	20.10	20.06	20.05				
20	16QAM	50	50	19.87	20.03	19.96	21.5	0.5		
20	16QAM	100	0	19.92	20.11	20.00				
20	64QAM	1	0	20.03	20.26	20.03				
20	64QAM	1	49	19.94	20.04	20.10	21.5	0.5		
20	64QAM	1	99	20.10	20.01	20.06				
20	64QAM	50	0	19.86	20.04	19.95				
20	64QAM	50	24	19.83	19.90	19.89				
20	64QAM	50	50	19.82	19.86	19.83				
20	64QAM	100	0	19.85	19.88	19.79				
20	256QAM	1	0	17.91	18.08	17.94				
20	256QAM	1	49	17.82	18.08	17.92	18.5	3.5		
20	256QAM	1	99	17.86	17.85	17.87				
20	256QAM	50	0	17.94	18.06	17.97				
20	256QAM	50	24	17.90	17.95	17.90				
20	256QAM	50	50	17.77	17.87	17.81	18.5	3.5		
20	256QAM	100	0	17.91	18.03	17.94				
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	20.50	20.60	20.47	22	0		
15	QPSK	1	37	20.29	20.36	20.42				
15	QPSK	1	74	20.40	20.36	20.23				
15	QPSK	36	0	20.30	20.38	20.27	22	0		
15	QPSK	36	20	20.24	20.39	20.31				
15	QPSK	36	39	20.17	20.27	20.24				
15	QPSK	75	0	20.31	20.39	20.25				
15	16QAM	1	0	20.31	20.44	20.25				
15	16QAM	1	37	20.27	20.37	20.17	22	0		
15	16QAM	1	74	20.25	20.23	20.33				
15	16QAM	36	0	19.95	20.20	19.88				
15	16QAM	36	20	19.92	19.95	19.95				
15	16QAM	36	39	19.79	19.93	19.83	21.5	0.5		
15	16QAM	75	0	19.85	19.99	19.88				
15	64QAM	1	0	19.94	20.23	19.99				
15	64QAM	1	37	19.77	19.97	20.07	21.5	0.5		
15	64QAM	1	74	20.01	19.95	19.99				
15	64QAM	36	0	19.77	20.01	19.81				
15	64QAM	36	20	19.73	19.86	19.85				
15	64QAM	36	39	19.71	19.72	19.79				
15	64QAM	75	0	19.75	19.85	19.69				
15	256QAM	1	0	17.78	17.97	17.88				
15	256QAM	1	37	17.70	18.04	17.89	18.5	3.5		
15	256QAM	1	74	17.73	17.82	17.72				
15	256QAM	36	0	17.83	18.00	17.92				
15	256QAM	36	20	17.86	17.89	17.82				
15	256QAM	36	39	17.64	17.77	17.71	18.5	3.5		
15	256QAM	75	0	17.79	17.99	17.87				
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	20.56	20.52	20.46	22	0		
10	QPSK	1	25	20.31	20.39	20.41				
10	QPSK	1	49	20.35	20.26	20.34				
10	QPSK	25	0	20.37	20.42	20.22	22	0		
10	QPSK	25	12	20.24	20.46	20.26				
10	QPSK	25	25	20.17	20.25	20.22				
10	QPSK	50	0	20.34	20.42	20.28				
10	16QAM	1	0	20.32	20.41	20.25				
10	16QAM	1	25	20.22	20.33	20.29	22	0		
10	16QAM	1	49	20.15	20.17	20.33				
10	16QAM	25	0	20.04	20.20	19.98				
10	16QAM	25	12	20.04	19.93	19.90				
10	16QAM	25	25	19.81	19.86	19.87	21.5	0.5		
10	16QAM	50	0	19.86	20.04	19.84				
10	64QAM	1	0	19.89	20.09	20.01				
10	64QAM	1	25	19.82	20.01	20.01	21.5	0.5		
10	64QAM	1	49	20.06	19.83	20.04				
10	64QAM	25	0	19.81	20.00	19.81				
10	64QAM	25	12	19.71	19.85	19.78				
10	64QAM	25	25	19.74	19.71	19.75				
10	64QAM	50	0	19.80	19.83	19.72				
10	256QAM	1	0	17.81	18.03	17.84				
10	256QAM	1	25	17.73	17.97	17.88	18.5	3.5		
10	256QAM	1	49	17.71	17.70	17.74				
10	256QAM	25	0	17.84	17.93	17.84				
10	256QAM	25	12	17.80	17.91	17.85				
10	256QAM	25	25	17.69	17.82	17.69	18.5	3.5		
10	256QAM	50	0	17.85	17.98	17.84				
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	20.56	20.61	20.38	22	0		
5	QPSK	1	12	20.31	20.32	20.37				
5	QPSK	1	24	20.44	20.39	20.33				
5	QPSK	12	0	20.38	20.46	20.20	22	0		
5	QPSK	12	7	20.24	20.42	20.36				
5	QPSK	12	13	20.11	20.29	20.18				
5	QPSK	25	0	20.20	20.39	20.29				
5	16QAM	1	0	20.31	20.44	20.23				
5	16QAM	1	12	20.28	20.39	20.15	22	0		
5	16QAM	1	24	20.16	20.29	20.25				
5	16QAM	12	0	19.93	20.17	19.96				
5	16QAM	12	7	19.97	19.92	20.00	21.5	0.5		
5	16QAM	12	13	19.77	19.93	19.80				
5	16QAM	25	0	19.82	19.96	19.93				
5	64QAM	1	0	19.94	20.12	20.00				
5	64QAM	1	12	19.89	19.98	20.03	21.5	0.5		
5	64QAM	1	24	19.95	19.91	19.99				
5	64QAM	12	0	19.78	19.89	19.81				
5	64QAM	12	7	19.75	19.78	19.75				
5	64QAM	12	13	19.72	19.78	19.71				
5	64QAM	25	0	19.80	19.78	19.66				
5	256QAM	1	0	17.83	18.01	17.86				
5	256QAM	1	12	17.74	18.03	17.82	18.5	3.5		
5	256QAM	1	24	17.74	17.70	17.78				
5	256QAM	12	0	17.86	17.93	17.85				
5	256QAM	12	7	17.79	17.86	17.86				
5	256QAM	12	13	17.70	17.81	17.70	18.5	3.5		
5	256QAM	25	0	17.87	17.89	17.89				

Band 41 FCC&IC Default Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.49	22.62	22.66	22.54	22.44	24	0
20	QPSK	1	49	22.33	22.54	22.52	22.25	22.24		
20	QPSK	1	99	22.26	22.31	22.42	22.25	22.29		
20	QPSK	50	0	22.27	22.18	22.34	22.22	22.28	23.5	0.5
20	QPSK	50	24	22.05	22.15	22.16	22.15	22.02		
20	QPSK	50	50	22.09	22.10	22.16	22.06	22.13		
20	QPSK	100	0	22.25	22.10	22.30	22.10	22.20		
20	16QAM	1	0	22.15	22.13	22.28	22.13			



Band 41 FCC&IC PC2 Default Ant 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	25.60	25.56	25.62	25.46	25.43	26	0
20	QPSK	1	49	25.46	25.23	25.56	25.40	25.36		
20	QPSK	1	99	25.23	25.38	25.42	25.35	25.31	26	0
20	QPSK	50	0	25.42	25.34	25.48	25.21	25.08		
20	QPSK	50	24	25.32	25.23	25.38	25.29	25.10	26	0
20	QPSK	50	50	25.07	25.19	25.20	25.28	25.08		
20	QPSK	100	0	25.32	25.20	25.36	25.28	25.13	26	0
20	16QAM	1	0	25.55	25.46	25.60	25.46	25.41		
20	16QAM	1	49	25.35	25.39	25.48	25.46	25.27	26	0
20	16QAM	1	99	25.30	25.34	25.42	25.44	25.22		
20	16QAM	50	0	24.26	24.15	24.36	24.27	24.10	25	1
20	16QAM	50	24	24.19	24.20	24.28	24.11	24.06		
20	16QAM	50	50	24.11	24.05	24.17	24.11	23.97	25	1
20	16QAM	100	0	24.25	24.21	24.33	24.15	24.17		
20	64QAM	1	0	24.18	24.15	24.29	24.10	24.10	25	1
20	64QAM	1	49	24.02	24.11	24.10	24.10	23.96		
20	64QAM	1	99	24.08	24.03	24.14	24.03	23.96	25	1
20	64QAM	50	0	23.26	23.22	23.38	23.20	23.14		
20	64QAM	50	24	23.15	23.14	23.27	23.19	23.03	24	2
20	64QAM	50	50	23.14	23.10	23.23	23.15	23.06		
20	64QAM	100	0	23.11	23.17	23.23	23.22	23.02	22	4
20	256QAM	1	0	21.51	21.42	21.59	21.46	21.29		
20	256QAM	1	49	21.54	21.40	21.59	21.45	21.30	22	4
20	256QAM	1	99	21.24	21.37	21.38	21.38	21.28		
20	256QAM	50	0	21.36	21.31	21.43	21.35	21.24	22	4
20	256QAM	50	24	21.22	21.16	21.29	21.24	21.04		
20	256QAM	50	50	21.14	21.12	21.21	21.20	21.05	22	4
20	256QAM	100	0	21.32	21.21	21.38	21.19	21.16		
Channel										
Frequency (MHz)				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	25.52	25.47	25.59	25.30	25.28	26.00	0
15	QPSK	1	37	25.39	25.12	25.50	25.28	25.20		
15	QPSK	1	74	25.13	25.30	25.35	25.24	25.23	26	0
15	QPSK	36	0	25.39	25.31	25.31	25.10	24.91		
15	QPSK	36	20	25.20	25.06	25.34	25.19	24.95	26	0
15	QPSK	36	39	24.93	25.03	25.07	25.24	25.04		
15	QPSK	75	0	25.24	25.15	25.23	25.15	25.00	26	0
15	16QAM	1	0	25.43	25.36	25.51	25.38	25.36		
15	16QAM	1	37	25.25	25.30	25.37	25.42	25.23	26	0
15	16QAM	1	74	25.16	25.21	25.28	25.38	25.10		
15	16QAM	36	0	24.22	24.02	24.24	24.16	23.97	25	1
15	16QAM	36	20	24.05	24.08	24.22	24.05	23.92		
15	16QAM	36	39	24.08	23.99	24.08	24.06	23.86	25	1
15	16QAM	75	0	24.19	24.08	24.27	24.04	24.02		
15	64QAM	1	0	24.04	24.10	24.16	24.05	23.99	25	1
15	64QAM	1	37	23.89	24.04	23.97	23.98	23.88		
15	64QAM	1	74	24.03	23.89	24.10	23.94	23.92	24	2
15	64QAM	36	0	23.19	23.18	23.35	23.05	23.05		
15	64QAM	36	20	23.05	22.99	23.22	23.15	22.97	24	2
15	64QAM	36	39	23.04	22.99	23.14	23.10	22.96		
15	64QAM	75	0	23.04	23.03	23.08	23.18	22.92	22	4
15	256QAM	1	0	21.43	21.30	21.51	21.39	21.22		
15	256QAM	1	37	21.42	21.27	21.46	21.36	21.19	22	4
15	256QAM	1	74	21.20	21.26	21.32	21.23	21.20		
15	256QAM	36	0	21.24	21.17	21.34	21.25	21.11	22	4
15	256QAM	36	20	21.08	21.12	21.21	21.16	20.99		
15	256QAM	36	39	21.10	21.08	21.07	21.09	20.98	22	4
15	256QAM	75	0	21.21	21.12	21.31	21.06	21.07		
Channel										
Frequency (MHz)				39700	40160	40620	41090	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	25.44	25.44	25.54	25.33	25.27	26.00	0
10	QPSK	1	25	25.35	25.11	25.51	25.34	25.28		
10	QPSK	1	49	25.06	25.30	25.30	25.31	25.16	26	0
10	QPSK	25	0	25.34	25.22	25.36	25.10	24.92		
10	QPSK	25	12	25.28	25.05	25.22	25.14	25.03	26	0
10	QPSK	25	25	24.92	25.06	25.09	25.14	24.97		
10	QPSK	50	0	25.30	25.06	25.23	25.24	24.96	26	0
10	16QAM	1	0	25.47	25.40	25.60	25.41	25.36		
10	16QAM	1	25	25.20	25.34	25.40	25.38	25.12	26	0
10	16QAM	1	49	25.21	25.21	25.28	25.36	25.17		
10	16QAM	25	0	24.23	24.09	24.31	24.12	24.03	25	1
10	16QAM	25	12	24.12	24.15	24.22	24.06	23.91		
10	16QAM	25	25	24.04	23.96	24.14	24.04	23.85	25	1
10	16QAM	50	0	24.18	24.14	24.28	24.06	24.13		
10	64QAM	1	0	24.09	24.09	24.26	24.06	23.97	25	1
10	64QAM	1	25	23.94	23.98	24.02	23.99	23.88		
10	64QAM	1	49	23.94	23.89	24.02	23.92	23.86	24	2
10	64QAM	25	0	23.21	23.08	23.28	23.15	23.03		
10	64QAM	25	12	23.05	23.10	23.24	23.09	22.89	24	2
10	64QAM	25	25	23.02	22.97	23.20	23.08	22.96		
10	64QAM	50	0	22.97	23.07	23.13	23.18	22.98	22	4
10	256QAM	1	0	21.47	21.39	21.54	21.36	21.18		
10	256QAM	1	25	21.51	21.26	21.47	21.39	21.25	22	4
10	256QAM	1	49	21.14	21.30	21.35	21.30	21.22		
10	256QAM	25	0	21.28	21.21	21.36	21.32	21.20	22	4
10	256QAM	25	12	21.09	21.04	21.23	21.17	20.94		
10	256QAM	25	25	20.99	21.07	21.13	21.16	20.96	22	4
10	256QAM	50	0	21.28	21.16	21.27	21.11	21.02		
Channel										
Frequency (MHz)				39675	40148	40620	41093	41585		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	25.51	25.43	25.46	25.38	25.40	26.00	0
5	QPSK	1	12	25.43	25.07	25.45	25.33	25.31		
5	QPSK	1	24	25.15	25.24	25.36	25.21	25.26	26	0
5	QPSK	12	0	25.39	25.32	25.41	25.09	24.93		
5	QPSK	12	7	25.24	25.15	25.28	25.12	25.03	26	0
5	QPSK	12	13	24.93	25.06	25.02	25.17	25.05		
5	QPSK	25	0	25.21	25.05	25.28	25.22	25.09	26	0
5	16QAM	1	0	25.47	25.42	25.52	25.38	25.27		
5	16QAM	1	12	25.29	25.29	25.33	25.35	25.24	26	0
5	16QAM	1	24	25.19	25.21	25.36	25.34	25.18		
5	16QAM	12	0	24.20	24.02	24.31	24.20	24.02	25	1
5	16QAM	12	7	24.15	24.14	24.19	24.06	23.97		
5	16QAM	12	13	24.06	23.98	24.03	24.07	23.89	25	1
5	16QAM	25	0	24.12	24.15	24.26	24.06	24.07		
5	64QAM	1	0	24.07	24.10	24.21	24.05	24.00	25	1
5	64QAM	1	12	23.91	23.97	24.02	24.07	23.92		
5	64QAM	1	24	23.97	23.99	24.11	23.99	23.89	24	2
5	64QAM	12	0	23.18	23.14	23.27	23.07	23.06		
5	64QAM	12	7	23.08	23.08	23.15	23.10	22.99	24	2
5	64QAM	12	13	23.00	22.98	23.16	23.05	23.01		
5	64QAM	25	0	23.08	23.11	23.11	23.18	22.98	22	4
5	256QAM	1	0	21.45	21.34	21.49	21.41	21.22		
5	256QAM	1	12	21.48	21.25	21.46	21.37	21.17	22	4
5	256QAM	1	24	21.19	21.30	21.32	21.28	21.22		



GSM850 Ant1									
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	128	189	251		128	189	251		
TX Channel	824.2	836.4	848.8	824.2	836.4	848.8			
Frequency (MHz)	31.42	31.48	31.36	32.50	22.42	22.48	22.36	23.50	0.15
GSM 1 Tx slot	31.39	31.45	31.33	32.50	22.39	22.45	22.33	23.50	
GPRS 2 Tx slots	28.27	28.39	28.32	29.50	22.27	22.39	22.32	23.50	0.12
GPRS 3 Tx slots	26.80	26.91	26.80	28.00	22.54	22.65	22.54	23.74	0.11
GPRS 4 Tx slots	25.16	25.22	25.17	26.00	22.16	22.22	22.17	23.00	0.06
EDGE 1 Tx slot	24.03	24.17	24.05	25.00	15.03	15.17	15.05	16.00	0.14
EDGE 2 Tx slots	22.29	22.41	22.34	23.50	16.29	16.41	16.34	17.50	0.12
EDGE 3 Tx slots	21.15	21.23	21.08	22.00	16.89	16.97	16.82	17.74	0.15
EDGE 4 Tx slots	18.99	19.08	18.93	20.00	15.99	16.08	15.93	17.00	0.15

GSM1900 Ant1									
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	512	661	810		512	661	810		
TX Channel	1850.2	1880	1909.8	1850.2	1880	1909.8			
Frequency (MHz)	27.66	27.74	27.63	28.50	18.66	18.74	18.63	19.50	0.22
GSM 1 Tx slot	27.52	27.67	27.57	28.50	18.52	18.67	18.57	19.50	
GPRS 2 Tx slots	25.06	25.09	24.98	26.00	19.06	19.09	18.98	20.00	0.11
GPRS 3 Tx slots	23.36	23.42	23.32	24.50	19.10	19.16	19.06	20.24	0.10
GPRS 4 Tx slots	20.62	20.74	20.63	21.50	17.62	17.74	17.63	18.50	0.12
EDGE 1 Tx slot	22.78	22.86	22.72	23.50	13.78	13.86	13.72	14.50	0.14
EDGE 2 Tx slots	21.13	21.22	21.13	22.00	15.13	15.22	15.13	16.00	0.09
EDGE 3 Tx slots	19.86	19.96	19.86	21.00	15.60	15.70	15.60	16.74	0.10
EDGE 4 Tx slots	17.91	18.05	17.97	19.00	14.91	15.05	14.97	16.00	0.14

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)		
	9262	9400	9538		1312	1413	1513		4132	4182	4233			
TX Channel	9262	9400	9538	9262	9400	9538	1312	1413	1513	4132	4182	4233		
Rx Channel	9662	9800	9938	9662	9800	9938	1537	1638	1738	4357	4407	4458		
Frequency (MHz)	1852.4	1860	1907.6	1712.4	1732.6	1752.8	23.00	21.14	21.17	21.04	23.00	21.14	21.17	21.04
3GPP Rel 99	AMR 12.2Kbps	21.45	21.53	21.44	23.00	21.42	21.44	21.31	23.00	21.14	21.17	21.04	23.00	
3GPP Rel 99	RMC 12.2Kbps	21.48	21.57	21.51	23.00	21.45	21.49	21.37	23.00	21.17	21.23	21.09	23.00	
3GPP Rel 6	HSDPA Subtest-1	20.55	20.64	20.47	22.00	20.46	20.57	20.32	22.00	20.23	20.23	20.02	22.00	
3GPP Rel 6	HSDPA Subtest-2	20.48	20.57	20.52	22.00	20.42	20.50	20.41	22.00	20.12	20.22	20.17	22.00	
3GPP Rel 6	HSDPA Subtest-3	20.02	20.14	20.10	21.50	19.91	20.02	19.85	21.50	19.57	19.70	19.69	21.50	
3GPP Rel 6	HSDPA Subtest-4	19.95	20.18	20.08	21.50	19.87	20.11	19.94	21.50	19.56	19.79	19.61	21.50	
3GPP Rel 6	DC-HSDPA Subtest-1	20.50	20.70	20.45	22.00	20.46	20.63	20.35	22.00	20.21	20.32	20.01	22.00	
3GPP Rel 6	DC-HSDPA Subtest-2	20.37	20.42	20.36	22.00	20.33	20.29	20.28	22.00	20.08	20.06	19.94	22.00	
3GPP Rel 6	DC-HSDPA Subtest-3	19.99	19.96	19.92	21.50	19.94	19.84	19.88	21.50	19.69	19.58	19.65	21.50	
3GPP Rel 6	DC-HSDPA Subtest-4	19.87	19.94	19.99	21.50	19.82	19.80	19.93	21.50	19.49	19.47	19.64	21.50	
3GPP Rel 6	HSUPA Subtest-1	20.56	20.61	20.66	22.00	20.43	20.56	20.56	22.00	20.15	20.22	20.28	22.00	
3GPP Rel 6	HSUPA Subtest-2	18.53	18.67	18.52	20.00	18.42	18.53	18.39	20.00	18.09	18.10	18.13	20.00	
3GPP Rel 6	HSUPA Subtest-3	19.53	19.62	19.58	21.00	19.43	19.53	19.47	21.00	19.19	19.20	19.15	21.00	
3GPP Rel 6	HSUPA Subtest-4	18.45	18.48	18.44	20.00	18.37	18.45	18.35	20.00	18.04	18.14	18.03	20.00	
3GPP Rel 6	HSUPA Subtest-5	20.59	20.49	20.39	22.00	20.55	20.36	20.33	22.00	20.21	20.03	20.08	22.00	



Band 2 Default Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (dB)	MPR (dB)		
Channel	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.	Turn-up (dB)	MPR (dB)		
20	QPSK	1	0	20.90	21.00	20.98				
20	QPSK	1	49	20.92	20.98	20.96				
20	QPSK	1	99	20.90	20.99	20.98		22	0	
20	QPSK	50	0	20.99	21.00	20.99				
20	QPSK	50	49	20.97	20.98	20.98			22	0
20	QPSK	100	0	20.90	20.95	20.97				
20	QPSK	100	49	20.90	20.98	20.97				
20	QPSK	150	0	20.77	20.83	20.83			22	0
20	QPSK	150	49	20.77	20.83	20.83				
20	QPSK	200	0	20.72	20.79	20.79				
20	QPSK	200	49	20.72	20.79	20.79				
20	QPSK	250	0	20.71	20.80	20.71				
20	QPSK	250	49	20.67	20.76	20.76			21.5	0.5
20	QPSK	300	0	20.68	20.75	20.75				
20	QPSK	300	49	20.68	20.75	20.75				
20	QPSK	350	0	19.82	19.88	19.72				
20	QPSK	350	49	19.82	19.88	19.88				
20	QPSK	400	0	19.77	19.73	19.89			20.5	1.5
20	QPSK	400	49	19.77	19.73	19.89				
20	QPSK	450	0	17.86	17.89	17.89				
20	QPSK	450	49	17.82	17.86	17.81			18.5	3.5
20	QPSK	500	0	17.73	17.83	17.80				
20	QPSK	500	49	17.73	17.83	17.80				
20	QPSK	550	0	17.75	17.81	17.69				
20	QPSK	550	49	17.75	17.81	17.69				
20	QPSK	600	0	18.95	18.90	18.95				
20	QPSK	600	49	18.97	18.92	18.95				
20	QPSK	650	0	20.98	21.00	20.99				
20	QPSK	650	49	20.98	21.00	20.99				
20	QPSK	700	0	20.93	21.00	20.97				
20	QPSK	700	49	20.93	21.00	20.97				
20	QPSK	750	0	20.93	21.00	20.97				
20	QPSK	750	49	20.93	21.00	20.97				
20	QPSK	800	0	20.93	21.00	20.97				
20	QPSK	800	49	20.93	21.00	20.97				
20	QPSK	850	0	20.93	21.00	20.97				
20	QPSK	850	49	20.93	21.00	20.97				
20	QPSK	900	0	20.93	21.00	20.97				
20	QPSK	900	49	20.93	21.00	20.97				
20	QPSK	950	0	20.93	21.00	20.97				
20	QPSK	950	49	20.93	21.00	20.97				
20	QPSK	1000	0	20.93	21.00	20.97				
20	QPSK	1000	49	20.93	21.00	20.97				
20	QPSK	1050	0	20.93	21.00	20.97				
20	QPSK	1050	49	20.93	21.00	20.97				
20	QPSK	1100	0	20.93	21.00	20.97				
20	QPSK	1100	49	20.93	21.00	20.97				
20	QPSK	1150	0	20.93	21.00	20.97				
20	QPSK	1150	49	20.93	21.00	20.97				
20	QPSK	1200	0	20.93	21.00	20.97				
20	QPSK	1200	49	20.93	21.00	20.97				
20	QPSK	1250	0	20.93	21.00	20.97				
20	QPSK	1250	49	20.93	21.00	20.97				
20	QPSK	1300	0	20.93	21.00	20.97				
20	QPSK	1300	49	20.93	21.00	20.97				
20	QPSK	1350	0	20.93	21.00	20.97				
20	QPSK	1350	49	20.93	21.00	20.97				
20	QPSK	1400	0	20.93	21.00	20.97				
20	QPSK	1400	49	20.93	21.00	20.97				
20	QPSK	1450	0	20.93	21.00	20.97				
20	QPSK	1450	49	20.93	21.00	20.97				
20	QPSK	1500	0	20.93	21.00	20.97				
20	QPSK	1500	49	20.93	21.00	20.97				
20	QPSK	1550	0	20.93	21.00	20.97				
20	QPSK	1550	49	20.93	21.00	20.97				
20	QPSK	1600	0	20.93	21.00	20.97				
20	QPSK	1600	49	20.93	21.00	20.97				
20	QPSK	1650	0	20.93	21.00	20.97				
20	QPSK	1650	49	20.93	21.00	20.97				
20	QPSK	1700	0	20.93	21.00	20.97				
20	QPSK	1700	49	20.93	21.00	20.97				
20	QPSK	1750	0	20.93	21.00	20.97				
20	QPSK	1750	49	20.93	21.00	20.97				
20	QPSK	1800	0	20.93	21.00	20.97				
20	QPSK	1800	49	20.93	21.00	20.97				
20	QPSK	1850	0	20.93	21.00	20.97				
20	QPSK	1850	49	20.93	21.00	20.97				
20	QPSK	1900	0	20.93	21.00	20.97				
20	QPSK	1900	49	20.93	21.00	20.97				
20	QPSK	1950	0	20.93	21.00	20.97				
20	QPSK	1950	49	20.93	21.00	20.97				
20	QPSK	2000	0	20.93	21.00	20.97				
20	QPSK	2000	49	20.93	21.00	20.97				
20	QPSK	2050	0	20.93	21.00	20.97				
20	QPSK	2050	49	20.93	21.00	20.97				
20	QPSK	2100	0	20.93	21.00	20.97				
20	QPSK	2100	49	20.93	21.00	20.97				
20	QPSK	2150	0	20.93	21.00	20.97				
20	QPSK	2150	49	20.93	21.00	20.97				
20	QPSK	2200	0	20.93	21.00	20.97				
20	QPSK	2200	49	20.93	21.00	20.97				
20	QPSK	2250	0	20.93	21.00	20.97				
20	QPSK	2250	49	20.93	21.00	20.97				
20	QPSK	2300	0	20.93	21.00	20.97				
20	QPSK	2300	49	20.93	21.00	20.97				
20	QPSK	2350	0	20.93	21.00	20.97				
20	QPSK	2350	49	20.93	21.00	20.97				
20	QPSK	2400	0	20.93	21.00	20.97				
20	QPSK	2400	49	20.93	21.00	20.97				
20	QPSK	2450	0	20.93	21.00	20.97				
20	QPSK	2450	49	20.93	21.00	20.97				
20	QPSK	2500	0	20.93	21.00	20.97				
20	QPSK	2500	49	20.93	21.00	20.97				
20	QPSK	2550	0	20.93	21.00	20.97				
20	QPSK	2550	49	20.93	21.00	20.97				
20	QPSK	2600	0	20.93	21.00	20.97				
20	QPSK	2600	49	20.93	21.00	20.97				
20	QPSK	2650	0	20.93	21.00	20.97				
20	QPSK	2650	49	20.93	21.00	20.97				
20	QPSK	2700	0	20.93	21.00	20.97				
20	QPSK	2700	49	20.93	21.00	20.97				
20	QPSK	2750	0	20.93	21.00	20.97				
20	QPSK	2750	49	20.93	21.00	20.97				
20	QPSK	2800	0	20.93	21.00	20.97				
20	QPSK	2800	49	20.93	21.00	20.97				
20	QPSK	2850	0	20.93	21.00	20.97				
20	QPSK	2850	49	20.93	21.00	20.97				
20	QPSK	2900	0	20.93	21.00	20.97				
20	QPSK	2900	49	20.93	21.00	20.97				
20	QPSK	2950	0	20.93	21.00	20.97				
20	QPSK	2950	49	20.93	21.00	20.97				
20	QPSK	3000	0	20.93	21.00	20.97				
20	QPSK	3000	49	20.93	21.00	20.97				
20	QPSK	3050	0	20.93	21.00	20.97				
20	QPSK	3050	49	20.93	21.00	20.97				
20	QPSK	3100	0	20.93	21.00	20.97				
20	QPSK	3100	49	20.93	21.00	20.97				
20	QPSK	3150	0	20.93	21.00	20.97				



Band 12 Default Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int. (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.81	21.73	21.68				
10	QPSK	1	25	21.90	21.80	21.52				
10	QPSK	1	49	21.47	21.49	21.92		23	0	
10	QPSK	25	0	21.60	21.70	21.55				
10	QPSK	25	12	21.65	21.63	21.63				
10	QPSK	25	25	21.46	21.48	21.46		23	0	
10	QPSK	50	0	21.51	21.57	21.45				
10	QPSK	50	12	21.55	21.50	21.51				
10	16QAM	1	25	21.40	21.48	21.36		23	0	
10	16QAM	1	49	21.35	21.46	21.44				
10	16QAM	25	0	21.39	21.50	21.49				
10	16QAM	25	12	21.34	21.48	21.40		22.5	0.5	
10	16QAM	25	25	21.38	21.39	21.41				
10	16QAM	50	0	21.52	21.56	21.40				
10	16QAM	1	0	21.34	21.50	21.36		22.5	0.5	
10	84QAM	1	25	21.26	21.26	21.52		22.5	0.5	
10	84QAM	1	49	21.24	21.38	21.28				
10	84QAM	25	0	20.49	20.53	20.43				
10	84QAM	25	12	20.57	20.43	20.31		21.5	1.5	
10	84QAM	25	25	20.33	20.34	20.33				
10	84QAM	50	0	20.25	20.27	20.31				
10	256QAM	1	25	18.44	18.42	18.36		19.5	3.5	
10	256QAM	1	49	18.41	18.37	18.33				
10	256QAM	25	0	18.26	18.26	18.35				
10	256QAM	25	12	18.26	18.37	18.36		18.5	3.5	
10	256QAM	25	25	18.24	18.32	18.32				
10	256QAM	50	0	18.33	18.35	18.30				
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.56	21.63	21.54				
5	QPSK	1	25	21.37	21.68	21.43		23	0	
5	QPSK	1	49	21.33	21.44	21.40				
5	QPSK	12	0	21.51	21.56	21.44				
5	QPSK	12	12	21.49	21.48	21.39		23	0	
5	QPSK	12	13	21.34	21.39	21.41				
5	QPSK	25	0	21.40	21.46	21.45				
5	16QAM	1	25	21.48	21.48	21.40		23	0	
5	16QAM	1	49	21.36	21.37	21.23				
5	16QAM	12	0	21.31	21.48	21.41				
5	16QAM	12	7	21.23	21.39	21.27		22.5	0.5	
5	16QAM	25	0	21.26	21.43	21.34				
5	84QAM	1	0	21.20	21.36	21.22		22.5	0.5	
5	84QAM	1	25	21.12	21.27	21.11				
5	84QAM	1	49	21.13	21.26	21.20				
5	84QAM	12	0	20.31	20.41	20.36		21.5	1.5	
5	84QAM	12	7	20.33	20.34	20.16				
5	84QAM	12	13	20.17	20.20	20.15				
5	84QAM	25	0	20.15	20.22	20.24				
5	256QAM	1	0	18.36	18.32	18.36		19.5	3.5	
5	256QAM	1	12	18.31	18.50	18.45				
5	256QAM	1	24	18.28	18.31	18.25				
5	256QAM	12	0	18.26	18.26	18.34				
5	256QAM	12	7	18.17	18.24	18.23		18.5	3.5	
5	256QAM	12	13	18.20	18.23	18.23				
5	256QAM	25	0	18.23	18.42	18.17				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.95	20.96	20.96				
3	QPSK	1	25	21.02	21.08	21.05		23	0	
3	QPSK	1	49	21.32	21.54	21.37				
3	QPSK	1	14	21.42	21.43	21.38				
3	QPSK	3	0	21.55	21.60	21.48				
3	QPSK	3	7	21.48	21.52	21.39		23	0	
3	QPSK	8	7	21.32	21.40	21.38				
3	QPSK	15	0	21.27	21.27	21.36				
3	16QAM	1	0	21.47	21.57	21.37		23	0	
3	16QAM	1	8	21.30	21.41	21.33				
3	16QAM	1	15	21.22	21.43	21.36				
3	16QAM	8	0	21.26	21.49	21.41		22.5	0.5	
3	16QAM	8	4	21.21	21.38	21.30				
3	16QAM	8	7	21.28	21.30	21.07				
3	16QAM	15	0	21.22	21.47	21.39		22.5	0.5	
3	84QAM	1	0	21.20	21.40	21.29		22.5	0.5	
3	84QAM	1	8	21.12	21.28	21.18				
3	84QAM	1	14	21.12	21.23	21.16				
3	84QAM	8	0	20.37	20.43	20.39		21.5	1.5	
3	84QAM	8	4	20.33	20.38	20.25				
3	84QAM	8	7	20.16	20.19	20.27				
3	256QAM	1	0	18.30	18.25	18.32		19.5	3.5	
3	256QAM	1	8	18.27	18.49	18.43				
3	256QAM	1	14	18.28	18.33	18.26				
3	256QAM	8	0	18.28	18.40	18.31		19.5	3.5	
3	256QAM	8	4	18.18	18.26	18.30				
3	256QAM	8	7	18.20	18.19	18.29				
3	256QAM	15	0	18.23	18.38	18.17				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	21.62	21.63	21.55				
1.4	QPSK	1	3	21.35	21.50	21.40		23	0	
1.4	QPSK	1	5	21.40	21.44	21.45				
1.4	QPSK	3	0	21.57	21.57	21.40				
1.4	QPSK	3	1	21.48	21.50	21.39		23	0	
1.4	QPSK	3	3	21.35	21.39	21.38				
1.4	16QAM	1	0	21.30	21.50	21.39		23	0	
1.4	16QAM	1	3	21.34	21.40	21.33				
1.4	16QAM	6	0	21.26	21.43	21.40		23	0	
1.4	16QAM	3	0	21.28	21.48	21.39				
1.4	16QAM	3	1	21.26	21.44	21.28				
1.4	16QAM	3	3	21.23	21.37	21.36		22.5	0.5	
1.4	84QAM	1	0	21.21	21.48	21.34		22.5	0.5	
1.4	84QAM	1	3	21.28	21.41	21.27				
1.4	84QAM	1	5	21.13	21.21	21.19				
1.4	84QAM	3	0	21.23	21.36	21.32		22.5	0.5	
1.4	84QAM	3	1	21.23	21.23	21.20				
1.4	84QAM	3	3	21.10	21.22	21.17				
1.4	84QAM	8	0	20.39	20.41	20.29		21.5	1.5	
1.4	256QAM	1	0	18.37	18.49	18.44		19.5	3.5	
1.4	256QAM	1	3	18.33	18.50	18.44				
1.4	256QAM	3	0	18.29	18.26	18.24				
1.4	256QAM	3	1	18.27	18.30	18.30		19.5	3.5	
1.4	256QAM	3	1	18.14	18.30	18.24				
1.4	256QAM	8	0	18.19	18.24	18.22		19.5	3.5	
1.4	256QAM	8	1	18.21	18.30	18.19				

Band 13 Default Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int. (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.67	21.67	21.67				
10	QPSK	1	25	21.48	21.47	21.47		23	0	
10	QPSK	1	49	21.50	21.50	21.50				
10	QPSK	25	0	21.63	21.63	21.63		23	0	
10	QPSK	25	12	21.52	21.52	21.52				
10	QPSK	25	25	21.39	21.39	21.39		23	0	
10	QPSK	50	0	21.50	21.50	21.50				
10	QPSK	50	12	21.51	21.50	21.50				
10	16QAM	1	25	21.45	21.45	21.45		23	0	
10	16QAM	1	49	21.45	21.45	21.45				
10	16QAM	25	0	21.42	21.42	21.42		22.5	0.5	
10	16QAM	25	12	21.40	21.40	21.40				
10	16QAM	25	25	21.40	21.40	21.40				
10	16QAM	50	0	21.39	21.39	21.39				
10	84QAM	1	0	21.19	21.19	21.19		22.5	0.5	
10	84QAM	1	25	21.04	21.04	21.04		22.5	0.5	
10	84QAM	1	49	21.02	21.02	21.02				
10										



Band 25 Default Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.00	21.11	21.06				
20	QPSK	1	48	20.83	20.94	20.89			22	0
20	QPSK	1	96	20.67	20.78	20.73				
20	QPSK	50	0	20.92	21.00	20.96				
20	QPSK	50	24	20.84	20.95	20.89				
20	QPSK	50	50	20.76	20.87	20.80			22	0
20	QPSK	100	0	20.89	21.02	20.94				
20	16QAM	50	0	20.87	21.00	20.93				
20	16QAM	1	48	20.83	20.93	20.89			22	0
20	16QAM	1	96	20.76	20.86	20.80				
20	16QAM	50	24	20.77	20.90	20.81			22	0
20	16QAM	50	50	20.74	20.79	20.75				
20	16QAM	100	0	20.82	20.96	20.79				
20	64QAM	1	0	20.88	21.00	20.97				
20	64QAM	1	48	20.92	20.97	20.89			22	0
20	64QAM	1	96	20.88	20.95	20.89				
20	64QAM	50	0	20.89	21.01	20.89				
20	64QAM	50	24	20.81	20.89	20.84				
20	64QAM	50	50	20.76	20.78	20.74			22	0
20	256QAM	1	48	17.82	17.87	17.88			19	3
20	256QAM	1	96	17.77	17.84	17.77				
20	256QAM	50	24	17.80	17.85	17.84			19	3
20	256QAM	50	50	17.71	17.82	17.78				
20	256QAM	100	0	17.82	17.83	17.82				
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.89	21.07	20.98				
15	QPSK	1	37	20.76	20.91	20.83			22	0
15	QPSK	1	74	20.75	20.84	20.78				
15	QPSK	36	0	20.83	20.94	20.91				
15	QPSK	36	25	20.80	20.91	20.87				
15	QPSK	36	39	20.82	20.79	20.74			22	0
15	QPSK	75	0	20.82	20.98	20.88				
15	16QAM	1	0	20.80	20.98	20.88				
15	16QAM	1	37	20.77	20.83	20.79			22	0
15	16QAM	1	74	20.86	20.98	20.92				
15	16QAM	36	0	20.91	20.96	20.91				
15	16QAM	36	29	20.71	20.86	20.74			22	0
15	16QAM	36	49	20.86	20.98	20.92				
15	16QAM	75	0	20.78	20.91	20.81				
15	64QAM	1	0	20.83	21.06	20.88				
15	64QAM	1	37	20.88	20.98	20.97			22	0
15	64QAM	1	74	20.74	20.85	20.77				
15	64QAM	36	0	20.76	20.86	20.75				
15	64QAM	36	29	20.76	20.86	20.75				
15	64QAM	36	39	20.82	20.83	20.80			22	0
15	64QAM	75	0	20.77	20.81	20.88				
15	256QAM	1	48	17.86	17.92	17.88			19	3
15	256QAM	1	96	17.88	17.93	17.79				
15	256QAM	50	24	17.80	17.85	17.84			19	3
15	256QAM	50	50	17.81	17.82	17.78				
15	256QAM	100	0	17.82	17.83	17.82				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.88	21.00	20.94				
10	QPSK	1	25	20.78	20.93	20.89			22	0
10	QPSK	1	49	20.78	20.80	20.73				
10	QPSK	12	0	20.86	20.98	20.92				
10	QPSK	25	12	20.77	20.77	20.76				
10	QPSK	25	25	20.63	20.78	20.73			22	0
10	QPSK	50	0	20.79	20.88	20.82				
10	16QAM	1	0	20.80	20.97	20.82				
10	16QAM	1	24	20.74	20.78	20.79			22	0
10	16QAM	1	48	20.76	20.88	20.78				
10	16QAM	25	0	20.77	20.91	20.75				
10	16QAM	25	12	20.68	20.85	20.74			22	0
10	16QAM	25	25	20.67	20.84	20.82				
10	16QAM	50	0	20.76	20.81	20.85				
10	64QAM	1	0	20.89	21.00	20.93				
10	64QAM	1	24	20.77	20.85	20.77			22	0
10	64QAM	1	48	20.84	20.80	20.85				
10	64QAM	25	0	20.79	20.88	20.74				
10	64QAM	25	12	20.68	20.87	20.77				
10	64QAM	25	25	20.65	20.86	20.82			22	0
10	64QAM	50	0	20.71	20.91	20.81				
10	256QAM	1	24	17.82	17.97	17.80			19	3
10	256QAM	1	48	17.71	17.75	17.82				
10	256QAM	50	0	17.80	17.85	17.86			19	3
10	256QAM	25	12	17.74	17.71	17.77				
10	256QAM	25	25	17.64	17.74	17.74			19	3
10	256QAM	50	0	17.82	17.86	17.79				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.88	21.00	20.94				
5	QPSK	1	25	20.78	20.93	20.89			22	0
5	QPSK	1	49	20.78	20.80	20.73				
5	QPSK	12	0	20.86	20.98	20.92				
5	QPSK	25	12	20.77	20.77	20.76				
5	QPSK	25	25	20.63	20.78	20.73			22	0
5	QPSK	50	0	20.79	20.88	20.82				
5	16QAM	1	0	20.80	20.97	20.82				
5	16QAM	1	24	20.74	20.78	20.79			22	0
5	16QAM	1	48	20.76	20.88	20.78				
5	16QAM	25	0	20.77	20.91	20.75				
5	16QAM	25	12	20.68	20.85	20.74			22	0
5	16QAM	25	25	20.67	20.84	20.82				
5	16QAM	50	0	20.76	20.81	20.85				
5	64QAM	1	0	20.89	21.00	20.93				
5	64QAM	1	24	20.77	20.85	20.77			22	0
5	64QAM	1	48	20.84	20.80	20.85				
5	64QAM	25	0	20.79	20.88	20.74				
5	64QAM	25	12	20.68	20.87	20.77				
5	64QAM	25	25	20.65	20.86	20.82			22	0
5	64QAM	50	0	20.71	20.91	20.81				
5	256QAM	1	24	17.82	17.97	17.80			19	3
5	256QAM	1	48	17.71	17.75	17.82				
5	256QAM	50	0	17.80	17.85	17.86			19	3
5	256QAM	25	12	17.74	17.71	17.77				
5	256QAM	25	25	17.64	17.74	17.74			19	3
5	256QAM	50	0	17.82	17.86	17.79				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.88	21.00	20.94				
3	QPSK	1	8	20.75	20.93	20.87			22	0
3	QPSK	1	14	20.71	20.87	20.79				
3	QPSK	8	0	20.81	21.02	20.91				
3	QPSK	8	4	20.73	20.83	20.76			22	0
3	QPSK	8	7	20.69	20.79	20.71				
3	QPSK	15	0	20.81	20.94	20.83				
3	16QAM	1	0	20.81	20.99	20.86			22	0
3	16QAM	1	8	20.78	20.84	20.85				
3	16QAM	1	14	20.85	20.79	20.72				
3	16QAM	8	0	20.76	20.86	20.79			22	0
3	16QAM	8	4	20.67	20.84	20.72				
3	16QAM	15	0	20.80	20.96	20.81				
3	16QAM	15	0	20.74	20.88	20.83				
3	64QAM	1	0	20.84	21.00	20.87				
3	64QAM	1	8	20.86	20.93	20.78			22	0
3	64QAM	1	14	20.81	20.79	20.69				
3	64QAM	8	0	20.79	20.84	20.79				
3	64QAM	8	4	20.71	20.82	20.73			22	0
3	64QAM	8	7	20.64	20.83	20.87				
3	256QAM	1	0	17.85	17.98	17.85			19	3
3	256QAM	1	8	17.81	17.96	17.83				
3	256QAM	1	14	17.71	17.69	17.83			19	3
3	2									



Band 66 Default Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power Hgh Ch./Freq.	Turn-up (dB)	APR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.03	21.12	20.97				
20	QPSK	1	49	20.91	21.00	20.85	22	0		
20	QPSK	1	99	20.86	20.90	20.79				
20	QPSK	50	0	20.87	21.07	20.96				
20	QPSK	50	24	20.83	20.98	20.84				
20	QPSK	50	50	20.80	20.87	20.88				
20	QPSK	100	0	20.84	20.95	20.82				
20	16QAM	1	0	20.90	20.92	20.87				
20	16QAM	1	49	20.74	20.80	20.80	22	0		
20	16QAM	1	99	20.78	20.82	20.73				
20	16QAM	50	0	20.71	20.97	20.79				
20	16QAM	50	24	20.84	20.80	20.85				
20	16QAM	50	50	20.83	20.80	20.80				
20	16QAM	100	0	20.83	20.80	20.80				
20	64QAM	1	0	20.81	20.92	20.74				
20	64QAM	1	49	20.75	20.86	20.77	22	0		
20	64QAM	1	99	20.85	20.80	20.80				
20	64QAM	50	0	20.81	20.79	20.69				
20	64QAM	50	24	20.59	20.70	20.56				
20	64QAM	50	50	20.56	20.60	20.49				
20	64QAM	100	0	20.74	20.83	20.82	22	0		
20	256QAM	1	49	17.67	17.69	17.61				
20	256QAM	1	99	17.93	17.91	17.95	19	3		
20	256QAM	1	99	17.79	17.80	17.85				
20	256QAM	50	24	17.60	17.75	17.80				
20	256QAM	50	24	17.60	17.58	17.52				
20	256QAM	50	50	17.47	17.58	17.47	19	3		
20	256QAM	100	0	17.73	17.50	17.40				
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.92	21.07	20.92				
15	QPSK	1	39	20.78	20.90	20.79	22	0		
15	QPSK	1	74	20.77	20.70	20.71				
15	QPSK	36	0	20.78	21.01	20.83				
15	QPSK	36	20	20.75	20.70	20.70				
15	QPSK	36	39	20.87	20.83	20.79	22	0		
15	QPSK	75	0	20.74	20.82	20.74				
15	16QAM	1	0	20.81	20.83	20.75				
15	16QAM	1	39	20.73	20.83	20.77	22	0		
15	16QAM	1	74	20.69	20.70	20.64				
15	16QAM	36	0	20.99	20.74	20.84				
15	16QAM	36	20	20.54	20.54	20.51				
15	16QAM	75	0	20.75	20.80	20.70				
15	64QAM	1	0	20.71	20.80	20.69				
15	64QAM	1	39	20.81	20.80	20.80	22	0		
15	64QAM	1	74	20.54	20.55	20.55				
15	64QAM	36	0	20.86	20.70	20.62				
15	64QAM	36	20	20.53	20.40	20.48				
15	64QAM	36	39	20.48	20.52	20.38	22	0		
15	64QAM	75	0	20.87	20.80	20.88				
15	256QAM	1	74	17.76	17.80	17.81				
15	256QAM	1	39	17.78	17.80	17.83	19	3		
15	256QAM	1	74	17.85	17.85	17.81				
15	256QAM	36	0	17.46	17.50	17.46				
15	256QAM	36	20	17.47	17.50	17.41				
15	256QAM	36	39	17.37	17.50	17.33	19	3		
15	256QAM	75	0	17.44	17.43	17.74				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.91	21.01	20.81				
10	QPSK	1	25	20.83	20.80	20.71	22	0		
10	QPSK	1	49	20.82	20.78	20.72				
10	QPSK	25	0	20.78	20.70	20.68				
10	QPSK	25	12	20.68	20.78	20.79				
10	QPSK	25	25	20.76	20.81	20.74	22	0		
10	16QAM	1	0	20.81	20.83	20.74				
10	16QAM	1	25	20.66	20.75	20.74	22	0		
10	16QAM	1	49	20.73	20.80	20.84				
10	16QAM	25	0	20.58	20.81	20.65				
10	16QAM	25	12	20.54	20.58	20.60				
10	16QAM	25	25	20.66	20.60	20.48	22	0		
10	64QAM	1	0	20.80	20.82	20.68				
10	64QAM	1	25	20.72	20.86	20.71	22	0		
10	64QAM	1	49	20.81	20.72	20.64				
10	64QAM	1	49	20.51	20.55	20.58				
10	64QAM	25	0	20.47	20.71	20.57				
10	64QAM	25	12	20.48	20.48	20.43				
10	64QAM	25	25	20.47	20.46	20.45	22	0		
10	64QAM	50	0	20.87	20.79	20.75				
10	256QAM	1	49	17.86	17.82	17.82				
10	256QAM	1	25	17.88	17.86	17.87				
10	256QAM	1	49	17.85	17.78	17.79	19	3		
10	256QAM	25	0	17.53	17.43	17.59				
10	256QAM	25	12	17.57	17.50	17.45				
10	256QAM	25	25	17.36	17.46	17.43	19	3		
10	256QAM	50	0	17.62	17.62	17.78				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.81	20.80	20.81				
5	QPSK	1	12	20.85	20.82	20.79	22	0		
5	QPSK	1	24	20.80	20.82	20.68				
5	QPSK	12	0	20.75	20.80	20.80				
5	QPSK	12	7	20.76	20.70	20.71				
5	QPSK	12	13	20.87	20.80	20.79	22	0		
5	QPSK	25	0	20.73	20.80	20.87				
5	16QAM	1	0	20.81	20.80	20.76				
5	16QAM	1	12	20.84	20.73	20.75	22	0		
5	16QAM	1	24	20.75	20.72	20.60				
5	16QAM	12	0	20.87	20.72	20.84				
5	16QAM	12	7	20.58	20.57	20.60	22	0		
5	16QAM	12	13	20.80	20.80	20.84				
5	64QAM	1	0	20.70	20.83	20.66				
5	64QAM	1	12	20.65	20.77	20.64	22	0		
5	64QAM	1	24	20.82	20.54	20.81				
5	64QAM	12	0	20.53	20.67	20.60				
5	64QAM	12	7	20.48	20.50	20.49				
5	64QAM	12	13	20.50	20.53	20.39	22	0		
5	64QAM	25	0	20.70	20.77	20.70				
5	256QAM	1	0	17.82	17.80	17.83				
5	256QAM	1	12	17.80	17.80	17.82	19	3		
5	256QAM	1	24	17.70	17.76	17.71				
5	256QAM	12	0	17.85	17.80	17.80				
5	256QAM	12	7	17.54	17.50	17.47	19	3		
5	256QAM	12	13	17.39	17.49	17.44				
5	256QAM	25	0	17.44	17.38	17.75				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.11	21.08	20.12				
3	QPSK	1	8	20.85	20.86	20.74	22	0		
3	QPSK	1	14	20.75	20.85	20.66				
3	QPSK	8	0	20.72	20.80	20.86				
3	QPSK	8	4	20.74	20.80	20.80				
3	QPSK	8	7	20.69	20.82	20.85	22	0		
3	QPSK	15	0	20.72	20.84	20.78				
3	16QAM	1	0	20.87	20.82	20.80				
3	16QAM	1	8	20.83	20.77	20.73	22	0		
3	16QAM	1	14	20.70	20.80	20.67				
3	16QAM	8	0	20.80	20.83	20.74				
3	16QAM	8	4	20.55	20.53	20.58	22	0		
3	16QAM	8	7	20.65	20.61	20.65				
3	64QAM	1	0	20.69	20.82	20.64				
3	64QAM	1	8	20.84	20.72	20.84	22	0		
3	64QAM	1	14	20.51	20.57	20.59				
3	64QAM	8	0	20.49	20.80	20.69				
3	64QAM	8	4	20.45	20.61	20.46				
3	64QAM	8	7	20.49	20.5					



Band 38 Default Ant 1												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel				37850	38000	38150						
Frequency (MHz)				2580	2595	2610						
20	QPSK	1	0	22.41	22.53	22.49	23	0				
20	QPSK	1	49	22.32	22.35	22.39						
20	QPSK	1	99	22.25	22.29	22.29	23	0				
20	QPSK	50	0	22.29	22.48	22.39						
20	QPSK	50	24	22.24	22.36	22.32	23	0				
20	QPSK	50	50	22.24	22.28	22.28						
20	QPSK	100	0	22.26	22.45	22.33	23	0				
20	16QAM	1	0	22.35	22.51	22.39						
20	16QAM	1	49	22.31	22.35	22.28	23	0				
20	16QAM	1	99	22.27	22.30	22.24						
20	16QAM	50	0	21.97	22.14	21.95	23	0				
20	16QAM	50	24	21.91	21.95	21.93						
20	16QAM	50	50	21.88	21.92	21.89	23	0				
20	16QAM	100	0	21.95	22.09	21.99						
20	64QAM	1	0	22.29	22.47	22.39	23	0				
20	64QAM	1	49	22.28	22.36	22.28						
20	64QAM	1	99	22.16	22.24	22.22	23	0				
20	64QAM	50	0	21.93	22.11	22.00						
20	64QAM	50	24	21.89	22.03	21.90	22.5	0.5				
20	64QAM	50	50	21.80	21.94	21.85						
20	64QAM	100	0	21.91	22.05	21.98	20.5	2.5				
20	256QAM	1	0	18.33	19.00	18.85						
20	256QAM	1	49	18.79	19.00	18.76	20.5	2.5				
20	256QAM	1	99	18.76	18.77	18.78						
20	256QAM	50	0	18.95	19.16	18.97	20.5	2.5				
20	256QAM	50	24	18.97	19.06	18.96						
20	256QAM	50	50	18.89	18.95	18.94	20.5	2.5				
20	256QAM	100	0	19.00	19.15	18.96						
Channel				37925	38000	38175						
Frequency (MHz)				2577.5	2595	2612.5						
15	QPSK	1	0	22.26	22.49	22.41	23	0				
15	QPSK	1	37	22.19	22.23	22.30						
15	QPSK	1	74	22.12	22.20	22.21	23	0				
15	QPSK	36	0	22.23	22.33	22.34						
15	QPSK	36	20	22.14	22.22	22.19	23	0				
15	QPSK	36	39	22.11	22.16	22.24						
15	QPSK	75	0	22.18	22.39	22.23	23	0				
15	16QAM	1	0	22.26	22.39	22.27						
15	16QAM	1	37	22.21	22.24	22.20	23	0				
15	16QAM	1	74	22.15	22.25	22.15						
15	16QAM	36	0	21.94	22.08	21.82	23	0				
15	16QAM	36	20	21.82	21.84	21.86						
15	16QAM	36	39	21.78	21.84	21.86	23	0				
15	16QAM	75	0	21.81	22.06	21.94						
15	64QAM	1	0	22.15	22.37	22.36	23	0				
15	64QAM	1	37	22.17	22.26	22.23						
15	64QAM	1	74	22.06	22.11	22.15	22.5	0.5				
15	64QAM	36	0	21.85	21.96	21.87						
15	64QAM	36	20	21.83	21.92	21.78	22.5	0.5				
15	64QAM	36	39	21.68	21.82	21.81						
15	64QAM	75	0	21.82	21.91	21.86	20.5	2.5				
15	256QAM	1	0	18.77	18.90	18.81						
15	256QAM	1	37	18.70	18.91	18.72	20.5	2.5				
15	256QAM	1	74	18.67	18.74	18.74						
15	256QAM	36	0	18.86	19.11	18.92	20.5	2.5				
15	256QAM	36	20	18.93	18.94	18.86						
15	256QAM	36	39	18.85	18.88	18.84	20.5	2.5				
15	256QAM	75	0	18.89	19.10	18.89						
Channel				37800	38000	38200						
Frequency (MHz)				2575	2595	2615						
10	QPSK	1	0	22.29	22.47	22.41	23	0				
10	QPSK	1	25	22.23	22.30	22.27						
10	QPSK	1	49	22.19	22.21	22.25	23	0				
10	QPSK	25	0	22.23	22.36	22.27						
10	QPSK	25	12	22.21	22.29	22.25	23	0				
10	QPSK	25	25	22.14	22.20	22.22						
10	QPSK	50	0	22.14	22.37	22.26	23	0				
10	16QAM	1	0	22.25	22.38	22.31						
10	16QAM	1	25	22.27	22.23	22.18	23	0				
10	16QAM	1	49	22.15	22.16	22.12						
10	16QAM	25	0	21.85	22.03	21.80	23	0				
10	16QAM	25	12	21.87	21.91	21.86						
10	16QAM	25	25	21.78	21.85	21.77	23	0				
10	16QAM	50	0	21.87	22.00	21.86						
10	64QAM	1	0	22.18	22.33	22.27	23	0				
10	64QAM	1	25	22.21	22.31	22.23						
10	64QAM	1	49	22.03	22.10	22.12	22.5	0.5				
10	64QAM	25	0	21.78	22.07	21.87						
10	64QAM	25	12	21.76	21.97	21.76	22.5	0.5				
10	64QAM	25	25	21.77	21.87	21.71						
10	64QAM	50	0	21.77	21.95	21.81	20.5	2.5				
10	256QAM	1	0	18.76	18.92	18.70						
10	256QAM	1	25	18.64	18.91	18.72	20.5	2.5				
10	256QAM	1	49	18.62	18.73	18.68						
10	256QAM	25	0	18.83	19.11	18.88	20.5	2.5				
10	256QAM	25	12	18.90	19.03	18.92						
10	256QAM	25	25	18.77	18.84	18.87	20.5	2.5				
10	256QAM	50	0	18.91	19.04	18.86						
Channel				37775	38000	38225						
Frequency (MHz)				2572.5	2595	2617.5						
5	QPSK	1	0	22.26	22.40	22.42	23	0				
5	QPSK	1	12	22.27	22.21	22.34						
5	QPSK	1	24	22.17	22.17	22.21	23	0				
5	QPSK	12	0	22.16	22.34	22.28						
5	QPSK	12	7	22.12	22.26	22.22	23	0				
5	QPSK	12	13	22.21	22.21	22.17						
5	QPSK	25	0	22.21	22.31	22.23	23	0				
5	16QAM	1	0	22.31	22.41	22.34						
5	16QAM	1	12	22.21	22.24	22.13	23	0				
5	16QAM	1	24	22.13	22.17	22.18						
5	16QAM	12	0	21.89	22.08	21.90	23	0				
5	16QAM	12	7	21.81	21.89	21.88						
5	16QAM	12	13	21.80	21.86	21.85	23	0				
5	16QAM	25	0	21.85	22.04	21.95						
5	64QAM	1	0	22.20	22.35	22.24	23	0				
5	64QAM	1	12	22.14	22.25	22.20						
5	64QAM	1	24	22.04	22.14	22.08	23	0				
5	64QAM	12	0	21.86	22.08	21.86						
5	64QAM	12	7	21.78	21.88	21.82	22.5	0.5				
5	64QAM	12	13	21.76	21.79	21.73						
5	64QAM	25	0	21.78	21.96	21.92	20.5	2.5				
5	256QAM	1	0	18.73	18.88	18.71						
5	256QAM	1	12	18.72	18.87	18.66	20.5	2.5				
5	256QAM	1	24	18.64	18.73	18.70						
5	256QAM	12	0	18.87	19.09	18.90	20.5	2.5				
5	256QAM	12	7	18.82	19.01	18.84						
5	256QAM	12	13	18.85	18.88	18.90	20.5	2.5				
5	256QAM	25	0	18.95	19.08	18.91						

Band 41 FCC&IC Ant 1												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				39750	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	23.67	23.70	23.75	23.54	23.60	24	0		
20	QPSK	1	49	23.55	23.62	23.65	23.51	23.52				
20	QPSK	1	99	23.48	23.56	23.59	23.50	23.46	23	1		
20	QPSK	50	0	22.58	22.56	22.72	22.60	22.66				
20	QPSK	50	24	22.50	22.51	22.64	22.54	22.47	23	1		
20	QPSK	50	50	22.50	22.42	22.54	22.50	22.47				
20	QPSK	100	0	22.60	22.58	22.69	22.55	22.59	23	1		
20	16QAM	1	0	22.80	22.67	22.88	22.75	22.77				
20	16Q											



Band 41 PC2 FCC&IC Ant 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	25.50	25.47	25.64	25.41	25.55	27	0
20	QPSK	1	49	25.33	25.40	25.58	25.35	25.53		
20	QPSK	1	99	25.29	25.33	25.51	25.31	25.41		
20	QPSK	50	0	25.33	25.30	25.49	25.29	25.37	27	0
20	QPSK	50	24	25.27	25.29	25.46	25.27	25.33		
20	QPSK	50	50	25.18	25.22	25.40	25.18	25.26		
20	QPSK	100	0	25.19	25.19	25.38	25.22	25.28		
20	16QAM	1	0	25.18	25.28	25.42	25.23	25.34	27	0
20	16QAM	1	49	25.20	25.14	25.39	25.16	25.28		
20	16QAM	1	99	25.16	25.13	25.35	25.12	25.27		
20	16QAM	50	0	24.29	24.40	24.53	24.34	24.44		
20	16QAM	50	24	24.32	24.26	24.50	24.27	24.42	26	1
20	16QAM	50	50	24.21	24.24	24.46	24.22	24.39		
20	16QAM	100	0	24.25	24.23	24.42	24.19	24.28		
20	64QAM	1	0	24.57	24.66	24.80	24.57	24.75		
20	64QAM	1	49	24.55	24.52	24.74	24.54	24.66	26	1
20	64QAM	1	99	24.52	24.55	24.70	24.50	24.65		
20	64QAM	50	0	23.37	23.35	23.56	23.39	23.46		
20	64QAM	50	24	23.33	23.33	23.53	23.31	23.45	25	2
20	64QAM	50	50	23.35	23.25	23.49	23.33	23.44		
20	64QAM	100	0	23.23	23.29	23.44	23.31	23.33		
20	256QAM	1	0	21.51	21.49	21.68	21.44	21.58		
20	256QAM	1	49	21.43	21.41	21.61	21.42	21.52	23	4
20	256QAM	1	99	21.30	21.36	21.55	21.41	21.51		
20	256QAM	50	0	21.37	21.38	21.52	21.34	21.45		
20	256QAM	50	24	21.27	21.23	21.46	21.24	21.39		
20	256QAM	50	50	21.23	21.26	21.41	21.20	21.35	23	4
20	256QAM	100	0	21.10	21.12	21.34	21.15	21.24		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	25.47	25.39	25.51	25.38	25.50	27.00	0
15	QPSK	1	37	25.29	25.33	25.48	25.29	25.46		
15	QPSK	1	74	25.15	25.26	25.38	25.24	25.30		
15	QPSK	36	0	25.25	25.24	25.46	25.24	25.26	27	0
15	QPSK	36	20	25.13	25.15	25.43	25.21	25.21		
15	QPSK	36	39	25.04	25.11	25.30	25.08	25.12		
15	QPSK	75	0	25.04	25.06	25.28	25.17	25.24		
15	16QAM	1	0	25.05	25.14	25.32	25.16	25.28	27	0
15	16QAM	1	37	25.05	25.11	25.27	25.03	25.20		
15	16QAM	1	74	25.10	25.00	25.28	25.07	25.21		
15	16QAM	36	0	24.17	24.33	24.39	24.24	24.35		
15	16QAM	36	20	24.25	24.18	24.44	24.15	24.31	26	1
15	16QAM	36	39	24.11	24.09	24.37	24.10	24.26		
15	16QAM	75	0	24.20	24.08	24.29	24.05	24.17		
15	64QAM	1	0	24.44	24.57	24.72	24.47	24.70		
15	64QAM	1	37	24.49	24.48	24.63	24.46	24.55	26	1
15	64QAM	1	74	24.42	24.42	24.62	24.38	24.61		
15	64QAM	36	0	23.26	23.22	23.47	23.29	23.34		
15	64QAM	36	20	23.23	23.28	23.40	23.19	23.33	25	2
15	64QAM	36	39	23.22	23.16	23.36	23.21	23.39		
15	64QAM	75	0	23.19	23.25	23.32	23.18	23.23		
15	256QAM	1	0	21.44	21.44	21.54	21.33	21.45		
15	256QAM	1	37	21.29	21.29	21.56	21.28	21.46	23	4
15	256QAM	1	74	21.25	21.29	21.52	21.31	21.41		
15	256QAM	36	0	21.28	21.27	21.39	21.26	21.30		
15	256QAM	36	20	21.12	21.14	21.34	21.18	21.27	23	4
15	256QAM	36	39	21.14	21.22	21.37	21.12	21.30		
15	256QAM	75	0	21.06	21.19	21.21	21.00	21.10		
Channel				39700	40160	40620	41090	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	25.38	25.38	25.57	25.37	25.48	27.00	0
10	QPSK	1	25	25.25	25.31	25.46	25.25	25.42		
10	QPSK	1	49	25.21	25.18	25.38	25.17	25.37		
10	QPSK	25	0	25.22	25.18	25.46	25.22	25.32	27	0
10	QPSK	25	12	25.17	25.21	25.43	25.22	25.26		
10	QPSK	25	25	25.04	25.13	25.35	25.10	25.14		
10	QPSK	50	0	25.15	25.06	25.31	25.14	25.24		
10	16QAM	1	0	25.06	25.20	25.30	25.17	25.24	27	0
10	16QAM	1	25	25.06	25.05	25.33	25.12	25.25		
10	16QAM	1	49	25.09	25.07	25.30	25.17	25.24		
10	16QAM	25	0	24.21	24.28	24.44	24.25	24.39		
10	16QAM	25	12	24.23	24.19	24.46	24.18	24.29	26	1
10	16QAM	25	25	24.13	24.11	24.43	24.17	24.35		
10	16QAM	50	0	24.17	24.12	24.31	24.16	24.22		
10	64QAM	1	0	24.44	24.56	24.74	24.49	24.63		
10	64QAM	1	25	24.43	24.46	24.60	24.49	24.61	26	1
10	64QAM	1	49	24.38	24.51	24.59	24.41	24.56		
10	64QAM	25	0	23.23	23.26	23.51	23.31	23.36		
10	64QAM	25	12	23.29	23.27	23.41	23.17	23.32	25	2
10	64QAM	25	25	23.25	23.12	23.45	23.19	23.38		
10	64QAM	50	0	23.14	23.16	23.35	23.25	23.25		
10	256QAM	1	0	21.45	21.46	21.56	21.35	21.48		
10	256QAM	1	25	21.29	21.34	21.51	21.37	21.46	23	4
10	256QAM	1	49	21.26	21.25	21.47	21.33	21.42		
10	256QAM	25	0	21.33	21.29	21.44	21.25	21.41		
10	256QAM	25	12	21.21	21.11	21.32	21.16	21.33	23	4
10	256QAM	25	25	21.11	21.14	21.27	21.11	21.29		
10	256QAM	50	0	21.04	21.04	21.24	21.09	21.18		
Channel				39675	40148	40620	41093	41585	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	25.37	25.39	25.54	25.38	25.47	27.00	0
5	QPSK	1	12	25.22	25.27	25.44	25.26	25.43		
5	QPSK	1	24	25.15	25.21	25.39	25.19	25.29		
5	QPSK	12	0	25.20	25.27	25.38	25.21	25.32	27	0
5	QPSK	12	7	25.17	25.25	25.32	25.23	25.22		
5	QPSK	12	13	25.09	25.17	25.28	25.07	25.23		
5	QPSK	25	0	25.10	25.04	25.35	25.12	25.17		
5	16QAM	1	0	25.09	25.19	25.32	25.18	25.23	27	0
5	16QAM	1	12	25.15	25.00	25.27	25.05	25.22		
5	16QAM	1	24	25.07	25.02	25.25	25.04	25.16		
5	16QAM	12	0	24.22	24.35	24.43	24.28	24.41		
5	16QAM	12	7	24.24	24.18	24.44	24.12	24.36	26	1
5	16QAM	12	13	24.11	24.13	24.32	24.16	24.35		
5	16QAM	25	0	24.18	24.16	24.30	24.05	24.18		
5	64QAM	1	0	24.50	24.63	24.72	24.45	24.72		
5	64QAM	1	12	24.46	24.43	24.68	24.39	24.60	26	1
5	64QAM	1	24	24.45	24.41	24.58	24.42	24.53		
5	64QAM	12	0	23.24	23.31	23.46	23.31	23.31		
5	64QAM	12	7	23.20	23.29	23.44	23.24	23.42	25	2
5	64QAM	12	13	23.31	23.11	23.45	23.25	23.37		
5	64QAM	25	0	23.11	23.21	23.33	23.19	23.29		
5	256QAM	1	0	21.38	21.34	21.57	21.39	21.48		
5	256QAM	1	12	21.33	21.36	21.50	21.28	21.49	23	4
5	256QAM	1	24	21.						



GSM1900 Ariz2		Default						
GSM1900		Burst Average Power (dBm)			Tune-up	Frame-Average Power (dBm)		Tune-up
TX Channel		512	661	510	Limit	572	661	810
Frequency (MHz)		1852.2	1880	1909.8		1852.2	1880	1909.8
GSM 1 Tx slot		28.25	28.33	28.19	29.00	19.25	19.33	19.19
GPRS 1 Tx slot		28.23	28.28	28.13	29.00	19.23	19.28	19.13
GPRS 2 Tx slots		25.46	25.53	25.40	26.50	19.46	19.53	19.40
GPRS 3 Tx slots		23.98	24.13	24.00	25.00	19.72	19.87	19.74
GPRS 4 Tx slots		21.95	22.09	21.96	23.00	18.95	19.09	18.96
EDGE 1 Tx slot		23.59	23.64	23.61	24.50	14.59	14.64	14.61
EDGE 2 Tx slots		21.96	22.03	21.92	23.00	15.96	16.03	15.92
EDGE 3 Tx slots		20.78	20.85	20.70	21.50	16.52	16.59	16.44
EDGE 4 Tx slots		18.71	18.71	18.68	19.50	15.71	15.74	15.68
		WCDMA I Ariz2			WCDMA IV Ariz2			
Band		WCDMA I			Tune-up	WCDMA IV		Tune-up
TX Channel		9262	9400	9538	Limit	1312	1413	1513
Rx Channel		9662	9800	9938		1537	1638	1738
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6
3GPP Rel 99	AMR 12.2Kbps	18.03	18.19	18.10	19.20	20.87	20.89	20.83
3GPP Rel 99	RMC 12.2Kbps	18.23	18.25	18.17	19.20	20.89	20.96	20.91
3GPP Rel 6	HSDPA Subtest-1	17.23	17.22	16.99	18.20	19.95	20.04	19.99
3GPP Rel 6	HSDPA Subtest-2	17.14	17.25	17.15	18.20	19.89	20.07	19.80
3GPP Rel 6	HSDPA Subtest-3	16.58	16.72	16.59	17.70	19.35	19.45	19.40
3GPP Rel 6	HSDPA Subtest-4	16.58	16.76	16.67	17.70	19.43	19.67	19.40
3GPP Rel 8	DC-HSDPA Subtest-1	17.14	17.29	17.13	18.20	19.85	19.97	19.80
3GPP Rel 8	DC-HSDPA Subtest-2	16.84	17.05	16.84	18.20	19.74	19.83	19.72
3GPP Rel 8	DC-HSDPA Subtest-3	16.38	16.40	16.54	17.70	19.26	19.30	19.23
3GPP Rel 8	DC-HSDPA Subtest-4	16.48	16.53	16.44	17.70	19.16	19.33	19.24
3GPP Rel 6	HSUPA Subtest-1	17.17	17.23	17.28	18.20	19.86	20.08	19.97
3GPP Rel 6	HSUPA Subtest-2	15.15	15.13	15.00	16.20	17.85	17.89	17.82
3GPP Rel 6	HSUPA Subtest-3	16.18	16.13	16.17	17.20	18.95	18.87	18.86
3GPP Rel 6	HSUPA Subtest-4	15.16	15.09	15.05	16.20	17.75	17.86	17.69
3GPP Rel 6	HSUPA Subtest-5	17.09	17.28	17.08	18.20	19.81	19.99	19.89



Band 2 DSI2_Simultaneous Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (min)	MPR (dB)		
Channel	Ch. 1/Freq.	Ch. 2/Freq.	Ch. 3/Freq.	Ch. 1/Freq.	Ch. 2/Freq.	Ch. 3/Freq.				
20	QPSK	1	0	18.25	18.32	18.29				
20	QPSK	1	49	18.12	18.20	18.16				
20	QPSK	1	99	18.19	18.28	18.25				
20	QPSK	50	0	18.13	18.24	18.20				
20	QPSK	50	24	18.12	18.17	18.15				
20	QPSK	50	50	18.08	18.20	18.18				
20	QPSK	100	0	18.14	18.17	18.16				
20	QPSK	100	24	18.15	18.20	18.18				
20	QPSK	1	49	18.14	18.19	18.21				
20	QPSK	1	99	18.13	18.17	18.17				
20	QPSK	50	24	18.05	18.17	18.16				
20	QPSK	50	50	18.08	18.20	18.18				
20	QPSK	100	0	18.11	18.16	18.17				
20	QPSK	100	24	18.12	18.19	18.20				
20	QPSK	1	49	18.04	18.17	18.09				
20	QPSK	1	99	18.05	18.16	18.09				
20	QPSK	50	24	18.02	18.13	18.09				
20	QPSK	50	50	18.12	18.22	18.03				
20	QPSK	100	0	18.07	18.24	18.07				
20	QPSK	100	24	18.05	18.20	17.99				
20	QPSK	1	99	18.02	18.08	18.02				
20	QPSK	50	24	18.00	18.14	18.01				
20	QPSK	50	50	18.02	18.13	18.03				
20	QPSK	100	0	17.95	17.99	17.86				
20	QPSK	100	24	17.86	17.85	17.88				
20	QPSK	100	50	17.85	17.86	17.85				
20	QPSK	100	99	18.05	18.00	18.25				
Channel	18975	18980	18925	Turn-up (min)	MPR (dB)					
15	QPSK	1	0	18.22	18.30	18.22				
15	QPSK	1	49	18.14	18.20	18.17				
15	QPSK	1	99	18.17	18.28	18.23				
15	QPSK	36	0	18.04	18.21	18.13				
15	QPSK	36	24	18.05	18.20	18.18				
15	QPSK	36	36	18.03	18.17	18.13				
15	QPSK	75	0	18.11	18.21	18.12				
15	QPSK	75	24	18.07	18.24	18.07				
15	QPSK	1	37	18.05	18.12	18.17				
15	QPSK	1	74	18.06	18.19	18.16				
15	QPSK	36	36	18.06	18.21	18.13				
15	QPSK	36	20	18.00	18.11	18.16				
15	QPSK	36	50	18.00	18.10	18.10				
15	QPSK	75	0	18.04	18.14	18.12				
15	QPSK	75	24	18.05	18.15	18.16				
15	QPSK	75	36	18.07	18.19	18.09				
15	QPSK	36	39	18.04	18.12	18.05				
15	QPSK	36	50	18.01	18.13	18.05				
15	QPSK	75	0	18.09	18.10	18.07				
15	QPSK	75	24	18.08	18.18	18.08				
15	QPSK	1	37	18.00	18.18	17.88				
15	QPSK	1	74	17.86	17.89	17.82				
15	QPSK	36	39	17.71	17.81	17.82				
15	QPSK	36	20	17.71	17.81	17.82				
15	QPSK	75	0	17.83	17.82	17.82				
15	QPSK	75	24	17.77	17.83	17.83				
Channel	18955	18960	18905	Turn-up (min)	MPR (dB)					
10	QPSK	1	0	18.22	18.29	18.22				
10	QPSK	1	49	18.14	18.23	18.22				
10	QPSK	1	99	18.17	18.28	18.23				
10	QPSK	25	0	18.06	18.11	18.15				
10	QPSK	25	24	18.07	18.17	18.11				
10	QPSK	25	50	18.12	18.22	18.09				
10	QPSK	1	37	18.05	18.12	18.17				
10	QPSK	1	74	18.06	18.19	18.16				
10	QPSK	25	36	18.06	18.21	18.13				
10	QPSK	25	20	18.00	18.11	18.16				
10	QPSK	25	50	18.00	18.10	18.10				
10	QPSK	75	0	18.07	18.14	18.12				
10	QPSK	75	24	18.08	18.18	18.12				
10	QPSK	1	37	18.00	18.18	17.88				
10	QPSK	1	74	17.86	17.89	17.82				
10	QPSK	25	39	17.71	17.81	17.82				
10	QPSK	25	20	17.71	17.81	17.82				
10	QPSK	75	0	17.83	17.82	17.82				
10	QPSK	75	24	17.77	17.83	17.83				
Channel	18925	18930	18875	Turn-up (min)	MPR (dB)					
5	QPSK	1	0	18.14	18.23	18.16				
5	QPSK	1	24	18.17	18.25	18.18				
5	QPSK	1	49	18.18	18.28	18.18				
5	QPSK	12	7	18.09	18.13	18.13				
5	QPSK	12	13	18.06	18.14	18.14				
5	QPSK	25	0	18.08	18.18	18.12				
5	QPSK	25	24	18.09	18.14	18.12				
5	QPSK	1	37	18.08	18.20	18.08				
5	QPSK	1	74	18.08	18.19	18.15				
5	QPSK	12	7	18.00	18.09	18.15				
5	QPSK	12	13	18.06	18.11	18.14				
5	QPSK	25	0	18.02	18.12	18.09				
5	QPSK	25	24	18.00	18.10	18.08				
5	QPSK	1	37	18.00	18.18	17.87				
5	QPSK	1	74	17.82	17.87	17.87				
5	QPSK	12	13	18.02	18.00	18.00				
5	QPSK	12	19	18.01	18.09	18.07				
5	QPSK	25	0	18.11	18.05	18.00				
5	QPSK	25	24	18.00	18.11	18.04				
5	QPSK	1	37	18.01	18.18	17.92				
5	QPSK	1	74	17.82	17.82	17.81				
5	QPSK	12	13	17.82	17.82	17.81				
5	QPSK	12	19	17.76	17.82	17.81				
5	QPSK	25	0	17.71	17.82	17.82				
5	QPSK	25	24	17.71	17.82	17.82				
5	QPSK	75	0	17.83	17.82	17.82				
5	QPSK	75	24	17.77	17.83	17.83				
Channel	18905	18910	18855	Turn-up (min)	MPR (dB)					
3	QPSK	1	0	18.20	18.28	18.14				
3	QPSK	1	14	18.16	18.20	18.18				
3	QPSK	1	28	18.17	18.25	18.18				
3	QPSK	12	7	18.09	18.13	18.13				
3	QPSK	12	13	18.06	18.14	18.14				
3	QPSK	25	0	18.08	18.18	18.12				
3	QPSK	25	24	18.09	18.14	18.12				
3	QPSK	1	37	18.08	18.20	18.08				
3	QPSK	1	74	18.08	18.19	18.15				
3	QPSK	12	7	18.00	18.09	18.15				
3	QPSK	12	13	18.06	18.11	18.14				
3	QPSK	25	0	18.02	18.12	18.09				
3	QPSK	25	24	18.00	18.10	18.08				
3	QPSK	1	37	18.00	18.18	17.87				
3	QPSK	1	74	17.82	17.87	17.87				
3	QPSK	12	13	18.02	18.00	18.00				
3	QPSK	12	19	18.01	18.09	18.07				
3	QPSK	25	0	18.11	18.05	18.00				
3	QPSK	25	24	18.00	18.11	18.04				
3	QPSK	1	37	18.01	18.18	17.92				
3	QPSK	1	74	17.82	17.82	17.81				
3	QPSK	12	13	17.82	17.82	17.81				
3	QPSK	12	19	17.76	17.82	17.81				
3	QPSK	25	0	17.71	17.82	17.82				
3	QPSK	25	24	17.71	17.82	17.82				
3	QPSK	75	0	17.83	17.82	17.82				
3	QPSK	75	24	17.77	17.83	17.83				
Channel	18875	18880	18825	Turn-up (min)	MPR (dB)					
1.4										



Band 12 Default Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.51	22.62	22.50				
10	QPSK	1	25	22.40	22.42	22.48				
10	QPSK	1	49	22.26	22.48	22.18				
10	QPSK	25	0	22.40	22.62	22.40				
10	16QAM	25	0	22.30	22.62	22.30				
10	QPSK	25	25	22.29	22.32	22.24				
10	QPSK	50	0	22.34	22.41	22.37				
10	16QAM	50	0	22.41	22.51	22.33				
10	16QAM	1	25	22.39	22.52	22.38				
10	16QAM	1	49	22.18	22.40	22.39				
10	16QAM	25	0	22.51	22.52	22.54				
10	16QAM	25	12	22.29	22.41	22.35				
10	16QAM	25	25	22.27	22.36	22.38				
10	16QAM	50	0	22.40	22.51	22.38				
10	16QAM	1	0	22.40	22.41	22.34				
10	8QAM	1	25	22.39	22.41	22.52				
10	8QAM	1	49	22.14	22.41	22.29				
10	8QAM	25	0	21.24	21.36	21.17				
10	8QAM	25	12	21.13	21.24	21.08				
10	8QAM	25	25	21.03	21.36	21.04				
10	8QAM	50	0	21.25	21.30	21.19				
10	256QAM	1	25	19.92	19.90	19.86				
10	256QAM	1	49	19.34	19.36	19.31				
10	256QAM	25	0	19.34	19.36	19.32				
10	256QAM	25	25	19.12	19.28	19.19				
10	256QAM	50	0	19.26	19.27	19.20				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.43	22.48	22.39				
5	QPSK	1	24	22.14	22.40	22.04				
5	QPSK	12	0	22.29	22.60	22.37				
5	QPSK	12	7	22.31	22.45	22.35				
5	QPSK	12	13	22.24	22.28	22.17				
5	QPSK	25	0	22.42	22.47	22.42				
5	16QAM	1	0	22.35	22.48	22.38				
5	16QAM	1	12	22.25	22.45	22.27				
5	16QAM	1	24	22.02	22.16	22.07				
5	16QAM	12	0	22.47	22.43	22.51				
5	16QAM	12	7	22.18	22.28	22.25				
5	16QAM	12	13	22.15	22.26	22.14				
5	16QAM	25	0	22.37	22.43	22.33				
5	8QAM	1	0	22.25	22.39	22.28				
5	8QAM	1	24	22.09	22.31	22.08				
5	8QAM	12	0	22.35	22.32	22.21				
5	8QAM	12	0	21.17	21.31	21.05				
5	8QAM	12	7	21.11	21.26	21.17				
5	8QAM	12	13	20.98	20.97	21.01				
5	8QAM	25	0	21.17	21.25	21.28				
5	256QAM	1	0	19.50	19.51	19.53				
5	256QAM	1	24	19.25	19.29	19.24				
5	256QAM	12	0	19.36	19.43	19.35				
5	256QAM	12	7	19.22	19.24	19.26				
5	256QAM	12	13	19.17	19.20	19.17				
5	256QAM	25	0	19.27	19.18	19.20				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.41	22.54	22.18				
3	QPSK	1	14	22.11	22.43	22.08				
3	QPSK	3	0	22.33	22.37	22.26				
3	QPSK	3	7	22.19	22.34	22.21				
3	QPSK	3	14	22.21	22.18	22.11				
3	QPSK	15	0	22.39	22.31	22.37				
3	16QAM	1	0	22.26	22.39	22.48				
3	16QAM	1	8	22.31	22.38	22.32				
3	16QAM	1	16	22.05	22.28	22.08				
3	16QAM	8	0	22.37	22.41	22.40				
3	16QAM	8	4	22.18	22.33	22.29				
3	16QAM	8	7	22.13	22.29	22.18				
3	16QAM	15	0	22.36	22.39	22.25				
3	8QAM	1	0	22.27	22.31	22.21				
3	8QAM	1	8	22.34	22.33	22.28				
3	8QAM	1	14	22.06	22.28	22.20				
3	8QAM	8	0	21.32	21.27	21.02				
3	8QAM	8	4	21.04	21.12	20.95				
3	8QAM	8	7	20.98	21.00	20.99				
3	8QAM	15	0	21.19	21.24	21.12				
3	256QAM	1	0	19.23	19.45	19.41				
3	256QAM	1	8	19.27	19.51	19.37				
3	256QAM	1	14	19.24	19.31	19.35				
3	256QAM	8	0	19.10	19.31	19.36				
3	256QAM	8	4	19.24	19.15	19.17				
3	256QAM	8	7	19.09	19.23	19.09				
3	256QAM	15	0	19.20	19.25	19.12				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.41	22.54	22.18				
1.4	QPSK	1	3	22.35	22.28	22.27				
1.4	QPSK	1	5	22.20	22.42	22.04				
1.4	QPSK	3	0	22.34	22.50	22.33				
1.4	QPSK	3	1	22.20	22.50	22.23				
1.4	QPSK	3	3	22.17	22.20	22.20				
1.4	16QAM	1	0	22.33	22.34	22.32				
1.4	16QAM	1	3	22.32	22.40	22.40				
1.4	16QAM	1	5	22.28	22.47	22.25				
1.4	16QAM	3	0	22.44	22.37	22.33				
1.4	16QAM	3	1	22.47	22.47	22.40				
1.4	16QAM	3	1	22.26	22.31	22.25				
1.4	16QAM	3	3	22.17	22.32	22.25				
1.4	16QAM	6	0	22.26	22.43	22.38				
1.4	8QAM	1	0	22.35	22.37	22.29				
1.4	8QAM	1	3	22.25	22.29	22.28				
1.4	8QAM	1	5	22.01	22.33	22.19				
1.4	8QAM	3	0	22.38	22.36	22.40				
1.4	8QAM	3	1	22.16	22.32	22.22				
1.4	8QAM	3	3	22.15	22.29	22.21				
1.4	256QAM	1	0	21.19	21.20	21.11				
1.4	256QAM	1	0	19.26	19.57	19.36				
1.4	256QAM	1	3	19.22	19.55	19.47				
1.4	256QAM	1	5	19.26	19.22	19.35				
1.4	256QAM	1	0	19.10	19.34	19.30				
1.4	256QAM	3	1	19.21	19.18	19.19				
1.4	256QAM	3	0	19.08	19.20	19.14				
1.4	256QAM	3	1	19.17	19.25	19.09				

Band 13 Ant2 DS12 Simultaneous Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.53	22.53	22.53				
10	QPSK	1	25	22.43	22.43	22.43				
10	QPSK	1	49	22.43	22.43	22.43				
10	QPSK	25	0	22.46	22.46	22.46				
10	QPSK	25	12	22.43	22.43	22.43				
10	QPSK	25	25	22.26	22.26	22.26				
10	QPSK	50	0	22.32	22.32	22.32				
10	16QAM	1	0	22.41	22.41	22.41				
10	16QAM	1	25	22.47	22.47	22.47				
10	16QAM	1	49	22.40	22.40	22.40				
10	16QAM	25	0	22.54	22.54	22.54				
10	16QAM	25	12	22.35	22.35	22.35				
10	16QAM	25	25	22.28	22.28	22.28				
10	16QAM	50	0	22.45	22.45	22.45				
10	8QAM	1	0	22.41	22.41	22.38				
10	8QAM	1	25	22.42	22.42	22.42				
10	8QAM	1	49	22.41	22.41	22.38				
10	8QAM	25	0	21.30	21.30	21.30				
10	8QAM	25	12	21.20	21.20	21.20				
10	8QAM	25	25	21.04	21.04	21.04				
10	8QAM	50	0	21.26	21.26					



Band 25 DS12_Simultaneous Ant 2

BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up (dB)	MPE (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	18.74	18.84	18.89		
20	QPSK	1	49	18.76	18.86	18.91		
20	QPSK	1	99	18.76	18.77	18.75		0
20	QPSK	50	0	18.72	18.82	18.86		
20	QPSK	50	24	18.70	18.70	18.70		
20	QPSK	50	50	18.56	18.66	18.59		20
20	QPSK	100	0	18.59	18.73	18.69		
20	16QAM	0	0	18.73	18.71	18.58		
20	16QAM	1	49	18.80	18.66	18.56		0
20	16QAM	1	99	18.71	18.77	18.55		
20	16QAM	50	0	18.61	18.61	18.58		
20	16QAM	50	24	18.57	18.50	18.51		20
20	16QAM	50	50	18.63	18.77	18.76		
20	16QAM	100	0	18.53	18.56	18.58		
20	16QAM	1	0	18.53	18.55	18.63		
20	16QAM	1	49	18.58	18.74	18.73		20
20	16QAM	1	99	18.72	18.76	18.59		
20	16QAM	50	0	18.61	18.72	18.54		
20	16QAM	50	24	18.59	18.65	18.50		0
20	16QAM	50	50	18.58	18.58	18.54		
20	16QAM	100	0	18.57	18.61	18.60		
20	256QAM	1	49	18.44	18.71	18.49		20
20	256QAM	1	99	18.40	18.45	18.44		
20	256QAM	50	0	18.39	18.56	18.44		
20	256QAM	50	24	18.44	18.45	18.49		0
20	256QAM	50	50	18.29	18.48	18.39		
20	256QAM	100	0	18.48	18.50	18.40		
Channel								
Frequency (MHz)								
15	QPSK	1	0	18.62	18.73	18.69		
15	QPSK	1	37	18.69	18.76	18.61		20
15	QPSK	1	74	18.63	18.66	18.66		
15	QPSK	36	0	18.64	18.73	18.53		
15	QPSK	36	20	18.63	18.56	18.60		20
15	QPSK	36	39	18.49	18.57	18.45		
15	QPSK	75	0	18.61	18.66	18.43		
15	16QAM	1	0	18.65	18.43			
15	16QAM	1	37	18.49	18.59	18.45		20
15	16QAM	1	74	18.46	18.56	18.48		
15	16QAM	36	0	18.48	18.74	18.54		
15	16QAM	36	20	18.47	18.77	18.47		20
15	16QAM	36	39	18.33	18.52	18.40		
15	16QAM	75	0	18.45	18.54	18.54		
15	16QAM	1	0	18.45	18.59	18.59		
15	16QAM	1	37	18.46	18.69	18.44		20
15	16QAM	1	74	18.53	18.55	18.53		
15	16QAM	36	0	18.50	18.64	18.60		
15	16QAM	36	20	18.50	18.63	18.60		20
15	16QAM	36	39	18.54	18.55	18.45		
15	16QAM	75	0	18.49	18.52	18.55		
15	256QAM	1	0	18.46	18.56	18.38		
15	256QAM	1	37	18.42	18.55	18.30		20
15	256QAM	1	74	18.38	18.32	18.34		
15	256QAM	36	0	18.45	18.45	18.38		
15	256QAM	36	20	18.37	18.40	18.47		20
15	256QAM	36	39	18.16	18.46	18.36		
15	256QAM	75	0	18.39	18.38	18.34		
Channel								
Frequency (MHz)								
20	QPSK	1	0	18.60	18.60	18.50		
20	QPSK	1	25	18.72	18.73	18.64		0
20	QPSK	1	49	18.58	18.65	18.61		
20	QPSK	12	0	18.66	18.66	18.58		
20	QPSK	25	12	18.60	18.61	18.58		
20	QPSK	25	25	18.53	18.58	18.56		20
20	QPSK	50	0	18.46	18.56	18.47		
20	16QAM	1	0	18.64	18.61	18.47		
20	16QAM	1	24	18.56	18.56	18.50		20
20	16QAM	1	49	18.56	18.68	18.63		
20	16QAM	25	0	18.48	18.78	18.60		
20	16QAM	25	12	18.44	18.70	18.56		20
20	16QAM	25	25	18.53	18.74	18.66		
20	16QAM	50	0	18.47	18.52	18.52		
20	16QAM	1	0	18.47	18.58	18.54		
20	16QAM	1	24	18.53	18.53	18.49		20
20	16QAM	1	49	18.68	18.60	18.45		
20	16QAM	25	0	18.47	18.64	18.56		
20	16QAM	25	12	18.49	18.62	18.47		20
20	16QAM	25	25	18.46	18.65	18.47		
20	16QAM	50	0	18.53	18.56	18.50		
20	256QAM	1	0	18.36	18.56	18.31		20
20	256QAM	1	24	18.38	18.62	18.38		
20	256QAM	1	49	18.31	18.37	18.37		
20	256QAM	12	0	18.47	18.53	18.39		
20	256QAM	25	12	18.32	18.35	18.39		20
20	256QAM	25	25	18.18	18.43	18.25		
20	256QAM	50	0	18.38	18.40	18.31		
Channel								
Frequency (MHz)								
5	QPSK	1	0	18.61	18.71	18.65		
5	QPSK	1	12	18.67	18.71	18.65		0
5	QPSK	1	24	18.62	18.70	18.65		
5	QPSK	12	0	18.66	18.66	18.58		
5	QPSK	12	7	18.64	18.64	18.51		20
5	QPSK	12	13	18.45	18.58	18.55		
5	QPSK	25	0	18.46	18.65	18.61		
5	16QAM	1	0	18.64	18.58	18.46		
5	16QAM	1	12	18.52	18.58	18.52		20
5	16QAM	1	24	18.58	18.70	18.65		
5	16QAM	12	0	18.56	18.79	18.63		
5	16QAM	12	7	18.55	18.74	18.63		20
5	16QAM	12	13	18.57	18.74	18.64		
5	16QAM	25	0	18.48	18.51	18.67		
5	16QAM	1	0	18.49	18.51	18.59		20
5	16QAM	1	12	18.52	18.63	18.70		
5	16QAM	1	24	18.68	18.66	18.52		
5	16QAM	12	0	18.48	18.68	18.53		
5	16QAM	12	7	18.49	18.62	18.47		20
5	16QAM	12	13	18.47	18.57	18.44		
5	16QAM	25	0	18.46	18.50	18.55		
5	16QAM	15	0	18.31	18.39	18.39		20
5	256QAM	1	12	18.42	18.67	18.40		
5	256QAM	1	24	18.34	18.34	18.40		20
5	256QAM	12	0	18.38	18.36	18.38		
5	256QAM	12	7	18.30	18.33	18.47		20
5	256QAM	25	0	18.16	18.41	18.25		
5	256QAM	25	7	18.40	18.54	18.32		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	18.66	18.71	18.73		
1.4	QPSK	1	8	18.73	18.80	18.67		0
1.4	QPSK	1	14	18.61	18.66	18.61		
1.4	QPSK	8	0	18.64	18.76	18.62		
1.4	QPSK	8	4	18.62	18.65	18.62		20
1.4	QPSK	8	7	18.45	18.57	18.46		
1.4	QPSK	15	0	18.52	18.71	18.59		
1.4	16QAM	1	0	18.66	18.66	18.49		
1.4	16QAM	1	8	18.52	18.54	18.52		20
1.4	16QAM	1	14	18.58	18.64	18.63		
1.4	16QAM	8	0	18.55	18.77	18.56		
1.4	16QAM	8	4	18.49	18.71	18.50		20
1.4	16QAM	8	7	18.41	18.65	18.65		
1.4	16QAM	15	0	18.50	18.56	18.52		
1.4	16QAM	1	0	18.43	18.61	18.47		20
1.4	16QAM	1	8	18.50	18.61	18.67		
1.4	16QAM	1	14	18.62	18.60	18.52		
1.4	16QAM	8	0	18.59	18.64	18.57		
1.4	16QAM	8	4	18.56	18.64	18.54		20
1.4	16QAM	8	7	18.52	18.60	18.51		
1.4	16QAM	15	0	18.26	18.56	18.52		
1.4	256QAM	1	8	18.41	18.58	18.42		20
1.4	256QAM	1	14	18.32	18.41	18.34		
1.4	256QAM	8	0	18.45	18.57	18.44		
1.4	256QAM	8	4	18.39	18.38	18.42		20
1.4	256QAM	8	7	18.25	18.36	18.28		
1.4	256QAM	15	0	18.37	18.51	18.32		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	18.63	18.71	18.75		
1.4	QPSK	1	3	18.63	18.77	18.72		0
1.4	QPSK	1	5	18.59	18.74	18.63		
1.4	QPSK	3	0	18.67	18.74	18.64		
1.4	QPSK	3	1	18.59	18.59	18.54		20
1.4	QPSK	3	3	18.51	18.57	18.54		
1.4	16QAM	1	0	18.55	18.65	18.63		
1.4	16QAM	1	3	18.55	18.66	18.50		20
1.4	16QAM	3	0	18.52	18.80	18.57		
1.4	16QAM	3	1	18.50	18.69	18.56		
1.4	16QAM	3	1	18.50	18.69	18.56		20
1.4	16QAM	8	0	18.47	18.64	18.53		
1.4	16QAM	8	1	18.46	18.63	18.48		20
1.4	16QAM	8	3	18.46	18.63	18.48		
1.4	16QAM	15	0	18.45	18.54	18.52		20
1.4	256QAM	1	0	18.27	18.59	18.30		
1.4	256QAM	1	3	18.36	18.66	18.43		
1.4	256QAM	3	0	18.32	18.33	18.33		19
1.4	256QAM	3	0	18.36	18.51	18.39		
1.4	256QAM	3	1	18.37	18.32	18.44		
1.4	256QAM	3	1	18.22	18.30	18.30		19
1.4	256QAM	8	0	18.41	18.51	18.28		19

Band 26 Default Ant 2

BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up (dB)	MPE (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	0	22.20	22.24	22.17		
15	QPSK	1	37	22.17				



Band 66 Default Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power High Ch. Freq.	Power Mid Ch. Freq.	Turn-up (dB)	APR (dB)		
Channel 130272 130282 130292										
Frequency (MHz) 1720 1740 1760										
20	QPSK	1	0	21.34	21.41	21.37	22	0		
20	QPSK	1	48	21.22	21.30	21.23				
20	QPSK	1	96	21.12	21.23	21.18				
20	QPSK	50	0	21.22	21.25	21.23				
20	QPSK	50	24	21.18	21.22	21.18				
20	QPSK	50	50	21.08	21.19	21.11				
20	QPSK	100	0	21.07	21.20	21.10				
20	16QAM	1	0	21.11	21.23	21.10				
20	16QAM	1	48	21.07	21.14	21.06				
20	16QAM	1	96	20.97	21.03	20.94				
20	16QAM	50	0	21.07	21.20	21.12				
20	16QAM	50	24	20.95	21.01	20.98				
20	16QAM	50	50	20.86	21.04	20.92				
20	16QAM	100	0	20.99	21.08	21.02				
20	64QAM	1	0	21.07	21.20	21.13				
20	64QAM	1	48	21.00	21.10	21.03				
20	64QAM	1	96	21.03	21.04	21.03				
20	64QAM	50	0	19.88	20.08	19.90				
20	64QAM	50	24	19.90	19.92	19.92				
20	64QAM	50	50	19.77	19.84	19.80				
20	64QAM	100	0	20.02	20.08	20.00				
20	256QAM	1	0	17.84	17.87	17.83				
20	256QAM	1	48	17.75	17.81	17.78				
20	256QAM	1	96	17.79	17.79	17.74				
20	256QAM	50	0	17.85	17.85	17.82				
20	256QAM	50	24	17.76	17.82	17.80				
20	256QAM	50	50	17.74	17.85	17.78				
20	256QAM	100	0	18.02	18.10	18.05				
Channel 130247 130252 130257										
Frequency (MHz) 1717.5 1740 1772.5										
15	QPSK	1	0	21.28	21.38	21.34	22	0		
15	QPSK	1	37	21.14	21.18	21.18				
15	QPSK	1	74	21.06	21.19	21.14				
15	QPSK	36	0	21.10	21.20	21.09				
15	QPSK	36	20	21.08	21.12	21.03				
15	QPSK	36	39	20.98	21.00	20.99				
15	QPSK	75	0	20.97	21.24	21.11				
15	16QAM	1	0	21.04	21.08	21.04				
15	16QAM	1	37	21.04	21.06	20.99				
15	16QAM	1	74	20.92	21.00	20.92				
15	16QAM	36	0	21.04	21.14	21.03				
15	16QAM	36	20	20.81	20.97	20.89				
15	16QAM	36	39	20.93	20.94	20.92				
15	16QAM	75	0	20.94	21.12	20.91				
15	64QAM	1	0	20.95	21.19	21.07				
15	64QAM	1	37	20.96	21.04	20.90				
15	64QAM	1	74	20.99	20.95	20.95				
15	64QAM	36	0	19.82	19.99	19.88				
15	64QAM	36	20	19.80	19.90	19.79				
15	64QAM	36	39	19.72	19.77	19.75				
15	64QAM	75	0	19.89	19.99	20.03				
15	256QAM	1	0	17.76	17.84	17.79				
15	256QAM	1	37	17.68	17.87	17.68				
15	256QAM	1	74	17.72	17.74	17.65				
15	256QAM	36	0	17.62	17.66	17.52				
15	256QAM	36	20	17.65	17.67	17.65				
15	256QAM	36	39	17.65	17.74	17.68				
15	256QAM	75	0	17.88	18.13	17.88				
Channel 130222 130222 130222										
Frequency (MHz) 1715 1740 1775										
10	QPSK	1	0	21.25	21.31	21.28	22	0		
10	QPSK	1	25	21.13	21.24	21.10				
10	QPSK	1	49	20.99	21.20	21.04				
10	QPSK	25	0	21.17	21.28	21.11				
10	QPSK	25	12	21.04	21.11	21.07				
10	QPSK	25	25	20.96	21.06	20.98				
10	16QAM	50	0	21.04	21.14	21.00				
10	16QAM	1	0	20.97	21.12	21.00				
10	16QAM	1	26	20.98	21.10	20.87				
10	16QAM	1	49	20.86	20.96	20.86				
10	16QAM	25	0	21.02	21.12	21.00				
10	16QAM	25	12	20.84	20.88	20.90				
10	16QAM	25	25	20.83	20.93	20.77				
10	16QAM	50	0	20.98	21.13	20.90				
10	64QAM	1	0	20.96	21.20	21.10				
10	64QAM	1	25	20.96	21.03	20.98				
10	64QAM	1	49	20.98	20.90	20.82				
10	64QAM	25	0	19.77	20.02	19.84				
10	64QAM	25	12	19.80	19.86	19.87				
10	64QAM	25	25	19.73	19.70	19.80				
10	64QAM	50	0	19.91	19.95	19.98				
10	256QAM	1	0	17.77	17.87	17.72				
10	256QAM	1	25	17.64	17.86	17.66				
10	256QAM	1	49	17.67	17.67	17.65				
10	256QAM	25	0	17.75	17.84	17.68				
10	256QAM	25	12	17.67	17.76	17.72				
10	256QAM	25	25	17.66	17.76	17.70				
10	256QAM	50	0	17.93	18.00	17.85				
Channel 130197 130202 130207										
Frequency (MHz) 1712.5 1740 1777.5										
5	QPSK	1	0	21.22	21.28	21.25	22	0		
5	QPSK	1	12	21.15	21.20	21.12				
5	QPSK	1	24	20.98	21.16	21.07				
5	QPSK	12	0	21.12	21.24	21.14				
5	QPSK	12	7	21.10	21.19	21.06				
5	QPSK	12	13	21.00	21.14	21.00				
5	QPSK	25	0	20.94	21.18	21.07				
5	16QAM	1	0	20.98	21.10	21.04				
5	16QAM	1	12	20.99	21.07	20.96				
5	16QAM	1	24	20.93	20.90	20.93				
5	16QAM	12	0	20.93	21.14	21.00				
5	16QAM	12	7	20.87	20.95	20.87				
5	16QAM	12	13	20.84	20.80	20.90				
5	64QAM	1	0	20.94	21.17	21.02				
5	64QAM	1	12	20.91	21.06	20.90				
5	64QAM	1	24	20.99	21.00	20.95				
5	64QAM	12	0	19.82	19.98	19.85				
5	64QAM	12	7	19.75	19.81	19.88				
5	64QAM	12	13	19.70	19.74	19.85				
5	64QAM	25	0	19.89	19.94	19.99				
5	256QAM	1	0	17.73	17.90	17.69				
5	256QAM	1	12	17.62	17.95	17.71				
5	256QAM	1	24	17.66	17.71	17.65				
5	256QAM	12	0	17.73	17.86	17.75				
5	256QAM	12	7	17.68	17.79	17.71				
5	256QAM	12	13	17.62	17.80	17.73				
5	256QAM	25	0	17.95	18.04	17.81				
Channel 130167 130202 130207										
Frequency (MHz) 1711.5 1740 1777.5										
3	QPSK	1	0	21.27	21.35	21.34	22	0		
3	QPSK	1	8	21.18	21.25	21.11				
3	QPSK	1	14	21.06	21.13	21.10				
3	QPSK	8	0	21.07	21.27	21.14				
3	QPSK	8	4	21.14	21.16	21.14				
3	QPSK	8	7	20.96	21.14	21.07				
3	QPSK	15	0	20.94	21.22	21.09				
3	16QAM	1	0	20.99	21.08	21.01				
3	16QAM	1	8	20.92	21.02	20.85				
3	16QAM	1	14	20.89	20.90	20.81				
3	16QAM	8	0	20.94	21.11	21.05				
3	16QAM	8	4	20.89	20.87	20.84				
3	16QAM	8	7	20.87	20.96	20.92				
3	16QAM	15	0	20.87	21.09	20.98				
3	64QAM	1	0	20.95	21.14	21.04				
3	64QAM	1	8	20.89	21.07	20.89				
3	64QAM	8	0	19.77	19.97	19.77				
3	64QAM	8	4	19.76	19.81	19.80				
3	64QAM	8	7	19.63	19.77	19.85				
3	64QAM	15	0	19.97	20.00	20.03				
3	256QAM	1	0	17.67	17.95	17.68				
3	256QAM	1	8	17.63	17.88	17.73				
3	256QAM	1	14	17.70	17.75	17.63				
3	256QAM	8	0	17.62	17.62	17.75				
3	256QAM	8	4	17.68	17.70	17.70				
3	256QAM	8	7	17.61	17.80	17.64				
3	256QAM	15	0	17.88	18.11	17.90				
Channel 130179 130222 130222										
Frequency (MHz) 1712.5 1740 1777.5										
1.4	QPSK	1	0	21.24	21.26	21.25	22	0		
1.4	QPSK	1	3	21.08	21.15	21.14				
1.4	QPSK	1	3	21.08	21.17	21.18				
1.4	QPSK	3	0	21.09	21.28	21.09				
1.4	QPSK	3	1	21.07	21.17	21.10				
1.4	QPSK	3	3	20.96	21.09	21.07				
1.4	QPSK	6	0	21.03	21.22	21.12				
1.4	16QAM	1	0	21.08	21.16	21.02				
1.4	16QAM	1	3	20.94	21.00	20.87				
1.4	16QAM	3	0	20.93	21.06	21.03				
1.4	16QAM	3	1	20.87	20.97	20.80				
1.4	16QAM	3	3	20.85	20.98	20.87				
1.4	16QAM	6	0	20.95	21.10	20.96				
1.4	64QAM	1	0	20.98	21.14	21.03				
1.4	64QAM	1	3	20.93	21.05	20.88				
1.4	64QAM	1	5	20.91	20.94	20.90				
1.4	64QAM	3	0	20.94	21.08	21.04				
1.4	64QAM	3	1	20.89	20.93	20.84				
1.4	64QAM	3	3	20.84	20.88	20.84				
1.4	64QAM	6	0	19.83	20.02	19.87				
1.4	256QAM	1	0	17.67						



Band 38 DSI2_Simultaneous 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				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	16.72	16.70	16.66	18.1	0		
20	QPSK	1	49	16.68	16.70	16.62				
20	QPSK	1	99	16.65	16.76	16.61	18.1	0		
20	QPSK	50	0	16.59	16.75	16.63				
20	QPSK	50	24	16.51	16.69	16.54	18.1	0		
20	QPSK	50	50	16.55	16.61	16.59				
20	QPSK	100	0	16.51	16.67	16.56	18.1	0		
20	16QAM	1	0	16.64	16.62	16.50				
20	16QAM	1	49	16.50	16.58	16.49	18.1	0		
20	16QAM	1	99	16.57	16.57	16.50				
20	16QAM	50	0	16.56	16.68	16.58	18.1	0		
20	16QAM	50	24	16.46	16.69	16.59				
20	16QAM	50	50	16.53	16.73	16.63	18.1	0		
20	16QAM	100	0	16.39	16.58	16.56				
20	64QAM	1	0	16.45	16.65	16.53	18.1	0		
20	64QAM	1	49	16.50	16.57	16.59				
20	64QAM	1	99	16.49	16.63	16.50	18.1	0		
20	64QAM	50	0	16.56	16.67	16.54				
20	64QAM	50	24	16.50	16.64	16.47	18.1	0		
20	64QAM	50	50	16.50	16.57	16.49				
20	64QAM	100	0	16.54	16.63	16.49	18.1	0		
20	256QAM	1	0	16.58	16.68	16.57				
20	256QAM	1	49	16.49	16.65	16.52	18.1	0		
20	256QAM	1	99	16.53	16.62	16.56				
20	256QAM	50	0	16.54	16.63	16.51	18.1	0		
20	256QAM	50	24	16.62	16.63	16.43				
20	256QAM	50	50	16.43	16.44	16.51	18.1	0		
20	256QAM	100	0	16.48	16.60	16.45				
Channel				37925	38000	38175				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	16.65	16.72	16.61	18.1	0		
15	QPSK	1	37	16.63	16.64	16.56				
15	QPSK	1	74	16.61	16.69	16.54	18.1	0		
15	QPSK	36	0	16.53	16.68	16.56				
15	QPSK	36	20	16.48	16.62	16.48	18.1	0		
15	QPSK	36	39	16.48	16.58	16.51				
15	QPSK	75	0	16.43	16.58	16.50	18.1	0		
15	16QAM	1	0	16.57	16.56	16.41				
15	16QAM	1	37	16.46	16.54	16.46	18.1	0		
15	16QAM	1	74	16.55	16.49	16.40				
15	16QAM	36	0	16.49	16.63	16.52	18.1	0		
15	16QAM	36	20	16.43	16.63	16.49				
15	16QAM	36	39	16.50	16.66	16.58	18.1	0		
15	16QAM	75	0	16.30	16.54	16.54				
15	64QAM	1	0	16.41	16.59	16.49	18.1	0		
15	64QAM	1	37	16.44	16.47	16.51				
15	64QAM	1	74	16.45	16.53	16.44	18.1	0		
15	64QAM	36	0	16.52	16.65	16.46				
15	64QAM	36	20	16.42	16.60	16.40	18.1	0		
15	64QAM	36	39	16.42	16.54	16.39				
15	64QAM	75	0	16.48	16.53	16.43	18.1	0		
15	256QAM	1	0	16.48	16.63	16.54				
15	256QAM	1	37	16.42	16.57	16.42	18.1	0		
15	256QAM	1	74	16.44	16.52	16.47				
15	256QAM	36	0	16.51	16.57	16.43	18.1	0		
15	256QAM	36	20	16.59	16.55	16.36				
15	256QAM	36	39	16.36	16.39	16.46	18.1	0		
15	256QAM	75	0	16.39	16.54	16.38				
Channel				37800	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	16.69	16.75	16.60	18.1	0		
10	QPSK	1	25	16.59	16.63	16.58				
10	QPSK	1	49	16.59	16.69	16.57	18.1	0		
10	QPSK	25	0	16.49	16.69	16.56				
10	QPSK	25	12	16.46	16.63	16.48	18.1	0		
10	QPSK	25	25	16.51	16.57	16.54				
10	QPSK	50	0	16.46	16.58	16.52	18.1	0		
10	16QAM	1	0	16.60	16.58	16.46				
10	16QAM	1	25	16.42	16.50	16.46	18.1	0		
10	16QAM	1	49	16.50	16.49	16.47				
10	16QAM	25	0	16.53	16.60	16.53	18.1	0		
10	16QAM	25	12	16.43	16.61	16.49				
10	16QAM	25	25	16.43	16.66	16.59	18.1	0		
10	16QAM	50	0	16.30	16.54	16.49				
10	64QAM	1	0	16.38	16.61	16.47	18.1	0		
10	64QAM	1	25	16.44	16.50	16.54				
10	64QAM	1	49	16.41	16.57	16.42	18.1	0		
10	64QAM	25	0	16.50	16.62	16.47				
10	64QAM	25	12	16.43	16.59	16.44	18.1	0		
10	64QAM	25	25	16.42	16.51	16.39				
10	64QAM	50	0	16.50	16.57	16.40	18.1	0		
10	256QAM	1	0	16.49	16.58	16.49				
10	256QAM	1	25	16.43	16.61	16.43	18.1	0		
10	256QAM	1	49	16.43	16.54	16.48				
10	256QAM	25	0	16.48	16.58	16.43	18.1	0		
10	256QAM	25	12	16.57	16.56	16.38				
10	256QAM	25	25	16.33	16.37	16.42	18.1	0		
10	256QAM	50	0	16.39	16.54	16.41				
Channel				37775	38000	38225				
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	16.63	16.71	16.57	18.1	0		
5	QPSK	1	12	16.61	16.63	16.54				
5	QPSK	1	24	16.62	16.67	16.57	18.1	0		
5	QPSK	12	0	16.54	16.70	16.56				
5	QPSK	12	7	16.43	16.63	16.52	18.1	0		
5	QPSK	12	13	16.47	16.56	16.52				
5	QPSK	25	0	16.48	16.65	16.50	18.1	0		
5	16QAM	1	0	16.56	16.54	16.43				
5	16QAM	1	12	16.41	16.53	16.45	18.1	0		
5	16QAM	1	24	16.54	16.55	16.45				
5	16QAM	12	0	16.51	16.62	16.50	18.1	0		
5	16QAM	12	7	16.42	16.67	16.55				
5	16QAM	12	13	16.46	16.70	16.61	18.1	0		
5	16QAM	25	0	16.32	16.50	16.52				
5	64QAM	1	0	16.37	16.59	16.47	18.1	0		
5	64QAM	1	12	16.48	16.48	16.51				
5	64QAM	1	24	16.47	16.55	16.41	18.1	0		
5	64QAM	12	0	16.46	16.63	16.48				
5	64QAM	12	7	16.46	16.57	16.38	18.1	0		
5	64QAM	12	13	16.46	16.55	16.41				
5	64QAM	25	0	16.48	16.57	16.40	18.1	0		
5	256QAM	1	0	16.53	16.59	16.50				
5	256QAM	1	12	16.41	16.59	16.42	18.1	0		
5	256QAM	1	24	16.46	16.55	16.51				
5	256QAM	12	0	16.50	16.54	16.48	18.1	0		
5	256QAM	12	7	16.53	16.61	16.37				
5	256QAM	12	13	16.36	16.36	16.43	18.1	0		
5	256QAM	25	0	16.43	16.54	16.39				

Band 41 FCC&IC PC3 DSI2_Simultaneous Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	16.70	16.81	16.90	16.74	16.71	18.1	0
20	QPSK	1	49	16.71	16.81	16.81	16.71	16.71		
20	QPSK	1	99	16.65	16.59	16.77	16.79	16.60	18.1	0
20	QPSK	50	0	16.66	16.69	16.81	16.70	16.76		
20	QPSK	50	24	16.54	16.54	16.74	16.51	16.60	18.1	0
20	QPSK	50	50	16.66	16.52	16.68	16.56	16.54		
20	QPSK	100	0	16.60	16.66	16.79	16.59	16.69	18.1	0
20	16QAM	1	0	16.68	16.75	16.66	16.53	16.63		
20	16QAM	1	49	16.55	16.62	16.61	16.47	16.57	18.1	0
20	16QAM	1	99	16.64	16.64	16.61	16.56	16.62		
20	16QAM	50	0	16.50	16.60	16.64	16.63	16.65	18.1	0
20	16QAM	50	24	16.61	16.53	16.71	16.54	16.58		
20	16QAM	50	50	16.52	16.61	1				



Band 41 PC2 FCC&IC DSI2_Simultaneous Ant 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	18.26	18.38	18.46	18.37	18.40	19.7	0
20	QPSK	1	49	18.29	18.35	18.29	18.35	18.25		
20	QPSK	1	99	18.16	18.38	18.39	18.27	18.25		
20	QPSK	50	0	18.20	18.25	18.40	18.24	18.37		
20	QPSK	50	24	18.17	18.28	18.32	18.20	18.15		
20	QPSK	50	50	18.16	18.21	18.24	18.16	18.27		
20	QPSK	100	0	18.27	18.09	18.32	18.16	18.10		
20	16QAM	1	0	18.15	18.36	18.33	18.38	18.08		
20	16QAM	1	49	18.10	18.12	18.18	18.08	18.17		
20	16QAM	1	99	18.22	18.19	18.16	18.23	18.11		
20	16QAM	50	0	18.24	18.21	18.45	18.14	18.22		
20	16QAM	50	24	18.30	18.10	18.35	18.18	18.22		
20	16QAM	50	50	18.34	18.18	18.38	18.18	18.25		
20	16QAM	100	0	18.19	18.05	18.23	18.01	18.30		
20	64QAM	1	0	18.19	18.09	18.28	18.12	18.23		
20	64QAM	1	49	18.14	18.12	18.26	18.14	18.27		
20	64QAM	1	99	18.10	18.26	18.25	18.14	18.17		
20	64QAM	50	0	18.17	18.13	18.36	18.26	18.22		
20	64QAM	50	24	18.12	18.14	18.36	18.16	18.14		
20	64QAM	50	50	18.15	18.21	18.22	18.12	18.13		
20	64QAM	100	0	18.20	18.14	18.39	18.18	18.17		
20	256QAM	1	0	18.22	18.24	18.42	18.20	18.17		
20	256QAM	1	49	18.20	18.17	18.23	18.20	18.26		
20	256QAM	1	99	18.17	18.09	18.28	18.14	18.21		
20	256QAM	50	0	18.21	18.22	18.28	18.16	18.17		
20	256QAM	50	24	18.08	18.29	18.28	18.25	18.08		
20	256QAM	50	50	18.08	18.13	18.03	18.08	18.22		
20	256QAM	100	0	18.12	18.08	18.28	18.12	18.07		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	18.18	18.29	18.37	18.32	18.35	19.70	0
15	QPSK	1	37	18.19	18.30	18.24	18.32	18.20		
15	QPSK	1	74	18.11	18.34	18.33	18.23	18.21		
15	QPSK	36	0	18.16	18.23	18.38	18.21	18.31		
15	QPSK	36	20	18.13	18.24	18.22	18.14	18.11		
15	QPSK	36	39	18.08	18.17	18.19	18.10	18.23		
15	QPSK	75	0	18.22	18.02	18.26	18.11	18.06		
15	16QAM	1	0	18.06	18.31	18.26	18.33	18.02		
15	16QAM	1	37	18.06	18.06	18.13	17.99	18.12		
15	16QAM	1	74	18.17	18.09	18.08	18.18	18.06		
15	16QAM	36	0	18.15	18.11	18.38	18.06	18.13		
15	16QAM	36	20	18.26	18.06	18.33	18.13	18.14		
15	16QAM	36	39	18.26	18.16	18.33	18.13	18.20		
15	16QAM	75	0	18.14	17.99	18.16	17.95	18.21		
15	64QAM	1	0	18.16	18.03	18.24	18.03	18.15		
15	64QAM	1	37	18.06	18.08	18.22	18.05	18.24		
15	64QAM	1	74	18.02	18.23	18.20	18.05	18.12		
15	64QAM	36	0	18.13	18.10	18.33	18.17	18.17		
15	64QAM	36	20	18.09	18.07	18.27	18.08	18.08		
15	64QAM	36	39	18.10	18.14	18.16	18.05	18.03		
15	64QAM	75	0	18.13	18.04	18.31	18.12	18.14		
15	256QAM	1	0	18.15	18.21	18.32	18.12	18.07		
15	256QAM	1	37	18.10	18.11	18.20	18.12	18.19		
15	256QAM	1	74	18.14	18.06	18.21	18.09	18.17		
15	256QAM	36	0	18.14	18.19	18.19	18.09	18.14		
15	256QAM	36	20	18.01	18.20	18.26	18.16	18.00		
15	256QAM	36	39	18.02	18.09	17.97	17.98	18.15		
15	256QAM	75	0	18.08	18.01	18.19	18.09	17.98		
Channel				39700	40160	40620	41090	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	18.17	18.31	18.44	18.28	18.36	19.70	0
10	QPSK	1	25	18.23	18.25	18.19	18.33	18.21		
10	QPSK	1	49	18.07	18.35	18.36	18.24	18.21		
10	QPSK	25	0	18.15	18.18	18.30	18.17	18.34		
10	QPSK	25	12	18.15	18.22	18.26	18.14	18.08		
10	QPSK	25	25	18.11	18.13	18.18	18.11	18.17		
10	QPSK	50	0	18.21	18.07	18.26	18.10	18.00		
10	16QAM	1	0	18.08	18.26	18.30	18.32	17.98		
10	16QAM	1	25	18.04	18.10	18.13	18.03	18.13		
10	16QAM	1	49	18.16	18.17	18.13	18.18	18.01		
10	16QAM	25	0	18.16	18.17	18.39	18.05	18.17		
10	16QAM	25	12	18.24	18.05	18.30	18.11	18.17		
10	16QAM	25	25	18.32	18.10	18.31	18.10	18.21		
10	16QAM	50	0	18.17	17.97	18.19	17.92	18.24		
10	64QAM	1	0	18.12	18.07	18.18	18.06	18.17		
10	64QAM	1	25	18.10	18.06	18.18	18.11	18.21		
10	64QAM	1	49	18.06	18.16	18.16	18.06	18.12		
10	64QAM	25	0	18.10	18.04	18.27	18.22	18.18		
10	64QAM	25	12	18.05	18.10	18.30	18.07	18.05		
10	64QAM	25	25	18.05	18.18	18.14	18.06	18.09		
10	64QAM	50	0	18.17	18.12	18.33	18.10	18.12		
10	256QAM	1	0	18.18	18.16	18.34	18.17	18.10		
10	256QAM	1	25	18.13	18.12	18.16	18.13	18.22		
10	256QAM	1	49	18.13	18.02	18.22	18.12	18.13		
10	256QAM	25	0	18.13	18.18	18.23	18.13	18.10		
10	256QAM	25	12	18.04	18.23	18.23	18.17	18.04		
10	256QAM	25	25	17.99	18.05	17.95	18.02	18.12		
10	256QAM	50	0	18.09	18.03	18.19	18.10	18.04		
Channel				39675	40148	40620	41093	41585		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	18.21	18.34	18.36	18.32	18.36	19.70	0
5	QPSK	1	12	18.22	18.29	18.19	18.33	18.19		
5	QPSK	1	24	18.10	18.29	18.33	18.24	18.18		
5	QPSK	12	0	18.11	18.20	18.35	18.20	18.28		
5	QPSK	12	7	18.12	18.18	18.24	18.17	18.09		
5	QPSK	12	13	18.06	18.15	18.16	18.08	18.21		
5	QPSK	25	0	18.22	18.02	18.23	18.11	18.03		
5	16QAM	1	0	18.05	18.29	18.30	18.33	18.03		
5	16QAM	1	12	18.06	18.09	18.11	18.04	18.09		
5	16QAM	1	24	18.14	18.10	18.08	18.18	18.05		
5	16QAM	12	0	18.16	18.15	18.41	18.05	18.15		
5	16QAM	12	7	18.23	18.03	18.28	18.09	18.15		
5	16QAM	12	13	18.31	18.08	18.35	18.13	18.17		
5	64QAM	1	0	18.13	18.05	18.20	18.06	18.15		
5	64QAM	1	12	18.07	18.06	18.20	18.09	18.23		
5	64QAM	1	24	18.01	18.20	18.19	18.06	18.11		
5	64QAM	12	0	18.10	18.03	18.31	18.17	18.18		
5	64QAM	12	7	18.04	18.04	18.27	18.10	18.05		
5	64QAM	12	13	18.06	18.14	18.14	18.08	18.08		
5	64QAM	25	0	18.17	18.11	18.31	18.12	18.09		
5	256QAM	1	0	18.15	18.16	18.37	18.10	18.14		
5	256QAM	1	12	18.11	18.09	18.20	18.11	18.21		
5	256QAM	1	24	18.10	18.04	18.20	18.04	18.16		
5	256QAM	12	0	18.17	18.19	18.23	18.12	18.11		
5	256QAM	12	7	18.06	18.25	18.26	18.20	18.05		



GSM1900 Ant3		DS1Z_Simultaneous			Frame-Average Power (dBm)			Tune-up Limit	
GSM1900		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel		512	661	810		512	661	810	
Frequency (MHz)		1852.2	1880	1909.8	1852.2	1880	1909.8		
GSM 1 Tx slot		26.73	23.86	26.71	27.80	17.73	17.85	17.81	
GPRS 1 Tx slot		26.69	26.57	26.71	27.80	17.69	17.87	17.71	
GPRS 2 Tx slots		23.95	24.03	23.90	24.80	17.95	18.03	17.90	
GPRS 3 Tx slots		21.96	22.02	21.89	23.00	17.70	17.76	17.63	
GPRS 4 Tx slots		20.08	20.15	20.11	21.80	17.08	17.15	17.11	
EDGE 1 Tx slot		25.06	25.13	24.99	26.00	16.06	16.13	15.99	
EDGE 2 Tx slot		23.33	23.43	23.40	24.50	17.33	17.43	17.40	
EDGE 3 Tx slots		22.21	22.35	22.25	23.00	17.95	18.09	17.99	
EDGE 4 Tx slots		20.13	20.18	20.06	21.00	17.13	17.18	17.06	

Band		WCDMA II Ant3			Tune-up Limit (dBm)	WCDMA IV Ant3			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513	
Rx Channel		8662	8800	8938	1537	1638	1738		
Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6		
3GPP Rel 99 AMR 12.2kbps		16.91	16.97	16.83	18.80	18.32	18.48	18.41	
3GPP Rel 99 RMC 12.2kbps		16.95	17.04	16.89	18.80	18.39	18.53	18.49	
3GPP Rel 6 HSDPA Subtest-1		15.91	16.15	16.03	17.80	17.29	17.50	17.47	
3GPP Rel 6 HSDPA Subtest-2		15.88	16.16	15.90	17.80	17.30	17.54	17.27	
3GPP Rel 6 HSDPA Subtest-3		15.61	15.52	15.38	17.30	17.07	16.82	16.79	
3GPP Rel 6 HSDPA Subtest-4		15.35	15.59	15.50	17.30	16.88	16.94	16.98	
3GPP Rel 8 DC-HSDPA Subtest-1		15.98	16.10	15.86	17.80	17.39	17.52	17.33	
3GPP Rel 8 DC-HSDPA Subtest-2		15.81	16.03	16.06	17.80	17.37	17.49	17.45	
3GPP Rel 8 DC-HSDPA Subtest-3		15.51	15.56	15.31	17.30	16.65	16.95	16.72	
3GPP Rel 8 DC-HSDPA Subtest-4		15.30	15.51	15.43	17.30	16.66	16.94	16.71	
3GPP Rel 6 HSUPA Subtest-1		16.03	16.23	15.86	17.80	17.44	17.64	17.32	
3GPP Rel 6 HSUPA Subtest-2		14.15	14.12	14.08	15.80	15.62	15.41	15.50	
3GPP Rel 6 HSUPA Subtest-3		15.15	14.99	14.83	16.80	16.44	16.42	16.35	
3GPP Rel 6 HSUPA Subtest-4		13.92	14.12	14.13	15.80	15.29	15.55	15.50	
3GPP Rel 6 HSUPA Subtest-5		15.87	15.93	15.86	17.80	17.28	17.36	17.27	



Band 2 DSI2_Simultaneous Ant 3

BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power Hpt./Freq.	Power Ch./Freq.	Turn-up Time (min)	MPR (dB)
Channel								
20	QPSK	1	0	17.24	17.37	17.18		
20	QPSK	1	49	17.09	17.38	17.08	18.8	0
20	QPSK	1	99	17.18	17.28	17.11		
20	QPSK	50	0	17.06	17.25	17.15		
20	QPSK	50	49	16.88	17.28	17.08	18.8	0
20	QPSK	50	99	17.10	17.11	17.11		
20	QPSK	100	0	17.03	17.13	17.08		
20	QPSK	100	49	17.11	17.14	17.07	18.8	0
20	QPSK	100	99	17.03	17.15	17.08		
20	QPSK	150	0	17.03	17.15	17.08		
20	QPSK	150	49	17.03	17.15	17.08	18.8	0
20	QPSK	150	99	17.10	17.11	17.03		
20	QPSK	200	0	17.06	17.13	17.08		
20	QPSK	200	49	16.87	17.21	17.10	18.8	0
20	QPSK	200	99	16.87	17.21	17.10		
20	QPSK	250	0	16.87	17.21	17.10		
20	QPSK	250	49	16.87	17.21	17.10	18.8	0
20	QPSK	250	99	16.87	17.21	17.10		
20	QPSK	300	0	16.87	17.21	17.10		
20	QPSK	300	49	16.87	17.21	17.10	18.8	0
20	QPSK	300	99	16.87	17.21	17.10		
20	QPSK	350	0	16.87	17.21	17.10		
20	QPSK	350	49	16.87	17.21	17.10	18.8	0
20	QPSK	350	99	16.87	17.21	17.10		
20	QPSK	400	0	16.87	17.21	17.10		
20	QPSK	400	49	16.87	17.21	17.10	18.8	0
20	QPSK	400	99	16.87	17.21	17.10		
20	QPSK	450	0	16.87	17.21	17.10		
20	QPSK	450	49	16.87	17.21	17.10	18.8	0
20	QPSK	450	99	16.87	17.21	17.10		
20	QPSK	500	0	16.87	17.21	17.10		
20	QPSK	500	49	16.87	17.21	17.10	18.8	0
20	QPSK	500	99	16.87	17.21	17.10		
20	QPSK	550	0	16.87	17.21	17.10		
20	QPSK	550	49	16.87	17.21	17.10	18.8	0
20	QPSK	550	99	16.87	17.21	17.10		
20	QPSK	600	0	16.87	17.21	17.10		
20	QPSK	600	49	16.87	17.21	17.10	18.8	0
20	QPSK	600	99	16.87	17.21	17.10		
20	QPSK	650	0	16.87	17.21	17.10		
20	QPSK	650	49	16.87	17.21	17.10	18.8	0
20	QPSK	650	99	16.87	17.21	17.10		
20	QPSK	700	0	16.87	17.21	17.10		
20	QPSK	700	49	16.87	17.21	17.10	18.8	0
20	QPSK	700	99	16.87	17.21	17.10		
20	QPSK	750	0	16.87	17.21	17.10		
20	QPSK	750	49	16.87	17.21	17.10	18.8	0
20	QPSK	750	99	16.87	17.21	17.10		
20	QPSK	800	0	16.87	17.21	17.10		
20	QPSK	800	49	16.87	17.21	17.10	18.8	0
20	QPSK	800	99	16.87	17.21	17.10		
20	QPSK	850	0	16.87	17.21	17.10		
20	QPSK	850	49	16.87	17.21	17.10	18.8	0
20	QPSK	850	99	16.87	17.21	17.10		
20	QPSK	900	0	16.87	17.21	17.10		
20	QPSK	900	49	16.87	17.21	17.10	18.8	0
20	QPSK	900	99	16.87	17.21	17.10		
20	QPSK	950	0	16.87	17.21	17.10		
20	QPSK	950	49	16.87	17.21	17.10	18.8	0
20	QPSK	950	99	16.87	17.21	17.10		
20	QPSK	1000	0	16.87	17.21	17.10		
20	QPSK	1000	49	16.87	17.21	17.10	18.8	0
20	QPSK	1000	99	16.87	17.21	17.10		
20	QPSK	1050	0	16.87	17.21	17.10		
20	QPSK	1050	49	16.87	17.21	17.10	18.8	0
20	QPSK	1050	99	16.87	17.21	17.10		
20	QPSK	1100	0	16.87	17.21	17.10		
20	QPSK	1100	49	16.87	17.21	17.10	18.8	0
20	QPSK	1100	99	16.87	17.21	17.10		
20	QPSK	1150	0	16.87	17.21	17.10		
20	QPSK	1150	49	16.87	17.21	17.10	18.8	0
20	QPSK	1150	99	16.87	17.21	17.10		
20	QPSK	1200	0	16.87	17.21	17.10		
20	QPSK	1200	49	16.87	17.21	17.10	18.8	0
20	QPSK	1200	99	16.87	17.21	17.10		
20	QPSK	1250	0	16.87	17.21	17.10		
20	QPSK	1250	49	16.87	17.21	17.10	18.8	0
20	QPSK	1250	99	16.87	17.21	17.10		
20	QPSK	1300	0	16.87	17.21	17.10		
20	QPSK	1300	49	16.87	17.21	17.10	18.8	0
20	QPSK	1300	99	16.87	17.21	17.10		
20	QPSK	1350	0	16.87	17.21	17.10		
20	QPSK	1350	49	16.87	17.21	17.10	18.8	0
20	QPSK	1350	99	16.87	17.21	17.10		
20	QPSK	1400	0	16.87	17.21	17.10		
20	QPSK	1400	49	16.87	17.21	17.10	18.8	0
20	QPSK	1400	99	16.87	17.21	17.10		
20	QPSK	1450	0	16.87	17.21	17.10		
20	QPSK	1450	49	16.87	17.21	17.10	18.8	0
20	QPSK	1450	99	16.87	17.21	17.10		
20	QPSK	1500	0	16.87	17.21	17.10		
20	QPSK	1500	49	16.87	17.21	17.10	18.8	0
20	QPSK	1500	99	16.87	17.21	17.10		
20	QPSK	1550	0	16.87	17.21	17.10		
20	QPSK	1550	49	16.87	17.21	17.10	18.8	0
20	QPSK	1550	99	16.87	17.21	17.10		
20	QPSK	1600	0	16.87	17.21	17.10		
20	QPSK	1600	49	16.87	17.21	17.10	18.8	0
20	QPSK	1600	99	16.87	17.21	17.10		
20	QPSK	1650	0	16.87	17.21	17.10		
20	QPSK	1650	49	16.87	17.21	17.10	18.8	0
20	QPSK	1650	99	16.87	17.21	17.10		
20	QPSK	1700	0	16.87	17.21	17.10		
20	QPSK	1700	49	16.87	17.21	17.10	18.8	0
20	QPSK	1700	99	16.87	17.21	17.10		
20	QPSK	1750	0	16.87	17.21	17.10		
20	QPSK	1750	49	16.87	17.21	17.10	18.8	0
20	QPSK	1750	99	16.87	17.21	17.10		
20	QPSK	1800	0	16.87	17.21	17.10		
20	QPSK	1800	49	16.87	17.21	17.10	18.8	0
20	QPSK	1800	99	16.87	17.21	17.10		
20	QPSK	1850	0	16.87	17.21	17.10		
20	QPSK	1850	49	16.87	17.21	17.10	18.8	0
20	QPSK	1850	99	16.87	17.21	17.10		
20	QPSK	1900	0	16.87	17.21	17.10		
20	QPSK	1900	49	16.87	17.21	17.10	18.8	0
20	QPSK	1900	99	16.87	17.21	17.10		
20	QPSK	1950	0	16.87	17.21	17.10		
20	QPSK	1950	49	16.87	17.21	17.10	18.8	0
20	QPSK	1950	99	16.87	17.21	17.10		
20	QPSK	2000	0	16.87	17.21	17.10		
20	QPSK	2000	49	16.87	17.21	17.10	18.8	0
20	QPSK	2000	99	16.87	17.21	17.10		
20	QPSK	2050	0	16.87	17.21	17.10		
20	QPSK	2050	49	16.87	17.21	17.10	18.8	0
20	QPSK	2050	99	16.87	17.21	17.10		
20	QPSK	2100	0	16.87	17.21	17.10		
20	QPSK	2100	49	16.87	17.21	17.10	18.8	0
20	QPSK	2100	99	16.87	17.21	17.10		
20	QPSK	2150	0	16.87	17.21	17.10		
20	QPSK	2150	49	16.87	17.21	17.10	18.8	0
20	QPSK	2150	99	16.87	17.21	17.10		
20	QPSK	2200	0	16.87	17.21	17.10		
20	QPSK	2200	49	16.87	17.21	17.10	18.8	0
20	QPSK	2200	99	16.87	17.21	17.10		
20	QPSK	2250	0	16.87	17.21	17.10		
20	QPSK	2250	49	16.87	17.21	17.10	18.8	0
20	QPSK	2250	99	16.87	17.21	17.10		
20	QPSK	2300	0	16.87	17.21	17.10		
20	QPSK	2300	49	16.87	17.21	17.10	18.8	0
20	QPSK							



Band 30 DSI2_Simultaneous Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up (min)	MPE (dB)	
Channel									
				2110					
10	QPSK	1	0	17.62	17.62	17.62	19.3	0	
10	QPSK	1	25	17.43	17.43	17.43			
10	QPSK	1	49	17.43	17.43	17.43			
10	QPSK	25	0	17.43	17.43	17.43	19.3	0	
10	QPSK	25	25	17.38	17.38	17.38			
10	QPSK	25	50	17.44	17.44	17.44			
10	16QAM	1	0	17.38	17.38	17.38	19.3	0	
10	16QAM	1	25	17.38	17.38	17.38			
10	16QAM	1	49	17.38	17.38	17.38			
10	16QAM	25	0	17.38	17.38	17.38	19.3	0	
10	16QAM	25	12	17.43	17.43	17.43			
10	16QAM	25	25	17.34	17.34	17.34			
10	16QAM	25	50	17.34	17.34	17.34			
10	64QAM	1	0	17.45	17.45	17.45	19.3	0	
10	64QAM	1	25	17.38	17.38	17.38			
10	64QAM	1	49	17.43	17.43	17.43			
10	64QAM	25	0	17.37	17.37	17.37	19.3	0	
10	64QAM	25	12	17.42	17.42	17.42			
10	64QAM	25	25	17.41	17.41	17.41			
10	64QAM	25	50	17.41	17.41	17.41			
10	256QAM	1	0	17.47	17.47	17.47	19.3	0	
10	256QAM	1	25	17.42	17.42	17.42			
10	256QAM	1	49	17.53	17.53	17.53			
10	256QAM	25	0	17.49	17.49	17.49	19.3	0	
10	256QAM	25	12	17.49	17.49	17.49			
10	256QAM	25	25	17.34	17.34	17.34			
10	256QAM	25	50	17.38	17.38	17.38			
Channel									
				2185			2175	2175	
				2307.5			2310	2312.5	
5	QPSK	1	0	17.48	17.51	17.38	19.3	0	
5	QPSK	1	12	17.32	17.39	17.32			
5	QPSK	1	24	17.41	17.39	17.36			
5	QPSK	12	0	17.34	17.46	17.37	19.3	0	
5	QPSK	12	7	17.38	17.39	17.32			
5	QPSK	12	13	17.35	17.43	17.33			
5	QPSK	25	0	17.40	17.41	17.42	19.3	0	
5	16QAM	1	0	17.32	17.33	17.37			
5	16QAM	1	12	17.36	17.48	17.44	19.3	0	
5	16QAM	1	24	17.39	17.37	17.36			
5	16QAM	12	0	17.36	17.32	17.37	19.3	0	
5	16QAM	12	7	17.37	17.57	17.49			
5	16QAM	12	13	17.35	17.50	17.51			
5	16QAM	25	0	17.36	17.42	17.38	19.3	0	
5	64QAM	1	0	17.37	17.58	17.37			
5	64QAM	1	12	17.33	17.46	17.38	19.3	0	
5	64QAM	1	24	17.38	17.44	17.30			
5	64QAM	12	0	17.33	17.38	17.36	19.3	0	
5	64QAM	12	7	17.32	17.40	17.36			
5	64QAM	12	13	17.31	17.37	17.33			
5	64QAM	25	0	17.33	17.32	17.33	19.3	0	
5	256QAM	1	0	17.33	17.43	17.38			
5	256QAM	1	12	17.33	17.45	17.30	19.3	0	
5	256QAM	1	24	17.33	17.46	17.34			
5	256QAM	12	0	17.31	17.39	17.33	19.3	0	
5	256QAM	12	7	17.41	17.48	17.37			
5	256QAM	12	13	17.33	17.31	17.33	19.3	0	
5	256QAM	25	0	17.32	17.39	17.31			

Band 66 DSI2_Simultaneous Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up (min)	MPE (dB)	
Channel									
				1750			1745	1770	
20	QPSK	1	0	18.92	18.96	18.63	20.2	0	
20	QPSK	1	49	18.78	18.79	18.69			
20	QPSK	1	99	18.84	18.86	18.71			
20	QPSK	50	0	18.72	18.87	18.62	20.2	0	
20	QPSK	50	24	18.77	18.79	18.60			
20	QPSK	50	50	18.80	18.63	18.77			
20	QPSK	100	0	18.71	18.73	18.65	20.2	0	
20	16QAM	1	0	18.55	18.63	18.61			
20	16QAM	1	49	18.56	18.65	18.62	20.2	0	
20	16QAM	1	99	18.79	18.56	18.67			
20	16QAM	50	0	18.74	18.69	18.72	20.2	0	
20	16QAM	50	24	18.79	18.72	18.59			
20	16QAM	50	50	18.62	18.79	18.66	20.2	0	
20	16QAM	100	0	18.67	18.67	18.64			
20	64QAM	1	0	18.69	18.72	18.58	20.2	0	
20	64QAM	1	49	18.54	18.62	18.60			
20	64QAM	1	99	18.70	18.59	18.70	20.2	0	
20	64QAM	50	0	18.60	18.79	18.77			
20	64QAM	50	24	18.63	18.79	18.68	20.2	0	
20	64QAM	50	50	18.67	18.62	18.60			
20	64QAM	100	0	18.62	18.65	18.74	20.2	0	
20	256QAM	1	0	18.55	18.68	18.68			
20	256QAM	1	49	18.42	18.55	18.40	20.2	0	
20	256QAM	1	99	18.45	18.32	18.46			
20	256QAM	50	0	18.46	18.71	18.54	20.2	0	
20	256QAM	50	24	18.38	18.46	18.38			
20	256QAM	50	50	18.26	18.48	18.48	20.2	0	
20	256QAM	100	0	18.28	18.65	18.48			
Channel									
				132407			132322	132697	
				11717.5			11745	11772.5	
15	QPSK	1	0	18.69	18.73	18.30	20.2	0	
15	QPSK	1	37	18.64	18.61	18.60			
15	QPSK	1	74	18.60	18.67	18.62			
15	QPSK	36	0	18.50	18.73	18.53	20.2	0	
15	QPSK	36	20	18.68	18.60	18.60			
15	QPSK	36	39	18.47	18.43	18.50			
15	16QAM	75	0	18.61	18.44	18.38	20.2	0	
15	16QAM	1	0	18.42	18.40	18.30			
15	16QAM	1	37	18.33	18.51	18.53	20.2	0	
15	16QAM	1	74	18.34	18.46	18.40			
15	16QAM	36	0	18.48	18.63	18.58	20.2	0	
15	16QAM	36	20	18.58	18.58	18.38			
15	16QAM	36	39	18.39	18.54	18.52	20.2	0	
15	16QAM	75	0	18.38	18.30	18.38			
15	64QAM	1	0	18.47	18.52	18.49	20.2	0	
15	64QAM	1	37	18.55	18.54	18.52			
15	64QAM	1	74	18.50	18.41	18.52	20.2	0	
15	64QAM	36	0	18.39	18.46	18.48			
15	64QAM	36	20	18.45	18.58	18.41	20.2	0	
15	64QAM	36	39	18.48	18.45	18.47			
15	64QAM	75	0	18.37	18.38	18.54	20.2	0	
15	256QAM	1	0	18.34	18.51	18.37			
15	256QAM	1	37	18.25	18.31	18.74	20.2	0	
15	256QAM	1	74	18.16	18.61	18.15			
15	256QAM	36	0	18.23	18.52	18.23	20.2	0	
15	256QAM	36	20	18.50	18.30	18.21			
15	256QAM	36	39	18.11	18.40	18.27	20.2	0	
15	256QAM	75	0	18.12	18.55	18.20			
Channel									
				132692			132522	132692	
				1715			1745	1775	
10	QPSK	1	0	18.67	18.78	18.60	20.2	0	
10	QPSK	1	25	18.68	18.64	18.59			
10	QPSK	1	49	18.54	18.58	18.60	20.2	0	
10	QPSK	25	0	18.44	18.67	18.30			
10	QPSK	25	12	18.62	18.66	18.32	20.2	0	
10	QPSK	25	25	18.32	18.40	18.45			
10	QPSK	50	0	18.46	18.67	18.63			
10	16QAM	1	0	18.29	18.41	18.40	20.2	0	
10	16QAM	1	25	18.45	18.48	18.63			
10	16QAM	1	49	18.56	18.64	18.68			
10	16QAM	25	0	18.51	18.38	18.43	20.2	0	
10	16QAM	25	12	18.60	18.54	18.48			
10	16QAM	25	25	18.41	18.47	18.51	20.2	0	
10	16QAM	50	0	18.40	18.48	18.38			
10	64QAM	1	0	18.62	18.60	18.32	20.2	0	
10	64QAM								



Band 38 DS12_Simultaneous Ant 3										
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										
				37860	38000	38190				
Frequency (MHz)										
20	QPSK	1	0	18.20	18.22	18.23				
20	QPSK	1	49	18.22	18.28	18.17	20	0		
20	QPSK	1	99	18.20	18.20	18.20				
20	QPSK	50	0	18.19	18.20	18.20				
20	QPSK	50	24	18.19	18.22	18.15	20	0		
20	QPSK	100	0	18.12	18.12	18.12				
20	QPSK	100	0	18.16	18.27	18.26				
20	HQAM	1	0	18.20	18.24	18.15				
20	HQAM	1	49	18.12	18.18	18.12	20	0		
20	HQAM	1	99	18.20	18.22	18.10				
20	HQAM	50	0	18.13	18.20	18.10				
20	HQAM	50	24	18.14	18.24	18.14	20	0		
20	HQAM	100	0	18.18	18.23	18.10				
20	HQAM	100	0	18.11	18.20	18.10				
20	HQAM	100	0	18.25	18.20	18.11				
20	HQAM	1	49	18.13	18.20	18.14	20	0		
20	HQAM	1	99	18.10	18.18	18.11				
20	HQAM	50	0	18.22	18.20	18.15				
20	HQAM	50	24	18.19	18.28	18.15	20	0		
20	HQAM	100	0	18.11	18.20	18.10				
20	HQAM	100	0	18.12	18.20	18.12				
20	256QAM	1	0	18.20	18.16	18.16				
20	256QAM	1	49	18.20	18.20	18.20				
20	256QAM	1	99	18.19	18.30	18.19	20	0		
20	256QAM	50	0	18.20	18.20	18.20				
20	256QAM	50	24	18.26	18.21	18.22	20	0		
20	256QAM	100	0	18.20	18.24	18.20				
20	256QAM	100	0	18.13	18.20	18.10				
Channel										
				37860	38000	38175				
Frequency (MHz)										
15	QPSK	1	0	18.25	18.24	18.23				
15	QPSK	1	37	18.14	18.26	18.08	20	0		
15	QPSK	1	74	18.11	18.20	18.10				
15	QPSK	36	0	18.11	18.23	18.10				
15	QPSK	36	20	18.07	18.14	18.12	20	0		
15	QPSK	75	0	18.20	18.20	18.20				
15	QPSK	75	0	18.12	18.24	18.23				
15	HQAM	1	0	18.14	18.22	18.09				
15	HQAM	1	37	18.03	18.23	18.03	20	0		
15	HQAM	1	74	18.11	18.15	18.13				
15	HQAM	36	0	18.09	18.20	18.15				
15	HQAM	36	20	18.11	18.20	18.08	20	0		
15	HQAM	36	39	18.13	18.14	18.15				
15	HQAM	75	0	18.04	18.15	18.06				
15	HQAM	1	0	18.22	18.23	18.21				
15	HQAM	1	37	18.11	18.17	18.10	20	0		
15	HQAM	1	74	18.09	18.12	18.02				
15	HQAM	36	0	18.17	18.20	18.11				
15	HQAM	36	20	18.12	18.17	18.09	20	0		
15	HQAM	36	39	18.02	18.07	18.00				
15	HQAM	75	0	18.09	18.12	18.02				
15	256QAM	1	0	18.22	18.09	18.14	20	0		
15	256QAM	1	37	18.22	18.15	18.10				
15	256QAM	1	74	18.10	18.20	18.15				
15	256QAM	36	0	18.26	18.10	18.21	20	0		
15	256QAM	36	20	18.18	18.20	18.10				
15	256QAM	36	39	18.11	18.20	18.12				
15	256QAM	75	0	18.11	18.20	18.10				
Channel										
				37860	38000	38190				
Frequency (MHz)										
10	QPSK	1	0	18.17	18.20	18.24				
10	QPSK	1	25	18.17	18.20	18.10				
10	QPSK	1	49	18.16	18.21	18.17				
10	QPSK	1	74	18.14	18.20	18.10				
10	QPSK	25	12	18.02	18.13	18.00				
10	QPSK	25	25	18.08	18.12	18.07				
10	QPSK	50	1	18.11	18.18	18.20				
10	HQAM	1	0	18.15	18.21	18.07				
10	HQAM	1	25	18.03	18.07	18.00	20	0		
10	HQAM	1	49	18.13	18.19	18.09				
10	HQAM	25	0	18.06	18.23	18.10				
10	HQAM	25	12	18.07	18.09	18.07				
10	HQAM	50	0	18.02	18.16	18.10				
10	HQAM	1	0	18.16	18.21	18.07				
10	HQAM	1	25	18.05	18.17	18.07	20	0		
10	HQAM	1	49	18.07	18.15	18.06				
10	HQAM	25	0	18.10	18.20	18.00				
10	HQAM	25	12	18.12	18.17	18.08	20	0		
10	HQAM	25	25	18.06	18.20	18.06				
10	HQAM	50	0	18.05	18.13	18.06				
10	256QAM	1	0	18.20	18.10	18.10	20	0		
10	256QAM	1	49	18.10	18.20	18.10				
10	256QAM	25	0	18.32	18.10	18.22				
10	256QAM	25	12	18.20	18.11	18.10	20	0		
10	256QAM	25	25	18.15	18.20	18.14				
10	256QAM	50	0	18.03	18.26	18.10				
Channel										
				2572.5	2585	2617.5				
Frequency (MHz)										
5	QPSK	1	0	18.24	18.30	18.27				
5	QPSK	1	12	18.16	18.19	18.11	20	0		
5	QPSK	1	24	18.15	18.23	18.14				
5	QPSK	12	0	18.01	18.26	18.16				
5	QPSK	12	7	18.01	18.19	18.05				
5	QPSK	12	13	18.05	18.14	18.09				
5	QPSK	25	0	18.20	18.21	18.22				
5	HQAM	1	0	18.13	18.21	18.12				
5	HQAM	1	12	18.08	18.10	18.06	20	0		
5	HQAM	1	24	18.17	18.26	18.06				
5	HQAM	12	0	18.11	18.17	18.11				
5	HQAM	12	7	18.07	18.15	18.08	20	0		
5	HQAM	12	13	18.10	18.19	18.10				
5	HQAM	25	0	18.07	18.11	18.03				
5	HQAM	1	0	18.16	18.23	18.02				
5	HQAM	1	12	18.04	18.17	18.09	20	0		
5	HQAM	1	24	18.03	18.14	18.02				
5	HQAM	12	0	18.14	18.23	18.00				
5	HQAM	12	7	18.10	18.21	18.05	20	0		
5	HQAM	12	13	18.03	18.24	18.00				
5	HQAM	25	0	18.09	18.17	18.00				
5	256QAM	1	0	18.21	18.07	18.13	20	0		
5	256QAM	1	12	18.21	18.12	18.20				
5	256QAM	1	24	18.13	18.25	18.00				
5	256QAM	12	0	18.27	18.10	18.20	20	0		
5	256QAM	12	7	18.22	18.10	18.15				
5	256QAM	12	13	18.16	18.20	18.10	20	0		
5	256QAM	25	0	18.06	18.20	18.22				

Band 41 FCC&C PC3_DS12_Simultaneous Ant 3										
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										
				39750	40185	40600				
Frequency (MHz)										
20	QPSK	1	0	18.20	18.21	18.21				
20	QPSK	1	49	18.81	18.84	18.83	20	0		
20	QPSK	1	99	18.55	18.55	18.54				
20	QPSK	50	0	18.55	18.49	18.51				
20	QPSK	50	24	18.53	18.47	18.47	20	0		
20	QPSK	100	0	18.47	18.40	18.40				
20	QPSK	100	0	18.50	18.40	18.50				
20	HQAM	1	0	18.45	18.48	18.55				
20	HQAM	1	49	18.31	18.50	18.52	20	0		
20	HQAM	1	99	18.51	18.38	18.54				
20	HQAM	50	0	18.40	18.33	18.50				
20	HQAM	50	24	18.40	18.53	18.50	20	0		
20	HQAM	100	0	18.37	18.49	18.48				
20	HQAM	100	0	18.47	18.40	18.40				
20	HQAM	100	0	18.55	18.50	18.42				
20	HQAM	1	49	18.44	18.3					



Band 41 FCC&IC PC2 DSI2_Simultaneous Ant 3										
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	19.58	19.58	19.58	19.58	19.58	21.6	0
20	QPSK	1	49	20.04	20.04	19.57	20.00	20.00		
20	QPSK	1	99	19.96	20.07	20.04	20.01	19.96		
20	QPSK	50	0	19.99	19.97	20.07	19.94	19.97		
20	QPSK	50	24	19.83	19.88	19.95	19.99	20.03		
20	QPSK	50	49	19.70	19.89	19.92	19.84	19.86		
20	QPSK	100	0	19.89	19.88	20.05	19.81	19.88		
20	HQAM	1	0	19.99	19.97	20.04	19.93	20.00		
20	HQAM	1	49	19.77	19.91	19.92	19.82	19.80		
20	HQAM	1	99	19.81	19.91	19.92	19.85	19.85		
20	HQAM	50	0	19.81	19.82	20.02	19.82	19.95		
20	HQAM	50	24	19.84	19.89	19.92	19.82	19.83		
20	HQAM	50	49	19.88	19.95	19.92	19.89	19.86		
20	HQAM	100	0	19.85	19.85	19.95	19.90	19.92		
20	HQAM	100	24	19.92	19.83	19.87	19.85	19.98		
20	HQAM	100	49	19.77	19.86	19.87	19.84	19.77		
20	HQAM	50	0	19.85	19.89	20.01	19.81	20.06		
20	HQAM	50	24	19.87	19.88	19.95	19.89	19.91		
20	HQAM	50	49	19.88	19.92	20.07	19.75	19.74		
20	HQAM	100	0	19.89	19.77	20.02	19.88	19.75		
20	256QAM	1	0	19.93	19.89	20.02	19.94	19.92		
20	256QAM	1	49	19.82	19.89	20.02	19.88	19.90		
20	256QAM	1	99	19.90	19.91	19.93	19.93	19.84		
20	256QAM	50	0	19.89	19.87	20.07	19.79	19.81		
20	256QAM	50	24	19.91	19.92	19.99	19.90	19.95		
20	256QAM	50	49	19.73	19.98	19.87	19.82	19.88		
20	256QAM	100	0	19.82	19.89	20.02	19.86	19.75		
Channel										
Frequency (MHz)										
15	QPSK	1	0	19.56	20.02	20.02	20.02	19.53		
15	QPSK	1	37	20.01	20.02	19.84	19.84	19.84		
15	QPSK	1	74	19.91	19.87	19.85	19.99	19.87		
15	QPSK	38	0	19.86	19.89	20.03	19.89	19.89		
15	QPSK	38	20	19.80	19.81	19.88	19.91	20.00		
15	QPSK	75	0	19.73	19.85	19.82	19.78	19.75		
15	QPSK	75	0	19.88	19.79	19.99	19.73	19.95		
15	HQAM	1	0	19.88	19.90	19.87	19.88	19.93		
15	HQAM	1	37	19.75	19.85	19.82	19.78	19.75		
15	HQAM	1	74	19.77	19.83	19.80	19.79	19.92		
15	HQAM	38	0	19.73	19.78	19.86	19.78	19.85		
15	HQAM	38	20	19.88	19.83	19.87	19.73	19.74		
15	HQAM	38	39	19.79	19.82	19.88	19.80	19.76		
15	HQAM	75	0	19.76	19.74	19.81	19.73	19.69		
15	HQAM	1	0	19.76	19.80	19.82	19.83	19.80		
15	HQAM	1	37	19.87	19.73	19.83	19.78	19.89		
15	HQAM	1	74	19.70	19.83	19.81	19.77	19.73		
15	HQAM	38	0	19.81	19.85	19.87	19.72	19.87		
15	HQAM	38	20	19.81	19.80	19.89	19.85	19.87		
15	HQAM	38	39	19.85	19.88	19.82	19.84	19.84		
15	HQAM	75	0	19.63	19.73	19.97	19.81	19.72		
15	256QAM	1	0	19.87	19.83	19.89	19.80	19.85		
15	256QAM	1	37	19.80	19.78	19.83	19.81	19.87		
15	256QAM	1	74	19.68	19.88	19.90	19.87	19.79		
15	256QAM	38	0	19.88	19.88	20.00	19.88	19.85		
15	256QAM	38	20	19.84	19.83	19.92	19.84	19.86		
15	256QAM	38	39	19.84	19.95	19.90	19.78	19.79		
15	256QAM	75	0	19.73	19.74	19.70	19.80	19.81		
Channel										
Frequency (MHz)										
10	QPSK	1	0	19.84	20.02	20.02	20.02	19.84		
10	QPSK	1	25	20.01	19.99	19.95	19.95	19.96		
10	QPSK	1	49	19.87	20.03	19.85	19.89	19.87		
10	QPSK	1	74	19.81	19.89	19.86	19.86	19.86		
10	QPSK	25	12	19.80	19.83	19.82	19.85	20.00		
10	QPSK	25	25	19.77	19.82	19.97	19.76	19.85		
10	QPSK	50	0	19.81	19.85	20.02	19.74	19.84		
10	HQAM	1	0	19.84	19.95	19.95	19.85	19.80		
10	HQAM	1	25	19.99	19.82	19.88	19.77	19.77		
10	HQAM	1	49	19.77	19.87	19.89	19.76	19.88		
10	HQAM	25	0	19.77	19.73	19.88	19.78	19.93		
10	HQAM	25	12	19.88	19.88	19.87	19.80	19.80		
10	HQAM	25	25	19.78	19.82	19.83	19.70	19.79		
10	HQAM	50	0	19.81	19.75	19.82	19.72	19.68		
10	HQAM	50	12	19.80	19.84	19.88	19.79	19.79		
10	HQAM	50	25	19.87	19.79	19.80	19.79	19.92		
10	HQAM	1	49	19.67	19.83	19.83	19.76	19.75		
10	HQAM	25	0	19.87	19.88	19.85	19.78	20.00		
10	HQAM	25	12	19.84	19.82	19.82	19.79	19.85		
10	HQAM	25	25	19.62	19.82	20.00	19.88	19.87		
10	HQAM	50	0	19.84	19.72	19.89	19.80	19.87		
10	256QAM	1	0	19.85	19.96	19.90	19.88	19.84		
10	256QAM	1	25	19.78	19.82	19.84	19.88	19.98		
10	256QAM	1	49	19.88	19.88	19.89	19.85	19.76		
10	256QAM	25	0	19.88	19.84	19.88	19.80	19.89		
10	256QAM	25	12	19.85	19.88	19.89	19.82	19.82		
10	256QAM	25	25	19.70	19.91	19.91	19.72	19.82		
10	256QAM	50	0	19.72	19.76	19.83	19.76	19.68		
Channel										
Frequency (MHz)										
5	QPSK	1	0	19.95	20.01	20.17	20.04	19.92		
5	QPSK	1	12	19.98	20.02	19.84	19.88	19.92		
5	QPSK	1	24	19.87	19.98	20.01	19.95	19.87		
5	QPSK	12	0	19.82	19.89	19.89	19.88	19.88		
5	QPSK	12	7	19.73	19.81	19.90	19.80	19.84		
5	QPSK	12	13	19.70	19.89	19.82	19.76	19.85		
5	QPSK	25	0	19.85	19.88	20.02	19.74	19.82		
5	HQAM	1	0	19.85	19.91	19.95	19.83	19.93		
5	HQAM	1	12	19.72	19.82	19.84	19.74	19.72		
5	HQAM	1	24	19.70	19.84	19.82	19.79	19.81		
5	HQAM	12	0	19.72	19.79	19.80	19.77	19.92		
5	HQAM	12	7	19.87	19.88	19.87	19.75	19.85		
5	HQAM	12	13	19.86	19.81	19.81	19.81	19.82		
5	HQAM	25	0	19.80	19.76	19.82	19.72	19.89		
5	HQAM	1	0	19.80	19.83	19.81	19.84	19.78		
5	HQAM	1	12	19.84	19.79	19.80	19.79	19.84		
5	HQAM	1	24	19.73	19.90	19.89	19.82	19.72		
5	HQAM	12	0	19.89	19.87	19.86	19.75	20.00		
5	HQAM	12	7	19.81	19.82	19.91	19.80	19.81		
5	HQAM	12	13	19.81	19.86	20.02	19.71	19.70		
5	HQAM	25	0	19.83	19.81	19.86	19.82	19.86		
5	256QAM	1	0	19.88	19.91	19.90	19.88	19.89		
5	256QAM	1	12	19.75	19.79	19.91	19.82	19.86		
5	256QAM	1	24	19.83	19.84	19.80	19.86	19.75		
5	256QAM	12	0	19.89	19.84	19.90	19.85	19.80		
5	256QAM	12	7	19.88	19.89	19.84	19.88	19.93		
5	256QAM	12	13	19.85	19.86	19.91	19.73	19.84		
5	256QAM	25	0	19.76	19.71	19.82	19.83	19.85		

Band 48 DSI2_Simultaneous Ant 3										
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	16.82	16.82	16.82	16.82	16.82	18	0
20	QPSK	1	49	16.87	16.86	16.85	16.85	16.80		



Reduced Power Mode for DSI3-Standalone

DCDC3 Vout									
Mode	Input Average Power (dBm)			Turnup Limit	Input Average Power (dBm)			Turnup Limit	
TV Channel	198	199	201	198	199	201	198	199	201
Frequency (MHz)	88.2	88.4	88.8	88.2	88.4	88.8	88.2	88.4	88.8
OPRR-1 Tx (dB)	32.90	32.97	32.94	33.50	33.00	33.07	33.04	33.50	33.50
OPRR-2 Tx (dB)	32.80	32.90	32.91	33.50	33.00	33.04	33.01	33.50	33.50
OPRR-3 Tx (dB)	29.30	29.41	29.28	30.50	30.30	30.41	30.28	31.50	31.50
OPRR-4 Tx (dB)	28.91	29.05	28.86	30.00	29.80	29.72	29.80	30.50	30.50
EDGE-1 Tx (dB)	25.40	25.41	25.40	27.50	27.41	27.41	27.40	28.50	28.50
EDGE-2 Tx (dB)	23.77	23.80	23.79	25.00	24.77	24.80	24.79	25.50	25.50
EDGE-3 Tx (dB)	22.88	22.89	22.82	23.50	23.40	23.43	23.38	24.50	24.50
EDGE-4 Tx (dB)	20.90	20.90	20.90	21.50	21.50	21.43	21.40	22.50	22.50

DCDC4 Vout									
Mode	Input Average Power (dBm)			Turnup Limit	Input Average Power (dBm)			Turnup Limit	
TV Channel	512	561	560	512	561	560	512	561	560
Frequency (MHz)	272.2	272.8	272.9	272.2	272.8	272.9	272.2	272.8	272.9
OPRR-1 Tx (dB)	27.84	27.81	27.88	28.50	28.54	28.63	28.58	29.50	29.50
OPRR-2 Tx (dB)	24.94	24.94	24.93	26.00	25.94	25.93	25.93	26.50	26.50
OPRR-3 Tx (dB)	23.53	23.50	23.53	24.50	24.07	24.11	24.07	25.00	25.00
OPRR-4 Tx (dB)	20.70	20.70	20.88	21.50	21.70	21.75	21.89	22.50	22.50
EDGE-1 Tx (dB)	22.39	22.87	22.73	23.50	23.79	23.87	23.73	24.50	24.50
EDGE-2 Tx (dB)	21.00	21.10	21.11	22.00	22.00	21.59	21.11	22.00	22.00
EDGE-3 Tx (dB)	20.07	20.12	20.04	21.00	20.91	20.98	20.76	21.50	21.50
EDGE-4 Tx (dB)	17.86	18.00	18.04	19.00	18.96	18.99	18.94	19.50	19.50

Default WCDMA V Airtel												
Mode	WCDMA V Airtel			WCDMA V Airtel			WCDMA V Airtel			WCDMA V Airtel		
TV Channel	9302	9400	9308	1312	1410	1513	1312	1410	1513	4152	4162	4230
SA Channel	9602	9600	9608	1392	1498	1398	1392	1498	1398	4392	4402	4468
Frequency (MHz)	1820.4	1890	1907.6	1718.4	1724.8	1729.8	1890.4	1896.4	1896.4	1896.4	1896.4	1896.4
ISPP Ref #	20.82	20.60	20.67	22.00	20.45	20.51	20.41	22.00	22.45	22.52	22.48	24.00
ISPP Ref #	19.72	19.75	19.70	21.00	19.59	19.66	19.50	21.00	21.55	21.60	21.48	23.00
ISPP Ref #	19.68	19.71	19.65	21.00	19.50	19.58	19.52	21.00	21.48	21.50	21.54	23.00
ISPP Ref #	19.39	19.20	19.21	20.50	19.00	19.11	19.08	20.50	21.61	21.14	21.04	22.60
ISPP Ref #	19.15	19.30	19.21	20.50	19.90	19.18	19.00	20.50	20.98	21.04	21.06	22.50
ISPP Ref #	19.70	19.85	19.84	21.00	19.54	19.68	19.48	21.00	21.55	21.72	21.42	23.00
ISPP Ref #	19.50	19.50	19.41	21.00	19.38	19.40	19.32	21.00	21.54	21.62	21.52	23.00
ISPP Ref #	19.08	19.12	19.05	20.50	19.02	19.03	19.89	20.50	20.95	20.99	20.92	22.00
ISPP Ref #	19.02	19.15	19.12	20.50	19.90	19.00	19.01	20.50	20.89	21.00	21.00	22.50
ISPP Ref #	19.46	19.21	19.70	21.00	19.55	19.63	19.61	21.00	21.63	21.88	21.97	23.00
ISPP Ref #	17.71	17.70	17.84	19.00	17.54	17.60	17.61	19.00	19.87	19.83	19.86	21.00
ISPP Ref #	18.66	18.71	18.70	20.00	18.52	18.58	18.58	20.00	20.50	20.50	20.50	22.00
ISPP Ref #	17.81	17.80	17.87	19.00	17.44	17.51	17.48	19.00	19.40	19.82	19.40	21.00
ISPP Ref #	19.94	19.90	19.82	21.00	19.83	19.48	19.38	21.00	21.50	21.44	21.40	23.00



Band 2 Default Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (dB)	MPR (dB)	
Channel	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.			
20	QPSK	1	0	23.11	23.12	23.07			
20	QPSK	1	49	23.05	23.06	23.04			
20	QPSK	1	99	22.99	22.97	22.97			
20	QPSK	50	0	22.98	23.13	23.05			
20	QPSK	50	24	23.04	23.04	23.06			
20	QPSK	50	50	22.92	23.04	22.98			
20	QPSK	100	0	22.99	23.02	22.91			
20	QPSK	100	24	22.95	22.92	22.98			
20	QPSK	1	49	22.85	22.88	22.90			
20	QPSK	1	99	22.70	22.85	22.80			
20	QPSK	50	0	22.82	22.82	22.84			
20	QPSK	50	24	22.34	22.48	22.34			
20	QPSK	50	50	22.36	22.42	22.27			
20	QPSK	100	0	22.30	22.42	22.47			
20	QPSK	1	0	22.72	22.82	22.72			
20	QPSK	1	49	22.68	22.76	22.67			
20	QPSK	1	99	22.58	22.65	22.62			
20	QPSK	50	0	21.54	21.71	21.59			
20	QPSK	50	24	21.46	21.56	21.50			
20	QPSK	50	50	21.42	21.48	21.33			
20	QPSK	100	0	21.43	21.52	21.38			
20	QPSK	1	49	19.82	19.88	19.80			
20	QPSK	1	99	19.86	19.82	19.87			
20	QPSK	50	0	19.80	19.73	19.63			
20	QPSK	50	24	19.70	19.81	19.78			
20	QPSK	50	50	19.77	19.87	19.82			
20	QPSK	100	0	19.75	19.81	19.78			
20	QPSK	100	24	19.72	19.81	19.78			
20	QPSK	100	50	19.70	19.81	19.78			
20	QPSK	1	0	19.75	19.82	19.75			
20	QPSK	1	49	19.77	19.78	19.72			
20	QPSK	1	99	19.77	19.78	19.72			
20	QPSK	50	0	19.78	19.80	19.73			
20	QPSK	50	24	19.78	19.80	19.73			
20	QPSK	50	50	19.72	19.74	19.74			
20	QPSK	100	0	19.72	19.74	19.74			
20	QPSK	100	24	19.72	19.74	19.74			
20	QPSK	100	50	19.72	19.74	19.74			
20	QPSK	1	0	20.05	20.17	20.05			
20	QPSK	1	49	20.05	20.17	20.05			
20	QPSK	1	99	20.05	20.17	20.05			
20	QPSK	50	0	17.75	17.92	17.67			
20	QPSK	50	24	17.75	17.92	17.67			
20	QPSK	50	50	17.75	17.92	17.67			
20	QPSK	100	0	17.75	17.92	17.67			
20	QPSK	100	24	17.75	17.92	17.67			
20	QPSK	100	50	17.75	17.92	17.67			
20	QPSK	1	0	22.83	22.88	22.80			
20	QPSK	1	49	22.87	22.87	22.87			
20	QPSK	1	99	22.87	22.87	22.80			
20	QPSK	50	0	22.87	22.88	22.80			
20	QPSK	50	24	22.87	22.88	22.80			
20	QPSK	50	50	22.87	22.88	22.80			
20	QPSK	100	0	22.87	22.88	22.80			
20	QPSK	100	24	22.87	22.88	22.80			
20	QPSK	100	50	22.87	22.88	22.80			
20	QPSK	1	0	22.48	22.54	22.44			
20	QPSK	1	49	22.48	22.54	22.44			
20	QPSK	1	99	22.48	22.54	22.44			
20	QPSK	50	0	22.42	22.48	22.43			
20	QPSK	50	24	22.42	22.48	22.43			
20	QPSK	50	50	22.42	22.48	22.43			
20	QPSK	100	0	22.42	22.48	22.43			
20	QPSK	100	24	22.42	22.48	22.43			
20	QPSK	100	50	22.42	22.48	22.43			
20	QPSK	1	0	22.53	22.55	22.56			
20	QPSK	1	49	22.53	22.55	22.56			
20	QPSK	1	99	22.53	22.55	22.56			
20	QPSK	50	0	22.38	22.47	22.46			
20	QPSK	50	24	22.38	22.47	22.46			
20	QPSK	50	50	22.38	22.47	22.46			
20	QPSK	100	0	22.38	22.47	22.46			
20	QPSK	100	24	22.38	22.47	22.46			
20	QPSK	100	50	22.38	22.47	22.46			
20	QPSK	1	0	21.71	21.79	21.73			
20	QPSK	1	49	21.71	21.79	21.73			
20	QPSK	1	99	21.71	21.79	21.73			
20	QPSK	50	0	21.71	21.79	21.73			
20	QPSK	50	24	21.71	21.79	21.73			
20	QPSK	50	50	21.71	21.79	21.73			
20	QPSK	100	0	21.71	21.79	21.73			
20	QPSK	100	24	21.71	21.79	21.73			
20	QPSK	100	50	21.71	21.79	21.73			
20	QPSK	1	0	19.74	19.88	19.85			
20	QPSK	1	49	19.74	19.88	19.85			
20	QPSK	1	99	19.77	19.78	19.72			
20	QPSK	50	0	19.78	19.80	19.83			
20	QPSK	50	24	19.78	19.80	19.83			
20	QPSK	50	50	19.72	19.74	19.74			
20	QPSK	100	0	19.72	19.74	19.74			
20	QPSK	100	24	19.72	19.74	19.74			
20	QPSK	100	50	19.72	19.74	19.74			
20	QPSK	1	0	20.05	20.17	20.05			
20	QPSK	1	49	20.05	20.17	20.05			
20	QPSK	1	99	20.05	20.17	20.05			
20	QPSK	50	0	17.75	17.92	17.67			
20	QPSK	50	24	17.75	17.92	17.67			
20	QPSK	50	50	17.75	17.92	17.67			
20	QPSK	100	0	17.75	17.92	17.67			
20	QPSK	100	24	17.75	17.92	17.67			
20	QPSK	100	50	17.75	17.92	17.67			
20	QPSK	1	0	22.83	22.88	22.80			
20	QPSK	1	49	22.87	22.87	22.87			
20	QPSK	1	99	22.87	22.87	22.80			
20	QPSK	50	0	22.87	22.88	22.80			
20	QPSK	50	24	22.87	22.88	22.80			
20	QPSK	50	50	22.87	22.88	22.80			
20	QPSK	100	0	22.87	22.88	22.80			
20	QPSK	100	24	22.87	22.88	22.80			
20	QPSK	100	50	22.87	22.88	22.80			
20	QPSK	1	0	22.48	22.54	22.44			
20	QPSK	1	49	22.48	22.54	22.44			
20	QPSK	1	99	22.48	22.54	22.44			
20	QPSK	50	0	22.42	22.48	22.43			
20	QPSK	50	24	22.42	22.48	22.43			
20	QPSK	50	50	22.42	22.48	22.43			
20	QPSK	100	0	22.42	22.48	22.43			
20	QPSK	100	24	22.42	22.48	22.43			
20	QPSK	100	50	22.42	22.48	22.43			
20	QPSK	1	0	22.53	22.55	22.56			
20	QPSK	1	49	22.53	22.55	22.56			
20	QPSK	1	99	22.53	22.55	22.56			
20	QPSK	50	0	22.38	22.47	22.46			
20	QPSK	50	24	22.38	22.47	22.46			
20	QPSK	50	50	22.38	22.47	22.46			
20	QPSK	100	0	22.38	22.47	22.46			
20	QPSK	100	24	22.38	22.47	22.46			
20	QPSK	100	50	22.38	22.47	22.46			
20	QPSK	1	0	21.71	21.79	21.73			
20	QPSK	1	49	21.71	21.79	21.73			
20	QPSK	1	99	21.71	21.79	21.73			
20	QPSK	50	0	21.71	21.79	21.73			
20	QPSK	50	24	21.71	21.79	21.73			
20	QPSK	50	50	21.71	21.79	21.73			
20	QPSK	100	0	21.71	21.79	21.73			
20	QPSK	100	24	21.71	21.79	21.73			
20	QPSK	100	50	21.71	21.79	21.73			
20	QPSK	1	0	19.74	19.88	19.85			
20									



Band 25 Default Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Time-up (min)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.16	23.21	23.18				
20	QPSK	1	49	23.03	23.08	23.05				
20	QPSK	1	99	22.97	23.01	23.03	24	0		
20	QPSK	50	0	23.00	23.15	23.05				
20	QPSK	50	24	22.85	23.03	22.98				
20	QPSK	50	50	22.88	22.99	22.88	24	0		
20	QPSK	100	0	22.91	23.01	22.92				
20	16QAM	1	0	22.92	22.99	22.91				
20	16QAM	1	49	22.84	22.99	22.85	24	0		
20	16QAM	1	99	22.81	22.87	22.80				
20	16QAM	50	0	22.79	22.99	22.83				
20	16QAM	50	24	22.75	22.90	22.75	23.5	0.5		
20	16QAM	50	50	22.81	22.72	22.70				
20	16QAM	100	0	22.82	22.96	22.81				
20	64QAM	1	0	22.86	23.05	22.91				
20	64QAM	1	49	22.79	22.95	22.87	23.5	0.5		
20	64QAM	1	99	21.92	21.90	21.79				
20	64QAM	50	24	21.78	21.79	21.74	22.5	1.5		
20	64QAM	50	50	21.82	21.86	21.84				
20	64QAM	100	0	21.89	21.86	21.84				
20	256QAM	1	49	19.78	19.90	19.83	20.5	3.5		
20	256QAM	1	99	19.77	19.85	19.78				
20	256QAM	50	24	19.77	19.90	19.74	20.5	3.5		
20	256QAM	50	50	19.70	19.74	19.71				
20	256QAM	100	0	19.82	19.74	19.81				
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.05	23.13	23.04				
15	QPSK	1	37	22.99	22.99	22.90	24	0		
15	QPSK	1	74	22.84	22.90	22.87				
15	QPSK	36	0	22.94	23.01	22.85				
15	QPSK	36	25	22.82	22.96	22.88	24	0		
15	QPSK	36	39	22.84	22.95	22.75				
15	QPSK	75	0	22.77	22.96	22.79				
15	16QAM	1	0	22.82	22.92	22.84				
15	16QAM	1	37	22.81	22.87	22.85	24	0		
15	16QAM	1	74	22.80	22.86	22.80				
15	16QAM	36	0	22.70	22.81	22.75	23.5	0.5		
15	16QAM	36	25	22.68	22.69	22.62				
15	16QAM	36	39	22.72	22.79	22.72				
15	16QAM	75	0	22.49	22.53	22.50				
15	64QAM	1	0	22.74	22.90	22.77	23.5	0.5		
15	64QAM	1	37	22.70	22.86	22.80				
15	64QAM	1	74	22.70	22.85	22.85				
15	64QAM	36	0	21.74	21.85	21.85	22.5	1.5		
15	64QAM	36	25	21.67	21.68	21.68				
15	64QAM	36	39	21.68	21.73	21.59				
15	64QAM	75	0	21.65	21.64	21.60				
15	256QAM	1	37	19.75	19.75	19.70	20.5	3.5		
15	256QAM	1	74	19.67	19.70	19.73				
15	256QAM	50	24	19.78	19.85	19.80	20.5	3.5		
15	256QAM	50	50	19.69	19.87	19.80				
15	256QAM	36	39	19.67	19.70	19.61				
15	256QAM	75	0	19.55	19.68	19.65				
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.03	23.09	23.00				
10	QPSK	1	25	22.94	22.92	22.98	24	0		
10	QPSK	1	49	22.90	22.95	22.90				
10	QPSK	12	0	22.87	22.94	22.89				
10	QPSK	25	12	22.87	22.85	22.83	24	0		
10	QPSK	25	25	22.84	22.85	22.71				
10	16QAM	1	0	22.80	22.86	22.83				
10	16QAM	1	24	22.80	22.83	22.83	24	0		
10	16QAM	1	49	22.81	22.91	22.88				
10	16QAM	1	99	22.86	22.94	22.88				
10	16QAM	25	0	22.74	22.80	22.75	23.5	0.5		
10	16QAM	25	12	22.62	22.68	22.67				
10	16QAM	25	25	22.62	22.62	22.61				
10	16QAM	50	0	22.57	22.65	22.54				
10	64QAM	1	0	22.82	22.91	22.85	23.5	0.5		
10	64QAM	1	24	22.84	22.88	22.88				
10	64QAM	1	49	22.72	22.76	22.71	22.5	1.5		
10	64QAM	25	0	21.79	21.84	21.68				
10	64QAM	25	12	21.74	21.77	21.61				
10	64QAM	50	0	21.62	21.56	21.52				
10	256QAM	1	24	19.80	19.84	19.81	20.5	3.5		
10	256QAM	1	24	19.68	19.75	19.72				
10	256QAM	1	49	19.74	19.73	19.77				
10	256QAM	12	0	19.85	19.81	19.80	20.5	3.5		
10	256QAM	25	12	19.71	19.83	19.68				
10	256QAM	25	25	19.65	19.61	19.60				
10	256QAM	50	0	19.55	19.67	19.63				
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.13	23.07	23.13				
5	QPSK	1	12	22.95	22.92	23.03	24	0		
5	QPSK	1	24	22.86	22.90	22.95				
5	QPSK	12	0	22.86	23.04	22.92				
5	QPSK	12	7	22.88	23.00	22.84	24	0		
5	QPSK	12	13	22.77	22.88	22.79				
5	QPSK	25	0	22.77	22.88	22.79				
5	16QAM	1	0	22.88	23.04	22.88	24	0		
5	16QAM	1	12	22.88	22.90	22.87				
5	16QAM	1	24	22.87	22.73	22.73	23.5	0.5		
5	16QAM	12	0	22.70	22.84	22.73				
5	16QAM	12	7	22.71	22.70	22.63				
5	16QAM	12	13	22.62	22.60	22.60				
5	16QAM	25	0	22.55	22.62	22.61				
5	64QAM	1	0	22.78	22.86	22.88	23.5	0.5		
5	64QAM	1	12	22.71	22.62	22.61				
5	64QAM	1	24	22.65	22.69	22.76				
5	64QAM	12	0	21.78	21.84	21.70	22.5	1.5		
5	64QAM	12	7	21.70	21.65	21.70				
5	64QAM	12	13	21.68	21.79	21.68				
5	64QAM	25	0	21.60	21.64	21.60				
5	256QAM	1	0	19.75	19.86	19.88	20.5	3.5		
5	256QAM	1	12	19.71	19.82	19.75				
5	256QAM	1	24	19.68	19.75	19.74				
5	256QAM	12	0	19.76	19.85	19.84	20.5	3.5		
5	256QAM	12	7	19.68	19.78	19.59				
5	256QAM	12	13	19.61	19.64	19.64				
5	256QAM	25	0	19.57	19.64	19.54				
Channel										
Frequency (MHz)										
3	QPSK	1	0	23.02	23.15	23.15				
3	QPSK	1	8	22.88	22.95	22.86	24	0		
3	QPSK	1	14	22.94	22.93	22.99				
3	QPSK	8	0	22.94	23.05	22.96				
3	QPSK	8	4	22.80	22.97	22.81	24	0		
3	QPSK	8	7	22.75	22.84	22.78				
3	QPSK	15	0	22.83	22.89	22.80				
3	16QAM	1	0	22.84	23.02	22.85	24	0		
3	16QAM	1	8	22.89	22.86	22.87				
3	16QAM	1	14	22.77	22.75	22.66	23.5	0.5		
3	16QAM	8	0	22.66	22.87	22.79				
3	16QAM	8	4	22.65	22.65	22.67				
3	16QAM	15	0	22.97	22.68	22.60				
3	64QAM	1	0	22.75	22.92	22.80	23.5	0.5		
3	64QAM	1	8	22.66	22.91	22.79				
3	64QAM	1	14	22.65	22.72	22.69				
3	64QAM	8	0	21.76	21.87	21.84	22.5	1.5		
3	64QAM	8	4	21.67	21.66	21.62				
3	64QAM	8	7	21.61	21.74	21.57				
3	256QAM	1	0							



Band 66 DS13_ Standalone Ant 0

RF (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Turn-up (min)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	22.71	22.72	22.83	23.5	0
20	QPSK	1	49	22.81	22.72	22.83		
20	QPSK	1	99	22.87	22.70	22.80		
20	QPSK	50	0	22.85	22.73	22.85		
20	QPSK	50	24	22.92	22.62	22.87		
20	QPSK	50	50	22.96	22.60	22.98		
20	QPSK	100	0	22.98	22.65	22.81		
20	16QAM	1	0	22.82	22.62	22.86	23.5	0
20	16QAM	1	49	22.93	22.59	22.95		
20	16QAM	1	99	22.83	22.61	22.95		
20	16QAM	50	0	22.94	22.62	22.83		
20	16QAM	50	24	22.83	22.58	22.81		
20	16QAM	50	50	22.97	22.62	22.99		
20	16QAM	100	0	22.92	22.60	22.93		
20	64QAM	1	0	22.83	22.60	22.96		
20	64QAM	1	49	22.49	22.56	22.94	23.5	0
20	64QAM	1	99	22.47	22.55	22.91		
20	64QAM	50	0	21.99	21.90	21.71		
20	64QAM	50	24	21.83	21.77	21.77		
20	64QAM	50	50	21.83	21.75	21.81		
20	64QAM	100	0	21.57	21.62	21.58		
20	256QAM	1	49	18.95	18.97	18.99	20.5	3
20	256QAM	1	99	18.81	18.84	18.83		
20	256QAM	50	24	18.78	18.80	18.88		
20	256QAM	50	50	18.78	18.80	18.74		
20	256QAM	50	100	18.69	18.77	18.73		
20	256QAM	100	0	18.71	18.75	18.78		
Channel								
Frequency (MHz)								
15	QPSK	1	0	22.58	22.69	22.92	23.5	0
15	QPSK	1	37	22.64	22.69	22.87		
15	QPSK	1	74	22.82	22.66	22.49		
15	QPSK	36	0	22.59	22.66	22.99		
15	QPSK	36	20	22.36	22.45	22.63		
15	QPSK	36	39	22.59	22.58	22.47		
15	QPSK	75	0	22.61	22.60	22.64		
15	16QAM	1	0	22.66	22.48	22.42	23.5	0
15	16QAM	1	37	22.45	22.51	22.49		
15	16QAM	1	74	22.57	22.50	22.48		
15	16QAM	36	0	22.42	22.58	22.48		
15	16QAM	36	20	22.28	22.57	22.49		
15	16QAM	36	39	22.49	22.42	22.49		
15	16QAM	75	0	22.45	22.48	22.47		
15	64QAM	1	0	22.32	22.52	22.47	23.5	0
15	64QAM	1	37	22.38	22.45	22.47		
15	64QAM	1	74	22.34	22.37	22.43		
15	64QAM	36	0	21.99	21.86	21.61		
15	64QAM	36	20	21.81	21.63	21.67		
15	64QAM	36	39	21.90	21.92	21.92		
15	64QAM	75	0	21.48	21.90	21.91		
15	256QAM	1	37	18.78	18.80	18.88	20.5	3
15	256QAM	1	74	18.75	18.79	18.77		
15	256QAM	36	0	18.80	18.86	18.88		
15	256QAM	36	20	18.73	18.75	18.80		
15	256QAM	36	39	18.88	18.69	18.63		
15	256QAM	75	0	18.83	18.81	18.68		
Channel								
Frequency (MHz)								
10	QPSK	1	0	22.61	22.66	22.82	23.5	0
10	QPSK	1	25	22.57	22.65	22.99		
10	QPSK	1	49	22.60	22.64	22.95		
10	QPSK	25	0	22.61	22.62	22.98		
10	QPSK	25	12	22.37	22.49	22.43		
10	QPSK	25	25	22.45	22.53	22.44		
10	QPSK	50	0	22.62	22.61	22.94		
10	16QAM	1	0	22.50	22.56	22.39	23.5	0
10	16QAM	1	25	22.42	22.56	22.50		
10	16QAM	1	49	22.47	22.50	22.54		
10	16QAM	25	0	22.38	22.52	22.49		
10	16QAM	25	12	22.47	22.50	22.48		
10	16QAM	50	0	22.42	22.39	22.38		
10	64QAM	1	0	22.34	22.52	22.41	23.5	0
10	64QAM	1	25	22.36	22.45	22.44		
10	64QAM	1	49	22.32	22.54	22.39		
10	64QAM	25	0	21.96	21.75	21.61		
10	64QAM	25	12	21.90	21.68	21.68		
10	64QAM	25	25	21.54	21.87	21.87		
10	64QAM	50	0	21.42	21.62	21.44		
10	256QAM	1	49	18.78	18.80	18.81	20.5	3
10	256QAM	1	25	18.79	18.82	18.80		
10	256QAM	1	49	18.73	18.75	18.77		
10	256QAM	25	0	18.71	18.81	18.74		
10	256QAM	25	12	18.75	18.81	18.83		
10	256QAM	25	25	18.80	18.65	18.62		
10	256QAM	50	0	18.83	18.87	18.83		
Channel								
Frequency (MHz)								
5	QPSK	1	0	22.53	22.71	22.83	23.5	0
5	QPSK	1	12	22.50	22.65	22.95		
5	QPSK	1	24	22.85	22.61	22.94		
5	QPSK	12	0	22.51	22.58	22.83		
5	QPSK	12	7	22.42	22.57	22.48		
5	QPSK	12	13	22.50	22.55	22.93		
5	QPSK	25	0	22.61	22.66	22.47		
5	16QAM	1	0	22.50	22.56	22.42	23.5	0
5	16QAM	1	12	22.46	22.53	22.49		
5	16QAM	1	24	22.53	22.45	22.52		
5	16QAM	12	0	22.41	22.52	22.48		
5	16QAM	12	7	22.39	22.56	22.50		
5	16QAM	12	13	22.47	22.50	22.48		
5	16QAM	25	0	22.40	22.39	22.39		
5	64QAM	1	0	22.30	22.46	22.44	23.5	0
5	64QAM	1	12	22.39	22.45	22.43		
5	64QAM	1	24	22.44	22.60	22.47		
5	64QAM	12	0	21.83	21.80	21.81		
5	64QAM	12	7	21.91	21.87	21.79		
5	64QAM	12	13	21.58	21.87	21.86		
5	64QAM	25	0	21.91	21.83	21.90		
5	256QAM	1	12	18.76	18.79	18.88	20.5	3
5	256QAM	1	24	18.73	18.81	18.81		
5	256QAM	1	12	18.71	18.76	18.76		
5	256QAM	12	0	18.72	18.85	18.71		
5	256QAM	12	7	18.71	18.72	18.69		
5	256QAM	12	13	18.69	18.66	18.61		
5	256QAM	25	0	18.82	18.81	18.81		
Channel								
Frequency (MHz)								
3	QPSK	1	0	22.57	22.65	22.95	23.5	0
3	QPSK	1	8	22.54	22.67	22.86		
3	QPSK	1	14	22.62	22.55	22.47		
3	QPSK	8	0	22.44	22.63	22.61		
3	QPSK	8	4	22.37	22.52	22.46		
3	QPSK	8	7	22.46	22.40	22.48		
3	QPSK	15	0	22.46	22.53	22.93		
3	16QAM	1	0	22.55	22.46	22.38	23.5	0
3	16QAM	1	8	22.43	22.50	22.45		
3	16QAM	1	14	22.51	22.67	22.46		
3	16QAM	8	0	22.43	22.51	22.60		
3	16QAM	8	4	22.37	22.65	22.92		
3	16QAM	8	7	22.45	22.62	22.90		
3	16QAM	15	0	22.40	22.38	22.43		
3	64QAM	1	0	22.40	22.42	22.48	23.5	0
3	64QAM	1	8	22.37	22.52	22.45		
3	64QAM	8	4	21.92	21.88	21.89		
3	64QAM	8	7	21.81	21.60	21.49		
3	64QAM	15	0	21.45	21.89	21.84		
3	256QAM	1	0	18.75	18.99	18.84	20.5	3
3	256QAM	1	8	18.82	18.86	18.79		
3	256QAM	1	14	18.74	18.81	18.76		
3	256QAM	8	0	18.99	18.95	18.73		
3	256QAM	8	4	18.75	18.75	18.68		
3	256QAM	8	7	18.60	18.72	18.66		
3	256QAM	15	0	18.58	18.60	18.62		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	22.57	22.65	22.95	23.5	0
1.4	QPSK	1	3	22.49	22.62	22.99		
1.4	QPSK	1	6	22.61	22.56	22.46		
1.4	QPSK	3	0	22.51	22.54	22.64		
1.4	QPSK	3	1	22.43	22.41	22.46		
1.4	QPSK	6	0	22.51	22.55	22.94		
1.4	QPSK	6	3	22.46	22.53	22.93		
1.4	16QAM	1	0	22.59	22.52	22.93	23.5	0
1.4	16QAM	1	3	22.47	22.42	22.49		
1.4	16QAM	1	6	22.55	22.47	22.44		
1.4	16QAM	3	0	22.44	22.53	22.48		
1.4	16QAM	3	1	22.34	22.52	22.56		
1.4	16QAM	3	1	22.46	22.57	22.93		
1.4	16QAM	6	0	22.43	22.47	22.43		
1.4	64QAM	1	0	22.36	22.52	22.36	23.5	0
1.4	64QAM	1	3	22.45	22.47	22.46		
1.4	64QAM	1	6	22.42	22.56	22.38		
1.4	64QAM	3	0	22.36	22.60	22.48		
1.4	64QAM	3	1	22.50	22.98	22.48		
1.4	64QAM	3	1	22.45	22.39	22.44		
1.4	64QAM	6	0	21.86	21.76	21.87	22.5	1
1.4	256QAM	1	0	18.73	18.99	18.89	20.5	3
1.4	256QAM	1	3	18.78	18.86	18.78		
1.4	256QAM	1	6	18.76	18.85	18.68		
1.4	256QAM	3	0	18.80	18.86	18.76		
1.4	256QAM	3	1	18.74	18.79	18.99		
1.4	256QAM	3	1	18.66	18.86	18.61		
1.4	256QAM	6	0	18.64	18.68	18.60	20.5	3

Band 71 Default Ant 0

RF (MHz)	Modulation	RB Size</
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Band 38 Default Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.97	20.95	20.93	22	0		
20	QPSK	1	49	20.48	20.43	20.40	22	0		
20	QPSK	1	99	20.47	20.43	20.40	22	0		
20	QPSK	50	0	20.47	20.55	20.33	22	0		
20	QPSK	50	24	20.38	20.50	20.42	22	0		
20	QPSK	50	49	20.33	20.57	20.33	22	0		
20	QPSK	100	0	20.37	20.52	20.33	22	0		
20	HQAM	1	0	20.46	20.57	20.39	22	0		
20	HQAM	1	49	20.36	20.45	20.35	22	0		
20	HQAM	1	99	20.29	20.33	20.40	22	0		
20	HQAM	50	0	20.08	20.52	20.04	21.5	0.5		
20	HQAM	50	24	20.10	20.50	20.46	21.5	0.5		
20	HQAM	50	49	19.97	20.03	19.96	21.5	0.5		
20	HQAM	100	0	19.92	20.11	20.00	21.5	0.5		
20	HQAM	100	0	20.03	20.25	20.15	21.5	0.5		
20	HQAM	1	49	19.94	20.04	20.10	21.5	0.5		
20	HQAM	1	99	20.10	20.01	20.00	21.5	0.5		
20	HQAM	50	0	19.88	20.04	19.95	20.5	1.5		
20	HQAM	50	24	19.83	19.90	19.89	20.5	1.5		
20	HQAM	50	49	19.82	19.89	19.83	20.5	1.5		
20	HQAM	100	0	19.85	19.88	19.79	20.5	1.5		
20	25QAM	1	0	17.91	18.08	17.94	18.5	3.5		
20	25QAM	1	49	17.82	17.89	17.89	18.5	3.5		
20	25QAM	1	99	17.86	17.86	17.87	18.5	3.5		
20	25QAM	50	0	17.84	17.89	17.87	18.5	3.5		
20	25QAM	50	24	17.80	17.85	17.80	18.5	3.5		
20	25QAM	50	49	17.77	17.87	17.81	18.5	3.5		
20	25QAM	100	0	17.80	17.83	17.80	18.5	3.5		
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.50	20.60	20.42	22	0		
15	QPSK	1	37	20.29	20.36	20.42	22	0		
15	QPSK	1	74	20.40	20.36	20.23	22	0		
15	QPSK	36	0	20.30	20.30	20.27	22	0		
15	QPSK	36	20	20.24	20.39	20.31	22	0		
15	QPSK	75	0	20.31	20.39	20.28	22	0		
15	HQAM	1	0	20.31	20.44	20.29	22	0		
15	HQAM	1	37	20.37	20.37	20.33	22	0		
15	HQAM	1	74	20.25	20.23	20.33	22	0		
15	HQAM	36	0	19.95	20.20	19.88	21.5	0.5		
15	HQAM	36	20	19.82	19.85	19.80	21.5	0.5		
15	HQAM	36	39	19.79	19.83	19.83	21.5	0.5		
15	HQAM	75	0	19.85	19.89	19.86	21.5	0.5		
15	HQAM	1	0	19.94	20.23	19.89	21.5	0.5		
15	HQAM	1	37	19.77	19.97	20.07	21.5	0.5		
15	HQAM	1	74	20.01	19.95	19.86	21.5	0.5		
15	HQAM	36	0	19.77	20.01	19.91	21.5	0.5		
15	HQAM	36	20	19.73	19.86	19.89	21.5	1.5		
15	HQAM	36	39	19.71	19.85	19.85	21.5	1.5		
15	HQAM	75	0	19.75	19.85	19.85	21.5	1.5		
15	25QAM	1	0	17.78	17.87	17.88	18.5	3.5		
15	25QAM	1	37	17.76	17.83	17.83	18.5	3.5		
15	25QAM	1	74	17.73	17.82	17.72	18.5	3.5		
15	25QAM	36	0	17.83	18.00	17.82	18.5	3.5		
15	25QAM	36	20	17.86	17.89	17.82	18.5	3.5		
15	25QAM	36	39	17.84	17.77	17.71	18.5	3.5		
15	25QAM	75	0	17.79	17.80	17.81	18.5	3.5		
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.50	20.60	20.50	22	0		
10	QPSK	1	25	20.31	20.39	20.41	22	0		
10	QPSK	1	49	20.35	20.28	20.34	22	0		
10	QPSK	12	0	20.38	20.46	20.38	22	0		
10	QPSK	25	12	20.24	20.46	20.38	22	0		
10	QPSK	25	25	20.17	20.25	20.22	22	0		
10	HQAM	1	0	20.34	20.42	20.38	22	0		
10	HQAM	1	0	20.32	20.41	20.29	22	0		
10	HQAM	1	25	20.22	20.33	20.29	22	0		
10	HQAM	1	49	20.16	20.17	20.31	22	0		
10	HQAM	25	0	20.04	20.20	19.98	21.5	0.5		
10	HQAM	25	12	20.04	19.95	19.90	21.5	0.5		
10	HQAM	25	25	19.81	19.86	19.87	21.5	0.5		
10	HQAM	50	0	19.86	20.04	19.84	21.5	0.5		
10	HQAM	1	0	19.80	20.09	20.01	21.5	0.5		
10	HQAM	1	25	19.82	20.01	20.01	21.5	0.5		
10	HQAM	1	49	20.06	19.83	20.04	21.5	0.5		
10	HQAM	25	0	19.81	20.00	19.81	21.5	0.5		
10	HQAM	25	12	19.71	19.85	19.78	20.5	1.5		
10	HQAM	25	25	19.74	19.71	19.75	20.5	1.5		
10	HQAM	50	0	19.80	19.83	19.72	20.5	1.5		
10	25QAM	1	0	17.81	18.03	17.84	18.5	3.5		
10	25QAM	1	25	17.73	17.87	17.86	18.5	3.5		
10	25QAM	1	49	17.71	17.79	17.76	18.5	3.5		
10	25QAM	25	0	17.84	17.83	17.84	18.5	3.5		
10	25QAM	25	12	17.80	17.81	17.86	18.5	3.5		
10	25QAM	25	25	17.69	17.82	17.85	18.5	3.5		
10	25QAM	50	0	17.85	17.88	17.84	18.5	3.5		
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.56	20.61	20.35	22	0		
5	QPSK	1	12	20.31	20.32	20.37	22	0		
5	QPSK	1	24	20.44	20.39	20.33	22	0		
5	QPSK	12	0	20.38	20.46	20.38	22	0		
5	QPSK	12	7	20.24	20.42	20.38	22	0		
5	QPSK	12	13	20.11	20.29	20.18	22	0		
5	HQAM	1	0	20.30	20.39	20.29	22	0		
5	HQAM	1	0	20.31	20.44	20.23	22	0		
5	HQAM	1	12	20.28	20.39	20.15	22	0		
5	HQAM	1	24	20.16	20.29	20.20	22	0		
5	HQAM	12	0	19.93	20.17	19.96	21.5	0.5		
5	HQAM	12	7	19.97	19.82	20.00	21.5	0.5		
5	HQAM	12	13	19.77	19.83	19.80	21.5	0.5		
5	HQAM	25	0	19.82	19.96	19.83	21.5	0.5		
5	HQAM	1	0	19.84	20.12	20.00	21.5	0.5		
5	HQAM	1	12	19.89	19.86	20.00	21.5	0.5		
5	HQAM	1	24	19.95	19.91	19.99	21.5	0.5		
5	HQAM	12	0	19.78	19.87	19.81	20.5	1.5		
5	HQAM	12	7	19.76	19.76	19.75	20.5	1.5		
5	HQAM	12	13	19.72	19.78	19.71	20.5	1.5		
5	25QAM	1	0	17.83	18.01	17.80	18.5	3.5		
5	25QAM	1	12	17.74	18.03	17.82	18.5	3.5		
5	25QAM	1	24	17.74	17.70	17.70	18.5	3.5		
5	25QAM	12	7	17.70	17.86	17.86	18.5	3.5		
5	25QAM	12	13	17.70	17.81	17.70	18.5	3.5		
5	25QAM	25	0	17.87	17.89	17.89	18.5	3.5		

Band 41 FCC&C Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.81	22.03	22.02	23	0		
20	QPSK	1	49	21.81	22.03	22.02	23	0		
20	QPSK	1	99	21.77	21.76	21.81	23	0		
20	QPSK	50	0	22.01	21.91	22.00	23	0		
20	QPSK	50	24	21.72	21.81	21.81	23	0		
20	QPSK	50	49	21.82	21.82	21.83	23	0		
20	QPSK	100	0	21.83	21.76	21.86	23	0		
20	HQAM	1	0	21.82	21.82	21.86	23	0		
20	HQAM	1	49	21.73	21.82	21.87	23	0		
20	HQAM	1	99	21.67	21.77	21.78	23	0		
20	HQAM	50	0	21.30	21.18	21.08	22.5	0.5		
20	HQAM	50	24	21.30	21.17	21.20	22.5	0.5		
20	HQAM	50	49	21.69	21.68	21.76	22.5	0.5		
20	HQAM	100	0	21.30	21.21	21.35	22.5	0.5		
20	HQAM	100	0	21.41	21.33	21.49	22.5	0.5		
20	HQAM	1	49	21.30	21.27	21.37	22.5	0.5		
20	HQAM	1	99	21.18	21.24	21.30	22.5	0.5		
20	HQAM	50	0	20.27	20.27	20.40	21.5	1.5		
20	HQAM	50	24	20.23	20.24	20.32	21.5	1.5		
20	HQAM	50	49	20.10	20.18	20.24	21.5	1.5		
20	HQAM	100	0	20.16	20.14	20.22	21.5	1.5		
20	25QAM	1	0	18.24	18.20	18.37	19.5	3.5		
20	25QAM	1	49	18.27	18.18	18.16	19.5	3.5		
20	25QAM	1	99	18.10	18.08	18.23	19.5	3.5		
20	25QAM	50	0	18.14	18.16	18.16	19.5	3.5		
20	25QAM	50	24	18.18	18.14	18.24	19.5	3.5		
20	25QAM	50	49	18.12	18.05	18.20	19.5	3.5		
20	25QAM	100	0	18.14	18.16	18.16	19.5	3.5		
Channel										
Frequency (MHz)										
15	QPSK	1	0	21.84	21.93	22.04	23.00	0</		



Band 41 PC2 FCC&Int 0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Mid Ch / Freq	Power High Mid Ch / Freq	Power Low Highb Ch / Freq	Power High Highb Ch / Freq	Tune-up Int (dBm)	MPR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	23.54	23.64	23.64	23.64	23.64	23.64	24.6	0
20	QPSK	1	49	23.42	23.24	23.55	23.35	23.37	23.37		
20	QPSK	1	99	23.20	23.28	23.29	23.29	23.29	23.29		
20	QPSK	50	0	23.40	23.32	23.50	23.18	23.13	23.13		
20	QPSK	50	24	23.29	23.21	23.43	23.25	23.13	23.13	24.6	0
20	QPSK	50	49	23.07	23.07	23.07	23.07	23.07	23.07		
20	QPSK	100	0	23.28	23.19	23.35	23.24	23.18	23.18		
20	HQAM	1	0	23.51	23.48	23.57	23.51	23.43	23.43	24.6	0
20	HQAM	1	49	23.29	23.28	23.29	23.45	23.27	23.27		
20	HQAM	1	99	23.33	23.31	23.42	23.40	23.21	23.21		
20	HQAM	50	0	23.28	23.18	23.34	23.29	23.07	23.07		
20	HQAM	50	24	23.24	23.19	23.39	23.12	23.12	23.12	24.6	0
20	HQAM	50	49	23.14	23.00	23.10	23.12	22.92	22.92		
20	HQAM	100	0	23.26	23.22	23.27	23.16	23.12	23.12		
20	HQAM	100	49	23.04	23.16	23.06	23.12	22.92	22.92	24.6	0
20	HQAM	100	99	23.13	23.09	23.14	23.00	22.88	22.88		
20	HQAM	500	0	23.28	23.22	23.38	23.20	23.14	23.14		
20	HQAM	500	24	23.15	23.14	23.27	23.19	23.03	23.03	24	0.6
20	HQAM	500	50	23.14	23.10	23.21	23.15	23.06	23.06		
20	HQAM	1000	0	23.11	23.17	23.23	23.22	23.02	23.02		
20	HQAM	1000	49	23.51	23.42	23.56	23.46	23.28	23.28	22	2.6
20	HQAM	1000	49	23.54	23.40	23.45	23.45	23.20	23.20		
20	HQAM	1000	99	23.24	23.37	23.38	23.38	23.18	23.18		
20	HQAM	5000	0	23.07	23.07	23.07	23.07	23.04	23.04		
20	HQAM	5000	24	23.22	23.16	23.29	23.24	23.04	23.04	22	2.6
20	HQAM	5000	50	23.14	23.12	23.21	23.20	23.05	23.05		
20	HQAM	10000	0	23.32	23.21	23.35	23.19	23.16	23.16		
Channel											
Frequency (MHz)											
15	QPSK	1	0	23.53	23.44	23.51	23.47	23.43	23.43	24.60	0
15	QPSK	1	37	23.29	23.30	23.50	23.23	23.33	23.33		
15	QPSK	1	74	23.14	23.24	23.29	23.29	23.26	23.26		
15	QPSK	38	0	23.26	23.28	23.43	23.09	23.01	23.01	24.6	0
15	QPSK	38	20	23.22	23.15	23.40	23.20	23.07	23.07		
15	QPSK	38	39	23.07	23.07	23.07	23.07	23.04	23.04		
15	QPSK	75	0	23.20	23.07	23.24	23.19	23.15	23.15	24.6	0
15	HQAM	1	0	23.48	23.35	23.50	23.43	23.31	23.31		
15	HQAM	1	37	23.24	23.23	23.29	23.26	23.19	23.19		
15	HQAM	1	74	23.29	23.20	23.33	23.42	23.11	23.11	24.6	0
15	HQAM	38	0	23.24	23.06	23.25	23.21	22.99	22.99		
15	HQAM	38	20	23.13	23.05	23.21	23.10	22.95	22.95	24.6	0
15	HQAM	38	39	23.11	22.90	23.03	23.08	22.85	22.85		
15	HQAM	75	0	23.16	23.18	23.26	23.08	23.11	23.11		
15	HQAM	75	0	23.04	23.10	23.19	23.10	22.95	22.95	24.6	0
15	HQAM	1	37	22.96	23.00	22.99	23.09	22.81	22.81		
15	HQAM	1	74	23.01	23.05	23.06	23.06	22.89	22.89		
15	HQAM	38	0	23.19	23.18	23.18	23.05	23.05	23.05	24	0.6
15	HQAM	38	20	23.05	23.09	23.22	23.15	22.97	22.97		
15	HQAM	38	39	23.02	23.02	23.02	23.02	22.84	22.84		
15	HQAM	75	0	23.04	23.03	23.05	23.15	22.92	22.92		
15	HQAM	1	0	23.43	23.30	23.51	23.39	23.22	23.22	22	2.6
15	HQAM	1	37	23.42	23.17	23.17	23.17	23.16	23.16		
15	HQAM	1	74	23.20	23.26	23.32	23.23	23.10	23.10		
15	HQAM	38	0	23.24	23.17	23.34	23.25	23.11	23.11	22	2.6
15	HQAM	38	20	23.08	23.12	23.12	23.15	23.09	23.09		
15	HQAM	38	39	23.10	23.08	23.07	23.09	23.08	23.08		
15	HQAM	75	0	23.21	23.12	23.21	23.16	23.07	23.07		
Channel											
Frequency (MHz)											
10	QPSK	1	0	23.44	23.44	23.44	23.44	23.44	23.44	24.60	0
10	QPSK	1	25	23.35	23.34	23.53	23.27	23.24	23.24		
10	QPSK	1	49	23.09	23.33	23.28	23.29	23.24	23.24		
10	QPSK	25	0	23.36	23.32	23.32	23.32	23.06	23.06		
10	QPSK	25	12	23.25	23.07	23.32	23.18	23.10	23.10	24.6	0
10	QPSK	25	25	22.98	23.14	23.13	23.20	22.94	22.94		
10	QPSK	50	0	23.43	23.43	23.43	23.43	23.11	23.11		
10	HQAM	1	0	23.43	23.42	23.46	23.48	23.41	23.41	24.6	0
10	HQAM	1	25	23.22	23.22	23.46	23.43	23.23	23.23		
10	HQAM	1	49	23.19	23.22	23.31	23.40	23.15	23.15		
10	HQAM	25	0	23.18	23.12	23.28	23.14	22.99	22.99	24.6	0
10	HQAM	25	12	23.13	23.16	23.17	23.09	23.09	23.09		
10	HQAM	50	0	23.19	23.18	23.22	23.03	23.19	23.19		
10	HQAM	50	12	23.06	23.04	23.10	23.02	23.01	23.01	24.6	0
10	HQAM	1	25	23.00	23.01	23.02	23.01	22.88	22.88		
10	HQAM	1	49	23.01	22.95	23.00	22.95	22.92	22.92		
10	HQAM	25	0	23.21	23.08	23.20	23.15	23.03	23.03		
10	HQAM	25	12	23.05	23.10	23.24	23.09	22.89	22.89	24	0.6
10	HQAM	25	25	23.02	22.97	23.20	23.08	22.96	22.96		
10	HQAM	50	0	22.97	23.07	23.10	23.19	22.98	22.98		
10	HQAM	1000	0	23.47	23.39	23.54	23.36	23.18	23.18	22	2.6
10	HQAM	1000	1	23.51	23.46	23.47	23.39	23.25	23.25		
10	HQAM	1000	49	23.14	23.20	23.25	23.30	23.22	23.22		
10	HQAM	25	0	23.28	23.21	23.30	23.32	23.20	23.20		
10	HQAM	25	12	23.00	23.04	23.20	23.17	23.04	23.04	22	2.6
10	HQAM	25	25	22.99	23.07	23.13	23.10	23.06	23.06		
10	HQAM	50	0	23.28	23.16	23.27	23.11	23.02	23.02		
Channel											
Frequency (MHz)											
5	QPSK	1	0	23.51	23.48	23.45	23.36	23.37	23.37	24.60	0
5	QPSK	1	12	23.36	23.21	23.51	23.26	23.33	23.33		
5	QPSK	1	24	23.15	23.33	23.30	23.25	23.30	23.30		
5	QPSK	12	0	23.35	23.27	23.46	23.08	23.06	23.06	24.6	0
5	QPSK	12	7	23.27	23.14	23.34	23.15	23.07	23.07		
5	QPSK	12	13	22.95	23.03	23.10	23.22	22.93	22.93		
5	QPSK	25	0	23.22	23.23	23.26	23.21	23.19	23.19		
5	HQAM	1	0	23.48	23.40	23.55	23.30	23.29	23.29	24.6	0
5	HQAM	1	12	23.18	23.22	23.46	23.35	23.15	23.15		
5	HQAM	1	24	23.21	23.25	23.39	23.29	23.06	23.06		
5	HQAM	12	0	23.18	23.11	23.21	23.11	23.01	23.01	24.6	0
5	HQAM	12	7	23.10	23.10	23.10	23.06	23.06	23.06		
5	HQAM	12	13	23.10	22.94	23.00	23.00	22.82	22.82		
5	HQAM	25	0	23.23	23.22	23.23	23.02	23.10	23.10	24.6	0
5	HQAM	1	0	23.04	23.04	23.16	23.08	22.93	22.93		
5	HQAM	1	12	23.01	23.05	23.02	23.04	22.83	22.83		
5	HQAM	1	24	23.03	22.97	23.00	22.92	22.88	22.88		
5	HQAM	12	0	23.18	23.15	23.07	23.07	22.88	22.88	24	0.6
5	HQAM	12	7	23.08	23.08	23.13	23.10	22.90	22.90		
5	HQAM	25	0	23.06	23.11	23.11	23.16	22.96	22.96		
5	HQAM	1	0	23.45	23.34	23.40	23.41				



DCM900 Aet									
Default									
	Base Average Power (dBm)			Turnup Limit	Frame Average Power (dBm)			Turnup Limit	
	198	199	201	Limit	198	199	201	Limit	
Frequency (MHz)	89.2	89.4	89.6	(dBm)	89.2	89.4	89.6	(dBm)	
TX Channel	198	199	201		198	199	201		
OPRS-1 Tx side	31.42	31.48	31.36	32.50	22.42	22.48	22.36	23.50	
OPRS-2 Tx side	31.38	31.44	31.33	32.50	22.39	22.45	22.33	23.50	
OPRS-3 Tx side	29.27	29.30	29.32	29.50	22.27	22.29	22.30	23.50	
OPRS-4 Tx side	26.80	26.91	26.80	28.00	22.34	22.55	22.44	23.74	
EDGE-1 Tx side	25.16	25.22	25.17	26.00	20.16	20.22	20.17	21.00	
EDGE-2 Tx side	24.00	24.17	24.05	25.00	18.03	18.17	18.05	18.50	
EDGE-3 Tx side	22.20	22.41	22.34	23.00	16.20	16.41	16.34	17.00	
EDGE-4 Tx side	21.15	21.21	21.08	22.00	15.89	16.07	15.82	17.74	
EDGE-5 Tx side	18.50	18.50	18.53	20.00	15.99	16.08	16.01	17.00	

DCM1000 Aet									
Default									
	Base Average Power (dBm)			Turnup Limit	Frame Average Power (dBm)			Turnup Limit	
	199.2	199	199.8	Limit	199.2	199	199.8	Limit	
Frequency (MHz)	89.2	89.4	89.6	(dBm)	89.2	89.4	89.6	(dBm)	
TX Channel	199.2 <td>199</td> <td>199.8</td> <td></td> <td>199.2 <td>199</td> <td>199.8</td> <td></td> <td></td> </td>	199	199.8		199.2 <td>199</td> <td>199.8</td> <td></td> <td></td>	199	199.8		
OPRS-1 Tx side	27.52	27.67	27.67	28.50	18.52	18.67	18.67	19.50	
OPRS-2 Tx side	25.06	25.00	24.98	26.00	19.06	19.00	18.98	20.00	
OPRS-3 Tx side	25.36	25.42	25.32	26.50	19.10	19.16	19.06	20.24	
OPRS-4 Tx side	20.62	20.74	20.63	21.50	17.62	17.74	17.63	18.50	
EDGE-1 Tx side	22.76	22.86	22.72	23.50	13.76	13.86	13.72	14.50	
EDGE-2 Tx side	21.13	21.22	21.13	22.00	13.13	13.22	13.13	16.00	
EDGE-3 Tx side	14.86	14.96	14.86	21.00	11.86	11.96	11.86	18.74	
EDGE-4 Tx side	17.01	18.00	17.07	19.00	14.91	15.00	14.97	16.00	

Default WCDMA R Aet										Default WCDMA U Aet			Default WCDMA V Aet				
	1998			1999	1998	1992			1413	1513	4152			4162	4238	Turn-up Limit (dBm)	
Frequency (MHz)	1852.4	1860	1867.6	1870	1876.8	1712.4	1724.8	1732.8	1732.8	1732.8	836.4	838.4	840.6	840.6	840.6	(dBm)	
TX Channel	1998	1999	1998	1999	1998	1992	1998	1998	1992	1998	1992	1998	1998	1992	1998	1992	
ISPP Rate	NRPA-Subnet1	21.46	21.52	21.44	22.50	21.42	21.44	21.31	22.40	21.14	21.17	21.04	21.04	21.00	21.00	22.00	
ISPP Rate	NRPA-Subnet2	21.48	21.51	21.51	22.50	21.45	21.45	21.37	22.40	21.17	21.17	21.00	21.00	21.00	21.00	22.00	
ISPP Rate	NRPA-Subnet3	20.85	20.64	20.47	21.50	20.46	20.57	20.32	21.40	20.23	20.23	20.00	20.00	20.00	20.00	22.00	
ISPP Rate	NRPA-Subnet4	20.48	20.51	20.52	21.50	20.42	20.50	20.41	21.40	20.12	20.12	20.17	20.17	20.17	22.00		
ISPP Rate	NRPA-Subnet5	20.02	20.14	20.10	21.00	19.91	20.02	19.95	20.90	19.87	19.70	19.89	19.89	21.50			
ISPP Rate	DCHNRPA-Subnet1	19.56	20.14	20.36	21.00	19.87	20.31	20.54	20.90	19.56	19.70	19.84	19.84	21.50			
ISPP Rate	DCHNRPA-Subnet2	20.50	20.70	20.45	21.50	20.46	20.63	20.35	21.40	20.21	20.32	20.91	20.91	22.00			
ISPP Rate	DCHNRPA-Subnet3	20.37	20.42	20.36	21.00	20.33	20.29	20.28	21.40	20.08	20.08	19.84	19.84	22.00			
ISPP Rate	DCHNRPA-Subnet4	19.00	19.96	19.92	21.00	19.94	19.94	19.86	20.90	19.95	19.95	19.95	19.95	21.50			
ISPP Rate	DCHNRPA-Subnet5	19.87	19.84	19.89	21.00	19.82	19.80	19.83	20.90	19.49	19.47	19.64	19.64	21.50			
ISPP Rate	HRPA-Subnet1	20.96	20.81	20.80	21.50	20.43	20.98	20.96	21.40	20.10	20.22	20.28	20.28	22.00			
ISPP Rate	HRPA-Subnet2	18.53	18.67	18.52	19.50	18.42	18.53	18.39	19.40	18.09	18.19	18.13	18.13	20.00			
ISPP Rate	HRPA-Subnet3	18.20	18.41	18.36	20.00	18.43	18.51	18.47	20.00	18.18	18.26	18.15	18.15	21.50			
ISPP Rate	HRPA-Subnet4	18.46	18.48	18.44	19.50	18.37	18.45	18.35	19.40	18.04	18.14	18.03	18.03	20.00			
ISPP Rate	HRPA-Subnet5	20.59	20.40	20.39	21.50	20.50	20.36	20.33	21.40	20.21	20.03	20.08	20.08	22.00			



Band 12 Default Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int. (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.81	21.73	21.68				
10	QPSK	1	25	21.90	21.80	21.52				
10	QPSK	1	49	21.47	21.49	21.92		23	0	
10	QPSK	25	0	21.60	21.70	21.55				
10	QPSK	25	12	21.63	21.63	21.63				
10	QPSK	25	25	21.46	21.48	21.46		23	0	
10	QPSK	50	0	21.51	21.57	21.45				
10	QPSK	50	12	21.55	21.50	21.51				
10	16QAM	1	25	21.40	21.48	21.36		23	0	
10	16QAM	1	49	21.35	21.46	21.44				
10	16QAM	25	0	21.39	21.50	21.49				
10	16QAM	25	12	21.34	21.40	21.40		22.5	0.5	
10	16QAM	25	25	21.38	21.39	21.41				
10	16QAM	50	0	21.52	21.50	21.40				
10	16QAM	1	0	21.34	21.50	21.36		22.5	0.5	
10	84QAM	1	25	21.26	21.26	21.33		22.5	0.5	
10	84QAM	1	49	21.24	21.38	21.28				
10	84QAM	25	0	20.49	20.53	20.43				
10	84QAM	25	12	20.57	20.43	20.31		21.5	1.5	
10	84QAM	25	25	20.33	20.34	20.33				
10	84QAM	50	0	20.25	20.27	20.31				
10	256QAM	1	25	18.44	18.42	18.36		19.5	3.5	
10	256QAM	1	49	18.41	18.37	18.33				
10	256QAM	25	0	18.26	18.26	18.35				
10	256QAM	25	12	18.26	18.37	18.36		19.5	3.5	
10	256QAM	25	25	18.24	18.32	18.32				
10	256QAM	50	0	18.33	18.25	18.20				
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.56	21.63	21.54				
5	QPSK	1	25	21.37	21.63	21.43		23	0	
5	QPSK	1	49	21.33	21.44	21.40				
5	QPSK	12	0	21.31	21.56	21.44				
5	QPSK	12	7	21.49	21.59	21.39		23	0	
5	QPSK	12	13	21.34	21.39	21.41				
5	QPSK	25	0	21.40	21.46	21.45				
5	16QAM	1	25	21.48	21.48	21.40		23	0	
5	16QAM	1	49	21.36	21.37	21.23				
5	16QAM	12	0	21.31	21.48	21.41				
5	16QAM	12	7	21.23	21.39	21.27		22.5	0.5	
5	16QAM	12	13	21.27	21.32	21.36				
5	16QAM	25	0	21.26	21.43	21.34				
5	84QAM	1	0	21.20	21.36	21.22		22.5	0.5	
5	84QAM	1	25	21.12	21.27	21.31				
5	84QAM	1	49	21.13	21.26	21.20				
5	84QAM	12	0	20.31	20.41	20.36		21.5	1.5	
5	84QAM	12	7	20.33	20.34	20.16				
5	84QAM	12	13	20.17	20.20	20.15				
5	84QAM	25	0	20.15	20.22	20.24				
5	256QAM	1	0	18.36	18.32	18.36		19.5	3.5	
5	256QAM	1	12	18.31	18.50	18.45				
5	256QAM	1	24	18.28	18.31	18.25				
5	256QAM	12	0	18.17	18.23	18.24		19.5	3.5	
5	256QAM	12	7	18.17	18.24	18.23				
5	256QAM	12	13	18.20	18.23	18.23				
5	256QAM	25	0	18.23	18.42	18.17				
Channel										
Frequency (MHz)										
3	QPSK	1	0	21.62	21.69	21.55				
3	QPSK	1	25	21.32	21.54	21.37		23	0	
3	QPSK	1	49	21.42	21.43	21.38				
3	QPSK	1	7	21.56	21.60	21.48				
3	QPSK	8	7	21.48	21.52	21.39		23	0	
3	QPSK	8	7	21.32	21.40	21.38				
3	QPSK	16	0	21.52	21.52	21.36				
3	16QAM	1	0	21.47	21.57	21.37		23	0	
3	16QAM	1	8	21.30	21.41	21.33				
3	16QAM	1	8	21.22	21.43	21.36				
3	16QAM	8	0	21.26	21.49	21.41		22.5	0.5	
3	16QAM	8	4	21.21	21.38	21.30				
3	16QAM	8	7	21.28	21.30	21.27				
3	16QAM	15	0	21.22	21.47	21.39		21.5	1.5	
3	84QAM	1	0	21.20	21.40	21.29		22.5	0.5	
3	84QAM	1	8	21.12	21.28	21.18				
3	84QAM	1	14	21.12	21.23	21.16				
3	84QAM	8	0	20.37	20.43	20.39				
3	84QAM	8	4	20.33	20.28	20.25				
3	84QAM	8	7	20.16	20.19	20.27				
3	256QAM	1	0	18.30	18.25	18.22		19.5	3.5	
3	256QAM	1	8	18.27	18.49	18.36				
3	256QAM	1	14	18.28	18.33	18.26				
3	256QAM	8	0	18.16	18.23	18.23		19.5	3.5	
3	256QAM	8	4	18.18	18.26	18.30				
3	256QAM	8	7	18.20	18.19	18.29				
3	256QAM	15	0	18.23	18.38	18.17				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	21.62	21.69	21.55				
1.4	QPSK	1	3	21.35	21.50	21.40		23	0	
1.4	QPSK	1	5	21.40	21.44	21.45				
1.4	QPSK	3	0	21.57	21.57	21.40				
1.4	QPSK	3	1	21.48	21.50	21.39		23	0	
1.4	QPSK	3	3	21.35	21.39	21.38				
1.4	16QAM	1	0	21.30	21.50	21.39				
1.4	16QAM	1	3	21.34	21.40	21.33		23	0	
1.4	16QAM	1	5	21.26	21.43	21.40				
1.4	16QAM	3	0	21.28	21.48	21.39				
1.4	16QAM	3	1	21.26	21.44	21.28		22.5	0.5	
1.4	16QAM	3	3	21.23	21.37	21.36				
1.4	84QAM	1	0	21.21	21.48	21.34		22.5	0.5	
1.4	84QAM	1	3	21.28	21.41	21.27				
1.4	84QAM	1	5	21.13	21.21	21.19				
1.4	84QAM	3	0	21.23	21.36	21.32		22.5	0.5	
1.4	84QAM	3	1	21.23	21.23	21.20				
1.4	84QAM	3	3	21.10	21.22	21.17				
1.4	84QAM	8	0	20.39	20.41	20.29		21.5	1.5	
1.4	256QAM	1	0	18.37	18.49	18.44		19.5	3.5	
1.4	256QAM	1	3	18.33	18.50	18.44				
1.4	256QAM	3	0	18.29	18.26	18.24				
1.4	256QAM	3	1	18.27	18.30	18.30		19.5	3.5	
1.4	256QAM	3	1	18.14	18.20	18.24				
1.4	256QAM	8	0	18.19	18.24	18.22		19.5	3.5	
1.4	256QAM	8	1	18.21	18.30	18.19				

Band 13 Default Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int. (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.67	21.67	21.67				
10	QPSK	1	25	21.48	21.47	21.47		23	0	
10	QPSK	1	49	21.50	21.50	21.50				
10	QPSK	25	0	21.63	21.63	21.63				
10	QPSK	25	12	21.52	21.52	21.52		23	0	
10	QPSK	25	25	21.39	21.39	21.39				
10	QPSK	50	0	21.50	21.50	21.50				
10	QPSK	50	12	21.51	21.50	21.50				
10	16QAM	1	25	21.45	21.45	21.45		23	0	
10	16QAM	1	49	21.45	21.45	21.45				
10	16QAM	25	0	21.47	21.47	21.47				
10	16QAM	25	12	21.42	21.42	21.42		22.5	0.5	
10	16QAM	25	25	21.40	21.40	21.40				
10	16QAM	50	0	21.39	21.39	21.39				
10	84QAM	1	0	21.19	21.19	21.19		22.5	0.5	
10	84QAM	1	25	21.04	21.04	21.04		22.5	0.5	
10	84QAM	1	49	21.02	21.02	21.02				
10	84QAM	25								



Band 25 Default Ant 1										
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.00	21.11	21.06				
20	QPSK	1	49	20.83	20.94	20.89			22	0
20	QPSK	1	99	20.67	20.78	20.73				
20	QPSK	50	0	20.92	21.06	20.96				
20	QPSK	50	24	20.84	20.95	20.90				
20	QPSK	50	50	20.76	20.87	20.80			22	0
20	QPSK	100	0	20.89	21.02	20.94				
20	16QAM	50	0	20.87	21.06	20.93				
20	16QAM	1	49	20.83	20.93	20.89			22	0
20	16QAM	1	99	20.76	20.86	20.80				
20	16QAM	50	0	20.84	21.00	20.84				
20	16QAM	50	24	20.77	20.90	20.81			22	0
20	16QAM	50	50	20.74	20.79	20.75				
20	16QAM	100	0	20.82	20.98	20.78				
20	64QAM	1	0	20.88	21.09	20.97				
20	64QAM	1	49	20.92	20.97	20.89			22	0
20	64QAM	1	99	20.88	20.98	20.89				
20	64QAM	50	0	20.89	21.01	20.89				
20	64QAM	50	24	20.81	20.89	20.84				
20	64QAM	50	50	20.76	20.78	20.74			22	0
20	256QAM	1	0	20.86	20.97	20.89				
20	256QAM	1	49	17.82	17.87	17.88			19	3
20	256QAM	1	99	17.77	17.84	17.77				
20	256QAM	50	24	17.80	17.85	17.84			19	3
20	256QAM	50	50	17.71	17.82	17.78				
20	256QAM	100	0	17.82	17.82	17.82				
Channel										
Frequency (MHz)										
18	QPSK	1	0	20.89	21.07	20.98				
18	QPSK	1	37	20.76	20.81	20.79			22	0
18	QPSK	1	74	20.76	20.84	20.78				
18	QPSK	36	0	20.83	20.94	20.91				
18	QPSK	36	25	20.80	20.77	20.77				
18	QPSK	36	39	20.82	20.79	20.74			22	0
18	QPSK	75	0	20.82	20.98	20.88				
18	16QAM	1	0	20.80	20.98	20.88				
18	16QAM	1	37	20.77	20.83	20.79			22	0
18	16QAM	1	74	20.80	20.87	20.81				
18	16QAM	36	0	20.91	20.96	20.91				
18	16QAM	36	29	20.71	20.86	20.74			22	0
18	16QAM	36	49	20.86	20.98	20.92				
18	16QAM	75	0	20.78	20.81	20.81				
18	64QAM	1	0	20.83	21.06	20.88				
18	64QAM	1	37	20.88	20.98	20.97			22	0
18	64QAM	1	74	20.74	20.85	20.75				
18	64QAM	36	0	20.76	20.86	20.75				
18	64QAM	36	29	20.76	20.88	20.83			22	0
18	64QAM	36	39	20.82	20.83	20.80				
18	64QAM	75	0	20.77	20.81	20.88				
18	256QAM	1	0	17.86	17.86	17.86				
18	256QAM	1	37	17.88	17.83	17.79			19	3
18	256QAM	1	74	17.83	17.71	17.73				
18	256QAM	36	0	17.86	17.81	17.86				
18	256QAM	36	29	17.69	17.78	17.77			19	3
18	256QAM	36	39	17.86	17.78	17.67				
18	256QAM	75	0	17.82	17.82	17.82				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.88	21.00	20.94				
10	QPSK	1	25	20.78	20.93	20.89			22	0
10	QPSK	1	49	20.78	20.80	20.73				
10	QPSK	12	0	20.87	20.97	20.91				
10	QPSK	25	12	20.77	20.77	20.76				
10	QPSK	25	25	20.63	20.78	20.73			22	0
10	QPSK	50	0	20.79	20.88	20.82				
10	16QAM	1	0	20.80	20.97	20.82				
10	16QAM	1	24	20.74	20.78	20.79			22	0
10	16QAM	1	49	20.76	20.86	20.81				
10	16QAM	25	0	20.77	20.91	20.75				
10	16QAM	25	12	20.68	20.88	20.74			22	0
10	16QAM	25	25	20.67	20.84	20.82				
10	16QAM	50	0	20.76	20.81	20.85				
10	64QAM	1	0	20.89	21.00	20.93				
10	64QAM	1	24	20.77	20.85	20.77			22	0
10	64QAM	1	49	20.84	20.80	20.85				
10	64QAM	25	0	20.79	20.88	20.74				
10	64QAM	25	12	20.68	20.87	20.82			22	0
10	64QAM	25	25	20.65	20.86	20.82				
10	64QAM	50	0	20.71	20.91	20.81				
10	256QAM	1	0	17.87	17.87	17.87				
10	256QAM	1	24	17.88	17.99	17.74			19	3
10	256QAM	1	49	17.71	17.75	17.62				
10	256QAM	12	0	17.80	17.85	17.82				
10	256QAM	12	12	17.74	17.71	17.77			19	3
10	256QAM	25	25	17.64	17.74	17.74				
10	256QAM	50	0	17.82	17.82	17.82				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.84	20.96	20.90				
5	QPSK	1	12	20.80	20.84	20.89			22	0
5	QPSK	1	24	20.69	20.81	20.89				
5	QPSK	12	0	20.78	20.82	20.82				
5	QPSK	12	7	20.73	20.83	20.74			22	0
5	QPSK	12	13	20.64	20.80	20.74				
5	QPSK	25	0	20.81	20.90	20.80				
5	16QAM	1	0	20.73	20.92	20.82				
5	16QAM	1	12	20.73	20.81	20.75			22	0
5	16QAM	1	24	20.68	20.74	20.78				
5	16QAM	12	0	20.77	20.90	20.86				
5	16QAM	12	7	20.72	20.78	20.72			22	0
5	16QAM	12	13	20.64	20.74	20.87				
5	16QAM	25	0	20.69	20.84	20.83				
5	64QAM	1	0	20.85	21.04	20.91				
5	64QAM	1	12	20.86	20.88	20.81			22	0
5	64QAM	1	24	20.77	20.79	20.89				
5	64QAM	12	0	20.76	20.92	20.84				
5	64QAM	12	7	20.77	20.74	20.79			22	0
5	64QAM	12	13	20.59	20.68	20.83				
5	64QAM	25	0	20.74	20.84	20.86				
5	256QAM	1	0	17.77	17.89	17.77				
5	256QAM	1	12	17.81	18.02	17.74			19	3
5	256QAM	1	24	17.73	17.79	17.69				
5	256QAM	12	0	17.76	17.81	17.75				
5	256QAM	12	7	17.70	17.71	17.74			19	3
5	256QAM	25	13	17.62	17.70	17.74				
5	256QAM	50	0	17.83	17.84	17.83				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.96	20.99	20.93				
3	QPSK	1	8	20.75	20.83	20.87			22	0
3	QPSK	1	14	20.71	20.87	20.79				
3	QPSK	8	0	20.81	21.02	20.91				
3	QPSK	8	4	20.73	20.83	20.76			22	0
3	QPSK	8	7	20.69	20.79	20.71				
3	QPSK	15	0	20.81	20.84	20.83				
3	16QAM	1	0	20.81	20.99	20.86				
3	16QAM	1	8	20.78	20.84	20.85			22	0
3	16QAM	1	14	20.65	20.79	20.72				
3	16QAM	8	0	20.76	20.86	20.79				
3	16QAM	8	4	20.67	20.84	20.72			22	0
3	16QAM	15	0	20.90	20.96	20.91				
3	16QAM	15	0	20.74	20.88	20.83				
3	64QAM	1	0	20.84	21.00	20.87				
3	64QAM	1	8	20.86	20.93	20.78			22	0
3	64QAM	1	14	20.81	20.79	20.69				
3	64QAM	8	0							



Band 66 Default Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Turn-up (min)	APR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.03	21.12	20.97				
20	QPSK	1	49	20.91	21.02	20.88	22	0		
20	QPSK	1	99	20.86	20.90	20.79				
20	QPSK	50	0	20.87	21.07	20.96				
20	QPSK	50	24	20.83	20.98	20.84				
20	QPSK	50	50	20.80	20.87	20.88				
20	QPSK	100	0	20.84	20.95	20.82				
20	16QAM	1	0	20.90	20.92	20.87				
20	16QAM	1	49	20.74	20.80	20.80	22	0		
20	16QAM	1	99	20.78	20.82	20.73				
20	16QAM	50	0	20.71	20.97	20.79				
20	16QAM	50	24	20.84	20.88	20.85				
20	16QAM	50	50	20.83	20.89	20.89				
20	16QAM	100	0	20.82	20.90	20.82				
20	64QAM	1	0	20.81	20.92	20.74				
20	64QAM	1	49	20.75	20.86	20.77	22	0		
20	64QAM	1	99	20.85	20.89	20.88				
20	64QAM	50	0	20.81	20.79	20.69				
20	64QAM	50	24	20.59	20.70	20.56				
20	64QAM	50	50	20.56	20.60	20.49				
20	64QAM	100	0	20.74	20.83	20.82	22	0		
20	256QAM	1	0	17.67	17.69	17.61				
20	256QAM	1	49	17.93	17.91	17.95	19	3		
20	256QAM	1	99	17.79	17.80	17.85				
20	256QAM	50	0	17.85	17.75	17.83				
20	256QAM	50	24	17.60	17.58	17.52				
20	256QAM	50	50	17.47	17.58	17.47	19	3		
20	256QAM	100	0	17.73	17.52	17.60				
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.92	21.07	20.92				
15	QPSK	1	39	20.78	20.90	20.79	22	0		
15	QPSK	1	74	20.77	20.78	20.71				
15	QPSK	36	0	20.78	21.01	20.83				
15	QPSK	36	20	20.75	20.79	20.79				
15	QPSK	36	39	20.87	20.83	20.79	22	0		
15	QPSK	75	0	20.74	20.82	20.74				
15	16QAM	1	0	20.81	20.83	20.75				
15	16QAM	1	37	20.73	20.83	20.77	22	0		
15	16QAM	1	74	20.89	20.86	20.84				
15	16QAM	36	0	20.99	20.74	20.84				
15	16QAM	36	20	20.54	20.54	20.51				
15	16QAM	36	39	20.59	20.58	20.48				
15	16QAM	75	0	20.75	20.88	20.70				
15	64QAM	1	0	20.71	20.80	20.69	22	0		
15	64QAM	1	37	20.81	20.89	20.88				
15	64QAM	1	74	20.54	20.55	20.55				
15	64QAM	36	0	20.56	20.70	20.62				
15	64QAM	36	20	20.53	20.60	20.48				
15	64QAM	36	39	20.48	20.52	20.38	22	0		
15	64QAM	75	0	20.87	20.89	20.88				
15	256QAM	1	0	17.76	17.80	17.81				
15	256QAM	1	37	17.78	17.80	17.83	19	3		
15	256QAM	1	74	17.85	17.85	17.81				
15	256QAM	36	0	17.46	17.70	17.60				
15	256QAM	36	20	17.47	17.52	17.41				
15	256QAM	36	39	17.37	17.50	17.33	19	3		
15	256QAM	75	0	17.44	17.81	17.74				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.81	21.01	20.81				
10	QPSK	1	25	20.83	20.89	20.71	22	0		
10	QPSK	1	49	20.82	20.78	20.72				
10	QPSK	25	0	20.78	20.98	20.88				
10	QPSK	25	12	20.68	20.78	20.79				
10	QPSK	25	25	20.78	20.81	20.74	22	0		
10	16QAM	1	0	20.81	20.83	20.74				
10	16QAM	1	25	20.66	20.75	20.74	22	0		
10	16QAM	1	49	20.73	20.80	20.84				
10	16QAM	25	0	20.58	20.81	20.65				
10	16QAM	25	12	20.54	20.58	20.60	22	0		
10	16QAM	25	25	20.56	20.60	20.48				
10	64QAM	1	0	20.80	20.82	20.68				
10	64QAM	1	25	20.72	20.86	20.71	22	0		
10	64QAM	1	49	20.81	20.72	20.64				
10	64QAM	1	49	20.51	20.55	20.58				
10	64QAM	25	0	20.47	20.71	20.57				
10	64QAM	25	12	20.48	20.48	20.43				
10	64QAM	25	25	20.47	20.46	20.45	22	0		
10	64QAM	50	0	20.87	20.79	20.75				
10	256QAM	1	0	17.86	17.82	17.82				
10	256QAM	1	25	17.88	17.86	17.87	19	3		
10	256QAM	1	49	17.85	17.78	17.79				
10	256QAM	25	0	17.53	17.43	17.59				
10	256QAM	25	12	17.57	17.52	17.45				
10	256QAM	25	25	17.36	17.46	17.43	19	3		
10	256QAM	50	0	17.62	17.62	17.78				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.81	20.80	20.81				
5	QPSK	1	12	20.85	20.92	20.79	22	0		
5	QPSK	1	24	20.80	20.82	20.68				
5	QPSK	12	0	20.75	20.84	20.82				
5	QPSK	12	7	20.78	20.79	20.71	22	0		
5	QPSK	12	13	20.87	20.80	20.79				
5	QPSK	25	0	20.73	20.80	20.87				
5	16QAM	1	0	20.81	20.80	20.76				
5	16QAM	1	12	20.84	20.73	20.75	22	0		
5	16QAM	1	24	20.75	20.72	20.60				
5	16QAM	12	0	20.87	20.72	20.84				
5	16QAM	12	7	20.58	20.57	20.60	22	0		
5	16QAM	12	13	20.50	20.50	20.54				
5	16QAM	25	0	20.76	20.88	20.89				
5	64QAM	1	0	20.70	20.83	20.66	22	0		
5	64QAM	1	12	20.65	20.77	20.64				
5	64QAM	1	24	20.82	20.54	20.81				
5	64QAM	12	0	20.53	20.67	20.60	22	0		
5	64QAM	12	7	20.48	20.59	20.49				
5	64QAM	12	13	20.50	20.53	20.39				
5	64QAM	25	0	20.70	20.77	20.76				
5	256QAM	1	0	17.82	17.80	17.83				
5	256QAM	1	12	17.80	17.80	17.82	19	3		
5	256QAM	1	24	17.70	17.76	17.71				
5	256QAM	12	0	17.55	17.62	17.69				
5	256QAM	12	7	17.54	17.50	17.47	19	3		
5	256QAM	12	13	17.39	17.51	17.44				
5	256QAM	25	0	17.44	17.78	17.75				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.11	21.08	20.12				
3	QPSK	1	8	20.85	20.86	20.74	22	0		
3	QPSK	1	14	20.75	20.85	20.66				
3	QPSK	8	0	20.72	20.84	20.86				
3	QPSK	8	4	20.74	20.80	20.80	22	0		
3	QPSK	8	7	20.69	20.82	20.85				
3	QPSK	15	0	20.72	20.84	20.78				
3	16QAM	1	0	20.87	20.82	20.80	22	0		
3	16QAM	1	8	20.83	20.77	20.73				
3	16QAM	1	14	20.70	20.68	20.67				
3	16QAM	8	0	20.80	20.83	20.74	22	0		
3	16QAM	8	4	20.55	20.53	20.58				
3	16QAM	8	7	20.55	20.61	20.56				
3	64QAM	1	0	20.89	20.82	20.84	22	0		
3	64QAM	1	8	20.84	20.72	20.84				
3	64QAM	1	14	20.51	20.57	20.59				
3	64QAM	8	0	20.49	20.88					



Band 38 DSI3_Standalone Ant 1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	21.36	21.37	21.38	22	0
20	QPSK	1	49	21.40	21.41	21.45		
20	QPSK	50	0	21.37	21.37	21.38		
20	QPSK	50	0	21.20	21.26	21.38		
20	QPSK	50	24	21.17	21.36	21.33	22	0
20	QPSK	100	0	21.20	21.28	21.35		
20	16QAM	1	0	21.44	21.50	21.49	22	0
20	16QAM	1	49	21.36	21.26	21.33		
20	16QAM	1	99	21.17	21.25	21.21		
20	16QAM	50	0	21.01	21.09	21.05		
20	16QAM	50	24	20.84	20.95	20.93		
20	16QAM	50	50	20.80	20.88	20.90	22	0
20	16QAM	100	0	20.94	21.15	21.06		
20	16QAM	1	49	21.24	21.27	21.19	22	0
20	16QAM	1	99	21.14	21.14	21.14		
20	16QAM	50	0	21.36	21.46	21.38		
20	16QAM	50	24	21.20	21.42	21.31	22	0
20	16QAM	50	50	21.13	21.39	21.32		
20	16QAM	100	0	21.36	21.36	21.44		
20	25QAM	1	0	18.83	18.90	18.86		
20	25QAM	1	49	18.79	18.90	18.78	20.5	1.5
20	25QAM	1	99	18.76	18.77	18.78		
20	25QAM	50	0	18.86	18.86	18.87		
20	25QAM	50	24	18.97	18.95	18.96	20.5	1.5
20	25QAM	50	50	18.89	18.85	18.84		
20	25QAM	100	0	18.90	18.95	18.96		
Channel								
Frequency (MHz)								
15	QPSK	1	0	21.73	21.73	21.73	22	0
15	QPSK	1	37	21.07	21.22	21.22		
15	QPSK	1	74	21.13	21.31	21.29		
15	QPSK	36	0	21.13	21.32	21.45		
15	QPSK	36	20	21.20	21.20	21.23	22	0
15	QPSK	36	39	21.21	21.21	21.21		
15	QPSK	75	0	21.21	21.44	21.25		
15	16QAM	1	0	21.20	21.28	21.34	22	0
15	16QAM	1	37	21.28	21.28	21.28		
15	16QAM	1	74	21.11	21.13	21.24		
15	16QAM	36	0	20.90	20.97	20.74		
15	16QAM	36	20	20.76	20.92	20.94	22	0
15	16QAM	36	39	20.85	20.75	20.82		
15	16QAM	75	0	20.78	21.10	20.91		
15	16QAM	1	37	21.10	21.33	21.19	22	0
15	16QAM	1	74	21.01	21.04	21.09		
15	16QAM	36	0	21.36	21.41	21.29		
15	16QAM	36	20	21.17	21.21	21.19	22	0
15	16QAM	36	39	21.08	21.13	21.16		
15	16QAM	75	0	21.20	21.26	21.27		
15	25QAM	1	0	18.77	18.90	18.81	20.5	1.5
15	25QAM	1	37	18.76	18.91	18.82		
15	25QAM	1	74	18.87	18.74	18.74		
15	25QAM	36	0	18.86	18.91	18.92		
15	25QAM	36	20	18.94	18.94	18.97	20.5	1.5
15	25QAM	36	39	18.85	18.88	18.84		
15	25QAM	75	0	18.89	18.90	18.86		
Channel								
Frequency (MHz)								
10	QPSK	1	0	21.01	21.04	21.04	22	0
10	QPSK	1	25	21.21	21.27	21.22		
10	QPSK	1	49	21.09	21.12	21.20		
10	QPSK	25	0	21.10	21.16	21.18		
10	QPSK	25	12	21.30	21.33	21.28	22	0
10	QPSK	25	25	21.05	21.13	21.10		
10	16QAM	1	0	21.21	21.49	21.20		
10	16QAM	1	25	21.33	21.13	21.06	22	0
10	16QAM	1	49	21.11	21.15	21.21		
10	16QAM	25	0	20.82	21.10	20.73		
10	16QAM	25	12	20.77	20.92	20.88	22	0
10	16QAM	25	25	20.87	20.74	20.71		
10	16QAM	50	0	20.86	21.12	20.74		
10	16QAM	1	0	21.29	21.30	21.38		
10	16QAM	1	25	21.18	21.26	21.30	22	0
10	16QAM	1	49	21.12	21.18	21.21		
10	16QAM	25	0	21.27	21.47	21.29		
10	16QAM	25	12	21.21	21.38	21.07	22	0
10	16QAM	25	25	21.09	21.17	21.17		
10	16QAM	50	0	21.27	21.37	21.25		
10	25QAM	1	0	18.76	18.92	18.70		
10	25QAM	1	25	18.84	18.91	18.72	20.5	1.5
10	25QAM	1	49	18.82	18.73	18.68		
10	25QAM	25	0	18.83	18.91	18.88		
10	25QAM	25	12	18.96	18.93	18.94		
10	25QAM	25	25	18.77	18.94	18.87	20.5	1.5
10	25QAM	50	0	18.91	18.94	18.88		
Channel								
Frequency (MHz)								
5	QPSK	1	0	21.23	21.38	21.41	22	0
5	QPSK	1	19	21.18	21.04	21.41		
5	QPSK	1	24	21.18	21.22	21.24		
5	QPSK	12	0	21.23	21.31	21.36		
5	QPSK	12	7	21.19	21.17	21.20	22	0
5	QPSK	12	19	21.15	21.28	21.16		
5	QPSK	25	0	21.02	21.22	21.25		
5	16QAM	1	0	21.41	21.40	21.28		
5	16QAM	1	12	21.30	21.22	21.12	22	0
5	16QAM	1	24	21.01	21.21	21.16		
5	16QAM	12	0	20.94	21.14	20.87		
5	16QAM	12	7	20.74	20.81	20.92	22	0
5	16QAM	12	19	20.84	20.92	20.78		
5	16QAM	25	0	20.91	21.08	20.88		
5	16QAM	1	0	21.30	21.41	21.32	22	0
5	16QAM	1	12	21.04	21.36	21.28		
5	16QAM	1	24	21.01	21.11	20.99		
5	16QAM	12	0	21.21	21.46	21.07	22	0
5	16QAM	12	7	21.11	21.20	21.17		
5	16QAM	12	19	21.23	21.07	21.17		
5	16QAM	25	0	21.21	21.38	21.31		
5	25QAM	1	0	18.73	18.88	18.71		
5	25QAM	1	12	18.72	18.87	18.66	20.5	1.5
5	25QAM	1	24	18.84	18.73	18.70		
5	25QAM	12	0	18.82	18.81	18.84		
5	25QAM	12	7	18.85	18.88	18.90	20.5	1.5
5	25QAM	12	19	18.85	18.88	18.91		
5	25QAM	25	0	18.85	18.92	18.84		

Band 41 FCC&C DSI3_Standalone Ant 1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	20.78	20.78	20.78	22	0
20	QPSK	1	49	20.89	20.80	20.76	20.59	0
20	QPSK	50	0	20.84	20.82	20.85	20.86	0
20	QPSK	50	0	20.59	20.60	20.65	20.67	0
20	QPSK	50	24	20.52	20.64	20.62	20.64	0
20	QPSK	100	0	20.38	20.51	20.51	20.41	0
20	16QAM	1	0	20.59	20.55	20.58	20.60	0
20	16QAM	1	49	20.58	20.60	20.53	20.45	0
20	16QAM	1	99	20.37	20.42	20.50	20.37	0
20	16QAM	50	0	20.69	20.61	20.61	20.76	0
20	16QAM	50	24	20.63	20.60	20.67	20.75	0
20	16QAM	50	50	20.67	20.60	20.67	20.61	0
20	16QAM	100	0	20.67	20.69	20.73	20.64	0
20	16QAM	1	49	20.57	20.52	20.63	20.75	0
20	16QAM	1	99	20.63	20.60	20.54	20.77	0
20	16QAM	50	0	20.59	20.58	20.64	20.53	0
20	16QAM	50	24	20.66	20.78	20.66	20.61	0
20	16QAM	50	50	20.70	20.68	20.62	20.74	0
20	16QAM	100	0	20.68	20.67	20.60	20.65	0
20	25QAM	1	0	18.82	18.60	18.90	18.70	18.85
20	25QAM	1	49	18.84	18.67	18.90	18.75	18.79
20	25QAM	1	99	18.63	18.63	18.73	18.71	18.58
20	25QAM	50	0	18.87	18.87	18.87	18.87	18.84
20	25QAM	50	24	18.81	18.79	18.84	18.82	18.82
20	25QAM	50	50	18.71	18.73	18.81	18.83	18.79
20	25QAM	100	0	18.87	18.88	18.81	18.83	18.83
Channel								
Frequency (MHz)								
16	QPSK	1	0	20.62	20.62	20.62	20.62	0
16	QPSK	1	37	20.44	20.43	20.51	20.46	20.38
16	QPSK	1	74	20.48				



Band 41 HPUUE FCC&IC DS13_ Standalone Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up Int (dBm)	MPR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	22.61	22.68	22.70	22.83	22.87	22.97	23.6	0
20	QPSK	1	49	22.60	22.53	22.68	22.57	22.45	22.45		
20	QPSK	50	0	22.56	22.55	22.55	22.52	22.51	22.51		
20	QPSK	50	24	22.48	22.46	22.60	22.44	22.37	22.37	23.6	0
20	QPSK	100	0	22.52	22.51	22.51	22.48	22.47	22.47		
20	QPSK	100	0	22.49	22.53	22.58	22.54	22.48	22.48		
20	16QAM	1	0	22.46	22.41	22.52	22.46	22.31	22.31	23.6	0
20	16QAM	1	49	22.50	22.42	22.54	22.38	22.30	22.30		
20	16QAM	1	99	22.52	22.41	22.52	22.38	22.33	22.33		
20	16QAM	50	0	22.34	22.48	22.53	22.40	22.40	22.40	23.6	0
20	16QAM	50	24	22.29	22.41	22.44	22.40	22.39	22.39		
20	16QAM	50	50	22.36	22.42	22.54	22.41	22.46	22.46		
20	64QAM	100	0	22.46	22.44	22.44	22.39	22.41	22.41	23.6	0
20	64QAM	100	0	22.43	22.51	22.42	22.38	22.29	22.29		
20	64QAM	1	49	22.28	22.36	22.44	22.23	22.29	22.29	23.6	0
20	64QAM	1	99	22.43	22.36	22.33	22.30	22.31	22.31		
20	64QAM	50	0	22.25	22.27	22.44	22.33	22.43	22.43		
20	64QAM	50	24	22.17	22.21	22.36	22.14	22.34	22.34	23.6	0
20	64QAM	50	50	22.34	22.14	22.36	22.20	22.41	22.41		
20	64QAM	100	0	22.04	22.19	22.37	22.27	22.21	22.21		
20	256QAM	1	0	21.51	21.49	21.68	21.44	21.68	21.68	23	0.6
20	256QAM	1	49	21.59	21.41	21.61	21.42	21.46	21.46		
20	256QAM	1	99	21.30	21.36	21.55	21.41	21.51	21.51		
20	256QAM	50	0	21.27	21.39	21.51	21.34	21.42	21.42		
20	256QAM	50	24	21.27	21.23	21.46	21.24	21.39	21.39	23	0.6
20	256QAM	50	50	21.23	21.26	21.41	21.26	21.35	21.35		
20	256QAM	100	0	21.15	21.22	21.34	21.15	21.24	21.24		
Channel											
Frequency (MHz)											
15	QPSK	1	0	22.53	22.53	22.59	22.50	22.51	22.51	23.6	0
15	QPSK	1	37	22.55	22.39	22.65	22.51	22.32	22.32		
15	QPSK	1	74	22.48	22.47	22.51	22.41	22.32	22.32		
15	QPSK	36	0	22.43	22.43	22.50	22.41	22.47	22.47	23.6	0
15	QPSK	36	20	22.40	22.40	22.51	22.33	22.25	22.25		
15	QPSK	75	0	22.45	22.48	22.50	22.48	22.36	22.36	23.6	0
15	16QAM	1	0	22.39	22.33	22.57	22.40	22.19	22.19	23.6	0
15	16QAM	1	37	22.42	22.30	22.47	22.30	22.20	22.20		
15	16QAM	1	74	22.42	22.37	22.44	22.34	22.30	22.30		
15	16QAM	36	0	22.42	22.41	22.29	22.28	22.29	22.29	23.6	0
15	16QAM	36	20	22.38	22.44	22.28	22.28	22.28	22.28		
15	16QAM	36	50	22.26	22.25	22.19	22.29	22.22	22.22		
15	16QAM	75	0	22.23	22.54	22.60	22.51	22.28	22.28	23.6	0
15	64QAM	100	0	22.18	22.15	22.40	22.38	22.29	22.29		
15	64QAM	1	37	22.35	22.21	22.40	22.28	22.21	22.21	23.6	0
15	64QAM	1	74	22.49	22.28	22.38	22.20	22.19	22.19		
15	64QAM	36	0	22.10	22.09	22.28	22.20	22.11	22.11	23.6	0
15	64QAM	36	20	22.04	22.28	22.35	22.12	22.16	22.16		
15	64QAM	36	50	22.18	22.18	22.18	22.18	22.18	22.18		
15	64QAM	75	0	22.00	22.05	22.19	22.07	22.02	22.02		
15	256QAM	1	0	21.44	21.44	21.54	21.33	21.45	21.45	23	0.6
15	256QAM	1	37	21.26	21.26	21.36	21.26	21.26	21.26		
15	256QAM	1	74	21.25	21.29	21.52	21.31	21.41	21.41		
15	256QAM	36	0	21.28	21.27	21.39	21.26	21.30	21.30	23	0.6
15	256QAM	36	20	21.22	21.14	21.34	21.15	21.27	21.27		
15	256QAM	36	50	21.14	21.22	21.37	21.12	21.30	21.30		
15	256QAM	75	0	21.08	21.10	21.21	21.00	21.10	21.10		
Channel											
Frequency (MHz)											
10	QPSK	1	0	22.61	22.61	22.63	22.70	22.70	22.70	23.6	0
10	QPSK	1	25	22.53	22.42	22.59	22.51	22.37	22.37		
10	QPSK	1	49	22.50	22.47	22.48	22.35	22.35	22.35		
10	QPSK	25	0	22.50	22.49	22.49	22.46	22.46	22.46	23.6	0
10	QPSK	25	12	22.32	22.42	22.51	22.41	22.28	22.28		
10	QPSK	25	25	22.43	22.38	22.43	22.25	22.25	22.25		
10	16QAM	1	0	22.34	22.31	22.63	22.32	22.27	22.27	23.6	0
10	16QAM	1	25	22.38	22.38	22.50	22.29	22.26	22.26		
10	16QAM	1	49	22.49	22.37	22.48	22.28	22.29	22.29		
10	16QAM	25	0	22.20	22.27	22.56	22.43	22.32	22.32	23.6	0
10	16QAM	25	12	22.21	22.46	22.42	22.11	22.27	22.27		
10	16QAM	25	25	22.28	22.48	22.40	22.40	22.33	22.33		
10	64QAM	100	0	22.32	22.21	22.46	22.34	22.01	22.01	23.6	0
10	64QAM	1	25	22.43	22.30	22.50	22.18	22.21	22.21		
10	64QAM	1	49	22.34	22.11	22.28	22.25	22.17	22.17		
10	64QAM	25	0	22.12	22.23	22.41	22.26	22.28	22.28	23.6	0
10	64QAM	25	12	22.20	22.16	22.36	22.09	22.32	22.32		
10	64QAM	25	25	22.18	22.03	22.30	22.17	22.36	22.36		
10	64QAM	50	0	22.05	22.09	22.23	22.23	22.23	22.23		
10	256QAM	1	0	21.45	21.46	21.56	21.35	21.48	21.48	23	0.6
10	256QAM	1	25	21.29	21.34	21.51	21.37	21.48	21.48		
10	256QAM	1	49	21.26	21.25	21.47	21.23	21.45	21.45		
10	256QAM	25	0	21.33	21.29	21.44	21.25	21.41	21.41	23	0.6
10	256QAM	25	12	21.12	21.11	21.35	21.18	21.39	21.39		
10	256QAM	25	25	21.11	21.14	21.27	21.11	21.29	21.29		
10	256QAM	50	0	21.04	21.04	21.24	21.09	21.18	21.18		
Channel											
Frequency (MHz)											
5	QPSK	1	0	22.66	22.66	22.67	22.73	22.73	22.73	23.6	0
5	QPSK	1	12	22.52	22.44	22.64	22.53	22.36	22.36		
5	QPSK	1	24	22.52	22.45	22.48	22.45	22.39	22.39		
5	QPSK	12	0	22.47	22.43	22.50	22.44	22.47	22.47	23.6	0
5	QPSK	12	7	22.36	22.37	22.54	22.40	22.47	22.47		
5	QPSK	12	18	22.48	22.42	22.38	22.32	22.32	22.32		
5	QPSK	25	0	22.41	22.41	22.56	22.44	22.42	22.42	23.6	0
5	16QAM	1	0	22.35	22.27	22.57	22.37	22.25	22.25		
5	16QAM	1	12	22.48	22.32	22.43	22.32	22.28	22.28	23.6	0
5	16QAM	1	24	22.44	22.30	22.38	22.23	22.34	22.34		
5	16QAM	12	0	22.25	22.26	22.30	22.27	22.37	22.37		
5	16QAM	12	7	22.20	22.39	22.30	22.17	22.19	22.19	23.6	0
5	16QAM	12	18	22.33	22.31	22.31	22.26	22.33	22.33		
5	16QAM	25	0	22.25	22.45	22.62	22.30	22.27	22.27		
5	64QAM	1	0	22.43	22.32	22.58	22.32	22.22	22.22	23.6	0
5	64QAM	1	12	22.29	22.31	22.40	22.24	22.13	22.13		
5	64QAM	1	24	22.31	22.20	22.22	22.26	22.29	22.29		
5	64QAM	12	0	22.05	22.25	22.27	22.16	22.10	22.10	23.6	0
5	64QAM	12	7	22.10	22.17	22.36	22.10	22.20	22.20		
5	64QAM	12	18	22.13	22.05	22.32	22.23	22.38	22.38		
5	64QAM	25	0	22.03	22.07	22.20	22.10	22.23	22.23		
5	256QAM	1	0</								



CDM1000 Airc									
Channel	Band Average Power (dBm)			Tune-up	Frame Average Power (dBm)			Tune-up	
Tx Channel	812	861	810	Limit	812	861	810	Limit	
Receiving (dBm)	180.2	180.3	180.8	(dBm)	180.2	180.0	180.8	(dBm)	
OMA 1 Tx Watt	28.25	28.33	28.19	29.00	19.25	19.33	19.19	20.00	
OPNS 1 Tx Watt	28.23	28.20	28.13	29.00	19.23	19.20	19.13	20.00	
OPNS 2 Tx Watt	25.46	25.52	25.40	26.00	17.46	17.52	17.40	20.00	
OPNS 3 Tx Watt	23.98	24.13	24.00	25.00	15.72	15.87	15.74	20.74	
OPNS 4 Tx Watt	21.92	22.00	21.98	23.00	13.92	13.99	13.98	20.00	
EDGE 1 Tx Watt	23.59	23.64	23.61	24.50	14.59	14.64	14.61	15.50	
EDGE 2 Tx Watt	21.56	21.60	21.62	22.50	13.56	13.60	13.62	17.50	
EDGE 3 Tx Watt	20.78	20.85	20.70	21.50	12.62	12.69	12.44	17.34	
EDGE 4 Tx Watt	18.71	18.74	18.68	19.50	10.71	10.74	10.68	16.50	

WCDMA I Airc									
Band	WCDMA II			Tune-up	WCDMA IV			Tune-up	
Tx Channel	9882	9890	9898	Limit	1512	1513	1513	Limit	
Receiving (dBm)	89.4	89.8	89.8	(dBm)	132.4	132.9	132.4	(dBm)	
SOPF Rate 50	21.00	21.50	21.46	22.00	21.42	21.44	21.37	23.00	
SOPF Rate 50	21.54	21.52	21.49	22.00	21.47	21.53	21.44	23.00	
SOPF Rate 5	20.93	20.74	20.49	21.00	20.97	20.88	20.92	22.00	
SOPF Rate 5	20.58	20.60	20.53	21.00	20.47	20.61	20.43	22.00	
SOPF Rate 5	20.11	20.27	20.34	21.00	19.91	20.24	19.89	21.00	
SOPF Rate 5	20.02	20.18	20.09	21.00	19.98	20.06	20.02	21.00	
SOPF Rate 5	20.55	20.73	20.51	21.00	20.40	20.50	20.39	22.00	
SOPF Rate 5	20.34	20.41	20.40	21.00	20.25	20.37	20.31	22.00	
SOPF Rate 5	19.88	19.98	19.84	21.00	19.80	19.87	19.83	21.50	
SOPF Rate 5	19.93	19.90	19.92	21.00	19.78	19.90	19.84	21.00	
SOPF Rate 5	20.59	20.72	20.71	21.00	20.49	20.65	20.60	22.00	
SOPF Rate 5	19.52	19.60	19.45	19.50	19.46	19.49	19.29	20.00	
SOPF Rate 5	19.58	19.62	19.60	20.00	19.49	19.51	19.48	21.00	
SOPF Rate 5	18.43	18.27	18.41	19.00	18.38	18.44	18.33	20.00	
SOPF Rate 5	20.90	20.82	20.96	21.00	20.48	20.53	20.49	22.00	



Band 2 Default Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (dB)	MPR (dB)	
Channel				Ch. 1 / Freq.	Ch. 2 / Freq.	Ch. 3 / Freq.			
20	QPSK	1	0	21.12	21.24	21.07			
20	QPSK	1	49	20.92	21.04	20.96	22	0	
20	QPSK	1	99	20.72	20.84	20.76			
20	QPSK	50	0	21.08	21.20	21.10			
20	QPSK	50	24	20.88	21.00	20.92	22	0	
20	QPSK	50	50	20.68	20.80	20.72			
20	QPSK	100	0	21.04	21.16	21.08			
20	QPSK	100	24	20.84	20.96	20.88	22	0	
20	QPSK	100	50	20.64	20.76	20.68			
20	QPSK	150	0	21.00	21.12	21.04			
20	QPSK	150	24	20.80	20.92	20.82	22	0	
20	QPSK	150	50	20.60	20.72	20.62			
20	QPSK	200	0	20.96	21.08	20.98			
20	QPSK	200	24	20.76	20.88	20.78	22	0	
20	QPSK	200	50	20.56	20.68	20.58			
20	QPSK	300	0	20.92	21.04	20.94			
20	QPSK	300	24	20.72	20.84	20.74	22	0	
20	QPSK	300	50	20.52	20.64	20.54			
20	QPSK	400	0	20.88	21.00	20.90			
20	QPSK	400	24	20.68	20.80	20.70	22	0	
20	QPSK	400	50	20.48	20.60	20.50			
20	QPSK	500	0	20.84	20.96	20.86			
20	QPSK	500	24	20.64	20.76	20.66	22	0	
20	QPSK	500	50	20.44	20.56	20.46			
20	QPSK	600	0	20.80	20.92	20.82			
20	QPSK	600	24	20.60	20.72	20.62	22	0	
20	QPSK	600	50	20.40	20.52	20.42			
20	QPSK	800	0	20.76	20.88	20.78			
20	QPSK	800	24	20.56	20.68	20.58	22	0	
20	QPSK	800	50	20.36	20.48	20.38			
20	QPSK	1000	0	20.72	20.84	20.74			
20	QPSK	1000	24	20.52	20.64	20.54	22	0	
20	QPSK	1000	50	20.32	20.44	20.34			
20	QPSK	1200	0	20.68	20.80	20.70			
20	QPSK	1200	24	20.48	20.60	20.50	22	0	
20	QPSK	1200	50	20.28	20.40	20.30			
20	QPSK	1500	0	20.64	20.76	20.66			
20	QPSK	1500	24	20.44	20.56	20.46	22	0	
20	QPSK	1500	50	20.24	20.36	20.26			
20	QPSK	2000	0	20.60	20.72	20.62			
20	QPSK	2000	24	20.40	20.52	20.42	22	0	
20	QPSK	2000	50	20.20	20.32	20.22			
20	QPSK	2500	0	20.56	20.68	20.58			
20	QPSK	2500	24	20.36	20.48	20.38	22	0	
20	QPSK	2500	50	20.16	20.28	20.18			
20	QPSK	3000	0	20.52	20.64	20.54			
20	QPSK	3000	24	20.32	20.44	20.34	22	0	
20	QPSK	3000	50	20.12	20.24	20.14			
20	QPSK	4000	0	20.48	20.60	20.50			
20	QPSK	4000	24	20.28	20.40	20.30	22	0	
20	QPSK	4000	50	20.08	20.20	20.10			
20	QPSK	5000	0	20.44	20.56	20.46			
20	QPSK	5000	24	20.24	20.36	20.26	22	0	
20	QPSK	5000	50	20.04	20.16	20.06			
20	QPSK	6000	0	20.40	20.52	20.42			
20	QPSK	6000	24	20.20	20.32	20.22	22	0	
20	QPSK	6000	50	20.00	20.12	20.02			
20	QPSK	8000	0	20.36	20.48	20.38			
20	QPSK	8000	24	20.16	20.28	20.18	22	0	
20	QPSK	8000	50	19.96	20.08	19.98			
20	QPSK	10000	0	20.32	20.44	20.34			
20	QPSK	10000	24	20.12	20.24	20.14	22	0	
20	QPSK	10000	50	19.92	20.04	19.94			
20	QPSK	12000	0	20.28	20.40	20.30			
20	QPSK	12000	24	20.08	20.20	20.10	22	0	
20	QPSK	12000	50	19.88	20.00	19.90			
20	QPSK	15000	0	20.24	20.36	20.26			
20	QPSK	15000	24	20.04	20.16	20.06	22	0	
20	QPSK	15000	50	19.84	19.96	19.86			
20	QPSK	20000	0	20.20	20.32	20.22			
20	QPSK	20000	24	20.00	20.12	20.02	22	0	
20	QPSK	20000	50	19.80	19.92	19.82			
20	QPSK	25000	0	20.16	20.28	20.18			
20	QPSK	25000	24	19.96	20.08	19.98	22	0	
20	QPSK	25000	50	19.76	19.88	19.78			
20	QPSK	30000	0	20.12	20.24	20.14			
20	QPSK	30000	24	19.92	20.04	19.94	22	0	
20	QPSK	30000	50	19.72	19.84	19.74			
20	QPSK	40000	0	20.08	20.20	20.10			
20	QPSK	40000	24	19.88	20.00	19.90	22	0	
20	QPSK	40000	50	19.68	19.80	19.70			
20	QPSK	50000	0	20.04	20.16	20.06			
20	QPSK	50000	24	19.84	19.96	19.86	22	0	
20	QPSK	50000	50	19.64	19.76	19.66			
20	QPSK	60000	0	20.00	20.12	20.02			
20	QPSK	60000	24	19.80	19.92	19.82	22	0	
20	QPSK	60000	50	19.60	19.72	19.62			
20	QPSK	80000	0	19.96	20.08	19.98			
20	QPSK	80000	24	19.76	19.88	19.78	22	0	
20	QPSK	80000	50	19.56	19.68	19.58			
20	QPSK	100000	0	19.92	20.04	19.94			
20	QPSK	100000	24	19.72	19.84	19.74	22	0	
20	QPSK	100000	50	19.52	19.64	19.54			
20	QPSK	120000	0	19.88	20.00	19.90			
20	QPSK	120000	24	19.68	19.80	19.70	22	0	
20	QPSK	120000	50	19.48	19.60	19.50			
20	QPSK	150000	0	19.84	19.96	19.86			
20	QPSK	150000	24	19.64	19.76	19.66	22	0	
20	QPSK	150000	50	19.44	19.56	19.46			
20	QPSK	200000	0	19.80	19.92	19.82			
20	QPSK	200000	24	19.60	19.72	19.62	22	0	
20	QPSK	200000	50	19.40	19.52	19.42			
20	QPSK	250000	0	19.76	19.88	19.78			
20	QPSK	250000	24	19.56	19.68	19.58	22	0	
20	QPSK	250000	50	19.36	19.48	19.38			
20	QPSK	300000	0	19.72	19.84	19.74			
20	QPSK	300000	24	19.52	19.64	19.54	22	0	
20	QPSK	300000	50	19.32	19.44	19.34			
20	QPSK	400000	0	19.68	19.80	19.70			
20	QPSK	400000	24	19.48	19.60	19.50	22	0	
20	QPSK	400000	50	19.28	19.40	19.30			
20	QPSK	500000	0	19.64	19.76	19.66			
20	QPSK	500000	24	19.44	19.56	19.46	22	0	
20	QPSK	500000	50	19.24	19.36	19.26			
20	QPSK	600000	0	19.60	19.72	19.62			
20	QPSK	600000	24	19.40	19.52	19.42	22	0	
20	QPSK	600000	50	19.20	19.32	19.22			
20	QPSK	800000	0	19.56	19.68	19.58			
20	QPSK	800000	24	19.36	19.48	19.38	22	0	
20	QPSK	800000	50	19.16	19.28	19.18			
20	QPSK	1000000	0	19.52	19.64	19.54			
20	QPSK	1000000	24	19.32	19.44	19.34	22	0	
20	QPSK	1000000	50	19.12	19.24	19.14			
20	QPSK	1200000	0	19.48	19.60	19.50			
20	QPSK	1200000	24	19.28	19.40	19.30	22	0	
20	QPSK	1200000	50	19.08	19.20	19.10			
20	QPSK	1500000	0	19.44	19.56	19.46			
20	QPSK	1500000	24	19.24	19.36	19.26	22	0	
20	QPSK	1500000	50	19.04	19.16	19.06			
20	QPSK	2000000	0	19.40	19.52	19.42			
20	QPSK	2000000	24	19.20	19.32	19.22	22	0	
20	QPSK	2000000	50	19.00	19.				



Band 12 Default Ant 2										
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)										
10	QPSK	1	0	22.51	22.62	22.50				
10	QPSK	1	25	22.40	22.42	22.50			24	0
10	QPSK	1	49	22.26	22.48	22.18				
10	QPSK	25	0	22.40	22.52	22.40				
10	QPSK	25	12	22.30	22.45	22.27			24	0
10	QPSK	25	25	22.29	22.32	22.24				
10	QPSK	50	0	22.34	22.41	22.37				
10	16QAM	1	0	22.41	22.41	22.53				
10	16QAM	1	25	22.39	22.52	22.38			24	0
10	16QAM	1	49	22.18	22.40	22.39				
10	16QAM	25	0	22.51	22.52	22.54				
10	16QAM	25	12	22.29	22.41	22.35			24	0
10	16QAM	25	25	22.27	22.36	22.36				
10	16QAM	50	0	22.40	22.51	22.38				
10	16QAM	50	0	22.40	22.44	22.34				
10	8QAM	1	25	22.39	22.41	22.52			24	0
10	8QAM	1	49	22.14	22.41	22.29				
10	8QAM	25	0	21.24	21.36	21.17				
10	8QAM	25	12	21.13	21.24	21.08			22.5	1.5
10	8QAM	25	25	21.03	21.16	21.04				
10	8QAM	50	0	21.25	21.30	21.19				
10	256QAM	1	25	19.52	19.60	19.46			21	3
10	256QAM	1	49	19.35	19.58	19.51				
10	256QAM	1	25	19.34	19.36	19.43				
10	256QAM	25	12	19.34	19.28	19.32			21	3
10	256QAM	25	25	19.12	19.28	19.19				
10	256QAM	50	0	19.26	19.27	19.20				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.43	22.48	22.39				
5	QPSK	1	24	22.30	22.43	22.29			24	0
5	QPSK	1	24	22.14	22.40	22.04				
5	QPSK	12	0	22.29	22.50	22.37				
5	QPSK	12	7	22.15	22.39	22.05			24	0
5	QPSK	12	13	22.24	22.28	22.17				
5	QPSK	25	0	22.22	22.47	22.12				
5	16QAM	1	0	22.35	22.48	22.38				
5	16QAM	1	12	22.25	22.45	22.27			24	0
5	16QAM	1	24	22.02	22.16	22.07				
5	16QAM	12	0	22.47	22.43	22.51				
5	16QAM	12	7	22.18	22.28	22.25			24	0
5	16QAM	12	13	22.15	22.26	22.14				
5	16QAM	25	0	22.37	22.43	22.23				
5	8QAM	1	0	22.25	22.39	22.28			24	0
5	8QAM	1	24	22.09	22.31	22.08				
5	8QAM	1	24	22.05	22.32	22.21				
5	8QAM	12	0	21.17	21.31	21.05				
5	8QAM	12	7	21.02	21.32	20.89			22.5	1.5
5	8QAM	12	13	21.02	21.02	20.89				
5	8QAM	25	0	21.13	21.16	21.16				
5	256QAM	1	12	19.20	19.48	19.48			21	3
5	256QAM	1	24	19.25	19.28	19.33				
5	256QAM	12	0	19.20	19.15	19.26			21	3
5	256QAM	12	13	19.02	19.20	19.12				
5	256QAM	25	0	19.20	19.22	19.10				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.41	22.54	22.18				
3	QPSK	1	14	22.11	22.43	22.08			24	0
3	QPSK	1	14	22.02	22.48	22.04				
3	QPSK	8	0	22.19	22.34	22.21				
3	QPSK	8	7	22.21	22.18	22.11			24	0
3	QPSK	16	0	22.32	22.37	22.27				
3	16QAM	1	0	22.26	22.39	22.48				
3	16QAM	1	8	22.31	22.38	22.32			24	0
3	16QAM	1	16	22.05	22.28	22.08				
3	16QAM	8	0	22.37	22.41	22.40				
3	16QAM	8	4	22.18	22.33	22.29			24	0
3	16QAM	8	7	22.13	22.29	22.18				
3	16QAM	15	0	22.36	22.39	22.25				
3	8QAM	1	0	22.27	22.31	22.21			24	0
3	8QAM	1	8	22.34	22.33	22.28				
3	8QAM	1	14	22.06	22.28	22.20				
3	8QAM	8	0	21.32	21.27	21.02			22.5	1.5
3	8QAM	8	4	21.04	21.12	20.95				
3	8QAM	8	7	20.98	21.00	20.89				
3	8QAM	15	0	21.19	21.24	21.12				
3	256QAM	1	0	19.20	19.45	19.41			21	3
3	256QAM	1	8	19.27	19.51	19.37				
3	256QAM	1	14	19.24	19.31	19.35				
3	256QAM	8	0	19.10	19.31	19.36			21	3
3	256QAM	8	4	19.24	19.15	19.17				
3	256QAM	8	7	19.09	19.23	19.09				
3	256QAM	15	0	19.20	19.28	19.12				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.41	22.54	22.18				
1.4	QPSK	1	3	22.35	22.28	22.27			24	0
1.4	QPSK	1	5	22.20	22.42	22.04				
1.4	QPSK	3	0	22.34	22.50	22.23				
1.4	QPSK	3	1	22.20	22.50	22.23				
1.4	QPSK	3	3	22.17	22.20	22.20			24	0
1.4	16QAM	1	0	22.33	22.34	22.32				
1.4	16QAM	1	3	22.32	22.40	22.40				
1.4	16QAM	1	5	22.28	22.47	22.25			24	0
1.4	16QAM	3	0	22.44	22.37	22.33				
1.4	16QAM	3	1	22.47	22.47	22.40				
1.4	16QAM	3	1	22.26	22.31	22.25				
1.4	16QAM	3	3	22.17	22.32	22.25			24	0
1.4	16QAM	6	0	22.26	22.43	22.38				
1.4	8QAM	1	0	22.35	22.37	22.29				
1.4	8QAM	1	3	22.25	22.29	22.28			24	0
1.4	8QAM	1	5	22.01	22.33	22.19				
1.4	8QAM	3	0	22.38	22.36	22.40				
1.4	8QAM	3	0	22.16	22.32	22.22			22.5	1.5
1.4	8QAM	3	3	22.15	22.29	22.21				
1.4	256QAM	1	0	21.19	21.20	21.11			22.5	1.5
1.4	256QAM	1	0	19.26	19.57	19.38				
1.4	256QAM	1	3	19.22	19.56	19.47				
1.4	256QAM	1	5	19.26	19.22	19.35			21	3
1.4	256QAM	1	0	19.10	19.34	19.30				
1.4	256QAM	3	1	19.21	19.18	19.19				
1.4	256QAM	3	0	19.08	19.20	19.14			21	3
1.4	256QAM	3	0	19.17	19.25	19.09				

Band 13 Default Ant 2										
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)										
10	QPSK	1	0	22.53	22.53	22.53			24	0
10	QPSK	1	25	22.41	22.41	22.41				
10	QPSK	1	49	22.43	22.43	22.43				
10	QPSK	25	0	22.45	22.45	22.45			24	0
10	QPSK	25	12	22.35	22.35	22.35				
10	QPSK	25	25	22.26	22.26	22.26				
10	QPSK	50	0	22.32	22.32	22.32				
10	16QAM	1	0	22.45	22.45	22.45				
10	16QAM	1	25	22.47	22.47	22.47			24	0
10	16QAM	1	49	22.40	22.40	22.40				
10	16QAM	25	0	22.54	22.54	22.54				
10	16QAM	25	12	22.35	22.35	22.35			24	0
10	16QAM	25	25	22.28	22.28	22.28				
10	16QAM	50	0	22.45	22.45	22.45				
10	8QAM	1	0	22.42	22.42	22.42			24	0
10	8QAM	1	25	22.42	22.42	22.42				
10	8QAM	1	49	22.41	22.41	22.41				
10	8QAM	25	0	21.30	21.30	21				



Band 25 Default Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (dB)	MPR (dB)		
Channel	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Turn-up (dB)	MPR (dB)		
20	QPSK	1	0	23.18	23.22	23.31				
20	QPSK	1	49	23.00	23.13	23.03			24	0
20	QPSK	1	99	23.18	23.29	23.19				
20	QPSK	50	0	23.13	23.24	23.14				
20	QPSK	50	50	23.01	23.08	23.05			24	0
20	QPSK	100	0	23.11	23.22	23.15				
20	QPSK	100	50	23.13	23.23	23.14				
20	16QAM	1	49	23.05	23.14	23.07			24	0
20	16QAM	1	99	23.09	23.09	23.07				
20	16QAM	50	0	23.05	23.09	23.04				
20	16QAM	50	24	23.04	22.89	22.80			24	0
20	16QAM	50	50	23.07	22.84	22.80				
20	16QAM	100	0	23.04	23.05	23.01				
20	16QAM	100	24	23.06	22.95	22.86				
20	16QAM	100	50	23.06	22.95	22.86				
20	16QAM	100	75	23.06	22.95	22.86				
20	16QAM	100	99	23.06	22.95	22.86				
20	256QAM	1	49	19.98	19.98	19.97			21	3
20	256QAM	1	99	19.98	19.98	19.97				
20	256QAM	50	0	19.98	19.98	19.97				
20	256QAM	50	24	19.98	19.98	19.97				
20	256QAM	50	50	19.98	19.98	19.97				
20	256QAM	100	0	19.98	19.98	19.97				
20	256QAM	100	24	19.98	19.98	19.97				
20	256QAM	100	50	19.98	19.98	19.97				
20	256QAM	100	75	19.98	19.98	19.97				
20	256QAM	100	99	19.98	19.98	19.97				
Channel	Frequency (MHz)	1817	1830	1843	1857	1871	Turn-up (dB)	MPR (dB)		
10	QPSK	1	0	23.07	23.26	23.17				
10	QPSK	1	24	23.01	23.09	23.04			24	0
10	QPSK	1	74	23.01	23.09	23.04				
10	QPSK	36	0	23.02	23.16	23.14				
10	QPSK	36	24	23.07	23.07	23.07				
10	QPSK	36	39	23.06	23.01	23.01			24	0
10	QPSK	75	0	23.06	23.14	23.06				
10	QPSK	75	24	23.06	23.13	23.03				
10	16QAM	1	37	22.98	23.24	22.94			24	0
10	16QAM	1	74	22.98	23.24	22.94				
10	16QAM	36	0	22.79	22.79	22.83				
10	16QAM	36	24	22.79	22.95	22.90			24	0
10	16QAM	75	0	22.90	23.13	22.90				
10	16QAM	75	24	22.87	23.04	22.91				
10	16QAM	75	39	22.87	23.04	22.91				
10	16QAM	75	49	22.76	22.97	22.78				
10	16QAM	36	0	21.89	22.07	22.02				
10	16QAM	36	24	21.89	22.07	22.02				
10	16QAM	36	39	21.70	21.73	21.71				
10	16QAM	75	0	22.02	22.01	21.98				
10	16QAM	75	24	22.02	22.01	21.98				
10	16QAM	75	39	21.70	21.73	21.71				
10	16QAM	75	49	22.76	22.97	22.78				
10	256QAM	1	37	19.91	19.91	19.98			21	3
10	256QAM	1	74	19.77	19.78	19.91				
10	256QAM	36	0	19.91	19.91	19.98				
10	256QAM	36	24	19.91	19.92	19.92				
10	256QAM	36	39	19.72	19.90	19.75				
10	256QAM	75	0	19.93	19.93	19.92				
Channel	Frequency (MHz)	1855	1868	1880	1910	1940	Turn-up (dB)	MPR (dB)		
10	QPSK	1	0	22.97	23.15	23.09				
10	QPSK	1	24	22.87	23.15	23.09			24	0
10	QPSK	1	49	22.90	23.00	23.00				
10	QPSK	12	0	23.03	23.00	23.07				
10	QPSK	25	24	23.03	23.06	23.07				
10	QPSK	25	25	23.04	23.06	23.02				
10	16QAM	1	0	23.06	23.14	23.07				
10	16QAM	1	24	23.01	23.10	23.02			24	0
10	16QAM	1	49	23.05	23.08	23.07				
10	16QAM	12	0	22.78	22.90	22.87				
10	16QAM	25	0	22.81	22.85	22.84				
10	16QAM	25	12	22.81	22.85	22.84				
10	16QAM	36	0	22.81	23.02	23.02				
10	16QAM	36	24	22.81	23.02	23.02				
10	16QAM	36	39	22.81	23.02	23.02				
10	16QAM	75	0	22.81	23.02	23.02				
10	16QAM	75	24	22.81	23.02	23.02				
10	16QAM	75	39	22.81	23.02	23.02				
10	16QAM	75	49	22.81	23.02	23.02				
10	16QAM	100	0	21.97	21.98	21.94				
10	16QAM	100	24	21.97	21.98	21.94				
10	16QAM	100	39	21.77	21.83	21.77				
10	16QAM	100	49	21.97	21.98	21.94				
10	16QAM	100	74	21.97	21.98	21.94				
10	16QAM	100	99	21.97	21.98	21.94				
10	256QAM	1	24	19.92	19.92	19.91			21	3
10	256QAM	1	49	19.82	19.82	19.88				
10	256QAM	12	0	19.88	19.88	19.88				
10	256QAM	25	12	19.88	19.88	19.88				
10	256QAM	25	25	19.77	19.80	19.78				
10	256QAM	100	0	19.83	19.80	19.87				
Channel	Frequency (MHz)	1865	1880	1895	1925	1955	Turn-up (dB)	MPR (dB)		
3	QPSK	1	0	22.11	23.11	23.11				
3	QPSK	1	8	22.00	23.01	23.09			23	0
3	QPSK	1	14	21.94	22.06	21.91				
3	QPSK	12	0	22.04	23.03	23.05				
3	QPSK	12	7	21.88	21.90	21.90				
3	QPSK	12	13	21.82	21.90	21.83			23	0
3	QPSK	25	25	21.95	21.92	21.92				
3	16QAM	1	0	21.96	22.04	21.99				
3	16QAM	1	12	21.98	22.14	22.14			23	0
3	16QAM	12	0	21.98	22.07	22.07				
3	16QAM	12	7	21.98	21.98	21.97				
3	16QAM	12	13	21.98	21.98	21.97				
3	16QAM	25	0	22.03	22.05	22.00				
3	16QAM	25	12	21.88	21.95	22.01				
3	16QAM	25	25	21.84	22.03	21.81				
3	16QAM	1	24	22.00	22.03	22.02				
3	16QAM	12	0	20.94	20.91	20.82				
3	16QAM	12	7	20.94	20.91	20.82				
3	16QAM	12	13	20.53	20.73	20.71				
3	16QAM	25	0	20.90	20.78	20.77			22	1
3	16QAM	25	12	20.90	20.78	20.77				
3	256QAM	1	12	19.31	19.31	19.18			20	3
3	256QAM	1	24	19.37	19.07	19.01				
3	256QAM	12	0	19.03	19.03	19.03				
3	256QAM	12	7	18.78	18.87	18.88				
3	256QAM	12	13	18.78	18.83	18.83				
3	256QAM	25	25	18.78	18.81	18.87				
3	256QAM	0	0	18.78	18.81	18.87				
Channel	Frequency (MHz)	1875	1885	1915	1945	1975	Turn-up (dB)	MPR (dB)		
3	QPSK	1	0	22.17	23.17	23.11				
3	QPSK	1	8	22.00	23.01	23.09			23	0
3	QPSK	1	14	21.94	22.06	21.91				
3	QPSK	12	0	22.04	23.03	23.05				
3	QPSK	12	7	21.78	21.90	21.87				
3	QPSK	12	13	21.82	21.90	21.83			23	0
3	QPSK	25	25	21.95	21.92	21.92				
3	16QAM	1	0	21.96	22.04	21.99				
3	16QAM	1	12	21.98	22.14	22.14			23	0
3										



Band 38 DSI3_Standalone Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				38750	38900	38150		
Frequency (MHz)				21725	21900	21225		
20	QPSK	1	0	17.00	17.20	16.50		
20	QPSK	1	49	17.09	17.20	17.01	18.2	0
20	QPSK	50	0	16.98	16.84	16.79		
20	QPSK	50	0	17.03	17.05	16.92		
20	QPSK	50	24	16.69	16.82	16.82	18.2	0
20	QPSK	100	0	16.78	16.87	16.84		
20	16QAM	1	0	16.80	16.99	16.85		
20	16QAM	1	49	16.95	16.76	16.72	18.2	0
20	16QAM	1	99	16.81	16.87	16.91		
20	16QAM	50	0	16.90	16.87	16.94		
20	16QAM	50	24	16.84	17.03	16.90		
20	16QAM	50	50	16.96	16.75	16.98	18.2	0
20	16QAM	100	0	16.55	16.69	16.66		
20	16QAM	100	0	16.51	16.75	16.53		
20	16QAM	1	49	16.78	16.80	16.96	18.2	0
20	16QAM	1	99	16.95	17.01	16.96		
20	16QAM	50	0	16.87	16.84	16.52		
20	16QAM	50	24	16.43	16.84	16.80		
20	16QAM	50	50	16.54	16.74	16.81	18.2	0
20	16QAM	100	0	16.80	16.83	16.85		
20	256QAM	1	0	16.88	16.79	16.96		
20	256QAM	1	49	16.99	16.72	16.74	18.2	0
20	256QAM	1	99	16.47	16.52	16.72		
20	256QAM	50	0	16.76	16.84	16.75		
20	256QAM	50	24	16.56	16.51	16.72		
20	256QAM	50	50	16.52	16.55	16.47	18.2	0
20	256QAM	100	0	16.85	16.94	16.84		
Channel				31625	31600	31175		
Frequency (MHz)				21725	21900	21225		
15	QPSK	1	0	16.20	16.20	16.20		
15	QPSK	1	37	16.96	17.19	16.92	18.2	0
15	QPSK	1	74	16.74	16.87	16.72		
15	QPSK	1	0	16.74	16.77	16.74		
15	QPSK	36	20	16.82	16.58	16.68	18.2	0
15	QPSK	36	39	16.71	16.82	16.81		
15	QPSK	75	0	16.68	16.75	16.74		
15	16QAM	1	0	16.70	16.90	16.51		
15	16QAM	1	37	16.41	16.53	16.61	18.2	0
15	16QAM	1	74	16.81	16.83	16.75		
15	16QAM	36	0	16.80	16.69	16.80		
15	16QAM	36	20	16.78	16.87	16.82	18.2	0
15	16QAM	36	39	16.87	16.68	16.92		
15	16QAM	75	0	16.50	16.80	16.81		
15	16QAM	75	0	16.49	16.71	16.80		
15	16QAM	1	37	16.71	16.82	16.74	18.2	0
15	16QAM	1	74	16.75	16.69	16.82		
15	16QAM	36	0	16.59	16.74	16.51		
15	16QAM	36	20	16.32	16.59	16.59	18.2	0
15	16QAM	36	39	16.47	16.53	16.51		
15	16QAM	75	0	16.63	16.52	16.51		
15	256QAM	1	0	16.54	16.56	16.49		
15	256QAM	1	37	16.65	16.70	16.84	18.2	0
15	256QAM	1	74	16.25	16.48	16.54		
15	256QAM	36	0	16.53	16.62	16.54		
15	256QAM	36	20	16.52	16.28	16.44	18.2	0
15	256QAM	36	39	16.44	16.53	16.41		
15	256QAM	75	0	16.84	16.91	16.86		
Channel				30100	30100	30100		
Frequency (MHz)				25725	25900	25125		
10	QPSK	1	0	16.79	17.03	16.67		
10	QPSK	1	25	16.98	17.08	16.94	18.2	0
10	QPSK	1	49	16.67	16.83	16.89		
10	QPSK	1	0	16.92	16.85	16.88		
10	QPSK	25	12	16.67	16.80	16.90	18.2	0
10	QPSK	25	25	16.47	16.75	16.67		
10	16QAM	1	0	16.68	16.88	16.84		
10	16QAM	1	0	16.66	16.87	16.43		
10	16QAM	1	25	16.84	16.69	16.89	18.2	0
10	16QAM	1	49	16.96	16.69	16.98		
10	16QAM	25	0	16.76	16.82	16.80		
10	16QAM	25	12	16.59	16.83	16.80	18.2	0
10	16QAM	25	25	16.50	16.85	16.54		
10	16QAM	1	0	16.29	16.83	16.80		
10	16QAM	1	0	16.53	16.85	16.54		
10	16QAM	1	0	16.59	16.83	16.80		
10	16QAM	1	25	16.65	16.77	16.82	18.2	0
10	16QAM	1	49	16.84	16.87	16.82		
10	16QAM	25	0	16.66	16.76	16.82		
10	16QAM	25	12	16.21	16.49	16.57	18.2	0
10	16QAM	25	25	16.45	16.84	16.46		
10	16QAM	50	0	16.69	16.42	16.57		
10	256QAM	1	0	16.80	16.81	16.49		
10	256QAM	1	25	16.41	16.81	16.59	18.2	0
10	256QAM	1	49	16.36	16.41	16.52		
10	256QAM	25	0	16.50	16.81	16.58		
10	256QAM	25	12	16.37	16.48	16.44	18.2	0
10	256QAM	25	25	16.34	16.40	16.40		
10	256QAM	50	0	16.84	16.77	16.59		
Channel				25725	25900	25125		
Frequency (MHz)				25725	25900	25125		
5	QPSK	1	0	16.87	17.04	16.67		
5	QPSK	1	19	16.90	17.15	16.96	18.2	0
5	QPSK	1	24	16.50	16.81	16.59		
5	QPSK	12	0	16.86	16.94	16.73		
5	QPSK	12	7	16.83	16.85	16.77	18.2	0
5	QPSK	12	19	16.59	16.76	16.73		
5	QPSK	25	0	16.67	16.69	16.66		
5	QPSK	25	0	16.80	16.87	16.50		
5	16QAM	1	12	16.64	16.84	16.52	18.2	0
5	16QAM	1	24	16.70	16.65	16.86		
5	16QAM	12	0	16.81	16.86	16.74		
5	16QAM	12	7	16.81	17.04	16.79	18.2	0
5	16QAM	12	13	16.65	16.74	16.81		
5	16QAM	25	0	16.35	16.98	16.46		
5	16QAM	1	0	16.46	16.73	16.83		
5	16QAM	1	12	16.69	16.83	16.79	18.2	0
5	16QAM	1	24	16.92	16.86	16.73		
5	16QAM	12	0	16.51	16.79	16.43		
5	16QAM	12	7	16.23	16.47	16.74	18.2	0
5	16QAM	25	0	16.56	16.45	16.51		
5	16QAM	1	0	16.44	16.82	16.40		
5	256QAM	1	12	16.38	16.66	16.65	18.2	0
5	256QAM	1	24	16.31	16.34	16.70		
5	256QAM	12	0	16.59	16.82	16.68		
5	256QAM	12	7	16.41	16.33	16.52	18.2	0
5	256QAM	12	13	16.39	16.44	16.32		
5	256QAM	25	0	16.79	16.82	16.54		

Band 41 FCC&C DSI3_Standalone Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				39750	40185	40600	41055	41460			
Frequency (MHz)				22075	22415	22930	23170	23625			
20	QPSK	1	0	16.99	16.90	17.02	16.84	16.94			
20	QPSK	1	49	16.97	17.16	17.19	17.07	16.88	18.2	0	
20	QPSK	1	99	16.98	16.80	16.99	17.00	16.85			
20	QPSK	50	0	17.00	17.13	17.21	17.10	16.92			
20	QPSK	50	24	16.90	16.84	16.85	17.02	16.81	18.2	0	
20	QPSK	100	0	16.98	16.82	16.82	16.97	16.81			
20	QPSK	100	0	16.84	16.90	17.04	16.99	16.79			
20	16QAM	1	0	16.91	16.82	17.12	16.83	17.06	18.2	0	
20	16QAM	1	49	16.94	16.83	16.77	16.91	16.80			
20	16QAM	1	99	17.03	17.02	16.89	16.99	16.98			
20	16QAM	50	0	16.97	16.97	17.09	17.02	16.85			
20	16QAM	50	24	16.92	16.80	17.17	17.05	16.80	18.2	0	
20	16QAM	50	50	16.98	17.01	16.89	17.00	16.87			
20	16QAM	100	0	16.71	16.76	17.12	16.91	16.77			
20	16QAM	1	0	16.72	16.50	16.85	16.56	16.70			
20	16QAM	1	49	16.78	16.88	16.87	16.97	16.88	18.2	0	
20	16QAM	1	99	16.90	16.93	17.05	16.96	16.90			
20	16QAM	50	0	16.80	16.80	16.83	16.82	16.80			
20	16QAM	50	24	16.84	16.88	16.71	16.83	16.83	18.2	0	
20	16QAM	50	50	16.83	16.80	16.74	16.83	16.81			
20	16QAM	100	0	16.77	16.86	16.81	16.84	16.83			
20	256QAM	1	0	16.90	16.72	16.79	16.74	16.70			
20	256QAM	1	49	16.75	16.78	16.92	16.78	16.73	18.2	0	
20	256QAM	1	99	16.69	16.56	16.83	16.78	16.71			
20	256QAM	50	0	16.67	16.82	16.86	16.87	16.81			
20	256QAM	50	24	16.82	16.68	16.88	16.82	16.59	18.2	0	
20	256QAM	50	50	16.48	16.68	16.75	16.87	16.46			
20	256QAM	100	0	16.89	16.93	16.76	16.73	16.73			
Channel				39750	40173	40600	41055	41460			
Frequency (MHz)				22075	22415	22930	23170	23625			
16	QPSK	1	0	16.70	16.90	16.82	16.84	16.84			
16	QPSK	1	37	16.77	16.99	16.88	16.93	16.79	18	0	
16	QPSK	1	74	16.82	16.84	16.74	16.73	16.70			
16	QPSK	36	0	16.84	16.80	17					



Band 41 PC2 FCC&IC DS13_ Standalone Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low-Mid Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power High-Mid Ch / Freq	Turn-Up Int (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
20	QPSK	1	0	18.70	18.58	18.33	18.20	18.79	19.8	0
20	QPSK	1	49	18.45	18.86	18.72	18.20	18.53		
20	QPSK	50	0	18.45	18.86	18.72	18.20	18.53		
20	QPSK	50	24	18.61	18.45	18.43	18.66	18.34	19.8	0
20	QPSK	100	0	18.32	18.60	18.70	18.51	18.41		
20	16QAM	1	0	18.56	18.50	18.81	18.54	18.65	19.8	0
20	16QAM	1	49	18.45	18.53	18.26	18.44	18.31		
20	16QAM	1	99	18.75	18.71	18.43	18.69	18.47		
20	16QAM	50	0	18.57	18.58	18.89	18.66	18.42		
20	16QAM	50	24	18.51	18.36	18.87	18.29	18.49	19.8	0
20	16QAM	100	0	18.69	18.64	18.41	18.70	18.38		
20	64QAM	1	0	18.27	18.42	18.74	18.29	18.28		
20	64QAM	1	49	18.33	18.41	18.42	18.48	18.22	19.8	0
20	64QAM	1	99	18.53	18.52	18.90	18.37	18.41		
20	64QAM	50	0	18.31	18.21	18.43	18.33	18.46		
20	64QAM	50	24	18.40	18.30	18.20	18.45	18.20	19.8	0
20	64QAM	100	0	18.34	18.09	18.42	18.20	18.10		
20	256QAM	1	0	18.42	18.21	18.45	18.26	18.31		
20	256QAM	1	49	18.47	18.04	18.21	18.20	18.32	19.8	0
20	256QAM	1	99	18.21	18.17	18.20	18.49	18.33		
20	256QAM	50	0	18.46	18.29	18.56	18.21	18.39		
20	256QAM	50	24	18.27	18.30	18.06	18.47	18.23	19.8	0
20	256QAM	100	0	18.08	18.36	18.39	18.17	18.06		
20	256QAM	100	0	18.14	18.44	18.20	18.20	18.17		
Channel										
Frequency (MHz)				25013	25433	25793	26123	26523	Turn-Up Int (dBm)	MPR (dB)
15	QPSK	1	0	18.41	18.44	18.04	18.20	18.23	19.8	0
15	QPSK	1	37	18.32	18.45	18.82	18.48	18.44		
15	QPSK	1	74	18.39	18.34	18.41	18.28	18.37		
15	QPSK	36	0	18.39	18.51	18.62	18.21	18.48	19.8	0
15	QPSK	36	20	18.38	18.23	18.23	18.34	18.19		
15	QPSK	75	0	18.03	18.45	18.40	18.37	18.12	19.8	0
15	16QAM	1	0	18.27	18.40	18.63	18.36	18.47		
15	16QAM	1	37	18.29	18.41	18.18	18.29	18.17	19.8	0
15	16QAM	1	74	18.57	18.40	18.28	18.48	18.24		
15	16QAM	36	0	18.27	18.33	18.71	18.49	18.16		
15	16QAM	36	20	18.35	18.55	18.42	18.25	18.29	19.8	0
15	16QAM	36	39	18.46	18.39	18.11	18.55	18.11		
15	16QAM	75	0	18.01	18.30	18.43	18.20	17.99		
15	64QAM	1	0	18.05	18.18	18.24	18.21	18.05	19.8	0
15	64QAM	1	37	18.04	18.26	18.13	18.24	17.92		
15	64QAM	1	74	18.38	18.42	18.69	18.10	18.22		
15	64QAM	36	0	17.99	18.06	18.14	18.36	18.08	19.8	0
15	64QAM	36	20	18.15	18.19	18.08	18.18	18.06		
15	64QAM	36	39	18.05	18.12	18.21	18.27	18.09	19.8	0
15	64QAM	75	0	18.00	18.23	18.29	18.27	18.27		
15	256QAM	1	0	18.23	18.12	18.20	18.08	18.04	19.8	0
15	256QAM	1	37	17.98	18.38	18.17	18.20	18.05		
15	256QAM	1	74	18.12	17.98	18.04	18.20	18.08		
15	256QAM	36	0	18.32	18.04	18.33	18.41	18.19	19.8	0
15	256QAM	36	20	18.14	18.02	18.02	18.20	18.05		
15	256QAM	36	39	17.78	18.13	18.17	18.27	18.14		
15	256QAM	75	0	18.38	18.31	18.38	18.12	18.49	19.8	0
Channel										
Frequency (MHz)				25013	25443	25933	26393	26883	Turn-Up Int (dBm)	MPR (dB)
10	QPSK	1	0	18.41	18.30	18.40	18.21	18.40	19.8	0
10	QPSK	1	25	18.20	18.38	18.40	18.21	18.28		
10	QPSK	1	49	18.38	18.41	18.20	18.47	18.33		
10	QPSK	25	0	18.39	18.50	18.41	18.20	18.20	19.8	0
10	QPSK	25	12	18.40	18.19	18.14	18.39	18.08		
10	QPSK	25	25	18.21	18.35	18.25	18.00	18.43		
10	16QAM	1	0	18.21	18.38	18.31	18.29	18.14	19.8	0
10	16QAM	1	0	18.48	18.31	18.84	18.28	18.48		
10	16QAM	1	25	18.18	18.28	18.16	18.24	18.03		
10	16QAM	1	49	18.53	18.53	18.32	18.51	18.20		
10	16QAM	25	0	18.35	18.36	18.64	18.42	18.16		
10	16QAM	25	12	18.25	18.19	18.58	18.24	18.13	19.8	0
10	16QAM	25	25	18.14	18.08	18.27	18.21	18.05		
10	64QAM	1	0	18.14	18.08	18.27	18.21	18.05	19.8	0
10	64QAM	1	25	18.22	18.29	18.22	18.23	18.04		
10	64QAM	1	49	18.19	18.26	18.69	18.22	18.33		
10	64QAM	25	0	18.06	18.08	18.14	18.26	18.21	19.8	0
10	64QAM	25	12	18.24	18.01	18.06	18.19	18.12		
10	64QAM	25	25	18.08	17.83	18.20	18.14	18.00		
10	256QAM	1	0	18.11	18.24	18.15	18.09	18.27	19.8	0
10	256QAM	1	0	18.32	18.08	18.22	17.97	18.08		
10	256QAM	1	25	18.05	18.26	18.53	18.05	18.11		
10	256QAM	1	49	18.05	18.05	18.20	18.13	18.15	19.8	0
10	256QAM	25	0	18.30	18.07	18.33	18.39	18.26		
10	256QAM	25	12	18.17	18.15	17.86	18.27	17.96	19.8	0
10	256QAM	25	25	17.85	18.14	18.29	18.05	17.91		
10	256QAM	50	0	18.29	18.24	18.38	18.14	18.19		
Channel										
Frequency (MHz)				3688.5	3748.5	3793	3840.50	3897.5	Turn-Up Int (dBm)	MPR (dB)
5	QPSK	1	0	18.51	18.41	18.69	18.20	18.54	19.8	0
5	QPSK	1	12	18.19	18.34	18.45	18.20	18.37		
5	QPSK	1	24	18.20	18.54	18.37	18.42	18.27		
5	QPSK	12	0	18.34	18.49	18.33	18.41	18.46	19.8	0
5	QPSK	12	7	18.44	18.29	18.24	18.54	18.11		
5	QPSK	12	18	18.37	18.36	18.42	18.18	18.51		
5	QPSK	24	0	18.29	18.52	18.54	18.26	18.12	19.8	0
5	16QAM	1	0	18.47	18.39	18.68	18.26	18.54		
5	16QAM	1	12	18.21	18.44	18.52	18.19	18.20	19.8	0
5	16QAM	1	24	18.63	18.61	18.21	18.62	18.19		
5	16QAM	12	0	18.37	18.27	18.67	18.39	18.14		
5	16QAM	12	7	18.42	18.26	18.44	18.53	18.19	19.8	0
5	16QAM	12	13	18.44	18.42	18.28	18.41	18.13		
5	16QAM	24	0	18.17	18.26	18.68	18.32	18.06		
5	64QAM	1	0	18.14	18.11	18.26	18.31	18.21	19.8	0
5	64QAM	1	12	18.20	18.20	18.12	18.34	18.06		
5	64QAM	1	24	18.25	18.41	18.56	18.10	18.12		
5	64QAM	12	0	18.11	18.10	18.23	18.19	18.20	19.8	0
5	64QAM	12	7	18.27	18.20	17.98	18.23	18.00		
5	64QAM	12	13	18.25	17.86	18.31	17.99	17.95	19.8	0
5	64QAM	24	0	18.21	18.16	18.35	18.25	18.28		
5	256QAM	1	0	18.24	18.12	18.14	17.98	18.17		
5	256QAM	1	12	18.08	18.17	18.40	18.01	18.24	19.8	0
5	256QAM	1	24	17.65	18.02	18.07	18.28	18.18		
5	256QAM	12	0	18.20	18.18	17.94	18.23	18.10	19.8	0
5	256QAM	12	7	17.82	18.17	18.21	18.03	17.85		
5	256QAM	12	13	18.22	18.39	18.33	18.20	18.31		

Band 48 Default Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low-Mid Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power High-Mid Ch / Freq	Turn-Up Int (dBm)	MPR (dB)
Channel										
Frequency (MHz)				56340	56830	56160	56650	56650	Turn-Up Int (dBm)	MPR (dB)
20	QPSK	1	0	20.19	20.51	20.47	20.43	20.43	21	0
20	QPSK	1	49	20.17	20.43	20.35	20.30	20.30		
20	QPSK	50	0	20.19	20.36	20.27	20.26	20.26		
20	QPSK	50	24	20.33	20.48	20.38	20.38	20.38	21	0
20	QPSK	100	0	20.22	20.31	20.33	20.28	20.28		
20	16QAM	1	0	20.24	20.45	20.35	20.32	20.31	21	0
20	16QAM	1	49	20.28	20.43	20.26	20.32	20.32		
20	16QAM	1	99	20.23	20.16	20.28	20.25	20.11		
20	16QAM	50	0	20.09	20.22	20.10	20.08	20.05	20.5	0.5
20	16QAM	50	24	20.13	20.30	20.25	20.25	20.25		
20	16QAM	100	0	19.91	20.00	19.93	19.80	19.80	20.5	0.5
20	64QAM	1	0	20.04	20.16	20.07	20.04	20.04		
20	64QAM	1	49	19.82	20.03	19.82	19.83	19.83	20.5	0.5
20	64QAM	1	99	19.94	19.93	19.94	19.83	19.83		
20	64QAM	50	0	19.00	19.15	19.04	19.07	19.07		
20	64QAM	50	24							



OSM1900 Awt		Default							
		Best Average Power (dBm)			Limit	Frame-Average Power (dBm)			Limit
		812	861	810	Limit	812	861	810	Limit
Frequency (MHz)		1812.2	1862	1812.2	1800	1812.2	1862	1812.2	1800
OSM 1 Tx Wd		29.56	29.68	29.63	30.00	29.56	29.68	29.63	31.00
OPNS 1 Tx Wd		29.52	29.61	29.49	30.00	29.52	29.61	29.49	31.00
OPNS 2 Tx Wd		27.92	27.92	28.97	30.00	27.92	27.92	28.97	32.00
OPNS 3 Tx Wd		28.70	28.70	28.86	29.50	27.44	27.50	27.40	29.24
OPNS 4 Tx Wd		23.14	23.27	23.40	24.00	23.14	23.27	23.40	27.00
EDGE 1 Tx Wd		23.06	23.13	24.59	26.00	18.06	18.13	18.59	17.00
EDGE 2 Tx Wd		21.33	21.43	23.49	24.00	17.33	17.43	17.48	18.00
EDGE 3 Tx Wd		22.21	22.25	22.20	23.50	17.20	18.00	17.20	19.24
EDGE 4 Tx Wd		20.13	20.18	20.08	21.00	17.13	17.18	17.08	18.00
		VOCMA I (MHz)				VOCMA IV (MHz)			
		VOCMA II			Limit	VOCMA IV			Limit
		862	860	838	Limit	1512	1681	1518	Limit
Frequency (MHz)		862	860	868	1800	1512	1681	1518	1800
OSM 12 Wdop		22.26	23.02	23.00	24.00	21.24	22.26	22.21	24.00
OSM 12 Wdop		23.05	23.07	22.92	24.00	22.89	23.03	22.84	24.00
OSM 12 Wdop		21.92	22.24	22.11	23.00	21.81	22.24	22.04	23.00
OSM 12 Wdop		22.84	22.17	21.92	23.00	21.83	22.07	21.84	23.00
OSM 12 Wdop		21.54	21.50	21.57	22.00	21.52	21.49	21.44	22.00
OSM 12 Wdop		21.48	21.60	21.60	22.00	21.43	21.60	21.50	22.00
OSM 12 Wdop		22.08	22.17	21.98	23.00	21.90	22.00	21.90	23.00
OSM 12 Wdop		21.90	22.13	22.18	23.00	21.81	22.07	22.07	23.00
OSM 12 Wdop		21.37	21.57	21.48	22.00	21.28	21.48	21.34	22.00
OSM 12 Wdop		21.81	21.50	21.44	22.00	21.50	21.45	21.51	22.00
OSM 12 Wdop		22.88	22.31	21.97	23.00	22.04	22.24	21.84	23.00
OSM 12 Wdop		22.23	22.14	22.17	23.00	22.28	22.00	22.04	23.00
OSM 12 Wdop		21.20	21.00	21.03	22.00	21.10	20.90	20.90	22.00
OSM 12 Wdop		18.98	20.25	20.22	21.00	18.84	20.10	20.08	21.00
OSM 12 Wdop		22.03	22.04	21.94	23.00	21.90	21.90	21.80	23.00



Band 2 Default Ant 3											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up (sec)	MPE (dB)			
Channel											
1860 1860 1960											
20	QPSK	1	0	22.66	22.72	22.76					
20	QPSK	1	49	22.66	22.72	22.76	24	0			
20	QPSK	1	99	22.45	22.58	22.63					
20	QPSK	50	0	22.49	22.67	22.63					
20	QPSK	50	24	22.45	22.58	22.63	24	0			
20	QPSK	50	50	22.38	22.47	22.38					
20	QPSK	100	0	22.45	22.60	22.41					
20	16QAM	50	0	22.40	22.46	22.46					
20	16QAM	1	49	22.36	22.45	22.41	24	0			
20	16QAM	1	99	22.33	22.44	22.37					
20	16QAM	50	0	22.38	22.47	22.44					
20	16QAM	50	24	22.38	22.37	22.31	24	0			
20	16QAM	50	50	22.32	22.38	22.31					
20	16QAM	100	0	22.38	22.49	22.32					
20	16QAM	1	0	22.29	22.47	22.31					
20	16QAM	1	49	22.29	22.29	22.29	24	0			
20	16QAM	1	99	22.28	22.48	22.37					
20	16QAM	50	0	22.28	22.44	22.34					
20	16QAM	50	24	22.28	22.34	22.34	24	0			
20	16QAM	50	50	22.26	22.36	22.26					
20	16QAM	100	0	22.42	22.46	22.38					
20	256QAM	1	49	19.47	19.69	19.48					
20	256QAM	1	99	19.51	19.63	19.45	21	3			
20	256QAM	1	99	19.38	19.43	19.33					
20	256QAM	50	0	19.36	19.45	19.38					
20	256QAM	50	24	19.33	19.39	19.36	21	3			
20	256QAM	50	50	19.25	19.35	19.32					
20	256QAM	100	0	19.43	19.50	19.43					
Channel											
1871.5 1880 1925.5											
15	QPSK	1	0	22.60	22.68	22.61					
15	QPSK	1	37	22.42	22.49	22.49	24	0			
15	QPSK	1	74	22.40	22.49	22.46					
15	QPSK	36	0	22.42	22.59	22.47					
15	QPSK	36	37	22.30	22.51	22.39	24	0			
15	QPSK	36	74	22.31	22.39	22.29					
15	QPSK	75	0	22.34	22.50	22.44					
15	QPSK	75	37	22.30	22.42	22.42	24	0			
15	16QAM	1	37	22.24	22.41	22.29	24	0			
15	16QAM	1	74	22.24	22.41	22.29					
15	16QAM	36	0	22.20	22.41	22.34					
15	16QAM	36	37	22.12	22.27	22.28	24	0			
15	16QAM	36	74	22.24	22.41	22.34					
15	16QAM	75	0	22.26	22.44	22.37					
15	16QAM	75	37	22.17	22.37	22.31	24	0			
15	16QAM	75	74	22.14	22.21	22.21					
15	16QAM	36	0	22.23	22.41	22.34					
15	16QAM	36	37	22.14	22.29	22.27	24	0			
15	16QAM	36	74	22.20	22.32	22.27					
15	16QAM	75	0	22.20	22.32	22.27					
15	16QAM	75	37	22.10	22.26	22.26	24	0			
15	16QAM	75	74	22.14	22.21	22.21					
15	16QAM	36	0	22.23	22.41	22.34					
15	16QAM	36	37	22.14	22.29	22.27	24	0			
15	16QAM	36	74	22.20	22.32	22.27					
15	16QAM	75	0	22.20	22.32	22.27					
15	16QAM	75	37	22.10	22.26	22.26	24	0			
15	16QAM	75	74	22.14	22.21	22.21					
15	16QAM	36	0	22.23	22.41	22.34					
15	16QAM	36	37	22.14	22.29	22.27	24	0			
15	16QAM	36	74	22.20	22.32	22.27					
15	16QAM	75	0	22.20	22.32	22.27					
15	16QAM	75	37	22.10	22.26	22.26	24	0			
15	16QAM	75	74	22.14	22.21	22.21					
15	16QAM	36	0	22.23	22.41	22.34					
15	16QAM	36	37	22.14	22.29	22.27	24	0			
15	16QAM	36	74	22.20	22.32	22.27					
15	16QAM	75	0	22.20	22.32	22.27					
15	16QAM	75	37	22.10	22.26	22.26	24	0			
15	16QAM	75	74	22.14	22.21	22.21					
15	16QAM	36	0	22.23	22.41	22.34					
15	16QAM	36	37	22.14	22.29	22.27	24	0			
15	16QAM	36	74	22.20	22.32	22.27					
15	16QAM	75	0	22.20	22.32	22.27					
15	16QAM	75	37	22.10	22.26	22.26	24	0			
15	16QAM	75	74	22.14	22.21	22.21					
15	16QAM	36	0	22.23	22.41	22.34					
15	16QAM	36	37	22.14	22.29	22.27	24	0			
15	16QAM	36	74	22.20	22.32	22.27					
15	16QAM	75	0	22.20	22.32	22.27					
15	16QAM	75	37	22.10	22.26	22.26	24	0			
15	16QAM	75	74	22.14	22.21	22.21					
15	16QAM	36	0	22.23	22.41	22.34					
15	16QAM	36	37	22.14	22.29	22.27	24	0			
15	16QAM	36	74	22.20	22.32	22.27					
15	16QAM	75	0	22.20	22.32	22.27					
15	16QAM	75	37	22.10	22.26	22.26	24	0			
15	16QAM	75	74	22.14	22.21	22.21					
15	16QAM	36	0	22.23	22.41	22.34					
15	16QAM	36	37	22.14	22.29	22.27	24	0			
15	16QAM	36	74	22.20	22.32	22.27					
15	16QAM	75	0	22.20	22.32	22.27					
15	16QAM	75	37	22.10	22.26	22.26	24	0			
15	16QAM	75	74	22.14	22.21	22.21					
15	16QAM	36	0	22.23	22.41	22.34					
15	16QAM	36	37	22.14	22.29	22.27	24	0			
15	16QAM	36	74	22.20	22.32	22.27					
15	16QAM	75	0	22.20	22.32	22.27					
15	16QAM	75	37	22.10	22.26	22.26	24	0			
15	16QAM	75	74	22.14	22.21	22.21					
15	16QAM	36	0	22.23	22.41	22.34					
15	16QAM	36	37	22.14	22.29	22.27	24	0			
15	16QAM	36	74	22.20	22.32	22.27					
15	16QAM	75	0	22.20	22.32	22.27					
15	16QAM	75	37	22.10	22.26	22.26	24	0			
15	16QAM	75	74	22.14	22.21	22.21					
15	16QAM	36	0	22.23	22.41	22.34					
15	16QAM	36	37	22.14	22.29	22.27	24	0			
15	16QAM	36	74	22.20	22.32	22.27					
15	16QAM	75	0	22.20	22.32	22.27					
15	16QAM	75	37	22.10	22.26	22.26	24	0			
15	16QAM	75	74	22.14	22.21	22.21					
15	16QAM	36	0	22.23	22.41	22.34					
15	16QAM	36	37	22.14	22.29	22.27	24	0			
15	16QAM	36	74	22.20	22.32	22.27					
15	16QAM	75	0	22.20	22.32	22.27					
15	16QAM	75	37	22.10	22.26	22.26	24	0			
15	16QAM	75	74	22.14	22.21	22.21					
15	16QAM	36	0	22.23	22.41	22.34					
15	16QAM	36	37	22.14	22.29	22.27	24	0			
15	16QAM	36	74	22.20	22.32	22.27					
15	16QAM	75	0	22.20	22.32	22.27					
15	16QAM	75	37	22.10	22.26	22.26					



Band 25 Default Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Max Ch./Freq.	Time-up (min)	MFR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.60	22.76	22.72	24	0	
20	QPSK	1	48	22.60	22.76	22.72			
20	QPSK	1	96	22.36	22.58	22.55			
20	QPSK	50	0	22.50	22.66	22.47			
20	QPSK	50	24	22.50	22.66	22.47			
20	QPSK	50	50	22.39	22.49	22.45	24	0	
20	QPSK	100	0	22.49	22.65	22.53			
20	16QAM	1	0	22.42	22.58	22.47			
20	16QAM	1	48	22.36	22.42	22.38	24	0	
20	16QAM	1	96	22.39	22.44	22.38			
20	16QAM	50	0	22.37	22.58	22.37			
20	16QAM	50	24	22.40	22.46	22.42	24	0	
20	16QAM	50	50	22.34	22.39	22.34			
20	16QAM	100	0	22.47	22.61	22.48			
20	16QAM	1	0	22.39	22.55	22.46			
20	16QAM	1	48	22.39	22.40	22.32	24	0	
20	16QAM	1	96	22.39	22.33	22.36			
20	16QAM	50	0	21.45	21.56	21.45			
20	16QAM	50	24	21.38	21.36	21.36	23	1	
20	16QAM	50	50	21.33	21.33	21.34			
20	16QAM	100	0	21.59	21.64	21.57			
20	16QAM	1	0	19.47	19.62	19.52			
20	16QAM	1	48	19.43	19.65	19.47	21	3	
20	16QAM	1	96	19.44	19.42	19.40			
20	16QAM	50	0	19.38	19.38	19.38			
20	16QAM	50	24	19.38	19.46	19.41	21	3	
20	16QAM	50	50	19.42	19.40	19.39			
20	16QAM	100	0	19.44	19.44	19.44			
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.50	22.69	22.69	24	0	
15	QPSK	1	37	22.46	22.56	22.47			
15	QPSK	1	74	22.27	22.48	22.42			
15	QPSK	36	0	22.38	22.62	22.37			
15	QPSK	36	20	22.33	22.33	22.41			
15	QPSK	36	36	22.35	22.43	22.42	24	0	
15	QPSK	75	0	22.44	22.56	22.41			
15	16QAM	1	0	22.34	22.51	22.34			
15	16QAM	1	37	22.25	22.39	22.31	24	0	
15	16QAM	1	74	22.25	22.33	22.28			
15	16QAM	36	0	22.28	22.53	22.29			
15	16QAM	36	20	22.32	22.33	22.33	24	0	
15	16QAM	36	36	22.34	22.58	22.43			
15	16QAM	75	0	22.30	22.42	22.36			
15	16QAM	1	0	21.34	21.52	21.34	24	0	
15	16QAM	1	37	21.27	21.24	21.13			
15	16QAM	36	0	21.34	21.52	21.34	23	1	
15	16QAM	36	20	21.18	21.18	21.24			
15	16QAM	75	0	21.62	21.68	21.54			
15	16QAM	1	0	19.40	19.58	19.40			
15	16QAM	1	37	19.40	19.61	19.37	21	3	
15	16QAM	1	74	19.30	19.35	19.36			
15	16QAM	36	0	19.30	19.30	19.30			
15	16QAM	36	20	19.29	19.43	19.29	21	3	
15	16QAM	36	36	19.34	19.35	19.26			
15	16QAM	75	0	19.40	19.40	19.40			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.50	22.54	22.54	24	0	
10	QPSK	1	26	22.35	22.52	22.44			
10	QPSK	1	49	22.28	22.47	22.47			
10	QPSK	12	0	22.37	22.44	22.41			
10	QPSK	25	12	22.25	22.37	22.40	24	0	
10	QPSK	25	25	22.30	22.38	22.38			
10	QPSK	50	0	22.45	22.48	22.40			
10	16QAM	1	0	22.30	22.48	22.36	24	0	
10	16QAM	1	26	22.25	22.37	22.29			
10	16QAM	1	49	22.34	22.52	22.38			
10	16QAM	25	12	22.28	22.38	22.38	24	0	
10	16QAM	25	25	22.34	22.44	22.39			
10	16QAM	50	0	22.33	22.52	22.34			
10	16QAM	1	0	22.30	22.42	22.33	24	0	
10	16QAM	1	26	22.23	22.35	22.24			
10	16QAM	1	49	22.15	22.23	22.14			
10	16QAM	25	0	21.37	21.45	21.35			
10	16QAM	25	12	21.14	21.25	21.15	23	1	
10	16QAM	25	25	21.22	21.20	21.25			
10	16QAM	50	0	21.54	21.54	21.44			
10	16QAM	1	0	19.40	19.58	19.43			
10	16QAM	1	26	19.30	19.59	19.44	21	3	
10	16QAM	1	49	19.35	19.35	19.35			
10	16QAM	25	0	19.30	19.32	19.48			
10	16QAM	25	12	19.32	19.32	19.33	21	3	
10	16QAM	25	25	19.37	19.28	19.25			
10	16QAM	50	0	19.41	19.52	19.47			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.50	22.65	22.65	24	0	
5	QPSK	1	12	22.42	22.57	22.40			
5	QPSK	1	24	22.25	22.46	22.42			
5	QPSK	12	0	22.45	22.44	22.41			
5	QPSK	12	7	22.30	22.48	22.38	24	0	
5	QPSK	12	13	22.28	22.44	22.40			
5	QPSK	25	0	22.45	22.48	22.40			
5	16QAM	1	0	22.30	22.48	22.40	24	0	
5	16QAM	1	12	22.32	22.29	22.24			
5	16QAM	1	24	22.28	22.40	22.30			
5	16QAM	12	0	22.34	22.48	22.23	24	0	
5	16QAM	12	7	22.33	22.39	22.36			
5	16QAM	12	13	22.38	22.36	22.30	24	0	
5	16QAM	25	0	22.36	22.49	22.35			
5	16QAM	1	0	22.32	22.47	22.42	24	0	
5	16QAM	1	12	22.29	22.34	22.17			
5	16QAM	1	24	22.14	22.24	22.25			
5	16QAM	12	0	21.34	21.47	21.36	23	1	
5	16QAM	12	7	21.28	21.24	21.29			
5	16QAM	12	13	21.12	21.27	21.24			
5	16QAM	25	0	21.46	21.59	21.49			
5	16QAM	1	0	19.40	19.57	19.38			
5	16QAM	1	12	19.38	19.52	19.31	21	3	
5	16QAM	1	24	19.31	19.36	19.31			
5	16QAM	12	0	19.37	19.58	19.42			
5	16QAM	12	7	19.32	19.41	19.26	21	3	
5	16QAM	12	13	19.38	19.32	19.30			
5	16QAM	25	0	19.31	19.50	19.40			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.47	22.65	22.65	24	0	
3	QPSK	1	8	22.45	22.66	22.44			
3	QPSK	1	14	22.28	22.45	22.42			
3	QPSK	8	0	22.38	22.49	22.38			
3	QPSK	8	4	22.32	22.43	22.39	24	0	
3	QPSK	8	7	22.26	22.39	22.38			
3	QPSK	15	0	22.39	22.49	22.45			
3	16QAM	1	0	22.29	22.47	22.34	24	0	
3	16QAM	1	8	22.25	22.26	22.25			
3	16QAM	1	15	22.32	22.45	22.33			
3	16QAM	8	0	22.32	22.42	22.22	24	0	
3	16QAM	8	4	22.32	22.39	22.36			
3	16QAM	15	0	22.27	22.31	22.27			
3	16QAM	15	0	22.33	22.58	22.39	24	0	
3	16QAM	1	0	22.28	22.46	22.40			
3	16QAM	1	8	22.22	22.25	22.28			
3	16QAM	1	14	22.24	22.27	22.16			
3	16QAM	8	0	21.34	21.46	21.36	23	1	
3	16QAM	8	4	21.38	21.59	21.32			
3	16QAM	8	7	21.13	21.22	21.21			
3	16QAM	15	0	21.52	21.69	21.46			
3	16QAM	15	0	19.47	19.54	19.40			
3	16QAM	1	8	19.37	19.61	19.37	21	3	
3	16QAM	1	15	19.33	19.39	19.32			
3	16QAM	8	0	19.37	19.53	19.50			
3	16QAM	8	4	19.24	19.41	19.32	21	3	



Band 38 DSI3_Standalone Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
				37860	38000	38150				
Frequency (MHz)										
20	QPSK	1	0	20.74	20.85	20.94				
20	QPSK	1	49	20.45	20.74	20.49	22.2	0		
20	QPSK	1	99	20.56	20.85	20.69				
20	QPSK	50	0	20.64	20.85	20.60				
20	QPSK	50	24	20.70	20.85	20.82	22.2	0		
20	QPSK	50	49	20.82	20.85	20.85				
20	QPSK	100	0	20.70	20.73	20.52				
20	HQAM	1	0	20.76	20.83	20.76				
20	HQAM	1	49	20.72	20.78	20.81	22.2	0		
20	HQAM	1	99	20.77	20.78	20.89				
20	HQAM	50	0	20.73	20.83	20.86				
20	HQAM	50	24	20.41	20.85	20.30	22.2	0		
20	HQAM	50	50	20.45	20.84	20.52				
20	HQAM	100	0	20.69	20.80	20.60				
20	HQAM	1	49	20.66	20.71	20.85	22.2	0		
20	HQAM	1	99	20.57	20.77	20.55				
20	HQAM	50	0	20.57	20.75	20.56				
20	HQAM	50	24	20.29	20.51	20.50	22.2	0		
20	HQAM	50	50	20.29	20.49	20.41				
20	HQAM	100	0	20.48	20.69	20.56				
20	25QAM	1	0	19.81	19.82	19.87				
20	25QAM	1	49	19.81	19.82	19.89	20.5	1.7		
20	25QAM	1	99	19.80	19.77	19.79				
20	25QAM	50	0	19.80	19.80	19.80				
20	25QAM	50	24	19.88	19.85	19.87	20.5	1.7		
20	25QAM	50	50	19.82	19.85	19.77				
20	25QAM	100	0	19.82	19.85	19.80				
Channel										
				37825	38000	38175				
Frequency (MHz)										
15	QPSK	1	0	20.53	20.73	20.43				
15	QPSK	1	37	20.47	20.87	20.33	22.2	0		
15	QPSK	1	74	20.53	20.40	20.87				
15	QPSK	36	0	20.52	20.87	20.46				
15	QPSK	36	20	20.68	20.45	20.70	22.2	0		
15	QPSK	36	39	20.66	20.82	20.50				
15	QPSK	75	0	20.83	20.81	20.59				
15	HQAM	1	37	20.76	20.79	20.79	22.2	0		
15	HQAM	1	74	20.69	20.87	20.52				
15	HQAM	36	0	20.74	20.47	20.45				
15	HQAM	36	20	20.33	20.43	20.33	22.2	0		
15	HQAM	36	39	20.44	20.47	20.31				
15	HQAM	75	0	20.60	20.83	20.46				
15	HQAM	1	0	20.42	20.88	20.48				
15	HQAM	1	37	20.84	20.57	20.59	22.2	0		
15	HQAM	1	74	20.57	20.73	20.41				
15	HQAM	36	0	20.44	20.88	20.44				
15	HQAM	36	20	20.17	20.48	20.39	22.2	0		
15	HQAM	36	39	20.46	20.88	20.46				
15	HQAM	75	0	20.43	20.53	20.32				
15	25QAM	1	0	19.75	19.85	19.75	20.5	1.7		
15	25QAM	1	37	19.86	19.83	19.78				
15	25QAM	1	74	19.59	19.83	19.88				
15	25QAM	36	0	19.80	19.89	19.76	20.5	1.7		
15	25QAM	36	20	19.82	19.73	19.82				
15	25QAM	36	39	19.77	19.77	19.66				
15	25QAM	75	0	19.88	19.80	19.85				
Channel										
				37875	38000	38175				
Frequency (MHz)										
10	QPSK	1	0	20.44	20.46	20.38				
10	QPSK	1	25	20.26	20.66	20.26	22.2	0		
10	QPSK	1	49	20.35	20.34	20.43				
10	QPSK	1	74	20.46	20.88	20.46				
10	QPSK	25	12	20.48	20.35	20.52	22.2	0		
10	QPSK	25	25	20.39	20.27	20.33				
10	QPSK	50	0	20.51	20.33	20.43				
10	HQAM	1	0	20.81	20.84	20.49				
10	HQAM	1	25	20.57	20.87	20.89	22.2	0		
10	HQAM	1	49	20.58	20.86	20.41				
10	HQAM	25	0	20.55	20.33	20.37				
10	HQAM	25	12	20.15	20.43	20.35	22.2	0		
10	HQAM	25	25	20.30	20.33	20.18				
10	HQAM	50	0	20.52	20.56	20.37				
10	HQAM	1	0	20.37	20.84	20.87				
10	HQAM	1	25	20.58	20.49	20.42	22.2	0		
10	HQAM	1	49	20.48	20.56	20.40				
10	HQAM	25	0	20.34	20.52	20.63				
10	HQAM	25	12	20.21	20.49	20.27	22.2	0		
10	HQAM	25	25	20.27	20.21	20.14				
10	HQAM	50	0	20.26	20.87	20.25				
10	25QAM	1	0	19.73	19.91	19.70				
10	25QAM	1	25	19.74	19.88	19.72	20.5	1.7		
10	25QAM	1	49	19.87	19.84	19.75				
10	25QAM	25	0	19.76	19.85	19.73	20.5	1.7		
10	25QAM	25	12	19.85	19.70	19.80				
10	25QAM	25	25	19.78	19.81	19.85				
10	25QAM	50	0	19.84	20.05	19.85				
Channel										
				2572.5	2585	2617.5				
Frequency (MHz)										
5	QPSK	1	0	20.44	20.48	20.21				
5	QPSK	1	12	20.30	20.47	20.27	22.2	0		
5	QPSK	1	24	20.35	20.21	20.34				
5	QPSK	12	0	20.39	20.85	20.27				
5	QPSK	12	7	20.48	20.30	20.42	22.2	0		
5	QPSK	12	13	20.33	20.24	20.52				
5	QPSK	25	0	20.47	20.31	20.30				
5	HQAM	1	0	20.75	20.51	20.39				
5	HQAM	1	12	20.49	20.88	20.82	22.2	0		
5	HQAM	1	24	20.37	20.28	20.28				
5	HQAM	12	0	20.34	20.24	20.28				
5	HQAM	12	7	20.51	20.32	20.49	22.2	0		
5	HQAM	12	13	20.22	20.14	20.11				
5	HQAM	25	0	20.41	20.81	20.38				
5	HQAM	1	0	20.07	20.45	20.52				
5	HQAM	1	12	20.41	20.36	20.31	22.2	0		
5	HQAM	1	24	20.49	20.47	20.41				
5	HQAM	12	0	20.19	20.89	20.61				
5	HQAM	12	7	20.09	20.41	20.12	22.2	0		
5	HQAM	12	13	20.19	20.14	20.03				
5	HQAM	25	0	20.15	20.28	20.18				
5	25QAM	1	0	19.87	19.80	19.81	20.5	1.7		
5	25QAM	1	12	19.68	19.83	19.77				
5	25QAM	1	24	19.69	19.87	19.82				
5	25QAM	12	0	19.80	19.91	19.73	20.5	1.7		
5	25QAM	12	7	19.75	19.76	19.84				
5	25QAM	12	13	19.79	19.76	19.70	20.5	1.7		
5	25QAM	25	0	19.88	20.05	19.88				

Band 41 FCC&IC DSI3_Standalone Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
				39750	40185	40620				
Frequency (MHz)										
20	QPSK	1	0	20.66	21.03	21.03				
20	QPSK	1	49	20.69	20.72	20.85	22.2	0		
20	QPSK	1	99	20.65	20.66	20.67				
20	QPSK	50	0	20.95	20.94	21.02				
20	QPSK	50	24	20.78	20.83	20.85	22.2	0		
20	QPSK	50	49	20.98	20.88	20.82				
20	QPSK	100	0	20.81	20.81	20.92				
20	HQAM	1	0	21.08	21.06	21.05				
20	HQAM	1	49	21.03	21.00	21.00	22.2	0		
20	HQAM	1	99	21.04	21.00	21.04				
20	HQAM	50	0	21.07	20.82	20.94				
20	HQAM	50	24	20.66	20.66	20.77	22	0.2		



Band 41 PC2 FCC&DSI3_Standalone Ant 3											
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Mids Ch / Freq	Power High Mids Ch / Freq	Tune-up limit (dBm)	MPE (dB)		
Channel											
Frequency (MHz)											
30	QPSK	1	0	22.52	22.46	22.41	22.36	23.48			
30	QPSK	1	49	22.46	22.34	22.61	22.81	22.42	23.8	0	
30	QPSK	1	99	22.36	22.38	22.69	22.48	22.36			
30	QPSK	50	0	22.15	22.26	22.43	22.24	22.21			
30	QPSK	50	24	22.09	22.14	22.21	22.22	22.02	23.8	0	
30	QPSK	50	49	22.07	22.08	22.18	22.18	22.02			
30	QPSK	100	0	22.08	22.16	22.15	22.18	22.10			
30	HQAM	1	0	22.44	22.61	22.64	22.80	22.41	23.8	0	
30	HQAM	1	49	22.37	22.63	22.37	22.44	22.35			
30	HQAM	1	99	22.27	22.37	22.39	22.38	22.26			
30	HQAM	50	0	22.24	22.27	22.40	22.24	22.22			
30	HQAM	50	24	22.07	22.04	22.10	22.18	22.17	23.8	0	
30	HQAM	50	49	22.08	22.13	22.20	22.17	22.09			
30	HQAM	100	0	22.16	22.28	22.26	22.25	22.20			
30	HQAM	100	0	22.30	22.35	22.35	22.35	22.20			
30	HQAM	100	49	22.34	22.46	22.43	22.30	22.30	23.8	0	
30	HQAM	100	99	22.14	22.28	22.37	22.23	22.18			
30	HQAM	100	0	22.26	22.32	22.34	22.30	22.13	23.8	0	
30	HQAM	100	24	22.16	22.29	22.37	22.23	22.13			
30	HQAM	100	50	22.03	22.15	22.21	22.21	22.10			
30	HQAM	100	0	22.26	22.32	22.34	22.30	22.13			
30	HQAM	100	49	22.23	22.32	22.43	22.29	22.23			
30	HQAM	100	99	22.22	22.24	22.28	22.28	22.21			
30	256QAM	1	0	22.06	22.17	22.21	22.21	22.17	23	0.8	
30	256QAM	1	49	22.11	22.21	22.30	22.19	22.07			
30	256QAM	50	0	22.05	22.08	22.08	22.12	22.00	23	0.8	
30	256QAM	50	24	21.91	22.04	22.11	22.02	21.89			
30	256QAM	50	49	21.92	22.03	22.09	22.03	21.88			
Channel											
Frequency (MHz)											
15	QPSK	1	0	22.53	22.43	22.41	22.37	23.73			
15	QPSK	1	37	22.32	22.23	22.48	22.44	22.35	24	0	
15	QPSK	1	74	22.26	22.29	22.42	22.39	22.27			
15	QPSK	38	0	22.09	22.23	22.36	22.17	21.87	23.8	0	
15	QPSK	38	20	21.92	22.09	22.11	22.12	21.95			
15	QPSK	38	39	22.04	22.01	22.30	22.11	21.81			
15	QPSK	75	0	21.98	22.11	22.29	22.11	21.97	23.8	0	
15	HQAM	1	0	22.38	22.46	22.50	22.40	22.34			
15	HQAM	1	37	22.33	22.40	22.48	22.38	22.34			
15	HQAM	1	74	22.25	22.24	22.38	22.36	22.13			
15	HQAM	38	0	22.13	22.20	22.33	22.11	22.09	23.8	0	
15	HQAM	38	20	22.03	22.14	22.22	22.12	22.04			
15	HQAM	38	39	22.05	22.10	22.15	22.06	22.03			
15	HQAM	75	0	22.12	22.13	22.31	22.23	22.08			
15	HQAM	75	0	22.21	22.21	22.38	22.23	22.22			
15	HQAM	75	37	22.21	22.27	22.38	22.23	22.22			
15	HQAM	100	0	22.10	22.18	22.22	22.09	22.12			
15	HQAM	100	0	22.11	22.12	22.40	22.30	22.16			
15	HQAM	100	38	22.08	22.23	22.24	22.20	22.15	23.8	0	
15	HQAM	100	39	22.08	22.23	22.24	22.15	22.02			
15	HQAM	100	75	0	22.17	22.21	22.30	22.21			
15	256QAM	1	0	22.13	22.20	22.31	22.16	22.12	23	0.8	
15	256QAM	1	37	22.15	22.12	22.38	22.25	22.14			
15	256QAM	1	74	22.00	22.00	22.18	22.18	22.06			
15	256QAM	38	0	21.97	22.00	22.17	22.11	21.93	23	0.8	
15	256QAM	38	20	21.94	22.05	22.18	22.08	21.95			
15	256QAM	38	39	21.83	21.90	22.07	21.93	21.83			
15	256QAM	75	0	21.88	22.08	22.22	22.01	21.83			
Channel											
Frequency (MHz)											
10	QPSK	1	0	22.47	22.42	22.42	22.38	23.48			
10	QPSK	1	25	22.40	22.32	22.48	22.41	22.40	24	0	
10	QPSK	1	49	22.31	22.26	22.40	22.40	22.23			
10	QPSK	25	0	22.00	22.01	22.18	22.10	21.85	23.8	0	
10	QPSK	25	12	22.01	22.05	22.12	22.19	21.89			
10	QPSK	25	25	21.93	21.99	22.16	22.03	21.88			
10	QPSK	50	0	21.87	22.03	22.10	22.04	21.85			
10	HQAM	1	0	22.35	22.47	22.50	22.40	22.31	23.8	0	
10	HQAM	1	25	22.26	22.36	22.46	22.37	22.14			
10	HQAM	1	49	22.18	22.24	22.39	22.26	22.22			
10	HQAM	25	0	22.15	22.17	22.33	22.11	22.16			
10	HQAM	25	12	22.04	22.14	22.22	22.09	22.04	23.8	0	
10	HQAM	25	25	22.02	22.10	22.15	22.11	21.98			
10	HQAM	50	0	22.11	22.17	22.38	22.18	22.17			
10	HQAM	50	12	22.07	22.08	22.40	22.26	22.14			
10	HQAM	50	25	22.05	22.03	22.30	22.18	22.10	23.8	0	
10	HQAM	100	0	22.25	22.31	22.38	22.18	22.27			
10	HQAM	100	12	22.05	22.21	22.24	22.09	22.20			
10	HQAM	100	25	22.14	22.28	22.30	22.27	22.04			
10	HQAM	100	0	22.04	22.21	22.31	22.11	22.03	23.8	0	
10	HQAM	100	12	22.01	22.10	22.20	22.15	22.01			
10	HQAM	100	25	22.00	22.08	22.20	22.07	22.02			
10	256QAM	1	0	22.13	22.29	22.34	22.16	22.14			
10	256QAM	1	49	22.15	22.13	22.36	22.14	22.14	23	0.8	
10	256QAM	25	0	22.07	22.01	22.17	22.11	22.03			
10	256QAM	25	12	21.90	22.03	22.16	22.07	22.00			
10	256QAM	25	25	21.85	21.97	22.05	21.95	21.81	23	0.8	
10	256QAM	50	0	21.84	22.06	22.27	22.00	21.87			
Channel											
Frequency (MHz)											
5	QPSK	1	0	22.48	22.45	22.45	22.40	23.85			
5	QPSK	1	12	22.42	22.28	22.51	22.48	22.33	24	0	
5	QPSK	1	24	22.22	22.23	22.43	22.43	22.23			
5	QPSK	12	0	22.06	22.16	22.36	22.19	22.18	23.8	0	
5	QPSK	12	7	21.94	22.06	22.16	22.19	21.94			
5	QPSK	12	13	21.98	22.06	22.10	22.03	21.91			
5	QPSK	25	0	22.01	22.11	22.22	22.19	21.97	23.8	0	
5	HQAM	1	0	22.35	22.43	22.58	22.38	22.34			
5	HQAM	1	12	22.31	22.33	22.46	22.40	22.12	23.8	0	
5	HQAM	1	24	22.10	22.20	22.31	22.26	22.16			
5	HQAM	12	0	22.11	22.19	22.38	22.11	22.17			
5	HQAM	12	7	22.04	22.14	22.23	22.11	22.09	23.8	0	
5	HQAM	12	13	22.04	22.08	22.25	22.10	22.05			
5	HQAM	25	0	22.12	22.13	22.31	22.16	22.13			
5	HQAM	25	0	22.21	22.23	22.39	22.24	22.11	23.8	0	
5	HQAM	12	12	22.29	22.33	22.31	22.21	22.16			
5	HQAM	12	24	22.09	22.22	22.20	22.09	22.08			
5	HQAM	12	0	22.10	22.20	22.17	22.30	22.18	23.8	0	
5	HQAM	12	7	22.04	22.17	22.15	22.14	22.01			
5	HQAM	12	13	21.96	22.09	22.14	22.19	21.98			
5	HQAM	25	0	22.21	22.25	22.26	22.22	22.03			
5	256QAM	1	0	22.16	22.26	22.34	22.21	22.19			
5	256QAM	1	12	22.14	22.15	22.32	22.14	22.13	23	0.8	
5	256QAM	1	24	21.98	22.07	22.00	22.12	22.12			
5											



Reduced Power Mode for DSI3-Simultaneous

Default Mode		Default			Default			Default				
Category	Unit	160	160	161	Turn-up Limit (dBm)	158	160	161	Turn-up Limit (dBm)	158	160	161
Frequency (MHz)		151.2	151.2	151.2	151.2	151.2	151.2	151.2	151.2	151.2	151.2	151.2
TX Channel		151.2	151.2	151.2	151.2	151.2	151.2	151.2	151.2	151.2	151.2	151.2
FRM1 Tx (dBm)		32.83	32.94	32.91	33.50	33.83	33.94	33.91	34.50	34.83	34.94	34.91
OPRS 1 Tx (dBm)		28.30	28.41	28.36	30.00	29.30	29.41	29.36	30.00	29.30	29.41	29.36
OPRS 2 Tx (dBm)		28.91	28.60	28.86	30.00	24.65	24.72	24.60	30.00	24.65	24.72	24.60
OPRS 3 Tx (dBm)		28.41	28.41	28.40	27.50	23.41	23.41	23.40	27.50	23.41	23.41	23.40
EDGE 1 Tx (dBm)		25.42	25.40	25.37	26.50	18.42	18.40	18.37	26.50	18.42	18.40	18.37
EDGE 2 Tx (dBm)		23.77	23.80	23.79	25.00	17.77	17.80	17.79	25.00	17.77	17.80	17.79
EDGE 3 Tx (dBm)		22.66	22.60	22.62	23.50	16.40	16.40	16.38	23.50	16.40	16.40	16.38
EDGE 4 Tx (dBm)		20.00	20.00	20.00	21.50	17.50	17.63	17.60	21.50	17.50	17.63	17.60

Default Mode		Default			Default			Default				
Category	Unit	160	160	160	Turn-up Limit (dBm)	158	160	160	Turn-up Limit (dBm)	158	160	160
Frequency (MHz)		151.2	151.2	151.2	151.2	151.2	151.2	151.2	151.2	151.2	151.2	151.2
TX Channel		151.2	151.2	151.2	151.2	151.2	151.2	151.2	151.2	151.2	151.2	151.2
FRM1 Tx (dBm)		27.61	27.66	27.57	28.50	18.61	18.66	18.57	28.50	18.61	18.66	18.57
OPRS 1 Tx (dBm)		27.54	27.61	27.56	28.50	18.54	18.61	18.56	28.50	18.54	18.61	18.56
OPRS 2 Tx (dBm)		24.84	24.80	24.83	26.00	18.84	18.84	18.83	26.00	18.84	18.84	18.83
OPRS 3 Tx (dBm)		26.30	26.30	26.30	24.50	19.07	19.07	19.07	24.50	19.07	19.07	19.07
OPRS 4 Tx (dBm)		26.70	26.70	26.68	21.50	17.70	17.75	17.68	21.50	17.70	17.75	17.68
EDGE 1 Tx (dBm)		22.70	22.67	22.73	23.50	15.70	15.70	15.71	23.50	15.70	15.70	15.71
EDGE 2 Tx (dBm)		21.00	21.10	21.11	22.00	15.00	15.10	15.11	22.00	15.00	15.10	15.11
EDGE 3 Tx (dBm)		20.07	20.12	20.04	21.00	15.81	15.66	15.78	21.00	15.81	15.66	15.78
EDGE 4 Tx (dBm)		17.96	18.00	18.04	19.00	14.90	15.00	15.04	19.00	14.90	15.00	15.04

Default Mode		Default WCDMA V Awt			Default WCDMA V Awt			Default WCDMA V Awt				
Category	Unit	160	160	160	Turn-up Limit (dBm)	152	143	153	Turn-up Limit (dBm)	432	432	433
Frequency (MHz)		1602.4	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4
TX Channel		1602.4	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4
FRM1 Tx (dBm)		20.57	20.65	20.53	22.00	20.30	20.47	20.38	22.00	22.43	22.47	22.40
OPRS 1 Tx (dBm)		20.60	20.60	20.57	22.00	20.45	20.51	20.41	22.00	22.46	22.50	22.46
OPRS 2 Tx (dBm)		19.72	19.70	19.70	21.00	19.50	19.66	19.50	21.00	21.55	21.69	21.48
OPRS 3 Tx (dBm)		19.86	19.74	19.86	21.00	19.40	19.50	19.50	21.00	21.46	21.66	21.44
OPRS 4 Tx (dBm)		19.19	19.24	19.23	20.50	19.00	19.11	19.08	20.50	21.01	21.14	21.04
OPRS 5 Tx (dBm)		19.15	19.20	19.21	20.50	19.06	19.18	19.03	20.50	20.98	21.24	21.06
OPRS 6 Tx (dBm)		19.70	19.82	19.84	21.00	19.54	19.68	19.46	21.00	21.50	21.72	21.42
OPRS 7 Tx (dBm)		19.50	19.50	19.41	21.00	19.38	19.40	19.32	21.00	21.34	21.42	21.30
OPRS 8 Tx (dBm)		19.10	19.12	19.10	20.50	19.02	19.01	19.00	20.50	20.80	21.00	21.03
OPRS 9 Tx (dBm)		19.86	19.74	19.70	21.00	19.55	19.63	19.61	21.00	21.61	21.68	21.67
OPRS 10 Tx (dBm)		17.71	17.70	17.64	19.00	17.64	17.60	17.51	19.00	19.07	19.83	19.50
OPRS 11 Tx (dBm)		18.65	18.73	18.70	20.00	18.52	18.58	18.58	20.00	20.52	20.59	20.81
OPRS 12 Tx (dBm)		17.61	17.68	17.67	19.00	17.44	17.61	17.48	19.00	19.40	19.52	19.40
OPRS 13 Tx (dBm)		19.84	19.60	19.52	21.00	19.53	19.40	19.38	21.00	21.55	21.44	21.40



Band 2 Default Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (dB)	MPR (dB)		
Channel	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Turn-up (dB)	MPR (dB)		
20	QPSK	1	0	20.11	20.16	20.07				
20	QPSK	1	49	20.08	20.07	20.07				
20	QPSK	1	99	20.09	20.07	20.07				
20	QPSK	50	0	20.08	20.13	20.05				
20	QPSK	50	24	20.04	20.08	20.05				
20	QPSK	50	50	20.02	20.04	20.06				
20	QPSK	100	0	20.09	20.02	20.01				
20	QPSK	100	24	20.05	20.02	20.02				
20	QPSK	100	49	20.05	20.08	20.00				
20	QPSK	150	0	20.07	20.08	20.00				
20	QPSK	150	24	20.04	20.08	20.00				
20	QPSK	150	49	20.04	20.08	20.00				
20	QPSK	200	0	20.08	20.08	20.00				
20	QPSK	200	24	20.04	20.08	20.00				
20	QPSK	200	49	20.04	20.08	20.00				
20	QPSK	250	0	20.08	20.08	20.00				
20	QPSK	250	24	20.04	20.08	20.00				
20	QPSK	250	49	20.04	20.08	20.00				
20	QPSK	300	0	20.08	20.08	20.00				
20	QPSK	300	24	20.04	20.08	20.00				
20	QPSK	300	49	20.04	20.08	20.00				
20	QPSK	350	0	20.08	20.08	20.00				
20	QPSK	350	24	20.04	20.08	20.00				
20	QPSK	350	49	20.04	20.08	20.00				
20	QPSK	400	0	20.08	20.08	20.00				
20	QPSK	400	24	20.04	20.08	20.00				
20	QPSK	400	49	20.04	20.08	20.00				
20	QPSK	450	0	20.08	20.08	20.00				
20	QPSK	450	24	20.04	20.08	20.00				
20	QPSK	450	49	20.04	20.08	20.00				
20	QPSK	500	0	20.08	20.08	20.00				
20	QPSK	500	24	20.04	20.08	20.00				
20	QPSK	500	49	20.04	20.08	20.00				
20	QPSK	550	0	20.08	20.08	20.00				
20	QPSK	550	24	20.04	20.08	20.00				
20	QPSK	550	49	20.04	20.08	20.00				
20	QPSK	600	0	20.08	20.08	20.00				
20	QPSK	600	24	20.04	20.08	20.00				
20	QPSK	600	49	20.04	20.08	20.00				
20	QPSK	650	0	20.08	20.08	20.00				
20	QPSK	650	24	20.04	20.08	20.00				
20	QPSK	650	49	20.04	20.08	20.00				
20	QPSK	700	0	20.08	20.08	20.00				
20	QPSK	700	24	20.04	20.08	20.00				
20	QPSK	700	49	20.04	20.08	20.00				
20	QPSK	750	0	20.08	20.08	20.00				
20	QPSK	750	24	20.04	20.08	20.00				
20	QPSK	750	49	20.04	20.08	20.00				
20	QPSK	800	0	20.08	20.08	20.00				
20	QPSK	800	24	20.04	20.08	20.00				
20	QPSK	800	49	20.04	20.08	20.00				
20	QPSK	850	0	20.08	20.08	20.00				
20	QPSK	850	24	20.04	20.08	20.00				
20	QPSK	850	49	20.04	20.08	20.00				
20	QPSK	900	0	20.08	20.08	20.00				
20	QPSK	900	24	20.04	20.08	20.00				
20	QPSK	900	49	20.04	20.08	20.00				
20	QPSK	950	0	20.08	20.08	20.00				
20	QPSK	950	24	20.04	20.08	20.00				
20	QPSK	950	49	20.04	20.08	20.00				
20	QPSK	1000	0	20.08	20.08	20.00				
20	QPSK	1000	24	20.04	20.08	20.00				
20	QPSK	1000	49	20.04	20.08	20.00				

Band 4 DS13_Simultaneous Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (dB)	MPR (dB)		
Channel	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Turn-up (dB)	MPR (dB)		
20	QPSK	1	0	21.17	21.23	21.06				
20	QPSK	1	49	21.14	21.16	21.01				
20	QPSK	1	99	21.09	21.07	20.99				
20	QPSK	50	0	20.98	21.10	21.09				
20	QPSK	50	24	20.91	20.97	20.85				
20	QPSK	50	50	20.98	20.97	21.04				
20	QPSK	100	0	20.96	21.08	20.81				
20	QPSK	100	24	20.92	21.09	20.87				
20	QPSK	100	49	20.95	21.05	20.94				
20	QPSK	150	0	21.00	21.04	20.84				
20	QPSK	150	24	20.91	21.09	21.03				
20	QPSK	150	49	20.88	21.04	21.05				
20	QPSK	200	0	20.98	21.02	20.85				
20	QPSK	200	24	20.94	20.97	20.83				
20	QPSK	200	49	20.83	21.01	20.89				
20	QPSK	250	0	20.98	20.97	20.83				
20	QPSK	250	24	20.91	21.04	20.82				
20	QPSK	250	49	20.92	21.09	20.93				
20	QPSK	300	0	20.91	21.04	20.82				
20	QPSK	300	24	20.88	20.99	20.88				
20	QPSK	300	49	20.82	21.09	20.93				
20	QPSK	350	0	20.91	21.04	20.82				
20	QPSK	350	24	20.88	20.99	20.88				
20	QPSK	350	49	20.82	21.09	20.93				
20	QPSK	400	0	20.91	21.04	20.82				
20	QPSK	400	24	20.88	20.99	20.88				
20	QPSK	400	49	20.82	21.09	20.93				
20	QPSK	450	0	20.91	21.04	20.82				
20	QPSK	450	24	20.88	20.99	20.88				
20	QPSK	450	49	20.82	21.09	20.93				
20	QPSK	500	0	20.91	21.04	20.82				
20	QPSK	500	24	20.88	20.99	20.88				
20	QPSK	500	49	20.82	21.09	20.93				
20	QPSK	550	0	20.91	21.04	20.82				
20	QPSK	550	24	20.88	20.99	20.88				
20	QPSK	550	49	20.82	21.09	20.93				
20	QPSK	600	0	20.91	21.04	20.82				
20	QPSK	600	24	20.88	20.99	20.88				
20	QPSK	600	49	20.82	21.09	20.93				
20	QPSK	650	0	20.91	21.04	20.82				
20	QPSK	650	24	20.88	20.99	20.88				
20	QPSK	650	49	20.82	21.09	20.93				
20	QPSK	700	0	20.91	21.04	20.82				
20	QPSK	700	24	20.88	20.99	20.88				
20	QPSK	700	49	20.82	21.09	20.93				
20	QPSK	750	0	20.91	21.04	20.82				
20	QPSK	750	24	20.88	20.99	20.88				
20	QPSK	750	49	20.82	21.09	20.93				
20	QPSK	800	0	20.91	21.04	20.82				
20	QPSK	800	24	20.88	20.99	20.88				
20	QPSK	800	49	20.82	21.09	20.93				
20	QPSK	850	0	20.91	21.04	20.82				
20	QPSK	850	24	20.88	20.99	20.88				
20	QPSK	850	49	20.82	21.09	20.93				
20	QPSK	900	0	20.91	21.04	20.82				
20	QPSK	900	24	20.88	20.99	20.88				
20	QPSK	900	49	20.82	21.09	20.93				
20	QPSK	950	0	20.91	21.04	20.82				
20	QPSK	950	24	20.88	20.99	20.88				
20	QPSK	950	49	20.82	21.09	20.93				
20	QPSK	1000	0	20.91	21.04	20.82				
20	QPSK	1000	24	20.88	20.99	20.88				
20	QPSK	1000	49	20.82	21.09	20.93				



Band 12 Default Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up Int. (sec)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.84	22.82	22.79			
10	QPSK	1	25	22.78	22.81	22.84			
10	QPSK	1	49	22.80	22.88	22.82			
10	QPSK	25	0	22.83	22.82	22.79			
10	QPSK	25	12	22.80	22.82	22.81			
10	QPSK	25	25	22.86	22.80	22.83			
10	QPSK	50	0	22.85	22.77	22.82			
10	16QAM	0	0	22.84	22.72	22.80			
10	16QAM	1	25	22.84	22.59	22.58			
10	16QAM	1	49	22.84	22.55	22.46			
10	16QAM	25	0	22.85	22.51	22.41			
10	16QAM	25	12	22.82	22.43	22.28			23.5
10	16QAM	25	25	22.80	22.25	22.28			
10	16QAM	50	0	22.82	22.27	22.28			
10	16QAM	50	0	22.84	22.27	22.28			
10	84QAM	1	0	22.28	22.41	22.29			
10	84QAM	1	25	22.14	22.25	22.19			
10	84QAM	1	49	22.10	22.20	22.15			
10	84QAM	25	0	21.54	21.67	21.59			
10	84QAM	25	12	21.44	21.36	21.31			
10	84QAM	25	25	21.39	21.54	21.44			
10	84QAM	50	0	21.43	21.54	21.41			
10	256QAM	1	25	19.33	19.40	19.38			
10	256QAM	1	49	19.30	19.33	19.28			
10	256QAM	25	0	19.36	19.45	19.46			
10	256QAM	25	12	19.29	19.34	19.30			
10	256QAM	25	25	19.20	19.33	19.22			
10	256QAM	50	0	19.23	19.25	19.20			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.77	22.80	22.74			
5	QPSK	1	25	22.82	22.80	22.84			
5	QPSK	1	49	22.47	22.54	22.47			
5	QPSK	12	0	22.50	22.75	22.58			
5	QPSK	12	7	22.45	22.65	22.45			
5	QPSK	12	13	22.53	22.45	22.51			
5	QPSK	25	0	22.56	22.40	22.56			
5	16QAM	1	0	22.82	22.62	22.48			
5	16QAM	1	12	22.50	22.48	22.47			
5	16QAM	1	24	22.53	22.50	22.46			
5	16QAM	12	0	22.30	22.47	22.28			
5	16QAM	12	7	22.28	22.33	22.19			23.5
5	16QAM	12	13	22.32	22.27	22.16			
5	16QAM	25	0	22.31	22.34	22.19			
5	84QAM	1	0	22.15	22.30	22.22			
5	84QAM	1	25	22.04	22.10	22.06			
5	84QAM	1	49	21.96	22.07	22.07			
5	84QAM	12	0	21.48	21.63	21.41			
5	84QAM	12	7	21.54	21.63	21.44			
5	84QAM	12	13	21.20	21.32	21.33			
5	84QAM	25	0	21.33	21.48	21.34			
5	256QAM	1	25	19.35	19.45	19.45			
5	256QAM	1	49	19.31	19.31	19.29			
5	256QAM	25	0	19.32	19.27	19.27			
5	256QAM	25	13	19.27	19.27	19.21			
5	256QAM	25	25	19.20	19.33	19.22			
5	256QAM	50	0	19.13	19.31	19.12			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.75	22.83	22.75			
3	QPSK	1	14	22.53	22.54	22.57			
3	QPSK	8	0	22.49	22.70	22.67			
3	QPSK	8	7	22.51	22.61	22.48			
3	QPSK	8	7	22.49	22.49	22.57			
3	16QAM	1	0	22.84	22.60	22.48			
3	16QAM	1	8	22.30	22.50	22.47			
3	16QAM	1	8	22.48	22.48	22.48			
3	16QAM	8	0	22.38	22.45	22.38			
3	16QAM	8	0	22.26	22.44	22.28			
3	16QAM	8	4	22.23	22.37	22.16			23.5
3	16QAM	8	7	22.22	22.30	22.30			
3	16QAM	15	0	22.23	22.30	22.19			
3	84QAM	1	0	22.23	22.28	22.17			
3	84QAM	1	8	22.02	22.10	22.00			
3	84QAM	1	14	22.02	22.10	22.04			
3	84QAM	8	0	21.45	21.61	21.40			
3	84QAM	8	4	21.40	21.40	21.37			
3	84QAM	8	7	21.38	21.38	21.33			
3	84QAM	15	0	21.37	21.50	21.31			
3	256QAM	1	0	19.28	19.41	19.36			
3	256QAM	1	8	19.28	19.31	19.24			
3	256QAM	1	14	19.23	19.30	19.21			
3	256QAM	8	0	19.18	19.40	19.28			
3	256QAM	8	4	19.18	19.22	19.18			
3	256QAM	8	7	19.08	19.22	19.07			
3	256QAM	15	0	19.18	19.40	19.14			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	22.75	22.83	22.75			
1.4	QPSK	1	3	22.65	22.67	22.51			
1.4	QPSK	1	5	22.48	22.67	22.63			
1.4	QPSK	3	0	22.60	22.67	22.67			
1.4	QPSK	3	1	22.54	22.55	22.56			
1.4	QPSK	3	3	22.44	22.54	22.67			
1.4	16QAM	1	0	22.63	22.73	22.56			
1.4	16QAM	1	3	22.50	22.62	22.56			
1.4	16QAM	1	3	22.49	22.46	22.50			
1.4	16QAM	3	0	22.40	22.48	22.43			
1.4	16QAM	3	0	22.47	22.60	22.56			
1.4	16QAM	3	1	22.49	22.45	22.47			
1.4	16QAM	3	3	22.37	22.48	22.40			
1.4	16QAM	6	0	22.17	22.30	22.14			23.5
1.4	84QAM	1	0	22.33	22.41	22.29			
1.4	84QAM	1	3	22.22	22.40	22.17			
1.4	84QAM	1	5	22.13	22.33	22.16			
1.4	84QAM	3	0	22.05	22.21	22.09			
1.4	84QAM	3	1	21.99	22.18	22.06			
1.4	84QAM	3	3	22.22	22.28	22.16			
1.4	84QAM	6	0	21.46	21.60	21.41			
1.4	256QAM	1	0	19.29	19.47	19.32			
1.4	256QAM	1	3	19.21	19.31	19.24			
1.4	256QAM	1	5	19.22	19.27	19.22			
1.4	256QAM	3	0	19.18	19.37	19.34			
1.4	256QAM	3	1	19.16	19.21	19.24			
1.4	256QAM	3	3	19.15	19.24	19.09			
1.4	256QAM	6	0	19.17	19.35	19.18			

Band 13 Default Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up Int. (sec)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.07	22.07	22.07			
10	QPSK	1	25	22.04	22.04	22.04			
10	QPSK	1	49	22.92	22.92	22.92			
10	QPSK	25	0	22.96	22.96	22.96			
10	QPSK	25	12	22.96	22.96	22.96			
10	QPSK	25	25	22.82	22.82	22.82			
10	QPSK	50	0	22.85	22.85	22.85			
10	16QAM	1	0	22.86	22.86	22.86			
10	16QAM	1	25	22.88	22.88	22.88			
10	16QAM	1	49	22.79	22.79	22.79			
10	16QAM	25	0	22.41	22.41	22.41			
10	16QAM	25	12	22.52	22.52	22.52			
10	16QAM	25	25	22.94	22.94	22.94			
10	16QAM	50	0	22.70	22.70	22.70			
10	84QAM	1	0	22.82	22.82	22.82			
10	84QAM	1	25	22.41	22.41	22.41			
10	84QAM	1	49	22.46	22.46	22.46			
10	84QAM	25	0	21.91	21.91	21.91			
10	84QAM	25	12	21.77	21.77	21.77			
10	84QAM	25	25	21.67	21.67	21.67			
10	84QAM	50	0	21.77	21.77	21.77			
10	256QAM	1	25	19.62	19.62	19.62			
10	256QAM	1	49	19.65	19.65	19.65			
10	256QAM	25	0	19.69	19.69	19.69			
10	256QAM	25	12	19.58	19.58				



Band 25 Default Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Time-up limit (min)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.16	23.21	23.18				
20	QPSK	1	49	23.03	23.03	23.03	24	0		
20	QPSK	1	99	22.97	23.01	23.03				
20	QPSK	50	0	23.00	23.15	23.05				
20	QPSK	24	0	22.85	23.03	22.95				
20	QPSK	50	50	22.88	22.99	22.88	24	0		
20	QPSK	100	0	22.91	23.01	22.92				
20	HQAM	1	0	22.98	23.09	22.99				
20	HQAM	1	49	22.94	22.99	22.95	24	0		
20	HQAM	1	99	22.81	22.87	22.80				
20	HQAM	50	0	22.79	22.93	22.83				
20	HQAM	50	24	22.75	22.80	22.75	23.5	0.5		
20	HQAM	50	50	22.81	22.72	22.70				
20	HQAM	100	0	22.82	22.98	22.81				
20	HQAM	1	0	22.86	23.05	22.91				
20	HQAM	1	49	22.79	22.96	22.87	23.5	0.5		
20	HQAM	50	0	21.82	21.95	21.79				
20	HQAM	50	24	21.78	21.79	21.74	22.5	1.5		
20	HQAM	50	50	21.73	21.82	21.72				
20	HQAM	100	0	21.69	21.86	21.64				
20	SSQAM	1	0	19.68	19.74	19.69				
20	SSQAM	1	49	19.79	19.90	19.83	20.5	3.5		
20	SSQAM	1	99	19.77	19.85	19.78				
20	SSQAM	50	0	19.78	19.87	19.87				
20	SSQAM	50	24	19.77	19.90	19.74	20.5	3.5		
20	SSQAM	50	50	19.70	19.74	19.71				
20	SSQAM	100	0	19.62	19.74	19.65				
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.05	23.13	23.04				
15	QPSK	1	37	22.90	22.90	22.90	24	0		
15	QPSK	1	74	22.84	22.90	22.87				
15	QPSK	36	0	22.84	23.01	22.95				
15	QPSK	20	0	22.82	22.98	22.88	24	0		
15	QPSK	36	36	22.84	22.95	22.75				
15	QPSK	75	0	22.81	22.98	22.79				
15	HQAM	1	0	22.82	22.98	22.84				
15	HQAM	1	37	22.77	22.87	22.85	24	0		
15	HQAM	1	74	22.70	22.76	22.70				
15	HQAM	36	0	22.70	22.81	22.75	23.5	0.5		
15	HQAM	36	20	22.68	22.66	22.62				
15	HQAM	36	36	22.79	22.85	22.77				
15	HQAM	75	0	22.49	22.63	22.55				
15	HQAM	1	0	22.74	22.80	22.77	23.5	0.5		
15	HQAM	37	0	22.73	22.85	22.82	23.5	0.5		
15	HQAM	1	74	22.70	22.85	22.75				
15	HQAM	36	0	21.74	21.85	21.85				
15	HQAM	36	20	21.73	21.88	21.72	22.5	1.5		
15	HQAM	36	36	21.68	21.70	21.59				
15	HQAM	75	0	21.56	21.54	21.60				
15	SSQAM	1	0	19.76	19.86	19.85				
15	SSQAM	1	37	19.75	19.79	19.79	20.5	3.5		
15	SSQAM	1	74	19.67	19.70	19.73				
15	SSQAM	50	0	19.78	19.83	19.87				
15	SSQAM	50	24	19.69	19.87	19.80	20.5	3.5		
15	SSQAM	50	36	19.67	19.70	19.61				
15	SSQAM	75	0	19.65	19.65	19.65				
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.03	23.09	23.00				
10	QPSK	1	25	22.94	22.92	22.98	24	0		
10	QPSK	1	49	22.90	22.95	22.90				
10	QPSK	25	0	22.87	22.90	22.83	24	0		
10	QPSK	25	12	22.87	22.80	22.83				
10	QPSK	25	25	22.84	22.85	22.71				
10	HQAM	1	0	22.90	22.95	22.83				
10	HQAM	1	25	22.81	22.91	22.88	24	0		
10	HQAM	1	49	22.68	22.76	22.68				
10	HQAM	25	0	22.74	22.80	22.75				
10	HQAM	25	12	22.62	22.68	22.67	23.5	0.5		
10	HQAM	25	25	22.62	22.60	22.54				
10	HQAM	50	0	22.62	22.91	22.85				
10	HQAM	1	25	22.61	22.88	22.65	23.5	0.5		
10	HQAM	1	49	22.72	22.76	22.71				
10	HQAM	25	0	21.79	21.84	21.88				
10	HQAM	25	12	21.79	21.76	21.81	22.5	1.5		
10	HQAM	25	25	21.66	21.77	21.61				
10	HQAM	50	0	21.62	21.56	21.52				
10	SSQAM	1	0	19.78	19.84	19.81				
10	SSQAM	1	25	19.68	19.75	19.72	20.5	3.5		
10	SSQAM	1	49	19.74	19.73	19.68				
10	SSQAM	50	0	19.83	19.81	19.87				
10	SSQAM	50	12	19.71	19.83	19.68	20.5	3.5		
10	SSQAM	25	25	19.65	19.61	19.60				
10	SSQAM	50	0	19.65	19.67	19.63	20.5	3.5		
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.12	23.07	23.15				
5	QPSK	1	12	22.95	22.92	23.03	24	0		
5	QPSK	1	24	22.88	22.90	22.95				
5	QPSK	12	0	22.88	23.04	22.94				
5	QPSK	12	7	22.88	23.00	22.84	24	0		
5	QPSK	12	13	22.77	22.88	22.79				
5	QPSK	25	0	22.77	22.81	22.86				
5	HQAM	1	0	22.88	23.04	22.88				
5	HQAM	1	12	22.88	22.90	22.87	24	0		
5	HQAM	1	24	22.87	22.77	22.73				
5	HQAM	12	0	22.70	22.84	22.73				
5	HQAM	12	7	22.71	22.70	22.63	23.5	0.5		
5	HQAM	12	13	22.61	22.60	22.56				
5	HQAM	25	0	22.65	22.62	22.61				
5	HQAM	1	0	22.78	22.98	22.88	23.5	0.5		
5	HQAM	1	12	22.71	22.82	22.81				
5	HQAM	1	24	22.85	22.69	22.78				
5	HQAM	12	0	21.78	21.84	21.70				
5	HQAM	12	7	21.79	21.65	21.70	22.5	1.5		
5	HQAM	12	13	21.68	21.79	21.68				
5	HQAM	25	0	21.60	21.54	21.60				
5	SSQAM	1	0	19.75	19.86	19.86				
5	SSQAM	1	12	19.71	19.82	19.75	20.5	3.5		
5	SSQAM	1	24	19.68	19.76	19.74				
5	SSQAM	12	0	19.78	19.85	19.84				
5	SSQAM	12	7	19.68	19.78	19.59	20.5	3.5		
5	SSQAM	12	13	19.61	19.64	19.64				
5	SSQAM	25	0	19.57	19.64	19.54				
Channel										
Frequency (MHz)										
3	QPSK	1	0	23.10	23.15	23.13				
3	QPSK	1	8	22.86	22.95	22.86	24	0		
3	QPSK	1	14	22.94	22.93	22.90				
3	QPSK	8	0	22.84	23.05	22.95				
3	QPSK	8	4	22.80	22.97	22.81	24	0		
3	QPSK	8	7	22.75	22.86	22.78				
3	QPSK	15	0	22.83	22.98	22.80				
3	HQAM	1	0	22.84	23.02	22.85				
3	HQAM	1	8	22.89	22.86	22.87	24	0		
3	HQAM	1	14	22.77	22.75	22.66				
3	HQAM	8	0	22.66	22.65	22.67	23.5	0.5		
3	HQAM	8	7	22.67	22.68	22.60				
3	HQAM	15	0	22.48	22.60	22.53				
3	HQAM	1	0	22.75	22.92	22.81	23.5	0.5		
3	HQAM	1	14	22.65	22.72	22.69				
3	HQAM	8	0	21.78	21.87	21.84				
3	HQAM	8	4	21.67	21.68	21.62	22.5	1.5		
3	HQAM	8	7	21.61	21.74	21.57				
3	SSQAM	1	0	19.75	19.86	19.85				
3	SSQAM									



Band 66 DSI3_Simultaneous Ant 0										
BM [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)										
20	QPSK	1	0	21.14	21.28	21.20				
20	QPSK	1	49	21.07	21.18	21.21	22.5	0		
20	QPSK	1	99	21.00	21.13	21.08				
20	QPSK	50	0	21.03	21.20	21.04				
20	QPSK	50	24	20.99	21.04	20.95				
20	QPSK	50	50	21.05	21.08	21.03	22.5	0		
20	QPSK	100	0	20.94	21.08	20.91				
20	HQAM	100	0	21.17	20.98	20.99				
20	HQAM	1	49	21.00	20.98	20.92	22.5	0		
20	HQAM	1	99	20.99	20.97	20.88				
20	HQAM	50	0	20.98	21.00	20.95				
20	HQAM	50	24	20.91	21.09	20.98	22.5	0		
20	HQAM	50	50	20.96	21.07	21.00				
20	HQAM	100	0	20.91	20.99	21.00				
20	HQAM	1	0	20.83	21.18	20.90				
20	HQAM	1	49	20.94	20.98	21.00	22.5	0		
20	HQAM	1	99	20.85	21.00	21.01				
20	HQAM	50	0	20.93	21.14	20.93				
20	HQAM	50	24	20.92	21.03	20.89	22.5	0		
20	HQAM	50	50	20.98	21.00	20.97				
20	HQAM	100	0	20.91	20.97	20.92				
20	SSBQAM	1	0	18.86	18.97	18.83				
20	SSBQAM	1	49	18.89	18.92	18.84	20.5	2		
20	SSBQAM	1	99	18.81	18.84	18.83				
20	SSBQAM	50	0	18.78	18.86	18.80				
20	SSBQAM	50	24	18.78	18.80	18.74	20.5	2		
20	SSBQAM	50	50	18.80	18.77	18.73				
20	SSBQAM	100	0	18.77	18.78	18.73				
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.99	21.23	21.16				
15	QPSK	1	37	20.92	21.07	20.88	22.5	0		
15	QPSK	1	74	20.97	21.02	20.99				
15	QPSK	36	0	20.99	21.09	21.00				
15	QPSK	36	24	20.89	20.96	20.92	22.5	0		
15	QPSK	36	36	20.96	21.01	20.99				
15	HQAM	75	0	20.98	20.98	20.88				
15	HQAM	1	0	21.06	20.86	20.86				
15	HQAM	1	37	20.91	20.91	20.87	22.5	0		
15	HQAM	1	74	20.86	21.07	20.88				
15	HQAM	36	0	20.88	21.00	20.88				
15	HQAM	36	24	20.87	20.95	20.89	22.5	0		
15	HQAM	36	36	20.84	20.97	20.87				
15	HQAM	75	0	20.81	20.94	20.86				
15	HQAM	1	0	20.90	21.11	20.81	22.5	0		
15	HQAM	1	37	20.85	20.98	20.87				
15	HQAM	1	74	20.80	20.90	20.92				
15	HQAM	36	0	20.87	21.02	20.88	22.5	0		
15	HQAM	36	24	20.87	20.98	20.88				
15	HQAM	36	36	20.78	20.90	20.87				
15	HQAM	75	0	20.76	20.82	20.88				
15	SSBQAM	1	0	18.78	18.86	18.80				
15	SSBQAM	1	37	18.82	18.85	18.78	20.5	2		
15	SSBQAM	1	74	18.75	18.79	18.77				
15	SSBQAM	50	0	18.80	18.86	18.80				
15	SSBQAM	50	24	18.73	18.73	18.60	20.5	2		
15	SSBQAM	50	36	18.58	18.89	18.63				
15	SSBQAM	75	0	18.63	18.63	18.58				
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.11	21.19	21.40				
10	QPSK	1	25	21.02	21.13	20.90	22.5	0		
10	QPSK	1	49	20.91	20.98	21.02				
10	QPSK	25	0	20.86	21.07	20.88				
10	QPSK	25	12	20.88	21.00	20.83	22.5	0		
10	QPSK	25	25	20.97	20.97	20.91				
10	HQAM	100	0	20.84	20.86	20.87				
10	HQAM	1	0	21.08	20.90	20.95	22.5	0		
10	HQAM	1	25	20.94	20.92	20.86				
10	HQAM	1	49	20.84	20.98	20.88				
10	HQAM	25	0	20.85	21.00	20.90				
10	HQAM	25	12	20.83	21.05	20.88	22.5	0		
10	HQAM	25	25	20.96	21.02	21.07				
10	HQAM	50	0	20.87	20.88	20.88				
10	HQAM	1	0	20.73	21.07	20.85	22.5	0		
10	HQAM	1	25	20.78	20.93	20.88				
10	HQAM	1	49	20.71	20.90	20.91				
10	HQAM	25	0	20.80	21.00	20.86	22.5	0		
10	HQAM	25	12	20.86	21.07	20.85				
10	HQAM	25	25	20.77	20.96	20.92				
10	HQAM	50	0	20.94	20.82	20.86				
10	SSBQAM	1	0	18.78	18.86	18.81				
10	SSBQAM	1	25	18.79	18.82	18.80	20.5	2		
10	SSBQAM	1	49	18.75	18.76	18.77				
10	SSBQAM	25	0	18.71	18.87	18.74				
10	SSBQAM	25	12	18.75	18.81	18.63	20.5	2		
10	SSBQAM	25	25	18.50	18.85	18.62				
10	SSBQAM	50	0	18.63	18.67	18.63				
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.25	21.26	21.45				
5	QPSK	1	12	21.03	21.13	20.87	22.5	0		
5	QPSK	1	24	20.93	21.07	20.94				
5	QPSK	12	0	20.86	21.07	20.84				
5	QPSK	12	7	20.90	20.92	20.91	22.5	0		
5	QPSK	12	13	20.95	20.96	20.87				
5	QPSK	25	0	20.82	20.98	20.81				
5	HQAM	1	0	21.10	20.93	20.89	22.5	0		
5	HQAM	1	12	20.92	20.83	20.78				
5	HQAM	1	24	21.03	20.86	20.81				
5	HQAM	12	0	20.92	21.07	20.88	22.5	0		
5	HQAM	12	7	20.84	20.98	20.90				
5	HQAM	12	13	20.91	20.93	21.00				
5	HQAM	25	0	20.80	20.92	20.89				
5	HQAM	1	0	20.75	21.09	20.86	22.5	0		
5	HQAM	1	12	20.86	20.94	20.89				
5	HQAM	1	24	20.74	20.88	20.87				
5	HQAM	12	0	20.86	21.10	20.87	22.5	0		
5	HQAM	12	7	20.82	20.93	20.82				
5	HQAM	12	13	20.78	20.95	20.88				
5	HQAM	25	0	20.83	20.86	20.86				
5	SSBQAM	1	0	18.78	18.91	18.86				
5	SSBQAM	1	12	18.77	18.84	18.80	20.5	2		
5	SSBQAM	1	24	18.71	18.76	18.78				
5	SSBQAM	12	0	18.72	18.83	18.71				
5	SSBQAM	12	7	18.71	18.72	18.68	20.5	2		
5	SSBQAM	12	13	18.65	18.86	18.61				
5	SSBQAM	25	0	18.62	18.61	18.61				
Channel										
Frequency (MHz)										
3	QPSK	1	0	21.04	21.24	21.15				
3	QPSK	1	8	20.84	21.04	20.95	22.5	0		
3	QPSK	1	14	20.89	21.06	21.00				
3	QPSK	8	0	20.84	21.05	20.90				
3	QPSK	8	4	20.84	20.90	20.85	22.5	0		
3	QPSK	8	7	21.02	21.03	20.84				
3	HQAM	15	0	20.82	20.97	20.87				
3	HQAM	1	0	21.03	20.86	20.84	22.5	0		
3	HQAM	1	8	20.97	20.91	20.83				
3	HQAM	1	14	20.94	20.93	20.85				
3	HQAM	8	0	20.86	21.04	20.91	22.5	0		
3	HQAM	8	4	20.84	21.00	20.84				
3	HQAM	8	7	20.91	21.01	20.95				
3	HQAM	15	0	20.86	20.88	20.87				
3	HQAM	1	0	20.69	21.01	20.78	22.5	0		
3	HQAM	1	4	20.88	20.92	20.80				
3	HQAM	1	14	20.78	20.90	20.88				
3	HQAM	8	0	20.85	21.08	20.80	22.5	0		
3	HQAM	8	4	20.81	20.96	20.85				
3	HQAM	8	7	20.77	20.90	20.85				
3	HQAM	15	0	20.86	20.86	20.86				
3	SSBQAM	1	0	18.75	18.90	18.84				
3	SSBQAM	1	8	18.85	18.86	18.79	20.5	2		
3	SSBQAM	1	14	18.74	18.81	18.79				
3	SSBQAM	8	0	18.69	18.82	18.73				
3	SSBQAM	8	4	18.75	18.75	18.68	20.5	2		
3	SSBQAM	8	7	18.68	18.73	18.60				
3	SSBQAM	15	0	18.58	18.60	18.62				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	21.02	21.21	21.13				
1.4	QPSK	1	3	20.97	21.12	20.91	22.5	0		
1.4	QPSK	1	5	20.90	21.03	20.85				
1.4	QPSK	3	0	20.89	21.06	20.85				
1.4	QPSK	3	1	20.86	20.92	20.80	22.5	0		
1.4	QPSK	3	3	21.01	20.98	20.93				
1.4	HQAM	1	0	20.83	20.97	20.82	22.5	0		
1.4	HQAM	1	0	21.07	20.87	20.83				
1.4	HQAM	1	3	20.85	20.86	20.86	22.5	0		



Band 38 DS13_Simultaneous Ant 0

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				38750	36000	38150		
Frequency (MHz)								
20	QPSK	1	0	19.96	20.00	20.00		
20	QPSK	1	49	19.91	20.02	19.87	20.6	0
20	QPSK	50	24	19.95	19.91	19.94		
20	QPSK	50	0	19.90	20.00	19.80		
20	QPSK	50	24	19.85	19.85	19.81	20.6	0
20	QPSK	100	0	19.89	19.92	19.71		
20	HQAM	1	0	19.97	19.78	19.77	20.6	0
20	HQAM	1	49	19.96	19.84	19.69		
20	HQAM	1	99	19.82	19.73	19.74		
20	HQAM	50	0	19.77	19.89	19.76		
20	HQAM	50	24	19.73	20.85	19.72	20.6	0
20	HQAM	50	50	19.78	19.94	19.96		
20	HQAM	100	0	19.72	19.84	19.75		
20	HQAM	100	0	19.67	19.95	19.67		
20	HQAM	1	49	19.81	19.84	19.78	20.6	0
20	HQAM	1	99	19.83	19.80	19.85		
20	HQAM	50	0	19.88	20.04	19.85		
20	HQAM	50	24	19.83	19.90	19.89		
20	HQAM	50	50	19.82	19.86	19.83	20.5	0.1
20	HQAM	100	0	19.86	19.88	19.79		
20	SSBAM	1	0	17.91	18.08	17.94		
20	SSBAM	1	49	17.90	18.05	17.94	19.5	1.1
20	SSBAM	1	99	17.86	17.85	17.87		
20	SSBAM	50	0	17.96	18.09	17.97		
20	SSBAM	50	24	17.90	17.95	17.90		
20	SSBAM	50	50	17.77	17.87	17.81	19.5	1.1
20	SSBAM	100	0	17.93	18.03	17.94		
Channel								
Frequency (MHz)				21723	20000	20175	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	20.99	20.95	20.94		
15	QPSK	1	37	19.78	19.84	19.76	20.6	0
15	QPSK	1	74	19.74	19.80	19.82		
15	QPSK	36	0	19.74	19.95	19.74		
15	QPSK	36	20	19.70	19.71	19.68	20.6	0
15	QPSK	36	39	19.65	19.80	19.65		
15	QPSK	75	0	19.65	19.88	19.57		
15	HQAM	1	0	19.91	19.74	19.74	20.6	0
15	HQAM	1	37	19.78	19.86	19.85		
15	HQAM	1	74	19.73	19.83	19.88		
15	HQAM	36	0	19.70	19.75	19.68		
15	HQAM	36	20	19.60	19.71	19.63	20.6	0
15	HQAM	36	39	19.73	19.90	19.83		
15	HQAM	75	0	19.64	19.70	19.67		
15	HQAM	75	0	19.69	19.86	19.52		
15	HQAM	1	37	19.74	19.73	19.87	20.6	0
15	HQAM	1	74	19.66	19.64	19.80		
15	HQAM	36	0	19.71	19.81	19.81		
15	HQAM	36	20	19.73	19.86	19.85	20.5	0.1
15	HQAM	36	39	19.73	19.78	19.78		
15	HQAM	75	0	19.75	19.85	19.59		
15	SSBAM	1	0	17.78	17.97	17.88	19.5	1.1
15	SSBAM	1	37	17.94	17.94	17.92		
15	SSBAM	1	74	17.72	17.82	17.72		
15	SSBAM	36	0	17.83	18.00	17.92		
15	SSBAM	36	20	17.82	17.82	17.82	19.5	1.1
15	SSBAM	36	39	17.64	17.77	17.71		
15	SSBAM	75	0	17.79	17.96	17.84		
Channel								
Frequency (MHz)				23723	20000	20175	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	19.83	19.87	19.87		
10	QPSK	1	25	19.87	19.91	19.78	20.6	0
10	QPSK	1	49	19.72	19.83	19.86		
10	QPSK	12	0	19.87	19.82	19.74		
10	QPSK	25	12	19.71	19.70	19.74	20.6	0
10	QPSK	25	25	19.81	19.77	19.69		
10	HQAM	1	0	19.88	19.83	19.83	20.6	0
10	HQAM	1	25	19.70	19.80	19.83		
10	HQAM	1	49	19.78	19.95	19.68		
10	HQAM	25	0	19.72	19.82	19.67		
10	HQAM	25	12	19.70	19.70	19.66	20.6	0
10	HQAM	25	25	19.73	19.83	19.59		
10	HQAM	1	0	19.83	19.74	19.67		
10	HQAM	1	0	19.83	19.81	19.83		
10	HQAM	1	25	19.71	19.80	19.71	20.6	0
10	HQAM	1	49	19.67	19.86	19.75		
10	HQAM	25	0	19.81	20.00	19.81		
10	HQAM	25	12	19.71	19.85	19.76		
10	HQAM	25	25	19.74	19.71	19.75		
10	HQAM	50	0	19.80	19.83	19.72		
10	SSBAM	1	0	17.81	18.03	17.84		
10	SSBAM	1	25	17.72	17.97	17.86	19.5	1.1
10	SSBAM	1	49	17.71	17.70	17.74		
10	SSBAM	25	0	17.84	17.83	17.84		
10	SSBAM	25	12	17.86	17.81	17.85		
10	SSBAM	25	25	17.69	17.82	17.69	19.5	1.1
10	SSBAM	50	0	17.85	17.88	17.84		
Channel								
Frequency (MHz)				25723	20000	20175	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	19.83	20.01	19.95		
5	QPSK	1	19	19.83	19.91	19.83	20.6	0
5	QPSK	1	24	19.78	19.86	19.88		
5	QPSK	12	0	19.77	19.96	19.88		
5	QPSK	12	7	19.78	19.80	19.88	20.6	0
5	QPSK	12	19	19.82	19.80	19.77		
5	HQAM	1	0	19.88	19.82	19.67		
5	HQAM	1	12	19.69	19.73	19.59	20.6	0
5	HQAM	1	24	19.70	19.81	19.86		
5	HQAM	12	0	19.80	19.81	19.82		
5	HQAM	12	7	19.83	19.81	19.82	20.6	0
5	HQAM	12	13	19.72	19.80	19.85		
5	HQAM	25	0	19.69	19.76	19.66		
5	HQAM	25	0	19.84	19.88	19.81	20.6	0
5	HQAM	25	7	19.75	19.76	19.71		
5	HQAM	12	13	19.72	19.78	19.71	20.5	0.1
5	HQAM	25	0	19.80	19.76	19.66		
5	SSBAM	1	0	17.83	18.01	17.80		
5	SSBAM	1	12	17.74	18.03	17.82	19.5	1.1
5	SSBAM	1	24	17.74	17.70	17.78		
5	SSBAM	12	7	17.79	17.86	17.86	19.5	1.1
5	SSBAM	12	13	17.70	17.81	17.70		
5	SSBAM	25	0	17.87	17.89	17.89		

Band 41 FCC&IC DS13_Simultaneous Ant 0

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40565		
Frequency (MHz)								
20	QPSK	1	0	19.93	19.82	19.99		
20	QPSK	1	49	19.37	19.52	19.52	20.6	0
20	QPSK	1	99	19.28	19.22	19.49		
20	QPSK	50	0	19.40	19.53	19.61	19.49	19.34
20	QPSK	50	24	19.32	19.45	19.49	19.21	19.41
20	QPSK	50	49	19.21	19.26	19.31	19.14	19.18
20	QPSK	100	0	19.29	19.43	19.50	19.35	19.32
20	HQAM	1	0	19.97	19.23	19.44	19.03	19.20
20	HQAM	1	49	19.96	19.16	19.21	19.09	19.14
20	HQAM	1	99	19.17	19.17	19.30	19.12	19.06
20	HQAM	50	0	19.07	19.45	19.52	19.45	19.33
20	HQAM	50	24	19.15	19.25	19.38	19.04	19.20
20	HQAM	50	50	19.10	19.21	19.25	19.08	19.08
20	HQAM	100	0	19.08	19.20	19.25	19.00	19.01
20	HQAM	1	0	19.41	19.57	19.52	19.52	19.50
20	HQAM	1	49	19.36	19.50	19.47	19.14	19.37
20	HQAM	1	99	19.25	19.21	19.29	19.11	19.08
20	HQAM	50	0	19.30	19.45	19.53	19.44	19.31
20	HQAM	50	24	19.21	19.30	19.43	19.08	19.19
20	HQAM	50	50	19.13	19.13	19.19	19.10	19.08
20	HQAM	100	0	19.10	19.16	19.24	19.00	19.06
20	SSBAM	1	0	18.24	18.20	18.37	18.24	18.23
20	SSBAM	1	49	18.27	18.18	18.37	18.15	18.24
20	SSBAM	1	99	18.10	18.08	18.23	18.15	18.16
20	SSBAM	50	0	18.14	18.14	18.27	18.19	18.19
20	SSBAM	50	24	18.19	18.14	18.24	18.10	18.14
20	SSBAM	50	50	18.12	18.05	18.20	18.00	18.10
20	SSBAM	100	0	18.14	18.05	18.10	18.07	18.17
Channel								
Frequency (MHz)				39750	40173	40565	Tune-up limit (dBm)	MPR (dB)
16	QPSK	1	0	20.03	20.03	20.03	20.73	20.62
16	QPSK	1	37	19.82	19.45	19.41	19.21	19.39
16	QPSK	1	74	19.19	19.24	19.26	19.10	19.10
16	QPSK	36	0	19.34	19.43	19.43	19.43	19.20
16	QPSK	36	20	19.22	19.40	19.36	19.17	19.30
16	QPSK	36	39	19.18	19.28	19.28	19.18	19.28
16	QPSK	75	0	19.18	19.34	19.33	19.27	19.23
16	HQAM	1	0	19.10	19.24	19.36	18.94	19.25
16	HQAM	1	37	19.00	19.26	19.32	19.12	19.28
16	HQAM	1	74	19.00	19.00	19.25	19.00	19.00
16	HQAM	36	0	19.14	19.40	19.40	19.36	19.21
16	HQAM	36	20	19.08	19.25	19.32	19.05	19.19
16	HQAM	36	39	19.04	19.13	19.19	18.95	19.01
16	HQAM	75	0	19.00	19.13	19.11	19.05	18.98
16	HQAM	75	0	19.07	19.47	19.51	19.38	19.23
16	HQAM	1	37	19.18	19.45	19.41	19.03	19.26
16	HQAM	1	74	19.19	19.06	19.20	19.03	19.04
16	HQAM	36	0	19.16	19.14	19.42	19.17	19.23
16	HQAM	36						



Band 41 PC2 FCC&IC DS13_Simultaneous Ant 0											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up Int (dBm)	MPR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	20.96	20.99	21.13	20.99	20.96	20.99	22.2	0
20	QPSK	1	49	20.86	21.06	20.94	21.02	21.01	20.99		
20	QPSK	50	0	20.96	20.99	21.07	20.99	20.94	20.99		
20	QPSK	50	24	20.82	20.83	21.03	20.77	20.65	20.65	22.2	0
20	QPSK	100	0	20.96	20.99	21.04	20.97	20.92	20.92		
20	16QAM	1	0	21.13	20.97	21.08	21.06	20.99	20.99	22.2	0
20	16QAM	1	49	20.96	21.04	21.04	20.97	20.92	20.92		
20	16QAM	1	99	21.01	21.11	20.89	21.01	20.91	20.91		
20	16QAM	50	0	21.07	20.95	21.14	21.07	20.96	20.96	22.2	0
20	16QAM	50	24	20.96	20.93	21.02	20.87	20.82	20.82		
20	16QAM	50	50	20.89	20.96	20.96	20.94	20.72	20.72	22.2	0.5
20	64QAM	100	0	21.02	21.02	21.04	20.92	20.91	20.91		
20	64QAM	1	49	20.80	20.80	20.94	20.93	20.78	20.78	22.2	0
20	64QAM	1	99	20.76	20.86	20.83	20.79	20.70	20.70		
20	64QAM	50	0	20.72	20.72	20.93	20.73	20.60	20.60	22.2	0
20	64QAM	50	24	20.59	20.59	20.89	20.66	20.48	20.48		
20	64QAM	50	50	20.69	20.65	20.74	20.62	20.56	20.56	22.2	1.5
20	256QAM	100	0	20.58	20.83	20.79	20.77	20.56	20.56		
20	256QAM	1	0	20.76	20.66	20.94	20.70	20.53	20.53	22	0.2
20	256QAM	1	49	20.74	20.82	20.91	20.63	20.48	20.48		
20	256QAM	1	99	20.58	20.65	20.70	20.62	20.63	20.63		
20	256QAM	50	0	20.59	20.59	20.79	20.67	20.69	20.69	22	0.2
20	256QAM	50	24	20.54	20.45	20.56	20.52	20.33	20.33		
20	256QAM	50	50	20.40	20.46	20.53	20.47	20.32	20.32	22	0.2
20	256QAM	100	0	20.52	20.51	20.61	20.52	20.37	20.37		
Channel											
Frequency (MHz)											
15	QPSK	1	0	20.83	20.83	21.02	20.83	20.82	20.82	22.20	0
15	QPSK	1	37	20.80	20.86	20.80	20.74	20.78	20.78		
15	QPSK	1	74	20.74	20.82	20.91	20.63	20.58	20.58		
15	QPSK	36	0	20.80	20.80	21.00	20.84	20.73	20.73	22.2	0
15	QPSK	36	20	20.79	20.76	20.91	20.74	20.61	20.61		
15	QPSK	75	0	20.77	20.77	20.99	20.77	20.66	20.66	22.2	0
15	16QAM	1	0	21.01	20.84	21.02	20.93	20.86	20.86	22.2	0
15	16QAM	1	37	20.92	21.00	20.92	20.79	20.71	20.71		
15	16QAM	1	74	20.97	21.00	20.87	20.94	20.83	20.83		
15	16QAM	36	0	20.94	20.86	21.05	21.00	20.83	20.83	22.2	0
15	16QAM	36	20	20.88	20.85	20.97	20.85	20.72	20.72		
15	16QAM	36	50	20.76	20.76	20.82	20.88	20.60	20.60		
15	16QAM	75	0	20.87	20.89	21.04	20.70	20.69	20.69	22.2	0
15	64QAM	1	0	20.94	20.91	20.92	20.86	20.87	20.87		
15	64QAM	1	37	20.71	20.77	20.80	20.80	20.69	20.69	22.2	0
15	64QAM	1	74	20.76	20.79	20.81	20.67	20.66	20.66		
15	64QAM	36	0	20.89	20.85	20.89	20.84	20.66	20.66	22.2	0
15	64QAM	36	20	20.52	20.55	20.71	20.54	20.36	20.36		
15	64QAM	36	50	20.57	20.57	20.73	20.45	20.38	20.38	22.2	0.2
15	64QAM	75	0	20.52	20.58	20.73	20.55	20.40	20.40		
15	256QAM	1	0	20.74	20.65	20.89	20.68	20.44	20.44	22	0.2
15	256QAM	1	37	20.80	20.83	20.82	20.71	20.60	20.60		
15	256QAM	1	74	20.50	20.52	20.59	20.48	20.34	20.34		
15	256QAM	36	0	20.59	20.48	20.71	20.65	20.38	20.38	22	0.2
15	256QAM	36	20	20.45	20.38	20.48	20.40	20.25	20.25		
15	256QAM	36	50	20.32	20.43	20.39	20.37	20.30	20.30		
15	256QAM	75	0	20.61	20.43	20.60	20.41	20.40	20.40	22	0.2
Channel											
Frequency (MHz)											
10	QPSK	1	0	20.80	20.87	20.80	20.72	20.72	20.72	22.20	0
10	QPSK	1	25	20.78	21.01	20.83	20.74	20.75	20.75		
10	QPSK	1	49	20.83	20.76	20.85	20.63	20.54	20.54		
10	QPSK	25	0	20.86	20.80	20.87	20.80	20.79	20.79	22.2	0
10	QPSK	25	12	20.73	20.71	20.84	20.72	20.55	20.55		
10	QPSK	25	25	20.79	20.85	20.88	20.74	20.60	20.60		
10	16QAM	1	0	20.72	20.82	20.82	20.72	20.62	20.62	22.2	0
10	16QAM	1	0	21.04	20.90	21.04	21.03	20.85	20.85		
10	16QAM	1	25	20.88	21.12	21.01	20.80	20.76	20.76		
10	16QAM	1	49	20.97	21.04	21.08	20.92	20.78	20.78		
10	16QAM	25	0	21.00	20.84	21.03	20.88	20.82	20.82	22.2	0
10	16QAM	25	12	20.91	21.00	20.97	20.84	20.75	20.75		
10	16QAM	25	25	20.87	20.90	21.04	20.82	20.82	20.82		
10	64QAM	1	0	20.84	20.86	20.84	20.83	20.68	20.68	22.2	0
10	64QAM	1	25	20.77	20.84	20.88	20.80	20.72	20.72		
10	64QAM	1	49	20.83	20.81	20.87	20.68	20.58	20.58	22.2	0
10	64QAM	25	0	20.83	20.69	20.86	20.66	20.48	20.48		
10	64QAM	25	12	20.47	20.47	20.75	20.58	20.43	20.43	22.2	0
10	64QAM	25	25	20.58	20.62	20.70	20.49	20.47	20.47		
10	256QAM	1	0	20.69	20.65	20.73	20.69	20.42	20.42	22	0.2
10	256QAM	1	0	20.71	20.55	20.83	20.66	20.44	20.44		
10	256QAM	1	25	20.79	20.69	20.82	20.69	20.52	20.52		
10	256QAM	1	49	20.45	20.56	20.64	20.51	20.35	20.35	22	0.2
10	256QAM	25	0	20.57	20.45	20.68	20.53	20.37	20.37		
10	256QAM	25	12	20.64	20.50	20.44	20.48	20.36	20.36		
10	256QAM	25	25	20.35	20.35	20.44	20.42	20.23	20.23	22	0.2
10	256QAM	50	0	20.53	20.48	20.61	20.33	20.39	20.39		
Channel											
Frequency (MHz)											
5	QPSK	1	0	20.85	20.95	20.85	20.75	20.72	20.72	22.20	0
5	QPSK	1	12	20.80	20.92	20.89	20.74	20.70	20.70		
5	QPSK	1	24	20.75	20.77	20.89	20.66	20.53	20.53		
5	QPSK	12	0	20.88	20.90	20.86	20.76	20.61	20.61	22.2	0
5	QPSK	12	7	20.75	20.73	20.88	20.69	20.55	20.55		
5	QPSK	12	19	20.88	21.02	20.86	20.78	20.62	20.62		
5	QPSK	25	0	20.75	20.66	20.89	20.79	20.65	20.65	22.2	0
5	16QAM	1	0	21.07	20.86	21.05	20.93	20.88	20.88		
5	16QAM	1	12	20.96	21.07	20.94	20.75	20.75	20.75	22.2	0
5	16QAM	1	24	20.90	21.04	20.86	20.67	20.63	20.63		
5	16QAM	12	0	20.96	20.82	21.00	20.97	20.84	20.84		
5	16QAM	12	7	20.83	20.91	20.89	20.77	20.71	20.71	22.2	0
5	16QAM	12	13	20.83	20.86	20.92	20.61	20.66	20.66		
5	16QAM	25	0	20.99	20.90	21.10	20.81	20.68	20.68		
5	64QAM	1	0	20.86	20.90	20.94	20.80	20.83	20.83	22.2	0
5	64QAM	1	12	20.77	20.80	20.87	20.60	20.62	20.62		
5	64QAM	1	24	20.75	20.80	20.83	20.71	20.68	20.68		
5	64QAM	12	0	20.61	20.62	20.67	20.66	20.48	20.48	22.2	0
5	64QAM	12	7	20.56	20.48	20.72	20.63	20.39	20.39		
5	64QAM	12	13	20.64	20.58	20.66	20.52	20.50	20.50		
5	64QAM	25	0	20.41	20.54	20.66	20.68	20.50	20.50	22.2	0
5	256QAM	1	0	20.74	20.64	20.82	20.78	20.45	20.		



Band 2 Default Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power Ch./Freq.	Power Ch./Freq.	Turn-up Time (min)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.90	21.00	20.98				
20	QPSK	1	4	20.90	20.98	20.98	22	0		
20	QPSK	1	8	20.90	20.90	20.90				
20	QPSK	50	0	20.99	21.04	20.99				
20	QPSK	50	4	20.87	20.98	20.90				
20	QPSK	50	8	20.86	20.90	20.80	22	0		
20	QPSK	100	0	20.90	20.96	20.87				
20	HQAM	1	0	20.77	20.78	20.78				
20	HQAM	1	4	20.77	20.83	20.83	22	0		
20	HQAM	1	8	20.69	20.73	20.77				
20	HQAM	50	0	20.76	20.86	20.78				
20	HQAM	50	4	20.72	20.85	20.69	21.5	0.5		
20	HQAM	50	8	20.72	20.79	20.66				
20	HQAM	100	0	20.71	20.80	20.71				
20	BQAM	1	0	20.71	20.80	20.71				
20	BQAM	1	4	20.67	20.76	20.72	21.5	0.5		
20	BQAM	1	8	20.56	20.71	20.65				
20	BQAM	50	0	20.71	20.80	20.71				
20	BQAM	50	4	20.67	20.76	20.72	20.5	1.5		
20	BQAM	50	8	20.56	20.69	20.63				
20	BQAM	100	0	20.71	20.80	20.71				
20	BQAM	100	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	100	8	20.56	20.69	20.63				
20	BQAM	150	0	20.71	20.80	20.71				
20	BQAM	150	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	150	8	20.56	20.69	20.63				
20	BQAM	200	0	20.71	20.80	20.71				
20	BQAM	200	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	200	8	20.56	20.69	20.63				
20	BQAM	250	0	20.71	20.80	20.71				
20	BQAM	250	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	250	8	20.56	20.69	20.63				
20	BQAM	300	0	20.71	20.80	20.71				
20	BQAM	300	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	300	8	20.56	20.69	20.63				
20	BQAM	350	0	20.71	20.80	20.71				
20	BQAM	350	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	350	8	20.56	20.69	20.63				
20	BQAM	400	0	20.71	20.80	20.71				
20	BQAM	400	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	400	8	20.56	20.69	20.63				
20	BQAM	450	0	20.71	20.80	20.71				
20	BQAM	450	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	450	8	20.56	20.69	20.63				
20	BQAM	500	0	20.71	20.80	20.71				
20	BQAM	500	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	500	8	20.56	20.69	20.63				
20	BQAM	550	0	20.71	20.80	20.71				
20	BQAM	550	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	550	8	20.56	20.69	20.63				
20	BQAM	600	0	20.71	20.80	20.71				
20	BQAM	600	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	600	8	20.56	20.69	20.63				
20	BQAM	650	0	20.71	20.80	20.71				
20	BQAM	650	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	650	8	20.56	20.69	20.63				
20	BQAM	700	0	20.71	20.80	20.71				
20	BQAM	700	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	700	8	20.56	20.69	20.63				
20	BQAM	750	0	20.71	20.80	20.71				
20	BQAM	750	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	750	8	20.56	20.69	20.63				
20	BQAM	800	0	20.71	20.80	20.71				
20	BQAM	800	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	800	8	20.56	20.69	20.63				
20	BQAM	850	0	20.71	20.80	20.71				
20	BQAM	850	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	850	8	20.56	20.69	20.63				
20	BQAM	900	0	20.71	20.80	20.71				
20	BQAM	900	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	900	8	20.56	20.69	20.63				
20	BQAM	950	0	20.71	20.80	20.71				
20	BQAM	950	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	950	8	20.56	20.69	20.63				
20	BQAM	1000	0	20.71	20.80	20.71				
20	BQAM	1000	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	1000	8	20.56	20.69	20.63				
20	BQAM	1050	0	20.71	20.80	20.71				
20	BQAM	1050	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	1050	8	20.56	20.69	20.63				
20	BQAM	1100	0	20.71	20.80	20.71				
20	BQAM	1100	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	1100	8	20.56	20.69	20.63				
20	BQAM	1150	0	20.71	20.80	20.71				
20	BQAM	1150	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	1150	8	20.56	20.69	20.63				
20	BQAM	1200	0	20.71	20.80	20.71				
20	BQAM	1200	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	1200	8	20.56	20.69	20.63				
20	BQAM	1250	0	20.71	20.80	20.71				
20	BQAM	1250	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	1250	8	20.56	20.69	20.63				
20	BQAM	1300	0	20.71	20.80	20.71				
20	BQAM	1300	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	1300	8	20.56	20.69	20.63				
20	BQAM	1350	0	20.71	20.80	20.71				
20	BQAM	1350	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	1350	8	20.56	20.69	20.63				
20	BQAM	1400	0	20.71	20.80	20.71				
20	BQAM	1400	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	1400	8	20.56	20.69	20.63				
20	BQAM	1450	0	20.71	20.80	20.71				
20	BQAM	1450	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	1450	8	20.56	20.69	20.63				
20	BQAM	1500	0	20.71	20.80	20.71				
20	BQAM	1500	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	1500	8	20.56	20.69	20.63				
20	BQAM	1550	0	20.71	20.80	20.71				
20	BQAM	1550	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	1550	8	20.56	20.69	20.63				
20	BQAM	1600	0	20.71	20.80	20.71				
20	BQAM	1600	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	1600	8	20.56	20.69	20.63				
20	BQAM	1650	0	20.71	20.80	20.71				
20	BQAM	1650	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	1650	8	20.56	20.69	20.63				
20	BQAM	1700	0	20.71	20.80	20.71				
20	BQAM	1700	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	1700	8	20.56	20.69	20.63				
20	BQAM	1750	0	20.71	20.80	20.71				
20	BQAM	1750	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	1750	8	20.56	20.69	20.63				
20	BQAM	1800	0	20.71	20.80	20.71				
20	BQAM	1800	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	1800	8	20.56	20.69	20.63				
20	BQAM	1850	0	20.71	20.80	20.71				
20	BQAM	1850	4	20.67	20.76	20.72	18.5	3.5		
20	BQAM	1850	8	20.56						



Band 12 Default Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up freq (MHz)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.61	21.73	21.68				
10	QPSK	1	23	21.67	21.62	21.62	23	0		
10	QPSK	1	49	21.47	21.49	21.52				
10	QPSK	25	0	21.60	21.70	21.65				
10	QPSK	25	12	21.56	21.63	21.53	23	0		
10	QPSK	25	25	21.46	21.48	21.48				
10	QPSK	50	0	21.51	21.57	21.45				
10	16QAM	1	0	21.56	21.63	21.51				
10	16QAM	1	25	21.40	21.48	21.38	23	0		
10	16QAM	1	49	21.35	21.48	21.44				
10	16QAM	50	0	21.30	21.56	21.40				
10	16QAM	25	12	21.34	21.48	21.40	22.5	0.5		
10	16QAM	25	25	21.38	21.39	21.41				
10	16QAM	50	0	21.30	21.56	21.40				
10	8QAM	1	0	21.34	21.50	21.38				
10	8QAM	1	25	21.28	21.32	21.33	22.5	0.5		
10	8QAM	50	0	21.30	21.56	21.40				
10	8QAM	25	0	20.40	20.53	20.43				
10	8QAM	25	12	20.37	20.43	20.31	21.5	1.5		
10	8QAM	25	25	20.28	20.34	20.33				
10	256QAM	1	0	18.44	18.52	18.48				
10	256QAM	1	25	18.42	18.52	18.40	19.5	3.5		
10	256QAM	1	49	18.35	18.53	18.43				
10	256QAM	25	0	18.35	18.53	18.42				
10	256QAM	25	12	18.26	18.37	18.36	19.5	3.5		
10	256QAM	25	25	18.25	18.32	18.21				
10	256QAM	50	0	18.33	18.46	18.30				
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.56	21.63	21.54				
5	QPSK	1	12	21.37	21.56	21.43	23	0		
5	QPSK	1	24	21.33	21.44	21.41				
5	QPSK	12	0	21.51	21.58	21.44				
5	QPSK	12	7	21.49	21.48	21.39	23	0		
5	QPSK	12	13	21.34	21.39	21.41				
5	QPSK	25	0	21.40	21.46	21.33	23	0		
5	16QAM	1	0	21.48	21.51	21.40				
5	16QAM	1	12	21.30	21.37	21.23	23	0		
5	16QAM	1	24	21.22	21.32	21.21				
5	16QAM	12	0	21.31	21.46	21.41				
5	16QAM	12	7	21.23	21.39	21.27	22.5	0.5		
5	16QAM	12	13	21.07	21.23	21.23				
5	16QAM	25	0	21.26	21.43	21.34				
5	8QAM	1	0	21.20	21.38	21.22				
5	8QAM	1	12	21.12	21.22	21.20	22.5	0.5		
5	8QAM	1	24	21.11	21.26	21.20				
5	8QAM	12	0	20.31	20.41	20.30				
5	8QAM	12	7	20.33	20.34	20.18	21.5	1.5		
5	8QAM	12	13	20.17	20.30	20.18				
5	8QAM	25	0	20.15	20.22	20.24				
5	256QAM	1	0	18.36	18.53	18.21				
5	256QAM	1	12	18.31	18.50	18.45	19.5	3.5		
5	256QAM	1	24	18.28	18.31	18.25				
5	256QAM	12	0	18.36	18.53	18.21				
5	256QAM	12	7	18.17	18.24	18.23	19.5	3.5		
5	256QAM	12	13	18.20	18.23	18.28				
5	256QAM	25	0	18.20	18.25	18.22				
Channel										
Frequency (MHz)										
3	QPSK	1	0	21.46	21.69	21.63				
3	QPSK	1	14	21.42	21.43	21.38	23	0		
3	QPSK	8	0	21.56	21.69	21.43				
3	QPSK	8	4	21.48	21.52	21.40				
3	QPSK	8	7	21.32	21.40	21.38	23	0		
3	16QAM	1	0	21.37	21.53	21.37				
3	16QAM	1	14	21.21	21.41	21.33	23	0		
3	16QAM	1	14	21.22	21.42	21.30				
3	16QAM	8	0	21.26	21.49	21.41				
3	16QAM	8	4	21.21	21.38	21.30	22.5	0.5		
3	16QAM	8	7	21.28	21.32	21.27				
3	16QAM	15	0	21.22	21.47	21.38				
3	8QAM	1	0	21.20	21.40	21.29				
3	8QAM	1	8	21.12	21.29	21.19	22.5	0.5		
3	8QAM	1	14	21.12	21.29	21.18				
3	8QAM	8	0	20.37	20.43	20.39				
3	8QAM	8	4	20.23	20.28	20.25	21.5	1.5		
3	8QAM	8	7	20.16	20.19	20.27				
3	8QAM	15	0	20.19	20.25	20.22				
3	256QAM	1	0	18.30	18.47	18.38				
3	256QAM	1	8	18.27	18.40	18.43	19.5	3.5		
3	256QAM	1	14	18.26	18.33	18.21				
3	256QAM	8	0	18.28	18.40	18.31				
3	256QAM	8	4	18.18	18.26	18.30	19.5	3.5		
3	256QAM	8	7	18.20	18.19	18.21				
3	256QAM	15	0	18.23	18.38	18.17				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	21.46	21.69	21.65				
1.4	QPSK	1	3	21.35	21.50	21.49				
1.4	QPSK	1	5	21.40	21.44	21.45	23	0		
1.4	QPSK	3	0	21.57	21.67	21.60				
1.4	QPSK	3	1	21.48	21.59	21.39				
1.4	QPSK	3	1	21.36	21.33	21.35	23	0		
1.4	QPSK	6	0	21.39	21.50	21.30				
1.4	16QAM	1	0	21.50	21.56	21.39				
1.4	16QAM	1	3	21.34	21.40	21.33	23	0		
1.4	16QAM	1	5	21.26	21.42	21.40				
1.4	16QAM	3	0	21.28	21.46	21.39				
1.4	16QAM	3	1	21.26	21.44	21.28				
1.4	16QAM	3	3	21.23	21.37	21.35	22.5	0.5		
1.4	8QAM	1	0	21.28	21.41	21.27				
1.4	8QAM	1	9	21.13	21.21	21.18				
1.4	8QAM	1	5	21.19	21.28	21.18	22.5	0.5		
1.4	8QAM	3	0	21.23	21.38	21.32				
1.4	8QAM	3	2	21.23	21.23	21.20				
1.4	8QAM	3	3	21.10	21.22	21.17				
1.4	8QAM	6	0	20.35	20.41	20.29	21.5	1.5		
1.4	256QAM	1	0	18.37	18.49	18.44				
1.4	256QAM	1	3	18.33	18.55	18.44				
1.4	256QAM	1	5	18.29	18.28	18.24	19.5	3.5		
1.4	256QAM	3	0	18.35	18.29	18.20				
1.4	256QAM	3	1	18.14	18.20	18.24				
1.4	256QAM	3	3	18.15	18.24	18.22	19.5	3.5		
1.4	256QAM	6	0	18.27	18.20	18.10				

Band 13 Default Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up freq (MHz)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.87						
10	QPSK	1	25	21.43			23	0		
10	QPSK	1	49	21.50						
10	QPSK	25	0	21.83						
10	QPSK	25	12	21.52			23	0		
10	QPSK	25	25	21.39						
10	QPSK	50	0	21.56						
10	16QAM	1	0	21.50						
10	16QAM	1	25	21.45			23	0		
10	16QAM	1	49	21.45						
10	16QAM	50	0	21.36						
10	16QAM	25	12	21.42			22.5	0.5		
10	16QAM	25	25	21.40						
10	16QAM	50	0	21.36						
10	8QAM	1	0	21.19						
10	8QAM	1	25	21.04			22.5	0.5		
10	8QAM	1	49	21.02						
10	8QAM	50	0	21.06						
10	8QAM	25	0	20.21						
10	8QAM	25	12	20						



Band 25 Default Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.00	21.11	21.06				
20	QPSK	1	49	20.83	20.92	20.87	22	0		
20	QPSK	50	0	20.92	21.06	20.96				
20	QPSK	50	24	20.92	20.98	20.95				
20	QPSK	50	50	20.76	20.87	20.80	22	0		
20	QPSK	100	0	20.89	21.02	20.94				
20	QPSK	100	0	20.87	21.06	20.93				
20	HQAM	1	49	20.83	20.89	20.89	22	0		
20	HQAM	1	99	20.78	20.85	20.80				
20	HQAM	50	0	20.84	21.00	20.84				
20	HQAM	50	24	20.77	20.90	20.81	22	0		
20	HQAM	50	50	20.74	20.79	20.75				
20	HQAM	100	0	20.82	20.94	20.78				
20	HQAM	1	0	20.88	21.09	20.97				
20	HQAM	1	49	20.82	20.87	20.86	22	0		
20	HQAM	50	0	20.89	21.01	20.89				
20	HQAM	50	24	20.81	20.88	20.84				
20	HQAM	50	50	20.79	20.78	20.74	22	0		
20	HQAM	100	0	20.86	20.95	20.82				
20	SSQAM	1	49	17.92	18.07	17.99	19	3		
20	SSQAM	1	99	17.77	17.84	17.77				
20	SSQAM	50	0	17.86	17.99	17.89				
20	SSQAM	50	24	17.80	17.85	17.84	19	3		
20	SSQAM	50	50	17.71	17.82	17.78				
20	SSQAM	100	0	17.82	17.93	17.85				
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.89	21.07	20.96				
15	QPSK	1	37	20.76	20.81	20.76	22	0		
15	QPSK	1	74	20.76	20.84	20.75				
15	QPSK	36	0	20.83	20.94	20.91				
15	QPSK	36	20	20.80	20.77	20.77	22	0		
15	QPSK	36	36	20.62	20.75	20.74				
15	QPSK	75	0	20.80	20.88	20.86				
15	HQAM	1	0	20.80	20.88	20.86				
15	HQAM	1	37	20.77	20.83	20.79	22	0		
15	HQAM	1	74	20.66	20.67	20.66				
15	HQAM	36	0	20.71	20.96	20.71				
15	HQAM	36	20	20.71	20.86	20.74	22	0		
15	HQAM	36	36	20.62	20.81	20.81				
15	HQAM	75	0	20.78	20.81	20.81				
15	HQAM	1	0	20.83	21.05	20.86				
15	HQAM	1	37	20.78	20.87	20.82	22	0		
15	HQAM	36	0	20.74	20.85	20.75				
15	HQAM	36	20	20.76	20.86	20.75				
15	HQAM	36	36	20.62	20.83	20.80	22	0		
15	HQAM	75	0	20.77	20.81	20.88				
15	HQAM	1	0	17.86	17.98	17.88				
15	SSQAM	1	37	17.89	18.03	17.78	19	3		
15	SSQAM	1	74	17.83	17.71	17.72				
15	SSQAM	50	0	17.86	17.84	17.85				
15	SSQAM	50	24	17.80	17.78	17.77	19	3		
15	SSQAM	50	50	17.69	17.78	17.67				
15	SSQAM	75	0	17.78	17.78	17.67				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.86	20.94	20.89				
10	QPSK	1	25	20.78	20.93	20.89	22	0		
10	QPSK	1	49	20.78	20.80	20.73				
10	QPSK	25	0	20.81	20.92	20.89				
10	QPSK	25	12	20.77	20.77	20.76	22	0		
10	QPSK	25	25	20.63	20.78	20.73				
10	QPSK	50	0	20.80	20.88	20.86				
10	HQAM	1	0	20.80	20.97	20.82				
10	HQAM	1	25	20.74	20.78	20.79	22	0		
10	HQAM	1	49	20.74	20.80	20.75				
10	HQAM	25	0	20.77	20.91	20.75				
10	HQAM	25	12	20.68	20.85	20.74	22	0		
10	HQAM	25	25	20.67	20.84	20.85				
10	HQAM	50	0	20.76	20.81	20.85				
10	HQAM	1	0	20.80	21.00	20.89				
10	HQAM	1	25	20.73	20.71	20.76	22	0		
10	HQAM	1	49	20.84	20.80	20.88				
10	HQAM	25	0	20.79	20.88	20.74				
10	HQAM	25	12	20.68	20.86	20.82	22	0		
10	HQAM	25	25	20.65	20.88	20.82				
10	HQAM	50	0	20.71	20.91	20.81				
10	SSQAM	1	0	17.87	18.03	17.81				
10	SSQAM	1	25	17.88	17.96	17.74	19	3		
10	SSQAM	1	49	17.71	17.75	17.62				
10	SSQAM	25	0	17.83	17.85	17.82				
10	SSQAM	25	12	17.74	17.71	17.77	19	3		
10	SSQAM	25	25	17.64	17.74	17.71				
10	SSQAM	50	0	17.82	17.86	17.79				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.84	21.00	20.89				
5	QPSK	1	12	20.80	20.84	20.89	22	0		
5	QPSK	1	24	20.69	20.81	20.80				
5	QPSK	12	0	20.78	20.96	20.82				
5	QPSK	12	7	20.73	20.83	20.74	22	0		
5	QPSK	12	13	20.64	20.80	20.74				
5	QPSK	25	0	20.81	20.92	20.89				
5	HQAM	1	0	20.73	20.92	20.82				
5	HQAM	1	12	20.73	20.81	20.75	22	0		
5	HQAM	1	24	20.68	20.71	20.76				
5	HQAM	12	0	20.77	20.90	20.69				
5	HQAM	12	7	20.72	20.78	20.72	22	0		
5	HQAM	12	13	20.64	20.74	20.67				
5	HQAM	25	0	20.69	20.84	20.63				
5	HQAM	1	0	20.85	21.04	20.91				
5	HQAM	1	12	20.85	20.88	20.81	22	0		
5	HQAM	1	24	20.77	20.79	20.69				
5	HQAM	12	0	20.75	20.92	20.84				
5	HQAM	12	7	20.77	20.74	20.70	22	0		
5	HQAM	12	13	20.59	20.68	20.63				
5	HQAM	25	0	20.74	20.84	20.86				
5	SSQAM	1	0	17.77	18.03	17.77				
5	SSQAM	1	12	17.81	18.02	17.74	19	3		
5	SSQAM	1	24	17.73	17.70	17.66				
5	SSQAM	12	0	17.78	17.87	17.75				
5	SSQAM	12	7	17.70	17.71	17.74	19	3		
5	SSQAM	12	13	17.62	17.70	17.74				
5	SSQAM	25	0	17.83	18.04	17.89				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.86	20.99	20.89				
3	QPSK	1	8	20.75	20.93	20.87	22	0		
3	QPSK	1	14	20.71	20.87	20.79				
3	QPSK	8	0	20.81	21.02	20.91				
3	QPSK	8	4	20.73	20.83	20.70	22	0		
3	QPSK	8	7	20.69	20.79	20.71				
3	QPSK	15	0	20.81	20.84	20.83				
3	HQAM	1	0	20.81	20.99	20.86				
3	HQAM	1	8	20.78	20.84	20.85	22	0		
3	HQAM	1	14	20.65	20.79	20.72				
3	HQAM	8	0	20.67	20.84	20.72				
3	HQAM	8	7	20.60	20.69	20.61	22	0		
3	HQAM	15	0	20.74	20.88	20.63				
3	HQAM	1	0	20.84	21.00	20.81				
3	HQAM	1	8	20.66	20.93	20.76	22	0		
3	HQAM	1	14	20.81	20.75	20.69				
3	HQAM	8	0	20.75	20.86	20.70				
3	HQAM	8	7	20.71	20.86	20.75	22	0		
3	HQAM	8	7	20.64	20.83	20.67				
3	SSQAM	1	0	17.85	17.96	17.85				
3	SSQAM	1	8	17.81	17.86	17.83	19	3		
3	SSQAM	1	14							



Band 66 Default Ant 1										
BM (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.03	21.12	20.97				
20	QPSK	1	49	20.91	21.03	20.98	22	0		
20	QPSK	1	99	20.86	20.90	20.79				
20	QPSK	50	0	20.87	21.07	20.96				
20	QPSK	50	24	20.82	20.88	20.84				
20	QPSK	50	50	20.80	20.87	20.88	22	0		
20	QPSK	100	0	20.84	20.95	20.82				
20	HQAM	1	0	20.90	20.92	20.87				
20	HQAM	1	49	20.74	20.88	20.80	22	0		
20	HQAM	1	99	20.78	20.82	20.73				
20	HQAM	50	0	20.71	20.87	20.79				
20	HQAM	50	24	20.84	20.88	20.85	22	0		
20	HQAM	50	50	20.83	20.89	20.89				
20	HQAM	100	0	20.83	20.96	20.82				
20	HQAM	1	0	20.81	20.92	20.74				
20	HQAM	1	49	20.75	20.86	20.77	22	0		
20	HQAM	1	99	20.85	20.89	20.88				
20	HQAM	50	0	20.81	20.79	20.69				
20	HQAM	50	24	20.89	20.70	20.65	22	0		
20	HQAM	50	50	20.56	20.69	20.69				
20	HQAM	100	0	20.74	20.83	20.82				
20	SSQAM	1	0	17.69	17.76	17.61				
20	SSQAM	1	49	17.93	18.10	17.95	19	3		
20	SSQAM	1	99	17.79	17.90	17.85				
20	SSQAM	50	0	17.86	17.98	17.93				
20	SSQAM	50	24	17.60	17.89	17.82	19	3		
20	SSQAM	50	50	17.47	17.58	17.47				
20	SSQAM	100	0	17.78	17.92	17.77				
Channel										
Frequency (MHz)										
15	QPSK	1	0	17.17.5	17.45	17.2.5				
15	QPSK	1	37	20.92	21.07	20.82	22	0		
15	QPSK	1	74	20.77	20.96	20.79				
15	QPSK	36	0	20.78	21.01	20.83				
15	QPSK	36	24	20.75	20.78	20.74				
15	QPSK	36	36	20.67	20.83	20.79	22	0		
15	HQAM	1	0	20.74	20.84	20.77				
15	HQAM	1	37	20.81	20.83	20.75				
15	HQAM	1	74	20.63	20.83	20.77	22	0		
15	HQAM	36	0	20.69	20.74	20.64				
15	HQAM	36	24	20.54	20.54	20.51	22	0		
15	HQAM	36	36	20.53	20.64	20.63				
15	HQAM	75	0	20.75	20.88	20.70				
15	HQAM	1	0	20.71	20.80	20.69				
15	HQAM	1	37	20.85	20.89	20.82	22	0		
15	HQAM	1	74	20.54	20.58	20.55				
15	HQAM	36	0	20.56	20.70	20.62				
15	HQAM	36	24	20.53	20.64	20.63				
15	HQAM	36	36	20.48	20.52	20.58	22	0		
15	HQAM	75	0	20.67	20.69	20.68				
15	SSQAM	1	0	17.78	17.86	17.81				
15	SSQAM	1	37	17.78	18.02	17.83	19	3		
15	SSQAM	1	74	17.65	17.85	17.81				
15	SSQAM	36	0	17.46	17.60	17.50				
15	SSQAM	36	24	17.47	17.53	17.41	19	3		
15	SSQAM	36	36	17.37	17.50	17.53				
15	SSQAM	75	0	17.44	17.81	17.74				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.84	21.01	20.88				
10	QPSK	1	25	20.83	20.85	20.71	22	0		
10	QPSK	1	49	20.82	20.78	20.72				
10	QPSK	25	0	20.78	20.97	20.88				
10	QPSK	25	12	20.68	20.78	20.79				
10	QPSK	25	25	20.76	20.81	20.74	22	0		
10	HQAM	1	0	20.81	20.83	20.74				
10	HQAM	1	25	20.66	20.78	20.74	22	0		
10	HQAM	1	49	20.75	20.76	20.64				
10	HQAM	25	0	20.58	20.81	20.65				
10	HQAM	25	12	20.54	20.58	20.60	22	0		
10	HQAM	25	25	20.56	20.66	20.68				
10	HQAM	50	0	20.50	20.82	20.68				
10	HQAM	1	0	20.72	20.86	20.71				
10	HQAM	1	25	20.81	20.74	20.64	22	0		
10	HQAM	1	49	20.51	20.55	20.58				
10	HQAM	25	0	20.47	20.71	20.67				
10	HQAM	25	12	20.48	20.64	20.63	22	0		
10	HQAM	25	25	20.47	20.46	20.45				
10	SSQAM	1	0	17.86	17.97	17.82				
10	SSQAM	1	25	17.86	17.95	17.87	19	3		
10	SSQAM	1	49	17.85	17.76	17.79				
10	SSQAM	25	0	17.53	17.63	17.59				
10	SSQAM	25	12	17.57	17.52	17.45	19	3		
10	SSQAM	25	25	17.36	17.46	17.43				
10	SSQAM	50	0	17.65	17.85	17.75				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.84	21.01	20.88				
5	QPSK	1	12	20.85	20.92	20.79	22	0		
5	QPSK	1	24	20.80	20.82	20.68				
5	QPSK	12	0	20.75	20.94	20.82				
5	QPSK	12	7	20.76	20.79	20.71				
5	QPSK	12	13	20.67	20.80	20.79	22	0		
5	QPSK	25	0	20.73	20.91	20.87				
5	HQAM	1	0	20.81	20.80	20.75				
5	HQAM	1	12	20.64	20.73	20.75	22	0		
5	HQAM	1	24	20.75	20.73	20.60				
5	HQAM	12	0	20.67	20.72	20.64				
5	HQAM	12	7	20.58	20.67	20.60	22	0		
5	HQAM	12	13	20.56	20.56	20.54				
5	HQAM	25	0	20.76	20.88	20.69				
5	HQAM	1	0	20.70	20.83	20.66	22	0		
5	HQAM	1	12	20.65	20.77	20.64				
5	HQAM	1	24	20.82	20.54	20.61				
5	HQAM	12	0	20.53	20.67	20.60				
5	HQAM	12	7	20.48	20.58	20.49	22	0		
5	HQAM	12	13	20.50	20.53	20.39				
5	HQAM	25	0	20.70	20.77	20.70				
5	SSQAM	1	0	17.82	18.02	17.83				
5	SSQAM	1	12	17.80	17.88	17.82	19	3		
5	SSQAM	1	24	17.70	17.76	17.71				
5	SSQAM	12	0	17.65	17.63	17.49				
5	SSQAM	12	7	17.54	17.50	17.47	19	3		
5	SSQAM	12	13	17.39	17.51	17.41				
5	SSQAM	25	0	17.64	17.78	17.75				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.84	21.01	20.88				
3	QPSK	1	8	20.85	20.96	20.74	22	0		
3	QPSK	1	14	20.75	20.86	20.66				
3	QPSK	8	0	20.73	20.94	20.82				
3	QPSK	8	4	20.74	20.80	20.69				
3	QPSK	8	7	20.69	20.82	20.85	22	0		
3	HQAM	1	0	20.79	20.84	20.73				
3	HQAM	1	0	20.87	20.62	20.60	22	0		
3	HQAM	1	8	20.83	20.77	20.73				
3	HQAM	1	14	20.70	20.68	20.67				
3	HQAM	8	0	20.60	20.63	20.74				
3	HQAM	8	4	20.55	20.53	20.58	22	0		
3	HQAM	8	7	20.55	20.61	20.55				
3	HQAM	15	0	20.77	20.84	20.71				
3	HQAM	1	0	20.69	20.69	20.61				
3	HQAM	1	8	20.94	20.72	20.64	22	0		
3	HQAM	1	14	20.51	20.57	20.59				
3	HQAM	8	0	20.48	20.68	20.61				
3	HQAM	8	4	20.45	20.61	20.46				
3	HQAM	8	7	20.49	20.53	20.43	22	0		
3	HQAM	15	0	20.71	20.76	20.67				
3	SSQAM	1	0	17.84	18.06	17.89				
3	SSQAM	1	8	17.83	18.04	17.81	19	3		
3	SSQAM	1	14	17.74	17.86	17.79				
3	SSQAM	8	0	17.58	17.67	17.51				
3	SSQAM	8	4	17.45	17.47	17.48	19	3		
3	SSQAM	8	7	17.36	17.50	17.47				
3	SSQAM	15	0	17.69	17.82	17.77				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	20.93	21.03	20.84				
1.4	QPSK	1	3	20.80	20.97	20.80	22	0		
1.4	QPSK	1	5	20.81	20.76	20.67				
1.4	QPSK	3	0	20.75	20.95	20.84				
1.4	QPSK	3	1	20.69	20.79	20.72				
1.4	QPSK	3	3	20.69	20.84	20.81	22	0		
1.4	QPSK	6	0	20.80	20.84	20.68				
1.4	HQAM	1	0	20.83	20.86	20.74				
1.4	HQAM	1	3	20.85	20.77	20.67	22	0		
1.4	HQAM	1	5	20.70	20.75	20.59				
1.4	HQAM	3	0	20.82	20.81	20.65				
1.4	HQAM	3	1	20.55	20.56	20.52				
1.4	HQAM	3	3	20.54	20.64	20.47				
1.4	HQAM	6	0	20.71	20.8					



Band 38 DS13_Simultaneous Ant 1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				38750	38900	38150		
20	QPSK	1	0	20.15	20.15	20.15		
20	QPSK	1	49	20.17	20.10	19.98	21.2	0
20	QPSK	50	24	19.95	20.05	20.00		
20	QPSK	50	24	19.95	20.05	20.00	21.2	0
20	QPSK	100	0	20.01	20.04	19.91		
20	HQAM	1	0	19.97	19.99	20.02	21.2	0
20	HQAM	1	49	19.97	19.99	20.02		
20	HQAM	1	99	19.87	19.84	19.85		
20	HQAM	50	24	19.93	20.16	19.92	21.2	0
20	HQAM	50	24	19.93	20.16	19.92		
20	HQAM	100	0	19.91	19.99	20.10		
20	HQAM	100	0	19.91	19.99	20.10	21.2	0
20	HQAM	50	24	19.93	20.16	19.92		
20	HQAM	50	24	19.93	20.16	19.92	21.2	0
20	HQAM	100	0	19.96	20.09	19.92		
20	HQAM	100	0	19.96	20.09	19.92	21.2	0
20	SSBAM	1	0	18.83	18.90	18.85		
20	SSBAM	1	49	18.79	18.90	18.85	20.5	0.7
20	SSBAM	1	99	18.79	18.77	18.78		
20	SSBAM	50	24	18.81	18.85	18.82		
20	SSBAM	50	24	18.81	18.85	18.82	20.5	0.7
20	SSBAM	100	0	18.90	18.95	18.88		
20	SSBAM	100	0	18.90	18.95	18.88	21.2	0
15	QPSK	1	0	20.22	20.22	20.22		
15	QPSK	1	37	19.95	20.08	19.90	21.2	0
15	QPSK	1	74	19.85	20.00	19.94		
15	QPSK	36	20	19.82	19.82	19.83	21.2	0
15	QPSK	36	20	19.82	19.82	19.83		
15	QPSK	75	0	19.90	19.96	19.98		
15	HQAM	1	0	19.92	19.96	19.98	21.2	0
15	HQAM	1	37	19.94	19.96	19.98		
15	HQAM	1	74	19.90	19.96	19.98		
15	HQAM	36	20	19.91	19.96	19.98	21.2	0
15	HQAM	36	20	19.91	19.96	19.98		
15	HQAM	75	0	19.77	19.85	19.86		
15	HQAM	75	0	19.77	19.85	19.86	21.2	0
15	HQAM	1	37	19.85	19.92	19.79		
15	HQAM	1	37	19.85	19.92	19.79	21.2	0
15	HQAM	74	0	19.80	19.93	19.75		
15	HQAM	36	20	19.90	19.91	19.78	21.2	0
15	HQAM	36	20	19.79	19.93	19.74		
15	HQAM	75	0	19.85	19.91	19.78		
15	HQAM	75	0	19.85	19.91	19.78	21.2	0
15	SSBAM	1	0	18.77	18.90	18.81	20.5	0.7
15	SSBAM	1	37	18.70	18.91	18.82		
15	SSBAM	1	74	18.87	18.74	18.74		
15	SSBAM	36	20	18.86	19.11	18.92	20.5	0.7
15	SSBAM	36	20	18.86	19.11	18.92		
15	SSBAM	75	0	18.85	18.88	18.84		
15	SSBAM	75	0	18.85	18.88	18.84	21.2	0
15	SSBAM	100	0	18.89	19.10	18.89		
15	SSBAM	100	0	18.89	19.10	18.89	21.2	0
10	QPSK	1	0	20.06	20.06	20.06		
10	QPSK	1	25	19.93	20.00	19.91	21.2	0
10	QPSK	1	49	19.95	20.04	20.09		
10	QPSK	25	12	19.95	20.07	19.98		
10	QPSK	25	12	19.78	19.79	19.80	21.2	0
10	QPSK	25	25	19.92	19.98	19.99		
10	HQAM	1	0	19.91	19.95	19.97	21.2	0
10	HQAM	1	0	20.00	19.97	19.85		
10	HQAM	1	25	19.81	19.89	19.86		
10	HQAM	1	49	19.96	19.92	19.90	21.2	0
10	HQAM	25	0	19.82	20.02	19.93		
10	HQAM	25	12	19.87	19.88	19.92		
10	HQAM	25	12	19.87	19.88	19.92	21.2	0
10	HQAM	25	25	19.78	19.93	19.80		
10	HQAM	25	25	19.85	19.89	19.88	21.2	0
10	HQAM	1	25	19.85	19.89	19.88		
10	HQAM	1	49	19.84	19.96	19.77		
10	HQAM	25	0	19.86	19.89	19.87	21.2	0
10	HQAM	25	12	19.71	19.90	19.79		
10	HQAM	25	25	19.86	19.89	19.70		
10	HQAM	50	0	19.84	19.88	19.89	21.2	0
10	HQAM	50	0	19.79	19.92	19.70		
10	SSBAM	1	0	18.84	18.91	18.72	20.5	0.7
10	SSBAM	1	49	18.82	18.73	18.68		
10	SSBAM	25	0	18.83	19.11	18.88		
10	SSBAM	25	12	19.86	19.93	18.94	20.5	0.7
10	SSBAM	25	25	18.77	18.94	18.87		
10	SSBAM	50	0	18.91	19.04	18.88		
10	SSBAM	50	0	18.91	19.04	18.88	21.2	0
5	QPSK	1	0	20.06	20.09	19.95		
5	QPSK	1	19	20.03	20.00	19.95	21.2	0
5	QPSK	1	24	19.85	20.04	20.04		
5	QPSK	12	0	19.89	20.07	19.80		
5	QPSK	12	7	19.84	20.03	19.81	21.2	0
5	QPSK	12	19	19.95	20.03	19.89		
5	QPSK	25	0	19.95	20.05	19.94		
5	QPSK	25	0	19.91	20.03	19.91	21.2	0
5	HQAM	1	12	19.77	19.88	19.91		
5	HQAM	1	24	19.85	19.95	19.84	21.2	0
5	HQAM	12	0	19.89	19.93	19.87		
5	HQAM	12	7	19.84	19.96	19.96		
5	HQAM	12	13	19.97	19.88	19.88	21.2	0
5	HQAM	25	0	19.75	19.99	19.89		
5	HQAM	1	0	19.71	19.96	19.88	21.2	0
5	HQAM	1	12	19.86	19.88	19.87		
5	HQAM	1	24	19.80	19.90	19.78		
5	HQAM	12	0	19.89	19.90	19.79	21.2	0
5	HQAM	25	0	19.86	19.91	19.88		
5	HQAM	1	0	18.73	18.88	18.71		
5	SSBAM	1	12	18.72	18.87	18.89	20.5	0.7
5	SSBAM	1	24	18.64	18.73	18.70		
5	SSBAM	12	7	18.82	19.01	18.94	20.5	0.7
5	SSBAM	12	13	18.85	19.88	18.90		
5	SSBAM	25	0	18.85	19.02	18.91		

Band 41 FCC&IC DS13_Simultaneous Ant 1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				38750	40185	40620	41055	41490		
20	QPSK	1	0	20.39	20.41	20.39	20.41	20.41		
20	QPSK	1	49	20.21	20.31	20.39	20.35	20.30	21.2	0
20	QPSK	50	24	20.15	20.25	20.31	20.35	20.37		
20	QPSK	50	24	20.21	20.30	20.35	20.32	20.19	21.2	0
20	QPSK	50	24	20.24	20.25	20.34	20.30	20.12		
20	QPSK	100	0	20.08	20.24	20.20	20.14	20.10		
20	HQAM	1	0	20.07	20.19	20.27	20.20	20.11	21.2	0
20	HQAM	1	49	20.07	20.21	20.28	20.28	20.28		
20	HQAM	1	99	20.17	20.25	20.31	20.24	20.18		
20	HQAM	50	24	20.25	20.27	20.31	20.28	20.18	21.2	0
20	HQAM	50	24	20.29	20.29	20.28	20.19	20.22		
20	HQAM	50	50	20.01	20.17	20.27	20.15	20.09		
20	HQAM	100	0	20.05	20.14	20.16	20.06	20.11		
20	HQAM	100	0	20.15	20.08	20.25	20.09	20.14	21.2	0
20	HQAM	1	49	19.93	20.02	20.18	20.04	19.93		
20	HQAM	1	99	19.84	20.04	20.06	19.97	19.97		
20	HQAM	50	24	20.19	20.18	20.34	20.24	20.20	21.2	0
20	HQAM	50	24	20.14	20.12	20.06	20.03	20.09		
20	HQAM	50	50	19.98	20.02	20.22	19.95	19.97		
20	HQAM	100	0	20.14	20.27	20.27	20.14	20.17	21.2	0
20	SSBAM	1	0	18.62	18.40	18.70	18.50	18.65		
20	SSBAM	1	49	18.64	18.47	18.79	18.55	18.66	20	1.2
20	SSBAM	1	99	18.43	18.43	18.53	18.51	18.38		
20	SSBAM	50	24	18.61	18.67	18.70	18.41	18.44		
20	SSBAM	50	24	18.61	18.59	18.64	18.62	18.52	20	1.2
20	SSBAM	50	50	18.51	18.53	18.61	18.63	18.59		
20	SSBAM	100	0	18.77	18.58	18.71	18.63	18.73		
20	SSBAM	100	0	18.75	18.60	18.73	18.65	18.73	21.2	0
16	QPSK	1	0	20.33	20.31	20.33	20.31	20.31		
16	QPSK	1	37	20.08	20.21	20.31	20.27	20.07	21	0
16	QPSK	1	74	20.07	20.03	20.16	20.13	20.04		
16	QPSK	36	20	20.11	20.25	20.31	20.16	20.07		
16	QPSK	36	20	20.10	20.14	20.30	20.19	20.21	21.2	0
16	QPSK	36	20	20.04	20.12	20.20	20.03	19.99		
16	HQAM	1	0	20.01	20.15	20.18	20.09	20.06	21.2	0
16	HQAM	1	37	20.03	20.20	20.19	20.16	20.07		
16	HQAM	1	74	20.05	20.18	20.19	20.10	20.10		
16	HQAM	36	20	20.10	20.23	20.17	20.19	20.11	21.2	0
16	HQAM	36	20	20.04	20.15	20.13	20.08	20.08		
16	HQAM	36	36	19.87	20.09	20.17	20.04	19.96		
16	HQAM	75	0	20.04	20.04	20.11	20.02	19.99		
16	HQAM	75	0	20.10	20.02	20.16	20.00	20.10	21.2	0
16	HQAM									



Band 41 HPUE FCC&IC DS1.3_Simultaneous Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up Int (dBm)	MFR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	22.06	22.25	22.11	22.31	22.26	22.26	22.8	0
20	QPSK	1	49	22.07	22.18	22.19	22.20	22.21	22.21	22.8	0
20	QPSK	50	0	22.04	22.14	22.15	22.16	22.17	22.17	22.8	0
20	QPSK	50	24	22.04	22.03	22.13	22.14	21.88	21.88	22.8	0
20	QPSK	100	0	21.88	21.93	22.06	22.01	21.88	21.88	22.8	0
20	16QAM	1	0	21.90	21.96	22.04	21.97	21.87	21.87	22.8	0
20	16QAM	1	49	22.05	22.16	22.17	22.18	22.19	22.19	22.8	0
20	16QAM	50	0	22.04	22.05	22.10	22.11	22.04	22.04	22.8	0
20	16QAM	50	24	22.04	22.03	22.10	22.11	21.99	21.99	22.8	0
20	16QAM	100	0	21.99	22.16	22.14	22.07	21.98	21.98	22.8	0
20	64QAM	1	0	21.91	21.91	22.09	22.05	22.02	22.02	22.8	0
20	64QAM	1	49	21.97	22.08	22.12	22.07	22.01	22.01	22.8	0
20	64QAM	50	0	22.06	22.16	22.15	22.16	22.16	22.16	22.8	0
20	64QAM	50	24	22.06	22.16	22.24	22.21	21.99	21.99	22.8	0
20	64QAM	100	0	22.03	22.10	22.18	22.02	22.02	22.02	22.8	0
20	256QAM	1	0	21.81	21.49	21.88	21.44	21.88	21.88	22.3	0.5
20	256QAM	1	49	21.92	21.41	21.81	21.42	21.92	21.92	22.3	0.5
20	256QAM	1	99	21.30	21.36	21.55	21.41	21.51	21.51	22.3	0.5
20	256QAM	50	0	21.27	21.35	21.54	21.40	21.50	21.50	22.3	0.5
20	256QAM	50	24	21.27	21.23	21.46	21.24	21.35	21.35	22.3	0.5
20	256QAM	100	0	21.23	21.26	21.41	21.26	21.35	21.35	22.3	0.5
20	256QAM	100	0	21.12	21.12	21.34	21.15	21.24	21.24	22.3	0.5
Channel											
Frequency (MHz)											
15	QPSK	1	0	22.15	22.13	22.27	22.31	22.23	22.23	23	0
15	QPSK	1	37	21.99	22.03	22.14	22.18	21.88	21.88	23	0
15	QPSK	1	74	21.93	21.99	22.01	22.05	21.97	21.97	23	0
15	QPSK	36	0	21.94	22.03	22.16	22.05	21.86	21.86	23	0
15	QPSK	36	20	21.99	21.90	22.05	22.08	21.75	21.75	22.8	0
15	16QAM	1	0	21.81	21.86	21.90	21.86	21.83	21.83	22.8	0
15	16QAM	1	37	21.92	21.82	21.97	22.00	21.79	21.79	22.8	0
15	16QAM	1	74	21.93	21.95	22.02	21.93	21.97	21.97	22.8	0
15	16QAM	36	0	21.88	22.04	22.07	22.12	21.87	21.87	22.8	0
15	16QAM	36	20	21.98	21.82	21.97	22.00	21.69	21.69	22.8	0
15	16QAM	36	39	21.91	22.05	22.06	21.93	21.88	21.88	22.8	0
15	16QAM	75	0	22.01	22.05	22.17	22.02	21.97	21.97	22.8	0
15	64QAM	1	0	21.78	21.87	22.03	22.00	21.91	21.91	22.8	0
15	64QAM	1	37	21.84	22.00	22.02	22.04	21.98	21.98	22.8	0
15	64QAM	1	74	21.90	21.98	22.07	22.01	21.96	21.96	22.8	0
15	64QAM	36	0	21.84	21.93	22.16	22.10	21.91	21.91	22.8	0
15	64QAM	36	20	21.91	22.11	22.19	22.12	21.94	21.94	22.8	0
15	64QAM	36	39	21.83	21.83	21.98	21.98	21.69	21.69	22.8	0
15	64QAM	75	0	21.94	21.96	22.11	21.92	21.91	21.91	22.8	0
15	256QAM	1	0	21.44	21.44	21.54	21.53	21.45	21.45	22.3	0.5
15	256QAM	1	37	21.26	21.28	21.34	21.33	21.25	21.25	22.3	0.5
15	256QAM	1	74	21.25	21.29	21.52	21.31	21.41	21.41	22.3	0.5
15	256QAM	36	0	21.28	21.27	21.39	21.26	21.30	21.30	22.3	0.5
15	256QAM	36	20	21.22	21.14	21.24	21.12	21.27	21.27	22.3	0.5
15	256QAM	36	39	21.14	21.22	21.37	21.12	21.30	21.30	22.3	0.5
15	256QAM	75	0	21.08	21.10	21.21	21.00	21.10	21.10	22.3	0.5
Channel											
Frequency (MHz)											
10	QPSK	1	0	22.10	22.21	22.28	22.33	22.23	22.23	23	0
10	QPSK	1	25	21.99	22.05	22.05	22.06	21.93	21.93	23	0
10	QPSK	1	49	21.95	21.90	22.07	22.07	21.98	21.98	22.8	0
10	QPSK	50	0	21.91	22.00	22.04	22.04	21.99	21.99	22.8	0
10	QPSK	25	12	21.93	21.99	22.04	22.02	21.85	21.85	22.8	0
10	QPSK	25	25	21.89	22.04	22.01	21.93	21.77	21.77	22.8	0
10	16QAM	1	0	21.77	21.80	21.94	21.88	21.82	21.82	22.8	0
10	16QAM	1	0	21.85	21.90	21.94	21.88	21.82	21.82	22.8	0
10	16QAM	1	25	21.90	22.08	22.00	22.06	21.80	21.80	22.8	0
10	16QAM	1	49	21.90	21.94	22.03	21.92	21.84	21.84	22.8	0
10	16QAM	25	0	21.86	22.04	22.04	22.13	21.82	21.82	22.8	0
10	16QAM	25	12	21.96	21.89	22.02	22.04	21.85	21.85	22.8	0
10	16QAM	25	25	21.93	22.02	22.06	22.06	21.84	21.84	22.8	0
10	16QAM	50	0	21.98	22.08	22.17	22.06	21.90	21.90	22.8	0
10	64QAM	1	0	21.84	21.82	22.00	22.00	21.78	21.78	22.8	0
10	64QAM	1	25	21.85	22.01	22.00	21.98	21.95	21.95	22.8	0
10	64QAM	1	49	21.90	21.96	22.08	22.07	21.90	21.90	22.8	0
10	64QAM	25	0	21.98	21.88	22.08	22.10	21.84	21.84	22.8	0
10	64QAM	25	12	21.98	22.05	22.12	22.17	21.91	21.91	22.8	0
10	64QAM	25	25	21.83	21.88	22.03	21.92	21.90	21.90	22.8	0
10	64QAM	50	0	21.91	22.02	22.04	21.98	21.95	21.95	22.8	0
10	256QAM	1	0	21.45	21.46	21.56	21.35	21.48	21.48	22.3	0.5
10	256QAM	1	25	21.29	21.34	21.51	21.37	21.48	21.48	22.3	0.5
10	256QAM	1	49	21.26	21.25	21.47	21.23	21.42	21.42	22.3	0.5
10	256QAM	25	0	21.33	21.29	21.44	21.25	21.41	21.41	22.3	0.5
10	256QAM	25	12	21.23	21.11	21.35	21.18	21.39	21.39	22.3	0.5
10	256QAM	25	25	21.11	21.14	21.27	21.11	21.25	21.25	22.3	0.5
10	256QAM	50	0	21.04	21.04	21.24	21.09	21.18	21.18	22.3	0.5
Channel											
Frequency (MHz)											
5	QPSK	1	0	22.09	22.13	22.19	22.06	22.14	22.14	23	0
5	QPSK	1	12	21.96	22.00	22.07	22.07	21.87	21.87	23	0
5	QPSK	1	24	21.88	21.84	22.03	22.02	21.95	21.95	23	0
5	QPSK	12	0	21.85	21.97	22.00	22.00	21.83	21.83	22.8	0
5	QPSK	12	7	21.95	21.95	22.09	22.05	21.83	21.83	22.8	0
5	QPSK	12	18	21.87	22.02	21.98	21.95	21.77	21.77	22.8	0
5	QPSK	25	0	21.81	21.89	21.97	21.97	21.76	21.76	22.8	0
5	QPSK	0	0	21.87	21.86	21.93	21.89	21.77	21.77	22.8	0
5	16QAM	1	12	21.98	22.02	22.01	21.99	21.79	21.79	22.8	0
5	16QAM	1	24	21.94	21.96	22.06	22.06	21.82	21.82	22.8	0
5	16QAM	12	0	21.89	22.08	22.09	22.07	21.84	21.84	22.8	0
5	16QAM	12	7	21.84	21.83	22.02	21.98	21.95	21.95	22.8	0
5	16QAM	12	13	21.86	22.03	22.05	21.97	21.90	21.90	22.8	0
5	16QAM	25	0	21.95	22.05	22.12	22.01	21.97	21.97	22.8	0
5	64QAM	1	0	21.82	21.81	22.03	21.96	21.88	21.88	22.8	0
5	64QAM	1	12	21.93	21.95	22.00	22.02	21.95	21.95	22.8	0
5	64QAM	1	24	21.94	21.97	22.06	22.06	21.90	21.90	22.8	0
5	64QAM	12	0	22.02	22.02	22.16	22.11	21.83	21.83	22.8	0
5	64QAM	12	7	22.00	22.05	22.17	22.11	21.91	21.91	22.8	0
5	64QAM	12	13	21.88	21.87	22.03	21.94	21.92	21.92	22.8	0
5	64QAM	25	0	21.97	22.02	22.15	22.01	21.98	21.98	22.8	0
5	256QAM	1	0	2							



OSM 1900 A42									
Default									
	Best Average Power (dBm)			Turnup	Frame-Average Power (dBm)			Turnup	
Tx Channel	812	861	810	Limit	812	861	810	Limit	
Frequency (MHz)	1912.2	1962	1912.2	(dBm)	1912.2	1962	1912.2	(dBm)	
OSM 1 Tx Watt	28.25	28.23	28.19	29.00	19.25	19.33	19.19	20.00	
OSM 1 Tx Watt	28.23	28.20	28.19	29.00	19.23	19.33	19.19	20.00	
OSM 2 Tx Watt	29.46	29.50	29.40	29.00	19.46	19.53	19.40	20.00	
OSM 3 Tx Watt	23.98	24.13	24.00	25.00	19.72	19.87	19.74	20.74	
OSM 4 Tx Watt	21.93	22.00	21.90	23.00	19.90	19.99	19.98	20.00	
EDGE 1 Tx Watt	23.89	23.64	23.81	24.00	14.59	14.64	14.81	15.00	
EDGE 2 Tx Watt	21.96	22.83	21.94	23.00	15.98	16.83	15.98	19.00	
EDGE 3 Tx Watt	20.78	20.55	20.70	21.00	15.52	16.59	16.44	17.04	
EDGE 4 Tx Watt	18.71	18.72	18.68	19.00	15.71	15.74	15.68	16.00	
OSM 1900A VCCMA II LTE									
Default VCCMA II A42									
	VCCMA II			Turnup	VCCMA IV			Turnup	
Tx Channel	862	960	868	Limit	862	960	868	Limit	
Frequency (MHz)	1962	1960	1968	(dBm)	1912	1963	1918	(dBm)	
OSM 1900	30.56	30.57	30.52	31.70	21.42	21.44	21.37	22.80	
OSM 1900	30.83	30.70	30.56	31.70	21.47	21.53	21.44	22.85	
OSM Rate 1	19.82	19.82	19.81	20.70	20.82	20.86	20.82	21.80	
OSM Rate 2	19.81	19.89	19.75	20.70	20.47	20.61	20.43	21.80	
OSM Rate 3	19.52	19.27	19.52	20.20	19.81	20.04	19.65	21.30	
OSM Rate 4	19.28	19.38	19.28	20.20	19.98	20.06	20.05	21.30	
OSM Rate DC-REPA Subcar-1	18.74	19.00	19.73	20.70	20.48	20.58	20.59	21.80	
OSM Rate DC-REPA Subcar-2	19.58	19.58	19.58	20.70	20.29	20.37	20.31	21.80	
OSM Rate DC-REPA Subcar-3	19.10	19.22	19.09	20.20	19.80	19.87	19.83	21.30	
OSM Rate DC-REPA Subcar-4	19.12	19.14	19.14	20.20	19.76	19.80	19.84	21.30	
OSM Rate HELPA Subcar-1	19.80	19.94	19.98	20.70	20.42	20.65	20.60	21.80	
OSM Rate HELPA Subcar-2	17.22	17.80	17.59	18.20	18.46	18.49	18.50	18.50	
OSM Rate HELPA Subcar-3	18.05	18.00	18.02	19.70	19.49	19.51	19.48	20.00	
OSM Rate HELPA Subcar-4	17.81	17.76	17.84	18.70	18.38	18.44	18.33	19.80	
OSM Rate HELPA Subcar-5	19.77	19.70	19.79	20.70	20.49	20.53	20.49	21.80	



Band 2 DSI3_Simultaneous Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (min)	MPR (dB)	
Channel				Ch. 1/Freq.	Ch. 2/Freq.	Ch. 3/Freq.			
20	QPSK	1	0	19.84	19.72	19.59			
20	QPSK	1	4	19.85	19.73	19.60			
20	QPSK	1	9	19.86	19.74	19.61			
20	QPSK	50	0	19.49	19.62	19.57			
20	QPSK	50	4	19.41	19.54	19.44			
20	QPSK	50	9	19.43	19.49	19.54			
20	QPSK	100	0	19.54	19.61	19.49			
20	QPSK	100	4	19.37	19.45	19.48			
20	QPSK	1	49	19.42	19.45	19.42			
20	QPSK	1	59	19.47	19.52	19.44			
20	QPSK	1	69	19.47	19.52	19.44			
20	QPSK	50	24	19.42	19.43	19.44			
20	QPSK	50	50	19.38	19.43	19.43			
20	QPSK	50	76	19.37	19.43	19.43			
20	QPSK	1	0	19.32	19.36	19.43			
20	QPSK	1	49	19.40	19.40	19.39			
20	QPSK	1	59	19.40	19.40	19.39			
20	QPSK	50	8	19.48	19.45	19.39			
20	QPSK	50	24	19.47	19.34	19.36			
20	QPSK	50	50	19.48	19.35	19.33			
20	QPSK	100	0	19.49	19.51	19.44			
20	QPSK	100	4	19.47	19.47	19.47			
20	QPSK	1	49	19.05	19.20	17.99			
20	QPSK	1	59	19.02	18.08	18.02			
20	QPSK	50	8	19.48	19.35	19.47			
20	QPSK	50	24	19.52	19.38	19.40			
20	QPSK	50	50	19.52	19.38	19.40			
20	QPSK	100	0	19.53	19.39	19.41			
20	QPSK	100	4	19.05	18.20	17.99			
20	QPSK	1	59	18.02	18.08	18.02			
20	QPSK	50	24	17.86	17.99	17.86			
20	QPSK	50	50	17.86	17.99	17.86			
20	QPSK	100	0	17.87	17.87	17.86			
20	QPSK	100	4	18.05	18.00	18.05			
20	QPSK	1	59	18.07	18.24	18.07			
20	QPSK	1	37	19.31	19.38	19.27			
20	QPSK	1	74	19.44	19.43	19.47			
20	QPSK	1	74	19.44	19.43	19.47			
20	QPSK	36	0	19.41	19.41	19.42			
20	QPSK	36	36	19.29	19.36	19.34			
20	QPSK	75	0	19.44	19.44	19.44			
20	QPSK	75	0	19.51	19.41	19.23			
20	QPSK	1	37	19.31	19.38	19.27			
20	QPSK	1	74	19.44	19.43	19.47			
20	QPSK	36	36	19.47	19.47	19.43			
20	QPSK	75	0	19.26	19.34	19.29			
20	QPSK	1	0	19.28	19.52	19.35			
20	QPSK	36	36	19.33	19.33	19.33			
20	QPSK	75	0	19.31	19.32	19.38			
20	QPSK	1	0	19.35	19.43	19.32			
20	QPSK	36	36	19.40	19.40	19.40			
20	QPSK	75	0	19.40	19.42	19.21			
20	QPSK	1	0	19.44	19.44	19.44			
20	QPSK	36	36	19.40	19.40	19.40			
20	QPSK	75	0	19.38	19.47	19.38			
20	QPSK	1	0	19.42	19.42	19.42			
20	QPSK	36	36	19.40	19.40	19.40			
20	QPSK	75	0	19.34	19.43	19.43			
20	QPSK	1	0	19.39	19.47	19.12			
20	QPSK	36	36	19.37	19.38	19.43			
20	QPSK	75	0	19.34	19.39	19.52			
20	QPSK	1	0	19.42	19.39	19.24			
20	QPSK	36	36	19.39	19.39	19.43			
20	QPSK	75	0	19.24	19.39	19.52			
20	QPSK	1	0	19.42	19.39	19.24			
20	QPSK	36	36	19.39	19.39	19.43			
20	QPSK	75	0	19.24	19.39	19.52			
20	QPSK	1	0	19.42	19.39	19.24			
20	QPSK	36	36	19.39	19.39	19.43			
20	QPSK	75	0	19.24	19.39	19.52			
20	QPSK	1	0	19.42	19.39	19.24			
20	QPSK	36	36	19.39	19.39	19.43			
20	QPSK	75	0	19.24	19.39	19.52			
20	QPSK	1	0	19.42	19.39	19.24			
20	QPSK	36	36	19.39	19.39	19.43			
20	QPSK	75	0	19.24	19.39	19.52			
20	QPSK	1	0	19.42	19.39	19.24			
20	QPSK	36	36	19.39	19.39	19.43			
20	QPSK	75	0	19.24	19.39	19.52			
20	QPSK	1	0	19.42	19.39	19.24			
20	QPSK	36	36	19.39	19.39	19.43			
20	QPSK	75	0	19.24	19.39	19.52			
20	QPSK	1	0	19.42	19.39	19.24			
20	QPSK	36	36	19.39	19.39	19.43			
20	QPSK	75	0	19.24	19.39	19.52			
20	QPSK	1	0	19.42	19.39	19.24			
20	QPSK	36	36	19.39	19.39	19.43			
20	QPSK	75	0	19.24	19.39	19.52			
20	QPSK	1	0	19.42	19.39	19.24			
20	QPSK	36	36	19.39	19.39	19.43			
20	QPSK	75	0	19.24	19.39	19.52			
20	QPSK	1	0	19.42	19.39	19.24			
20	QPSK	36	36	19.39	19.39	19.43			
20	QPSK	75	0	19.24	19.39	19.52			
20	QPSK	1	0	19.42	19.39	19.24			
20	QPSK	36	36	19.39	19.39	19.43			
20	QPSK	75	0	19.24	19.39	19.52			
20	QPSK	1	0	19.42	19.39	19.24			
20	QPSK	36	36	19.39	19.39	19.43			
20	QPSK	75	0	19.24	19.39	19.52			
20	QPSK	1	0	19.42	19.39	19.24			
20	QPSK	36	36	19.39	19.39	19.43			
20	QPSK	75	0	19.24	19.39	19.52			
20	QPSK	1	0	19.42	19.39	19.24			
20	QPSK	36	36	19.39	19.39	19.43			
20	QPSK	75	0	19.24	19.39	19.52			
20	QPSK	1	0	19.42	19.39	19.24			
20	QPSK	36	36	19.39	19.39	19.43			
20	QPSK	75	0	19.24	19.39	19.52			
20	QPSK	1	0	19.42	19.39	19.24			
20	QPSK	36	36	19.39	19.39	19.43			
20	QPSK	75	0	19.24	19.39	19.52			
20	QPSK	1	0	19.42	19.39	19.24			
20	QPSK	36	36	19.39	19.39	19.43			
20	QPSK	75	0	19.24	19.39	19.52			
20	QPSK	1	0	19.42	19.39	19.24			
20	QPSK	36	36	19.39	19.39	19.43			
20	QPSK	75	0	19.24	19.39	19.52			
20	QPSK	1	0	19.42	19.39	19.24			
20	QPSK	36	36	19.39	19.39	19.43			
20	QPSK	75	0	19.24	19.39	19.52			
20	QPSK	1	0	19.42	19.39	19.24			
20	QPSK	36	36	19.39	19.39	19.43			
20	QPSK	75	0	19.24	19.39	19.52			
20	QPSK	1	0	19.42	19.39	19.24			
20	QPSK	36	36	19.39	19.39	19.43			
20	QPSK	75	0	19.24	19.39	19.52			
20	QPSK	1	0	19.42	19.39	19.24			
20	QPSK	36	36	19.39	19.39	19.43			
20	QPSK	75	0	19.24	19.39	19.52			
20	QPSK	1	0	19.42	19.39	19.24			
20	QPSK	36	36	19.39	19.39	19.43			
20	QPSK	75	0	19.24	19.39	19.52			
20	QPSK	1	0	19.42	19.39	19.24			
20	QPSK	36	36	19.39	19.39	19.43			
20	QPSK	75	0	19.24	19.39	19.52			
20	QPSK	1	0	19.42	19.39	19.24			
20	QPSK	36	36	19.39	19.39	19.43			
20	QPSK	75	0	19.24	19.39	19.52			



Band 12 Default Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.51	22.62	22.50				
10	QPSK	1	25	22.40	22.42	22.48			24	0
10	QPSK	1	49	22.26	22.48	22.18				
10	QPSK	25	0	22.40	22.62	22.40				
10	16QAM	25	0	22.30	22.62	22.40			24	0
10	QPSK	25	25	22.29	22.32	22.24				
10	QPSK	50	0	22.34	22.41	22.37				
10	16QAM	50	0	22.41	22.41	22.33			24	0
10	16QAM	1	25	22.39	22.52	22.38				
10	16QAM	1	49	22.18	22.40	22.39				
10	16QAM	25	0	22.51	22.52	22.54			24	0
10	16QAM	25	12	22.29	22.41	22.35				
10	16QAM	25	25	22.27	22.36	22.36				
10	16QAM	50	0	22.40	22.53	22.38				
10	16QAM	50	0	22.40	22.44	22.34			24	0
10	8QAM	1	25	22.39	22.41	22.52				
10	8QAM	1	49	22.14	22.41	22.29				
10	8QAM	25	0	21.24	21.36	21.17			22.5	1.5
10	8QAM	25	12	21.13	21.24	21.08				
10	8QAM	25	25	21.03	21.36	21.04				
10	8QAM	50	0	21.25	21.30	21.19				
10	256QAM	1	25	19.32	19.60	19.46			21	3
10	256QAM	1	49	19.35	19.58	19.51				
10	256QAM	1	25	19.34	19.36	19.43				
10	256QAM	25	0	19.32	19.28	19.32			21	3
10	256QAM	25	25	19.12	19.28	19.19				
10	256QAM	50	0	19.26	19.27	19.20				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.43	22.48	22.39				
5	QPSK	1	24	22.30	22.42	22.40			24	0
5	QPSK	1	24	22.14	22.40	22.04				
5	QPSK	12	0	22.29	22.60	22.37				
5	QPSK	12	7	22.33	22.45	22.35			24	0
5	QPSK	12	13	22.24	22.28	22.17				
5	QPSK	25	0	22.22	22.27	22.12				
5	16QAM	1	24	22.35	22.48	22.38			24	0
5	16QAM	1	12	22.25	22.45	22.27				
5	16QAM	12	0	22.17	22.29	22.19				
5	16QAM	12	7	22.17	22.28	22.25			24	0
5	16QAM	12	13	22.02	22.43	22.01				
5	16QAM	25	0	22.37	22.43	22.23				
5	8QAM	1	0	22.25	22.39	22.28			24	0
5	8QAM	1	24	22.09	22.31	22.08				
5	8QAM	1	24	22.05	22.32	22.21				
5	8QAM	12	0	21.17	21.31	21.05			22.5	1.5
5	8QAM	12	7	21.11	21.38	21.17				
5	8QAM	12	13	20.98	20.97	21.01				
5	8QAM	25	0	21.17	21.25	21.28				
5	256QAM	1	0	19.50	19.51	19.53			21	3
5	256QAM	1	24	19.25	19.29	19.24				
5	256QAM	12	0	19.36	19.43	19.35				
5	256QAM	12	7	19.22	19.24	19.26			21	3
5	256QAM	12	13	19.17	19.20	19.17				
5	256QAM	25	0	19.27	19.18	19.20				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.41	22.54	22.18				
3	QPSK	1	14	22.11	22.43	22.08			24	0
3	QPSK	1	14	22.30	22.48	22.04				
3	QPSK	8	0	22.19	22.34	22.21				
3	QPSK	8	7	22.21	22.18	22.11			24	0
3	QPSK	16	0	22.30	22.37	22.17				
3	16QAM	1	0	22.26	22.39	22.48				
3	16QAM	1	8	22.31	22.38	22.32			24	0
3	16QAM	8	0	22.13	22.28	22.18				
3	16QAM	8	4	22.18	22.33	22.29			24	0
3	16QAM	15	0	22.33	22.38	22.18				
3	8QAM	1	0	22.27	22.31	22.21			24	0
3	8QAM	1	8	22.34	22.33	22.28				
3	8QAM	1	14	22.06	22.28	22.20				
3	8QAM	8	0	21.32	21.27	21.02			22.5	1.5
3	8QAM	8	4	21.04	21.42	20.95				
3	8QAM	8	7	20.98	21.00	20.99				
3	8QAM	15	0	21.19	21.24	21.12				
3	256QAM	1	0	19.20	19.45	19.41			21	3
3	256QAM	1	14	19.24	19.31	19.35				
3	256QAM	8	0	19.10	19.31	19.36			21	3
3	256QAM	8	4	19.24	19.15	19.17				
3	256QAM	8	7	19.09	19.23	19.09				
3	256QAM	15	0	19.20	19.28	19.12				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.41	22.54	22.18				
1.4	QPSK	1	3	22.35	22.28	22.27			24	0
1.4	QPSK	1	5	22.20	22.42	22.04				
1.4	QPSK	3	0	22.34	22.50	22.20				
1.4	QPSK	3	1	22.20	22.50	22.23				
1.4	QPSK	3	3	22.17	22.20	22.20			24	0
1.4	16QAM	1	0	22.33	22.34	22.32				
1.4	16QAM	1	3	22.32	22.40	22.40				
1.4	16QAM	1	5	22.28	22.47	22.25			24	0
1.4	16QAM	3	0	22.44	22.37	22.33				
1.4	16QAM	3	1	22.47	22.47	22.40				
1.4	16QAM	3	1	22.26	22.31	22.25				
1.4	16QAM	3	3	22.17	22.32	22.25			24	0
1.4	16QAM	6	0	22.26	22.43	22.38				
1.4	8QAM	1	0	22.35	22.37	22.29				
1.4	8QAM	1	3	22.25	22.29	22.28			24	0
1.4	8QAM	1	5	22.01	22.33	22.19				
1.4	8QAM	3	0	22.38	22.36	22.40				
1.4	8QAM	3	0	22.16	22.32	22.22			22.5	1.5
1.4	8QAM	3	3	22.15	22.29	22.21				
1.4	256QAM	1	0	21.19	21.20	21.11			22.5	1.5
1.4	256QAM	1	0	19.26	19.57	19.36				
1.4	256QAM	1	3	19.22	19.56	19.47				
1.4	256QAM	1	5	19.26	19.22	19.35			21	3
1.4	256QAM	1	0	19.10	19.34	19.30				
1.4	256QAM	3	1	19.21	19.18	19.19				
1.4	256QAM	3	0	19.08	19.20	19.14			21	3
1.4	256QAM	3	0	19.17	19.25	19.09				

Band 13 Default Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.53	22.53	22.53			24	0
10	QPSK	1	25	22.43	22.43	22.43				
10	QPSK	1	49	22.43	22.43	22.43				
10	QPSK	25	0	22.46	22.46	22.46			24	0
10	QPSK	25	12	22.43	22.43	22.43				
10	QPSK	25	25	22.26	22.26	22.26				
10	QPSK	50	0	22.32	22.32	22.32				
10	16QAM	1	25	22.47	22.47	22.47			24	0
10	16QAM	1	49	22.40	22.40	22.40				
10	16QAM	25	0	22.54	22.54	22.54			24	0
10	16QAM	25	12	22.35	22.35	22.35				
10	16QAM	25	25	22.28	22.28	22.28				
10	16QAM	50	0	22.45	22.45	22.45				
10	8QAM	1	25	22.42	22.42	22.42			24	0
10	8QAM	1	49	22.41	22.41	22.41				
10	8QAM	25	0	21.30	21.30	21.30			22.5	1.5
10	8QAM	25	12	21.20	21.20	21.20				
10	8QAM	25	25	21.26	21.26	21.26				
10	256QAM	1	25	19.49	19.49	19.49			21	3
10	256QAM	1	49	19.35	19.35	19.35				
10	256QAM	25	0	1						



Band 25 DS13_Simultaneous Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power Hsp./Freq.	Power Hgt./Freq.	Turn-up Time (sec)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	19.78	19.87	19.86		
20	QPSK	1	49	19.84	19.78	19.86		
20	QPSK	50	0	19.84	19.72	19.84		
20	QPSK	50	49	19.85	19.85	19.85		
20	QPSK	50	98	19.82	19.87	19.85		
20	QPSK	100	0	19.88	19.82	19.86		
20	QPSK	100	49	19.75	19.89	19.84		
20	16QAM	1	49	19.58	19.55	19.54	21.1	0
20	16QAM	1	98	19.58	19.52	19.53		
20	16QAM	50	0	19.54	19.52	19.58		
20	16QAM	50	24	19.44	19.68	19.65		
20	16QAM	50	98	19.50	19.67	19.60		
20	16QAM	100	0	19.47	19.60	19.59		
20	16QAM	100	49	19.48	19.63	19.61		
20	16QAM	1	49	19.55	19.55	19.57	21.1	0
20	16QAM	1	98	19.57	19.69	19.59		
20	16QAM	50	0	19.57	19.69	19.59		
20	16QAM	50	24	19.57	19.60	19.52		
20	16QAM	50	98	19.45	19.63	19.50		
20	16QAM	100	0	19.54	19.68	19.56		
20	16QAM	100	49	19.56	19.57	19.41		
20	256QAM	1	49	19.42	19.31	19.56	21.0	0.1
20	256QAM	1	98	19.42	19.67	19.41		
20	256QAM	50	0	19.45	19.63	19.50		
20	256QAM	50	24	19.48	19.39	19.46		
20	256QAM	50	98	19.28	19.41	19.35		
20	256QAM	100	0	19.47	19.48	19.34		
Channel								
Frequency (MHz)								
20	QPSK	1	0	19.88	19.76	19.88		
20	QPSK	1	49	19.88	19.86	19.86		
20	QPSK	1	98	19.81	19.70	19.84		
20	QPSK	50	0	19.47	19.66	19.66		
20	QPSK	50	49	19.44	19.65	19.48		
20	QPSK	50	98	19.53	19.63	19.61		
20	QPSK	100	0	19.43	19.60	19.58		
20	QPSK	100	49	19.56	19.61	19.57		
20	16QAM	1	37	19.45	19.44	19.49	21.1	0
20	16QAM	1	74	19.45	19.66	19.61		
20	16QAM	50	0	19.45	19.67	19.46		
20	16QAM	50	24	19.36	19.49	19.47		
20	16QAM	50	98	19.37	19.48	19.43		
20	16QAM	100	0	19.37	19.48	19.43		
20	16QAM	100	49	19.36	19.49	19.47		
20	16QAM	1	37	19.44	19.58	19.58	21.1	0
20	16QAM	1	74	19.44	19.58	19.58		
20	16QAM	50	0	19.44	19.58	19.58		
20	16QAM	50	24	19.37	19.58	19.57		
20	16QAM	50	98	19.37	19.58	19.57		
20	16QAM	100	0	19.43	19.60	19.53		
20	16QAM	100	49	19.43	19.60	19.53		
20	256QAM	1	37	19.42	19.67	19.42	21.0	0.1
20	256QAM	1	74	19.39	19.50	19.45		
20	256QAM	50	0	19.42	19.64	19.54		
20	256QAM	50	24	19.39	19.52	19.52		
20	256QAM	50	98	19.35	19.55	19.52		
20	256QAM	100	0	19.47	19.48	19.35		
Channel								
Frequency (MHz)								
20	QPSK	1	0	19.85	19.80	19.80		
20	QPSK	1	25	19.85	19.87	19.87		
20	QPSK	1	49	19.50	19.61	19.50		
20	QPSK	1	98	19.68	19.68	19.68		
20	QPSK	50	0	19.41	19.52	19.54		
20	QPSK	50	24	19.41	19.52	19.50		
20	QPSK	50	98	19.42	19.55	19.45		
20	QPSK	100	0	19.42	19.50	19.37		
20	16QAM	1	25	19.40	19.48	19.46	21.0	0
20	16QAM	1	74	19.40	19.63	19.46		
20	16QAM	50	0	19.40	19.63	19.45		
20	16QAM	50	24	19.40	19.62	19.51		
20	16QAM	50	98	19.47	19.58	19.54		
20	16QAM	100	0	19.41	19.59	19.41		
20	16QAM	100	49	19.40	19.63	19.45		
20	16QAM	1	25	19.44	19.58	19.58	21.0	0
20	16QAM	1	74	19.44	19.58	19.58		
20	16QAM	50	0	19.44	19.58	19.58		
20	16QAM	50	24	19.34	19.51	19.45		
20	16QAM	50	98	19.44	19.54	19.42		
20	16QAM	100	0	19.43	19.60	19.42		
20	16QAM	100	49	19.37	19.58	19.52		
20	16QAM	1	25	19.40	19.59	19.54	21.0	0.1
20	16QAM	1	74	19.39	19.47	19.52		
20	16QAM	50	0	19.42	19.52	19.54		
20	16QAM	50	24	19.41	19.49	19.42		
20	16QAM	50	98	19.41	19.49	19.45		
20	16QAM	100	0	19.41	19.59	19.41		
20	16QAM	100	49	19.37	19.58	19.52		
20	16QAM	1	25	19.40	19.58	19.58	21.0	0
20	16QAM	1	74	19.40	19.63	19.46		
20	16QAM	50	0	19.40	19.63	19.45		
20	16QAM	50	24	19.34	19.51	19.45		
20	16QAM	50	98	19.44	19.54	19.42		
20	16QAM	100	0	19.43	19.60	19.42		
20	16QAM	100	49	19.37	19.58	19.52		
20	16QAM	1	25	19.40	19.59	19.54	21.0	0.1
20	16QAM	1	74	19.39	19.47	19.52		
20	16QAM	50	0	19.42	19.52	19.54		
20	16QAM	50	24	19.41	19.49	19.42		
20	16QAM	50	98	19.41	19.49	19.45		
20	16QAM	100	0	19.41	19.59	19.41		
20	16QAM	100	49	19.37	19.58	19.52		
20	16QAM	1	25	19.40	19.58	19.58	21.0	0
20	16QAM	1	74	19.40	19.63	19.46		
20	16QAM	50	0	19.40	19.63	19.45		
20	16QAM	50	24	19.34	19.51	19.45		
20	16QAM	50	98	19.44	19.54	19.42		
20	16QAM	100	0	19.43	19.60	19.42		
20	16QAM	100	49	19.37	19.58	19.52		
20	16QAM	1	25	19.40	19.59	19.54	21.0	0.1
20	16QAM	1	74	19.39	19.47	19.52		
20	16QAM	50	0	19.42	19.52	19.54		
20	16QAM	50	24	19.41	19.49	19.42		
20	16QAM	50	98	19.41	19.49	19.45		
20	16QAM	100	0	19.41	19.59	19.41		
20	16QAM	100	49	19.37	19.58	19.52		
20	16QAM	1	25	19.40	19.58	19.58	21.0	0
20	16QAM	1	74	19.40	19.63	19.46		
20	16QAM	50	0	19.40	19.63	19.45		
20	16QAM	50	24	19.34	19.51	19.45		
20	16QAM	50	98	19.44	19.54	19.42		
20	16QAM	100	0	19.43	19.60	19.42		
20	16QAM	100	49	19.37	19.58	19.52		
20	16QAM	1	25	19.40	19.59	19.54	21.0	0.1
20	16QAM	1	74	19.39	19.47	19.52		
20	16QAM	50	0	19.42	19.52	19.54		
20	16QAM	50	24	19.41	19.49	19.42		
20	16QAM	50	98	19.41	19.49	19.45		
20	16QAM	100	0	19.41	19.59	19.41		
20	16QAM	100	49	19.37	19.58	19.52		
20	16QAM	1	25	19.40	19.58	19.58	21.0	0
20	16QAM	1	74	19.40	19.63	19.46		
20	16QAM	50	0	19.40	19.63	19.45		
20	16QAM	50	24	19.34	19.51	19.45		
20	16QAM	50	98	19.44	19.54	19.42		
20	16QAM	100	0	19.43	19.60	19.42		
20	16QAM	100	49	19.37	19.58	19.52		
20	16QAM	1	25	19.40	19.59	19.54	21.0	0.1
20	16QAM	1	74	19.39	19.47	19.52		
20	16QAM	50	0	19.42	19.52	19.54		
20	16QAM	50	24	19.41	19.49	19.42		
20	16QAM	50	98	19.41	19.49	19.45		
20	16QAM	100	0	19.41	19.59	19.41		
20	16QAM	100	49	19.37	19.58	19.52		
20	16QAM	1	25	19.40	19.58	19.58	21.0	0
20	16QAM	1	74	19.40	19.63	19.46		
20	16QAM	50	0					



Band 38 DS13_Simultaneous Ant 2									
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)				38750	38900	39150			
20	QPSK	1	0	16.47	16.53	16.62			
20	QPSK	1	49	16.45	16.48	16.40	17.6	0	
20	QPSK	50	24	16.43	16.40	16.36			
20	QPSK	50	24	16.28	16.40	16.36	17.6	0	
20	QPSK	100	0	16.47	16.42	16.35			
20	IQAM	1	0	16.42	16.43	16.31	17.6	0	
20	IQAM	1	49	16.29	16.43	16.36			
20	IQAM	1	99	16.32	16.36	16.26			
20	IQAM	50	24	16.24	16.40	16.36			
20	IQAM	50	24	16.29	16.37	16.31	17.6	0	
20	IQAM	100	0	16.39	16.42	16.36			
20	IQAM	100	0	16.22	16.47	16.31			
20	IQAM	1	49	16.30	16.33	16.37	17.6	0	
20	IQAM	1	99	16.25	16.41	16.31			
20	IQAM	50	0	16.34	16.48	16.40			
20	IQAM	50	24	16.25	16.47	16.26	17.6	0	
20	IQAM	50	50	16.30	16.39	16.28			
20	IQAM	100	0	16.31	16.48	16.34			
20	IQAM	100	0	16.37	16.45	16.44			
20	IQAM	1	49	16.28	16.45	16.32	17.6	0	
20	IQAM	1	99	16.38	16.46	16.37			
20	IQAM	50	0	16.39	16.49	16.37			
20	IQAM	50	24	16.29	16.47	16.36	17.6	0	
20	IQAM	50	50	16.24	16.37	16.27			
20	IQAM	100	0	16.31	16.46	16.35			
Channel									
Frequency (MHz)				39125	39300	39475	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	16.44	16.52	16.38			
15	QPSK	1	37	16.38	16.35	16.27	17.6	0	
15	QPSK	1	74	16.38	16.36	16.30			
15	QPSK	36	0	16.33	16.40	16.27			
15	QPSK	36	20	16.23	16.32	16.32	17.6	0	
15	QPSK	36	39	16.24	16.31	16.29			
15	QPSK	75	0	16.24	16.31	16.29			
15	IQAM	1	0	16.29	16.35	16.24	17.6	0	
15	IQAM	1	37	16.22	16.34	16.21			
15	IQAM	1	74	16.28	16.32	16.16			
15	IQAM	36	0	16.22	16.29	16.27			
15	IQAM	36	20	16.10	16.31	16.26	17.6	0	
15	IQAM	36	39	16.25	16.45	16.28			
15	IQAM	75	0	16.17	16.30	16.15			
15	IQAM	1	0	16.36	16.35	16.16	17.6	0	
15	IQAM	1	37	16.19	16.26	16.26			
15	IQAM	1	74	16.16	16.31	16.19			
15	IQAM	36	0	16.28	16.43	16.29	17.6	0	
15	IQAM	36	20	16.18	16.36	16.19			
15	IQAM	36	39	16.27	16.36	16.26			
15	IQAM	75	0	16.20	16.35	16.30			
15	IQAM	1	0	16.31	16.34	16.38	17.6	0	
15	IQAM	1	37	16.24	16.32	16.24			
15	IQAM	1	74	16.24	16.38	16.27			
15	IQAM	36	0	16.26	16.32	16.34	17.6	0	
15	IQAM	36	20	16.22	16.42	16.34			
15	IQAM	36	39	16.20	16.23	16.18			
15	IQAM	75	0	16.22	16.37	16.30			
Channel									
Frequency (MHz)				39500	39650	39800	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	16.37	16.45	16.40			
10	QPSK	1	25	16.37	16.42	16.34	17.6	0	
10	QPSK	1	49	16.31	16.31	16.23			
10	QPSK	12	0	16.34	16.43	16.36			
10	QPSK	25	12	16.13	16.33	16.30	17.6	0	
10	QPSK	25	25	16.28	16.42	16.33			
10	QPSK	25	49	16.17	16.31	16.27			
10	IQAM	1	0	16.29	16.34	16.21	17.6	0	
10	IQAM	1	25	16.18	16.38	16.27			
10	IQAM	1	49	16.24	16.22	16.14			
10	IQAM	25	0	16.21	16.34	16.30			
10	IQAM	25	12	16.22	16.29	16.26	17.6	0	
10	IQAM	25	25	16.25	16.37	16.32			
10	IQAM	25	49	16.16	16.30	16.27			
10	IQAM	50	0	16.16	16.26	16.41	16.20	16.30	
10	IQAM	50	12	16.20	16.29	16.44	16.41	16.26	
10	IQAM	50	25	16.29	16.34	16.39	16.26	16.18	
10	IQAM	1	49	16.29	16.31	16.37	16.30	16.25	
10	IQAM	25	0	16.29	16.45	16.50	16.50	16.26	
10	IQAM	25	12	16.26	16.22	16.48	16.48	16.27	
10	IQAM	25	25	16.11	16.25	16.35	16.22	16.21	
10	IQAM	50	0	16.22	16.33	16.45	16.41	16.16	
10	IQAM	1	0	16.32	16.28	16.41	16.31	16.40	
10	ZSSBAM	1	25	16.41	16.34	16.53	16.45	16.36	
10	ZSSBAM	1	49	16.32	16.22	16.22	16.37	16.14	
10	ZSSBAM	25	0	16.55	16.45	16.48	16.38	16.25	
10	ZSSBAM	25	12	16.28	16.29	16.50	16.30	16.17	
10	ZSSBAM	25	25	16.21	16.32	16.21	16.24	16.10	
10	ZSSBAM	50	0	16.37	16.44	16.51	16.45	16.30	
Channel									
Frequency (MHz)				39875	40050	40225	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	16.46	16.55	16.59	16.55	16.49	
5	QPSK	1	19	16.49	16.43	16.52	16.43	16.47	17.60
5	QPSK	1	24	16.34	16.45	16.48	16.41	16.30	
5	QPSK	12	0	16.52	16.47	16.54	16.44	16.48	
5	QPSK	12	7	16.24	16.27	16.39	16.31	16.34	17.6
5	QPSK	12	13	16.40	16.44	16.49	16.37	16.26	
5	QPSK	25	0	16.18	16.30	16.52	16.42	16.25	
5	IQAM	1	0	16.39	16.43	16.40	16.36	16.27	
5	IQAM	1	12	16.18	16.29	16.35	16.26	16.11	17.6
5	IQAM	1	24	16.24	16.34	16.31	16.30	16.29	
5	IQAM	12	0	16.28	16.33	16.52	16.49	16.22	
5	IQAM	12	7	16.22	16.28	16.54	16.42	16.35	17.6
5	IQAM	12	13	16.22	16.28	16.42	16.30	16.37	
5	IQAM	25	0	16.14	16.32	16.48	16.28	16.34	
5	IQAM	1	0	16.28	16.27	16.43	16.30	16.26	
5	IQAM	1	12	16.25	16.30	16.40	16.32	16.23	17.6
5	IQAM	1	24	16.24	16.30	16.36	16.28	16.22	
5	IQAM	12	0	16.27	16.42	16.51	16.39	16.21	
5	IQAM	12	7	16.23	16.23	16.48	16.43	16.15	17.6
5	IQAM	12	13	16.18	16.30	16.39	16.25	16.26	
5	IQAM	25	0	16.30	16.23	16.47	16.41	16.18	
5	ZSSBAM	1	0	16.40	16.30	16.42	16.39	16.37	
5	ZSSBAM	1	12	16.22	16.35	16.48	16.25	16.44	17.6
5	ZSSBAM	1	24	16.34	16.29	16.25	16.35	16.31	
5	ZSSBAM	12	0	16.11	16.22	16.31	16.48	16.10	
5	ZSSBAM	12	13	16.10	16.36	16.38	16.27	16.21	17.6
5	ZSSBAM	25	0	16.49	16.57	16.67	16.40	16.40	

Band 41 PC3 FCC&I DS13_Simultaneous Ant 2										
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)				39750	40185	40620	41055	41490		
20	QPSK	1	0	16.51	16.43	16.39	16.54	16.59		
20	QPSK	1	49	16.44	16.58	16.68	16.57	16.53	17.6	
20	QPSK	50	24	16.45	16.57	16.61	16.52	16.49		
20	QPSK	50	0	16.39	16.52	16.62	16.59	16.41		
20	QPSK	50	24	16.30	16.38	16.48	16.42	16.40	17.6	
20	QPSK	100	0	16.48	16.43	16.52	16.45	16.43		
20	QPSK	100	0	16.33	16.48	16.58	16.54	16.36		
20	IQAM	1	0	16.51	16.56	16.49	16.41	16.35	17.6	
20	IQAM	1	49	16.31	16.39	16.45	16.31	16.26		
20	IQAM	1	99	16.30	16.45	16.44	16.36	16.32		
20	IQAM	50	0	16.36	16.47	16.59	16.59	16.36		
20	IQAM	50	24	16.34	16.39	16.54	16.51	16.40	17.6	
20	IQAM	50	50	16.32	16.40	16.54	16.41	16.52		
20	IQAM	100	0	16.27	16.39	16.52	16.41	16.49		
20	IQAM	1	0	16.35	16.39	16.52	16.49	16.31		
20	IQAM	1	49	16.35	16.43	16.48	16.37	16.29	17.6	
20	IQAM	1	99	16.36	16.43	16.48	16.30	16.37		
20	IQAM	50	0	16.30	16.50	16.61	16.53	16.31		
20	IQAM	50	24	16.33	16.36	16.59	16.54	16.32	17.6	
20	IQAM	50	50	16.34	16.38	16.45	16.37	16.34		
20	IQAM	100	0	16.49	16.49	16.59	16.55	16.24		
20	ZSSBAM	1	0	16.52	16.47	16.61	16.45	16.45		
20	ZSSBAM	1	49	16.40	16.42	16.52	16.47	16.52	17.6	
20	ZSSBAM	1	99	16.39	16.19	16.45	16.32	16.27		
20	ZSSBAM	50	0	16.48	16.42	16.55	16.47	16.43		
20	ZSSBAM	50	24	16.24	16.49	16.38	16.28	16.33	17.6	
20	ZSSBAM	50	50	16.23	16.39	16.42	16.34	16.32		
20	ZSSBAM	100	0	16.67	16.59	16.53	16.38			
Channel										
Frequency (MHz)				39725	40173	40620	41058	41515	Tune-up limit (dBm)	MPR (dB)
16	QPSK	1	0	16.41	16.43	16.39	16.54	1		



18.00

Band 41 PC2 FCC&IC DSI3_Simultaneous Ant 2											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up Int (dBm)	MPR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	18.44	18.52	18.54	18.52	18.44	18.52	19.2	0
20	QPSK	1	49	18.36	18.52	18.54	18.49	18.45	18.45	19.2	0
20	QPSK	50	0	18.36	18.52	18.54	18.49	18.45	18.45	19.2	0
20	QPSK	50	24	18.18	18.29	18.39	18.28	18.28	18.28	19.2	0
20	QPSK	100	0	18.18	18.29	18.39	18.28	18.28	18.28	19.2	0
20	16QAM	1	0	18.37	18.49	18.44	18.36	18.30	18.30	19.2	0
20	16QAM	1	49	18.29	18.34	18.39	18.42	18.39	18.39	19.2	0
20	16QAM	1	99	18.24	18.34	18.38	18.28	18.25	18.25	19.2	0
20	16QAM	50	0	18.20	18.43	18.59	18.50	18.37	18.37	19.2	0
20	16QAM	50	24	18.28	18.34	18.39	18.42	18.39	18.39	19.2	0
20	16QAM	100	0	18.20	18.38	18.48	18.28	18.40	18.40	19.2	0
20	16QAM	100	0	18.25	18.27	18.36	18.29	18.25	18.25	19.2	0
20	16QAM	100	24	18.30	18.32	18.42	18.35	18.24	18.24	19.2	0
20	16QAM	100	0	18.22	18.31	18.40	18.35	18.29	18.29	19.2	0
20	16QAM	50	0	18.20	18.39	18.46	18.20	18.19	18.19	19.2	0
20	16QAM	50	24	18.28	18.30	18.35	18.42	18.28	18.28	19.2	0
20	16QAM	100	0	18.21	18.30	18.42	18.20	18.27	18.27	19.2	0
20	16QAM	100	0	18.25	18.35	18.45	18.48	18.18	18.18	19.2	0
20	16QAM	100	24	18.28	18.30	18.35	18.42	18.28	18.28	19.2	0
20	256QAM	1	0	18.21	18.37	18.57	18.50	18.24	18.24	19.2	0
20	256QAM	1	49	18.28	18.28	18.48	18.42	18.28	18.28	19.2	0
20	256QAM	1	99	18.14	18.32	18.41	18.23	18.30	18.30	19.2	0
20	256QAM	50	0	18.19	18.30	18.45	18.29	18.18	18.18	19.2	0
20	256QAM	50	24	18.32	18.31	18.45	18.36	18.18	18.18	19.2	0
20	256QAM	100	0	18.30	18.38	18.35	18.27	18.23	18.23	19.2	0
20	256QAM	100	0	18.23	18.31	18.40	18.20	18.20	18.20	19.2	0
Channel											
Frequency (MHz)											
15	QPSK	1	0	18.23	18.51	18.54	18.43	18.33	18.33	19.20	0
15	QPSK	1	37	18.23	18.47	18.43	18.34	18.33	18.33	19.20	0
15	QPSK	1	74	18.31	18.47	18.38	18.24	18.28	18.28	19.20	0
15	QPSK	1	0	18.25	18.22	18.50	18.40	18.18	18.18	19.2	0
15	QPSK	36	20	18.07	18.24	18.25	18.21	18.19	18.19	19.2	0
15	QPSK	36	39	18.27	18.30	18.45	18.29	18.18	18.18	19.2	0
15	QPSK	75	0	18.10	18.31	18.41	18.29	18.18	18.18	19.2	0
15	16QAM	1	0	18.27	18.37	18.29	18.23	18.21	18.21	19.2	0
15	16QAM	1	37	18.28	18.35	18.34	18.20	18.19	18.19	19.2	0
15	16QAM	1	74	18.13	18.31	18.29	18.19	18.19	18.19	19.2	0
15	16QAM	36	0	18.17	18.39	18.53	18.47	18.27	18.27	19.2	0
15	16QAM	36	20	18.17	18.21	18.32	18.22	18.20	18.20	19.2	0
15	16QAM	36	39	18.14	18.34	18.44	18.22	18.27	18.27	19.2	0
15	16QAM	75	0	18.08	18.25	18.25	18.15	18.23	18.23	19.2	0
15	16QAM	75	0	18.19	18.22	18.35	18.25	18.15	18.15	19.2	0
15	16QAM	1	37	18.25	18.28	18.35	18.21	18.09	18.09	19.2	0
15	16QAM	74	0	18.15	18.27	18.37	18.20	18.18	18.18	19.2	0
15	16QAM	36	0	18.17	18.38	18.32	18.40	18.08	18.08	19.2	0
15	16QAM	36	20	18.19	18.15	18.51	18.38	18.22	18.22	19.2	0
15	16QAM	36	39	18.17	18.17	18.30	18.20	18.15	18.15	19.2	0
15	16QAM	75	0	18.20	18.28	18.30	18.10	18.00	18.00	19.2	0
15	256QAM	1	0	18.06	18.24	18.49	18.36	18.15	18.15	19.2	0
15	256QAM	1	37	18.28	18.30	18.45	18.29	18.18	18.18	19.2	0
15	256QAM	1	74	18.02	18.28	18.26	18.13	18.19	18.19	19.2	0
15	256QAM	36	0	18.01	18.21	18.35	18.21	18.16	18.16	19.2	0
15	256QAM	36	20	18.18	18.16	18.51	18.31	18.15	18.15	19.2	0
15	256QAM	36	39	18.26	18.25	18.22	18.21	18.11	18.11	19.2	0
15	256QAM	75	0	18.07	18.24	18.50	18.30	18.11	18.11	19.2	0
Channel											
Frequency (MHz)											
10	QPSK	1	0	18.41	18.47	18.47	18.47	18.36	18.36	19.20	0
10	QPSK	1	25	18.32	18.48	18.47	18.43	18.37	18.37	19.20	0
10	QPSK	1	49	18.32	18.40	18.35	18.32	18.32	18.32	19.20	0
10	QPSK	1	0	18.17	18.31	18.30	18.20	18.18	18.18	19.2	0
10	QPSK	25	12	18.12	18.25	18.24	18.21	18.12	18.12	19.2	0
10	QPSK	25	25	18.26	18.40	18.29	18.22	18.15	18.15	19.2	0
10	QPSK	1	0	18.18	18.30	18.34	18.24	18.14	18.14	19.2	0
10	16QAM	1	0	18.29	18.44	18.32	18.32	18.22	18.22	19.2	0
10	16QAM	1	25	18.08	18.27	18.32	18.19	18.13	18.13	19.2	0
10	16QAM	1	49	18.18	18.26	18.29	18.14	18.11	18.11	19.2	0
10	16QAM	25	0	18.16	18.37	18.46	18.43	18.20	18.20	19.2	0
10	16QAM	25	12	18.22	18.25	18.39	18.23	18.23	18.23	19.2	0
10	16QAM	50	0	18.15	18.18	18.23	18.25	18.13	18.13	19.2	0
10	16QAM	50	12	18.14	18.22	18.36	18.20	18.14	18.14	19.2	0
10	16QAM	1	25	18.20	18.27	18.33	18.18	18.12	18.12	19.2	0
10	16QAM	1	49	18.19	18.27	18.35	18.27	18.25	18.25	19.2	0
10	16QAM	25	0	18.22	18.29	18.40	18.30	18.05	18.05	19.2	0
10	16QAM	25	12	18.21	18.21	18.46	18.37	18.21	18.21	19.2	0
10	16QAM	25	25	18.09	18.17	18.33	18.25	18.13	18.13	19.2	0
10	16QAM	50	0	18.22	18.31	18.43	18.42	18.05	18.05	19.2	0
10	256QAM	1	0	18.17	18.26	18.45	18.37	18.15	18.15	19.2	0
10	256QAM	1	25	18.17	18.19	18.41	18.30	18.24	18.24	19.2	0
10	256QAM	1	49	18.10	18.27	18.34	18.21	18.15	18.15	19.2	0
10	256QAM	25	0	18.10	18.26	18.45	18.38	18.20	18.20	19.2	0
10	256QAM	25	12	18.19	18.22	18.36	18.25	18.19	18.19	19.2	0
10	256QAM	25	25	18.15	18.35	18.31	18.22	18.12	18.12	19.2	0
10	256QAM	50	0	18.13	18.27	18.38	18.17	18.13	18.13	19.2	0
Channel											
Frequency (MHz)											
5	QPSK	1	0	18.44	18.41	18.59	18.45	18.43	18.43	19.20	0
5	QPSK	1	12	18.30	18.48	18.47	18.39	18.33	18.33	19.20	0
5	QPSK	1	24	18.26	18.38	18.44	18.34	18.29	18.29	19.20	0
5	QPSK	12	0	18.21	18.28	18.50	18.40	18.11	18.11	19.2	0
5	QPSK	12	7	18.05	18.22	18.31	18.16	18.18	18.18	19.2	0
5	QPSK	12	18	18.27	18.41	18.35	18.31	18.13	18.13	19.2	0
5	QPSK	25	0	18.14	18.34	18.38	18.20	18.14	18.14	19.2	0
5	16QAM	1	0	18.28	18.39	18.38	18.29	18.19	18.19	19.2	0
5	16QAM	1	12	18.12	18.29	18.34	18.13	18.05	18.05	19.2	0
5	16QAM	1	24	18.14	18.30	18.35	18.21	18.16	18.16	19.2	0
5	16QAM	12	0	18.27	18.35	18.44	18.43	18.25	18.25	19.2	0
5	16QAM	12	7	18.22	18.28	18.45	18.34	18.18	18.18	19.2	0
5	16QAM	12	13	18.12	18.28	18.42	18.15	18.30	18.30	19.2	0
5	16QAM	25	0	18.09	18.23	18.28	18.21	18.25	18.25	19.2	0
5	16QAM	1	0	18.22	18.19	18.34	18.30	18.09	18.09	19.2	0
5	16QAM	1	12	18.26	18.24	18.29	18.16	18.16	18.16	19.2	0



CSM1900 Act1		DRG Simulations							
	Band	Frequency Range (MHz)			Turnup	Frame-Sizing Prot. (dB)			Turnup
	Rx Channel	812	861	810	Limit	812	861	810	Limit
Frequency (MHz)		1912	1920	1918	(dB)	1912	1920	1918	(dB)
DRM 1 Tx Wd		29.42	29.49	29.46	30.00	22.42	20.49	20.46	21.00
DRM 1 Tx Wd		29.38	29.40	29.32	30.00	20.38	20.45	20.32	21.00
DRM 2 Tx Wd		29.26	29.42	29.38	27.00	20.28	20.42	20.38	21.00
DRM 3 Tx Wd		24.50	24.57	24.43	25.00	20.24	20.31	20.17	21.00
DRM 4 Tx Wd		22.80	22.91	22.80	24.00	19.80	19.90	19.80	21.00
EDGE 1 Tx Wd		23.06	23.13	24.59	26.00	18.06	18.13	18.59	17.00
EDGE 2 Tx Wd		21.33	21.43	21.49	24.00	17.33	17.43	17.49	18.00
EDGE 3 Tx Wd		22.21	22.25	22.20	23.00	17.20	18.00	17.20	19.24
EDGE 4 Tx Wd		20.13	20.18	20.08	21.00	17.13	17.18	17.08	18.00
DRG Simulation WCDMA 1915									
	Band	WCDMA II			Turnup	WCDMA IV			Turnup
	Rx Channel	862	960	838	Limit	812	861	810	Limit
Frequency (MHz)		1662	1600	1668	(dB)	1512	1608	1798	(dB)
SOPF Rate (G)	AWG 12 2Mbps	19.56	20.00	20.50	21.00	19.24	19.24	19.24	21.40
SOPF Rate (G)	RMC 12 2Mbps	19.99	20.10	20.04	21.00	20.34	20.45	20.37	21.45
SOPF Rate (G)	HEIPA Subclass 1	19.01	19.10	19.14	20.00	19.30	19.44	19.47	20.40
SOPF Rate (G)	HEIPA Subclass 2	19.07	19.17	18.88	20.00	19.33	19.52	19.24	20.40
SOPF Rate (G)	HEIPA Subclass 3	18.52	18.81	18.53	20.00	18.61	18.80	18.60	19.00
SOPF Rate (G)	HEIPA Subclass 4	18.46	18.70	18.62	20.00	18.81	18.84	18.93	19.90
SOPF Rate (G)	DC-HEIPA Subclass 1	18.08	18.10	18.04	20.00	18.34	18.52	18.36	20.40
SOPF Rate (G)	DC-HEIPA Subclass 2	18.37	18.30	18.33	20.00	18.32	18.63	18.44	20.40
SOPF Rate (G)	DC-HEIPA Subclass 3	18.35	18.24	18.50	20.00	18.81	18.50	18.69	19.90
SOPF Rate (G)	DC-HEIPA Subclass 4	18.41	18.50	18.50	20.00	18.71	18.80	18.71	19.00
SOPF Rate (G)	HEIPA Subclass 1	19.10	19.32	19.00	20.00	19.44	19.62	19.33	20.40
SOPF Rate (G)	HEIPA Subclass 2	17.27	17.32	17.15	18.00	17.58	17.44	17.46	18.40
SOPF Rate (G)	HEIPA Subclass 3	18.22	18.10	18.04	19.00	18.49	18.40	18.30	19.40
SOPF Rate (G)	HEIPA Subclass 4	17.00	17.23	17.18	18.00	17.27	17.67	17.43	18.40
SOPF Rate (G)	HEIPA Subclass 5	19.06	19.00	18.97	20.00	19.31	19.32	19.26	20.40



Band 2 DS13_Simultaneous Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up (min)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.14	20.23	20.17				
20	QPSK	1	49	20.10	20.20	20.14	21.3	0		
20	QPSK	1	99	20.10	20.20	20.14				
20	QPSK	50	0	20.15	20.20	20.17				
20	QPSK	50	24	20.05	20.15	20.10	21.3	0		
20	QPSK	50	50	20.00	20.14	20.10				
20	QPSK	100	0	20.04	20.10	20.10				
20	16QAM	100	0	20.05	20.11	20.09				
20	16QAM	1	49	20.00	20.09	20.00	21.3	0		
20	16QAM	1	99	20.13	20.07	20.03				
20	16QAM	50	0	20.01	20.10	20.11				
20	16QAM	50	24	20.01	20.10	20.12	21.3	0		
20	16QAM	50	50	20.08	20.11	20.13				
20	16QAM	100	0	20.02	20.08	20.08				
20	84QAM	1	0	19.98	19.18	20.00				
20	84QAM	1	49	20.02	20.10	20.05	21.3	0		
20	84QAM	1	99	19.95	20.10	20.07				
20	84QAM	50	0	20.05	20.14	20.11				
20	84QAM	50	24	19.99	20.18	20.02	21.3	0		
20	84QAM	50	50	19.90	20.08	19.96				
20	84QAM	100	0	20.01	20.10	20.10				
20	256QAM	1	0	19.47	19.60	19.48				
20	256QAM	1	49	19.51	19.63	19.45	21	0.3		
20	256QAM	1	99	19.38	19.43	19.33				
20	256QAM	50	0	19.45	19.50	19.45				
20	256QAM	50	24	19.33	19.39	19.36	21	0.3		
20	256QAM	50	50	19.25	19.35	19.32				
20	256QAM	100	0	19.43	19.50	19.43				
Channel										
Frequency (MHz)										
15	QPSK	1	0	19.99	20.18	20.02				
15	QPSK	1	37	19.97	20.18	20.06	21.3	0		
15	QPSK	1	74	19.95	20.18	20.06				
15	QPSK	36	0	20.11	20.13	20.11				
15	QPSK	36	24	19.93	20.14	19.98	21.3	0		
15	QPSK	36	39	19.93	20.01	19.97				
15	QPSK	75	0	19.98	20.01	19.99				
15	16QAM	1	0	19.94	20.06	19.93				
15	16QAM	1	37	19.98	19.94	19.99	21.3	0		
15	16QAM	1	74	19.95	20.04	19.95				
15	16QAM	36	0	19.96	20.04	20.05				
15	16QAM	36	24	19.96	20.15	20.03	21.3	0		
15	16QAM	36	39	19.99	20.01	19.99				
15	16QAM	75	0	19.99	20.01	19.99				
15	84QAM	1	0	19.93	20.09	19.90				
15	84QAM	1	37	19.95	19.99	19.98	21.3	0		
15	84QAM	1	74	19.98	19.97	19.94				
15	84QAM	36	0	19.99	20.00	20.01				
15	84QAM	36	24	19.87	20.06	19.98	21.3	0		
15	84QAM	36	39	19.92	19.97	19.93				
15	84QAM	75	0	19.97	20.04	19.97				
15	256QAM	1	0	19.39	19.50	19.40				
15	256QAM	1	37	19.39	19.50	19.40	21	0.3		
15	256QAM	1	74	19.33	19.30	19.38				
15	256QAM	36	0	19.45	19.45	19.45				
15	256QAM	36	24	19.23	19.25	19.20	21	0.3		
15	256QAM	36	39	19.14	19.23	19.20				
15	256QAM	75	0	19.38	19.43	19.38				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.11	20.14	20.14				
10	QPSK	1	25	19.95	20.14	20.07	21.3	0		
10	QPSK	1	49	20.04	20.08	20.11				
10	QPSK	12	0	20.03	20.03	20.03				
10	QPSK	12	12	19.93	20.00	19.91	21.3	0		
10	QPSK	25	0	19.98	20.01	20.05				
10	16QAM	1	0	19.92	20.05	19.95				
10	16QAM	1	24	19.89	20.03	19.87	21.3	0		
10	16QAM	1	49	19.98	20.06	19.98				
10	16QAM	12	0	19.96	20.12	19.99				
10	16QAM	12	12	19.89	20.04	20.07	21.3	0		
10	16QAM	12	25	19.95	20.03	19.98				
10	16QAM	50	0	19.92	19.92	19.99				
10	84QAM	1	0	19.84	20.09	19.90				
10	84QAM	1	24	19.95	19.98	19.92	21.3	0		
10	84QAM	1	49	19.82	19.98	19.96				
10	84QAM	12	0	19.91	20.07	19.96				
10	84QAM	12	12	19.88	20.03	19.98	21.3	0		
10	84QAM	25	0	19.87	19.99	19.85				
10	84QAM	50	0	19.94	20.07	19.87				
10	256QAM	1	0	19.38	19.47	19.41				
10	256QAM	1	24	19.28	19.27	19.34	21	0.3		
10	256QAM	1	49	19.27	19.31	19.27				
10	256QAM	12	0	19.25	19.45	19.38				
10	256QAM	12	12	19.28	19.30	19.26	21	0.3		
10	256QAM	25	0	19.14	19.28	19.20				
10	256QAM	50	0	19.33	19.44	19.39				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.00	20.14	20.14				
5	QPSK	1	12	19.98	20.05	19.94	21.3	0		
5	QPSK	1	24	20.05	20.07	20.05				
5	QPSK	12	0	19.93	20.00	19.98				
5	QPSK	12	12	19.93	20.01	20.00	21.3	0		
5	QPSK	12	13	19.90	20.00	19.98				
5	QPSK	25	0	19.94	20.00	19.99				
5	16QAM	1	0	19.98	19.97	19.97				
5	16QAM	1	12	19.93	20.05	19.94	21.3	0		
5	16QAM	1	24	20.05	20.03	20.08				
5	16QAM	12	0	19.86	20.01	20.01				
5	16QAM	12	7	19.87	20.08	19.87	21.3	0		
5	16QAM	12	13	20.01	20.06	20.06				
5	16QAM	25	0	19.90	19.95	19.94				
5	84QAM	1	0	19.88	20.12	19.86				
5	84QAM	1	12	19.97	19.95	19.99	21.3	0		
5	84QAM	1	24	19.85	20.05	19.92				
5	84QAM	12	0	19.86	20.03	20.04				
5	84QAM	12	7	19.93	20.12	19.93	21.3	0		
5	84QAM	12	13	19.92	19.98	19.81				
5	84QAM	25	0	19.87	19.90	19.88				
5	256QAM	1	0	19.37	19.59	19.59				
5	256QAM	1	12	19.43	19.52	19.42	21	0.3		
5	256QAM	1	24	19.25	19.33	19.30				
5	256QAM	12	0	19.26	19.45	19.43				
5	256QAM	12	7	19.28	19.33	19.25	21	0.3		
5	256QAM	12	13	19.13	19.29	19.28				
5	256QAM	25	0	19.29	19.39	19.46				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.01	20.20	20.15				
3	QPSK	1	8	19.96	20.08	20.08	21.3	0		
3	QPSK	1	14	20.05	20.08	20.02				
3	QPSK	8	0	20.01	20.08	20.08				
3	QPSK	8	4	19.97	20.02	19.94	21.3	0		
3	QPSK	8	7	19.94	20.00	19.99				
3	QPSK	15	0	20.00	20.01	20.00				
3	16QAM	1	0	20.02	20.00	19.87				
3	16QAM	1	8	19.85	19.98	19.85	21.3	0		
3	16QAM	1	14	20.07	19.97	19.98				
3	16QAM	8	0	19.96	20.03	20.07				
3	16QAM	8	4	19.86	20.08	20.01	21.3	0		
3	16QAM	8	7	19.94	20.00	20.02				
3	16QAM	15	0	19.97	19.99	20.01				
3	84QAM	1	0	19.83	20.07	19.90				
3	84QAM	1	8	19.93	20.05					



Band 25 DSIS_Simultaneous Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Time-up (min)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.27	20.24	20.22				
20	QPSK	1	66	20.12	20.28	20.17	21.3	0		
20	QPSK	50	0	20.15	20.26	20.16				
20	QPSK	24	0	20.15	20.26	20.16				
20	QPSK	50	50	20.10	20.20	20.16	21.3	0		
20	QPSK	100	0	20.12	20.21	20.11				
20	16QAM	1	0	20.08	20.12	20.09				
20	16QAM	1	49	20.11	20.23	20.16	21.3	0		
20	16QAM	1	99	20.04	20.19	20.08				
20	16QAM	1	99	20.15	20.20	20.07				
20	16QAM	50	24	20.13	20.16	20.11	21.3	0		
20	16QAM	50	50	20.07	20.16	20.13				
20	16QAM	100	0	20.15	20.22	20.19				
20	64QAM	1	0	20.01	20.12	19.98				
20	64QAM	1	49	20.02	20.16	20.03	21.3	0		
20	64QAM	1	99	20.02	20.11	20.08				
20	64QAM	50	0	20.08	20.21	20.11				
20	64QAM	50	24	20.12	20.17	20.07	21.3	0		
20	64QAM	50	50	20.02	20.10	20.04				
20	256QAM	1	0	19.87	19.92	19.82				
20	256QAM	1	49	19.43	19.65	19.47	21	0.3		
20	256QAM	1	99	19.44	19.42	19.40				
20	256QAM	50	0	19.82	19.90	19.86				
20	256QAM	50	24	19.38	19.46	19.41	21	0.3		
20	256QAM	50	50	19.42	19.40	19.39				
20	256QAM	100	0	19.44	19.44	19.44				
Channel										
Frequency (MHz)										
19	QPSK	1	0	20.21	20.21	20.08				
19	QPSK	1	67	20.09	20.20	20.09	21.3	0		
19	QPSK	1	74	20.02	20.19	20.03				
19	QPSK	36	0	20.04	20.14	20.02				
19	QPSK	36	36	20.04	20.11	19.97	21.3	0		
19	QPSK	36	36	19.96	20.12	20.12				
19	QPSK	75	0	19.97	20.07	20.06				
19	16QAM	1	0	20.02	20.03	19.93				
19	16QAM	1	37	20.01	20.20	20.03	21.3	0		
19	16QAM	1	74	20.11	20.13	20.10				
19	16QAM	36	0	20.10	20.15	20.03				
19	16QAM	36	20	20.01	20.03	19.97	21.3	0		
19	16QAM	75	0	20.10	20.11	20.07				
19	64QAM	1	0	19.89	20.02	19.94				
19	64QAM	1	37	19.89	20.01	19.98	21.3	0		
19	64QAM	1	74	19.94	19.97	20.03				
19	64QAM	36	0	20.02	20.17	20.06				
19	64QAM	36	20	20.03	20.03	20.03	21.3	0		
19	64QAM	75	0	20.10	20.11	20.00				
19	256QAM	1	0	19.94	20.04	19.90				
19	256QAM	1	37	19.40	19.61	19.37	21	0.3		
19	256QAM	1	74	19.30	19.32	19.36				
19	256QAM	36	0	19.87	19.88	19.84				
19	256QAM	36	20	19.29	19.43	19.29	21	0.3		
19	256QAM	36	36	19.34	19.35	19.26				
19	256QAM	75	0	19.32	19.31	19.40				
Channel										
Frequency (MHz)										
19	QPSK	1	0	20.13	20.20	20.12				
19	QPSK	1	26	20.14	20.24	20.08	21.3	0		
19	QPSK	1	49	19.99	20.12	20.11				
19	QPSK	12	0	20.08	20.08	20.06				
19	QPSK	25	10	20.08	20.08	19.94	21.3	0		
19	QPSK	25	25	20.00	20.08	20.08				
19	QPSK	50	0	19.97	20.07	20.06				
19	16QAM	1	0	19.96	20.08	19.94				
19	16QAM	1	26	20.02	20.19	20.02	21.3	0		
19	16QAM	1	49	19.93	20.03	19.90				
19	16QAM	25	0	20.06	20.08	19.93				
19	16QAM	25	12	20.02	20.04	19.98	21.3	0		
19	16QAM	25	25	20.06	20.03	19.90				
19	16QAM	50	0	20.02	20.18	20.10				
19	64QAM	1	0	19.98	20.02	19.90				
19	64QAM	1	26	19.93	20.15	19.94	21.3	0		
19	64QAM	1	49	19.96	20.04	20.00				
19	64QAM	25	0	19.97	20.07	20.01				
19	64QAM	25	12	19.91	20.04	19.98	21.3	0		
19	64QAM	25	25	19.94	20.13	20.03				
19	64QAM	50	0	19.93	20.04	19.92				
19	256QAM	1	0	19.87	19.83	19.43				
19	256QAM	1	26	19.30	19.59	19.44	21	0.3		
19	256QAM	1	49	19.35	19.25	19.35				
19	256QAM	25	0	19.87	19.82	19.48				
19	256QAM	25	12	19.32	19.32	19.33	21	0.3		
19	256QAM	25	25	19.37	19.28	19.25				
19	256QAM	50	0	19.41	19.52	19.47				
Channel										
Frequency (MHz)										
19	QPSK	1	0	20.13	20.20	20.12				
19	QPSK	1	14	20.09	20.22	20.12	21.3	0		
19	QPSK	1	24	20.00	20.22	20.12				
19	QPSK	12	0	20.08	20.06	20.06				
19	QPSK	12	7	19.98	20.11	19.99	21.3	0		
19	QPSK	12	13	19.95	20.07	20.08				
19	QPSK	25	0	19.98	20.14	20.06				
19	16QAM	1	0	19.95	20.02	19.89				
19	16QAM	1	12	20.01	20.19	20.06	21.3	0		
19	16QAM	1	24	19.98	20.07	19.90				
19	16QAM	12	0	20.10	20.10	19.84				
19	16QAM	12	7	20.03	20.06	20.08	21.3	0		
19	16QAM	12	13	19.97	20.13	19.84				
19	16QAM	25	0	20.10	20.18	20.12				
19	64QAM	1	0	19.93	19.98	19.89				
19	64QAM	1	12	19.91	20.04	19.98	21.3	0		
19	64QAM	1	24	19.97	19.98	20.04				
19	64QAM	12	0	19.98	20.16	19.98				
19	64QAM	12	7	19.92	20.09	19.92	21.3	0		
19	64QAM	12	13	19.92	20.09	20.03				
19	64QAM	25	0	19.93	19.97	19.99				
19	256QAM	1	0	19.87	19.87	19.38				
19	256QAM	1	12	19.38	19.52	19.31	21	0.3		
19	256QAM	1	24	19.31	19.20	19.28				
19	256QAM	12	0	19.37	19.58	19.42				
19	256QAM	12	7	19.32	19.41	19.26	21	0.3		
19	256QAM	12	13	19.38	19.32	19.30				
19	256QAM	25	0	19.31	19.50	19.40				
Channel										
Frequency (MHz)										
19	QPSK	1	0	20.14	20.21	20.17				
19	QPSK	1	8	20.13	20.18	20.04	21.3	0		
19	QPSK	1	14	20.06	20.17	20.13				
19	QPSK	8	0	20.05	20.16	20.10				
19	QPSK	8	4	20.06	20.09	20.00	21.3	0		
19	QPSK	8	7	19.98	20.06	20.02				
19	16QAM	1	0	20.08	20.10	20.07				
19	16QAM	1	8	20.02	20.15	20.12	21.3	0		
19	16QAM	1	14	19.91	20.03	19.96				
19	16QAM	8	0	20.01	20.14	20.02				
19	16QAM	8	4	19.99	20.13	19.98	21.3	0		
19	16QAM	8	7	19.99	20.13	20.00				
19	64QAM	1	0	19.91	20.01	19.93				
19	64QAM	1	8	19.92	20.10	19.90	21.3	0		
19	64QAM	1	14	19.96	20.06	19.94				
19	64QAM	8	0	20.03	20.10	20.06				
19	64QAM	8	4	20.10	20.12	20.00	21.3	0		
19	64QAM	8	7	19.99	20.13	20.06				



Band 38 DS13_Simultaneous Ant 3

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)								
20	QPSK	1	0	19.33	19.40	19.34	20.6	0
20	QPSK	1	49	19.24	19.32	19.28	20.6	0
20	QPSK	50	24	19.29	19.32	19.29	20.6	0
20	QPSK	50	24	19.09	19.32	19.23	20.6	0
20	QPSK	100	0	19.16	19.30	19.21	20.6	0
20	16QAM	1	0	19.09	19.25	19.23	20.6	0
20	16QAM	1	49	19.20	19.42	19.28	20.6	0
20	16QAM	1	99	19.08	19.25	19.02	20.6	0
20	16QAM	50	24	19.26	19.28	19.26	20.6	0
20	16QAM	50	24	19.20	19.42	19.28	20.6	0
20	16QAM	50	50	19.26	19.34	19.18	20.6	0
20	16QAM	100	0	19.20	19.41	19.35	20.6	0
20	16QAM	100	0	19.19	19.37	19.32	20.6	0
20	16QAM	1	99	19.09	19.33	19.21	20.6	0
20	16QAM	50	24	19.20	19.38	19.12	20.6	0
20	16QAM	50	50	19.21	19.16	19.24	20.6	0
20	16QAM	100	0	19.17	19.38	19.27	20.6	0
20	256QAM	1	0	19.22	19.41	19.17	20.5	0.1
20	256QAM	1	49	19.20	19.36	19.21	20.5	0.1
20	256QAM	1	99	19.30	19.28	19.26	20.5	0.1
20	256QAM	50	24	19.27	19.32	19.25	20.5	0.1
20	256QAM	50	24	19.38	19.14	19.32	20.5	0.1
20	256QAM	50	50	19.18	19.22	19.28	20.5	0.1
20	256QAM	100	0	19.21	19.40	19.28	20.5	0.1
Channel								
Frequency (MHz)								
15	QPSK	1	0	20.74	20.90	20.75	20.6	0
15	QPSK	1	37	19.18	19.11	19.04	20.6	0
15	QPSK	1	74	19.92	19.10	19.00	20.6	0
15	QPSK	36	20	19.21	19.05	19.05	20.6	0
15	QPSK	36	20	19.80	19.18	19.06	20.6	0
15	QPSK	75	0	19.02	19.01	19.08	20.6	0
15	16QAM	1	0	19.89	19.36	19.12	20.6	0
15	16QAM	1	37	19.04	19.04	19.04	20.6	0
15	16QAM	1	74	19.75	19.15	19.09	20.6	0
15	16QAM	36	20	19.08	19.32	19.11	20.6	0
15	16QAM	36	20	19.04	19.30	19.18	20.6	0
15	16QAM	36	59	19.17	19.18	19.03	20.6	0
15	16QAM	75	0	19.35	19.24	19.09	20.6	0
15	16QAM	75	0	19.44	19.33	19.23	20.6	0
15	16QAM	1	37	19.06	19.14	19.04	20.6	0
15	16QAM	1	74	19.84	19.13	19.09	20.6	0
15	16QAM	36	20	19.09	19.11	19.18	20.6	0
15	16QAM	36	20	19.19	19.20	19.01	20.6	0
15	16QAM	36	59	19.24	19.02	19.08	20.6	0
15	16QAM	75	0	19.17	19.28	19.17	20.6	0
15	256QAM	1	0	19.21	19.42	19.25	20.5	0.1
15	256QAM	1	37	19.03	19.27	19.15	20.5	0.1
15	256QAM	1	74	19.19	19.12	19.08	20.5	0.1
15	256QAM	36	20	19.17	19.34	19.05	20.5	0.1
15	256QAM	36	20	19.23	19.02	19.02	20.5	0.1
15	256QAM	36	59	19.27	19.11	19.16	20.5	0.1
15	256QAM	75	0	19.40	19.31	19.24	20.5	0.1
Channel								
Frequency (MHz)								
10	QPSK	1	0	19.78	19.74	19.74	20.6	0
10	QPSK	1	25	19.97	19.21	19.96	20.6	0
10	QPSK	1	49	19.88	19.85	19.92	20.6	0
10	QPSK	25	12	19.96	19.20	19.97	20.6	0
10	QPSK	25	12	19.87	19.19	19.06	20.6	0
10	QPSK	25	25	19.73	19.07	19.05	20.6	0
10	16QAM	1	0	19.81	19.88	19.11	20.6	0
10	16QAM	1	25	19.91	19.96	19.96	20.6	0
10	16QAM	1	49	19.87	19.99	19.82	20.6	0
10	16QAM	25	0	19.13	19.36	19.14	20.6	0
10	16QAM	25	12	19.97	19.34	19.14	20.6	0
10	16QAM	25	25	19.14	19.05	19.08	20.6	0
10	16QAM	50	0	19.41	19.38	19.24	20.6	0
10	16QAM	50	0	19.07	19.22	19.15	20.6	0
10	16QAM	1	25	19.88	19.28	19.05	20.6	0
10	16QAM	1	49	19.79	19.16	19.07	20.6	0
10	16QAM	25	0	19.16	19.02	19.12	20.6	0
10	16QAM	25	12	19.17	19.22	19.95	20.6	0
10	16QAM	25	25	19.03	19.99	19.98	20.6	0
10	16QAM	50	0	19.32	19.19	19.02	20.6	0
10	256QAM	1	0	19.22	19.42	19.14	20.5	0.1
10	256QAM	1	25	19.23	19.39	19.05	20.5	0.1
10	256QAM	1	49	19.00	19.10	19.20	20.5	0.1
10	256QAM	25	0	19.21	19.33	19.15	20.5	0.1
10	256QAM	25	12	19.27	19.09	19.15	20.5	0.1
10	256QAM	25	25	19.22	19.09	19.39	20.5	0.1
10	256QAM	50	0	19.24	19.35	19.32	20.5	0.1
Channel								
Frequency (MHz)								
5	QPSK	1	0	19.14	19.26	19.15	20.6	0
5	QPSK	1	19	19.07	19.18	19.07	20.6	0
5	QPSK	1	24	19.95	19.81	19.02	20.6	0
5	QPSK	12	0	19.86	19.19	19.00	20.6	0
5	QPSK	12	7	19.83	19.07	19.09	20.6	0
5	QPSK	12	19	19.90	19.93	19.12	20.6	0
5	QPSK	25	0	19.96	19.11	19.03	20.6	0
5	QPSK	25	0	19.00	19.07	19.93	20.6	0
5	16QAM	1	12	19.88	19.03	19.90	20.6	0
5	16QAM	1	24	19.71	19.90	19.90	20.6	0
5	16QAM	12	0	19.20	19.36	19.18	20.6	0
5	16QAM	12	7	19.91	19.17	19.09	20.6	0
5	16QAM	12	13	19.10	19.16	19.06	20.6	0
5	16QAM	25	0	19.28	19.23	19.20	20.6	0
5	16QAM	1	0	19.87	19.29	19.29	20.6	0
5	16QAM	1	12	19.90	19.98	19.17	20.6	0
5	16QAM	1	24	19.89	19.10	19.09	20.6	0
5	16QAM	12	0	19.34	19.15	19.05	20.6	0
5	16QAM	12	7	19.05	19.12	19.04	20.6	0
5	16QAM	12	13	19.02	19.85	19.15	20.6	0
5	16QAM	25	0	19.30	19.17	19.16	20.6	0
5	256QAM	1	0	19.97	19.33	19.24	20.5	0.1
5	256QAM	1	12	19.13	19.26	19.21	20.5	0.1
5	256QAM	1	24	19.11	19.12	19.02	20.5	0.1
5	256QAM	12	0	19.14	19.17	19.16	20.5	0.1
5	256QAM	12	7	19.14	19.21	19.16	20.5	0.1
5	256QAM	25	0	19.22	19.21	19.21	20.5	0.1

Band 41 FCC&IC DS13_Simultaneous Ant 3

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)								
20	QPSK	1	0	19.45	19.42	19.39	20.6	0
20	QPSK	1	49	19.17	19.28	19.33	20.6	0
20	QPSK	50	24	19.28	19.37	19.34	20.6	0
20	QPSK	50	24	19.08	19.30	19.18	20.6	0
20	QPSK	100	0	19.27	19.26	19.40	20.6	0
20	16QAM	1	0	19.58	19.56	19.49	20.6	0
20	16QAM	1	49	19.82	19.55	19.42	20.6	0
20	16QAM	1	99	19.95	19.55	19.54	20.6	0
20	16QAM	50	24	19.52	19.36	19.48	20.6	0
20	16QAM	50	24	19.16	19.19	19.32	20.6	0
20	16QAM	50	50	19.21	19.16	19.38	20.6	0
20	16QAM	100	0	19.44	19.27	19.35	20.6	0
20	16QAM	100	0	19.54	19.35	19.25	20.6	0
20	16QAM	1	49	19.46	19.43	19.40	20.6	0
20	16QAM	1	99	19.34	19.23	19.68	20.6	0
20	16QAM	50	24	19.38	19.20	19.41	20.6	0
20	16QAM	50	24	19.12	19.04	19.25	20.6	0
20	16QAM	50	50	19.18	19.11	19.22	20.6	0
20	16QAM	100	0	19.17	19.18	19.30	20.6	0
20	256QAM	1	0	19.42	19.31	19.52	20.6	0
20	256QAM	1	49	19.38	19.32	19.31	20.6	0
20	256QAM	1	99	19.22	19.31	19.28	20.6	0
20	256QAM	50	24	19.41	19.48	19.51	20.6	0
20	256QAM	50	24	19.41	19.48	19.51	20.6	0
20	256QAM	50	50	19.43	19.35	19.49	20.6	0
20	256QAM	100	0	19.37	19.46	19.43	20.6	0
Channel								
Frequency (MHz)								
16	QPSK	1	0	20.01	20.03	20.03	20.6	0
16	QPSK	1	37	19.07	19.18	19.23	20.6	0
16	QPSK	1	74	19.21	19.07	19.11	20.6	0
16	QPSK	36	20	19.38	19.24	19.46	20.6	0
16	QPSK	36	20	19.18	19.30	19.35	20.6	0
16	QPSK	75	0	19.16	19.20	19.30	20.6	0
16	16QAM	1	0	19.47	19.44	19.39	20.6	0
16	16QAM	1	37	19.04	19.40	19.41	20.6	0
16	16QAM	1	74	19.53	19.41	19.42	20.6	0
16	16QAM	36	20	19.42	19.20	19.41	20.6	0
16	16QAM	36	20	19.03	19.10	19.23	20.6	0
16	16QAM	36	59	19.07	19.12	19.33	20.6	0
16	16QAM	75	0	19.32	19.46	19.47	20.6	0
16	16QAM	75	0	19.44	19.35	19.43	20.6	0
16	16QAM	1	37	19.40	19.40	19.29	20.6	0
16	16QAM	1	74	19.52	19.16	19.40	20.6	0
16	16QAM	36	20	19.34	19.30	19.32	20.6	0



Band 41 FCC&IC PC2 DSI3_Simultaneous Ant 3											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up Int (dBm)	MPR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	21.00	20.98	21.00	20.98	20.91	20.91	22.2	0
20	QPSK	1	49	20.97	20.84	21.15	20.98	20.97	20.97		
20	QPSK	50	0	20.96	20.81	21.06	20.98	20.96	20.96		
20	QPSK	50	24	20.97	20.82	20.97	20.74	20.74	20.74		
20	QPSK	50	24	20.51	20.60	20.71	20.75	20.67	20.67	22.2	0
20	QPSK	100	0	20.52	20.52	20.90	20.73	20.64	20.64		
20	16QAM	1	0	20.96	20.99	21.14	21.00	20.86	20.86	22.2	0
20	16QAM	1	49	20.96	20.93	21.09	20.98	20.99	20.99		
20	16QAM	1	99	20.78	20.84	20.94	20.84	20.72	20.72		
20	16QAM	50	0	20.89	20.79	20.90	20.72	20.72	20.72	22.2	0
20	16QAM	50	24	20.95	20.79	20.90	20.84	20.70	20.70		
20	16QAM	50	50	20.60	20.63	20.73	20.60	20.58	20.58		
20	16QAM	100	0	20.69	20.73	20.86	20.72	20.69	20.69		
20	16QAM	100	0	20.82	20.88	21.00	20.50	20.55	20.55	22.2	0
20	16QAM	100	49	20.88	20.86	20.96	20.82	20.77	20.77		
20	16QAM	100	49	20.84	20.81	20.92	20.71	20.74	20.74		
20	16QAM	50	0	20.70	20.88	20.96	20.50	20.83	20.83	22.2	0
20	16QAM	50	24	20.62	20.76	20.89	20.75	20.64	20.64		
20	16QAM	50	50	20.65	20.60	20.77	20.70	20.59	20.59		
20	16QAM	100	0	20.78	20.80	20.88	20.81	20.58	20.58		
20	16QAM	100	0	20.78	20.88	21.02	20.82	20.89	20.89	22.2	0
20	256QAM	1	0	20.82	20.82	20.98	20.82	20.81	20.81		
20	256QAM	1	99	20.86	20.82	20.92	20.76	20.70	20.70		
20	256QAM	50	0	20.71	20.69	20.86	20.66	20.60	20.60	22.2	0
20	256QAM	50	24	20.66	20.71	20.88	20.79	20.67	20.67		
20	256QAM	50	50	20.53	20.61	20.78	20.70	20.56	20.56		
20	256QAM	100	0	20.72	20.84	20.95	20.83	20.70	20.70		
Channel											
Frequency (MHz)											
15	QPSK	1	0	20.81	20.85	21.03	20.80	20.81	20.81	22	0
15	QPSK	1	37	20.85	20.81	21.07	20.88	20.85	20.85		
15	QPSK	1	74	20.87	20.79	20.96	20.88	20.73	20.73		
15	QPSK	36	0	20.87	20.74	20.77	20.72	20.61	20.61	22.2	0
15	QPSK	36	20	20.42	20.57	20.63	20.62	20.44	20.44		
15	QPSK	36	39	20.51	20.69	20.86	20.66	20.60	20.60		
15	QPSK	75	0	20.61	20.60	20.77	20.64	20.57	20.57	22.2	0
15	16QAM	1	0	20.92	20.87	21.09	20.82	20.83	20.83	22.2	0
15	16QAM	1	37	20.91	20.81	21.06	20.80	20.82	20.82		
15	16QAM	1	74	20.71	20.71	20.87	20.75	20.65	20.65		
15	16QAM	36	0	20.67	20.75	20.83	20.69	20.70	20.70	22.2	0
15	16QAM	36	20	20.52	20.75	20.77	20.67	20.58	20.58		
15	16QAM	36	39	20.50	20.57	20.66	20.60	20.44	20.44		
15	16QAM	75	0	20.58	20.84	20.75	20.69	20.80	20.80	22.2	0
15	16QAM	75	0	20.75	20.83	20.84	20.79	20.64	20.64		
15	16QAM	1	37	20.80	20.77	20.87	20.70	20.63	20.63		
15	16QAM	1	74	20.85	20.75	20.73	20.67	20.69	20.69	22.2	0
15	16QAM	36	0	20.69	20.88	20.93	20.88	20.70	20.70		
15	16QAM	36	20	20.55	20.87	20.88	20.72	20.54	20.54		
15	16QAM	36	39	20.44	20.53	20.61	20.61	20.45	20.45		
15	16QAM	75	0	20.63	20.89	20.82	20.75	20.45	20.45	22.2	0
15	256QAM	1	0	20.71	20.73	20.89	20.78	20.58	20.58		
15	256QAM	1	37	20.73	20.73	20.84	20.67	20.67	20.67		
15	256QAM	1	74	20.52	20.79	20.71	20.69	20.63	20.63	22.2	0
15	256QAM	36	0	20.64	20.87	20.88	20.85	20.79	20.79		
15	256QAM	36	20	20.67	20.65	20.78	20.68	20.52	20.52		
15	256QAM	36	39	20.45	20.51	20.65	20.65	20.50	20.50		
15	256QAM	75	0	20.59	20.76	20.72	20.73	20.49	20.49	22.2	0
Channel											
Frequency (MHz)											
10	QPSK	1	0	20.80	20.81	21.11	20.80	20.88	20.88	22	0
10	QPSK	1	25	20.91	20.75	21.03	20.83	20.92	20.92		
10	QPSK	1	49	20.81	20.87	20.93	20.89	20.75	20.75		
10	QPSK	25	0	20.80	20.74	20.84	20.84	20.66	20.66	22.2	0
10	QPSK	25	12	20.44	20.49	20.63	20.68	20.51	20.51		
10	QPSK	25	25	20.61	20.45	20.55	20.61	20.37	20.37		
10	QPSK	25	25	20.45	20.52	20.78	20.67	20.51	20.51		
10	16QAM	1	0	20.88	20.90	21.05	20.81	20.78	20.78	22.2	0
10	16QAM	1	25	20.80	20.84	20.98	20.83	20.66	20.66		
10	16QAM	1	49	20.72	20.78	20.83	20.73	20.60	20.60		
10	16QAM	25	0	20.56	20.74	20.80	20.59	20.64	20.64	22.2	0
10	16QAM	25	12	20.45	20.65	20.71	20.52	20.67	20.67		
10	16QAM	25	12	20.61	20.53	20.71	20.65	20.49	20.49		
10	16QAM	50	0	20.58	20.81	20.82	20.61	20.55	20.55	22.2	0
10	16QAM	50	0	20.72	20.82	20.87	20.87	20.68	20.68		
10	16QAM	1	0	20.80	20.83	20.92	20.70	20.67	20.67	22.2	0
10	16QAM	1	25	20.56	20.76	20.73	20.67	20.63	20.63		
10	16QAM	25	0	20.69	20.77	20.84	20.82	20.78	20.78		
10	16QAM	25	12	20.56	20.84	20.84	20.71	20.56	20.56	22.2	0
10	16QAM	25	25	20.48	20.53	20.72	20.58	20.54	20.54		
10	16QAM	50	0	20.61	20.74	20.80	20.75	20.59	20.59		
10	256QAM	1	0	20.70	20.81	20.92	20.83	20.68	20.68	22.2	0
10	256QAM	1	25	20.72	20.72	20.89	20.70	20.69	20.69		
10	256QAM	1	49	20.69	20.72	20.75	20.86	20.65	20.65		
10	256QAM	25	0	20.57	20.88	20.82	20.50	20.74	20.74	22.2	0
10	256QAM	25	12	20.40	20.60	20.66	20.73	20.54	20.54		
10	256QAM	25	25	20.45	20.54	20.64	20.50	20.45	20.45		
10	256QAM	50	0	20.61	20.75	20.77	20.70	20.43	20.43	22.2	0
Channel											
Frequency (MHz)											
5	QPSK	1	0	20.82	20.87	21.14	20.82	20.81	20.81	22	0
5	QPSK	1	12	20.95	20.75	21.00	20.94	20.95	20.95		
5	QPSK	1	24	20.82	20.86	20.99	20.89	20.69	20.69		
5	QPSK	12	0	20.99	20.74	20.75	20.64	20.70	20.70	22.2	0
5	QPSK	12	7	20.41	20.64	20.69	20.69	20.52	20.52		
5	QPSK	12	12	20.52	20.53	20.59	20.52	20.34	20.34		
5	QPSK	25	0	20.43	20.52	20.78	20.64	20.56	20.56	22.2	0
5	QPSK	25	0	20.83	20.94	21.08	20.93	20.77	20.77		
5	16QAM	1	0	20.82	20.84	20.96	20.81	20.60	20.60	22.2	0
5	16QAM	1	24	20.72	20.72	20.90	20.81	20.62	20.62		
5	16QAM	12	0	20.56	20.87	20.82	20.70	20.67	20.67		
5	16QAM	12	7	20.43	20.71	20.70	20.50	20.60	20.60	22.2	0
5	16QAM	12	13	20.54	20.83	20.87	20.64	20.48	20.48		
5	16QAM	25	0	20.50	20.80	20.84	20.68	20.58	20.58		
5	16QAM	1	0	20.70	20.82	20.89	20.82	20.60	20.60	22.2	0
5	16QAM	1	12	20.79	20.75	20.87	20.79	20.70	20.70		
5	16QAM	1	24	20.81	20.71	20.70	20.67	20.71	20.71		
5	16QAM	12	0	20.58	20.80	20.89	20.86	20.71	20.71	22.2	0
5	16QAM	25									



Reduced Power Mode for DSIS-Standalone

L200000 Amd						
	Best Average Power (dBm)			Fringe Average Power (dBm)		
	198	199	201	Limit	198	199
	Limit	Limit	Limit	Limit	Limit	Limit
TV Channel	198	199	201	198	199	201
Frequency (MHz)	98.2	98.4	98.9	98.2	98.4	98.9
OPRR-1 Tx side	32.90	32.97	33.04	33.00	33.00	33.04
OPRR-1 Rx side	32.85	32.90	32.91	32.90	32.93	32.91
OPRR-2 Tx side	29.30	29.41	29.28	30.50	23.30	23.41
OPRR-2 Rx side	29.30	29.41	29.28	30.50	23.30	23.41
OPRR-3 Tx side	26.91	26.95	26.86	30.00	24.85	24.72
OPRR-3 Rx side	26.41	26.41	26.40	27.50	23.41	23.40
EDGE-1 Tx side	25.40	25.40	25.37	26.00	19.40	19.40
EDGE-1 Rx side	23.77	23.80	23.79	26.00	17.77	17.80
EDGE-2 Tx side	22.88	22.89	22.82	23.00	18.40	18.40
EDGE-2 Rx side	20.90	20.90	20.90	21.00	17.90	17.90
EDGE-3 Tx side	20.90	20.90	20.90	21.00	17.90	17.90
EDGE-3 Rx side	20.90	20.90	20.90	21.00	17.90	17.90
EDGE-4 Tx side	17.86	18.00	18.04	19.00	14.96	15.04
EDGE-4 Rx side	17.86	18.00	18.04	19.00	14.96	15.04

L200100 Amd						
	Best Average Power (dBm)			Fringe Average Power (dBm)		
	198	199	200	Limit	198	199
	Limit	Limit	Limit	Limit	Limit	Limit
TV Channel	198	199	200	198	199	200
Frequency (MHz)	98.2	98.4	98.9	98.2	98.4	98.9
OPRR-1 Tx side	27.81	27.81	27.87	28.50	18.81	18.88
OPRR-1 Rx side	27.84	27.81	27.88	28.50	18.84	18.88
OPRR-2 Tx side	24.94	24.94	24.93	26.00	18.94	18.93
OPRR-2 Rx side	23.53	23.50	23.53	24.50	19.07	19.07
OPRR-3 Tx side	20.70	20.70	20.88	21.00	17.70	17.75
OPRR-3 Rx side	22.39	22.87	22.73	23.50	19.79	19.87
EDGE-1 Tx side	21.00	21.00	21.11	22.00	18.00	18.10
EDGE-1 Rx side	20.07	20.12	20.04	21.00	18.07	18.08
EDGE-2 Tx side	17.86	18.00	18.04	19.00	14.96	15.04
EDGE-2 Rx side	17.86	18.00	18.04	19.00	14.96	15.04

Default WCDMA V Amd												
	WCDMA V Amd			WCDMA V Amd			WCDMA V Amd			WCDMA V Amd		
	9302	9400	9308	1312	1410	1513	4152	4182	4230	Limit	Limit	Limit
	Limit	Limit	Limit	Limit	Limit	Limit	Limit	Limit	Limit	Limit	Limit	Limit
TV Channel	9302	9400	9308	1312	1410	1513	4152	4182	4230	Limit	Limit	Limit
Frequency (MHz)	1802.4	1800	1807.6	1718.4	1721.8	1729.8	836.4	836.4	846.0	Limit	Limit	Limit
ISPP Ref #0	20.62	20.60	20.67	21.70	20.45	20.51	20.41	21.00	22.45	22.52	22.48	24.00
ISPP Ref #1	19.72	19.70	19.70	20.70	19.59	19.66	19.50	20.50	21.55	21.60	21.48	23.00
ISPP Ref #2	19.08	19.71	19.65	20.70	19.90	19.92	19.92	20.90	21.98	21.90	21.54	23.00
ISPP Ref #3	19.39	19.20	19.21	20.20	19.00	19.11	19.28	20.00	21.61	21.14	21.04	22.60
ISPP Ref #4	19.15	19.30	19.21	20.20	18.90	19.18	19.03	20.00	20.98	21.04	21.06	22.50
ISPP Ref #5	19.70	19.85	19.84	20.70	19.54	19.68	19.48	20.90	21.55	21.72	21.42	23.00
ISPP Ref #6	19.50	19.50	19.41	20.20	19.38	19.40	19.32	20.00	21.34	21.62	21.52	23.00
ISPP Ref #7	19.08	19.12	19.05	20.20	18.92	19.03	18.89	20.00	20.95	20.99	20.92	22.00
ISPP Ref #8	19.02	19.15	19.12	20.20	18.90	19.00	19.01	20.00	20.89	21.00	21.03	22.50
ISPP Ref #9	19.06	19.21	19.70	20.70	19.95	19.93	19.91	20.90	21.63	21.88	21.97	23.00
ISPP Ref #10	17.71	17.70	17.84	18.70	17.64	17.60	17.61	18.50	19.87	19.83	19.86	21.00
ISPP Ref #11	18.66	18.71	18.70	19.20	18.52	18.58	18.58	19.00	20.50	20.90	20.91	22.00
ISPP Ref #12	17.81	17.80	17.87	18.70	17.64	17.61	17.48	18.50	19.40	19.82	19.40	21.00
ISPP Ref #13	19.94	19.90	19.82	20.70	19.83	19.48	19.38	20.90	21.59	21.44	21.40	23.00



Band 2 Default Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq. Ch./Fires	Power High Ch./Fires	Power Low Ch./Fires	Turn-up time (sec)	MFR (dB)	MFR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.11	23.16	23.07			
20	QPSK	1	49	23.09	23.02	23.14			
20	QPSK	1	98	23.07	23.07	23.07			
20	QPSK	50	0	23.06	23.13	23.05			
20	QPSK	50	24	23.04	23.05	23.04			
20	QPSK	50	50	23.02	23.04	23.06			
20	QPSK	100	0	23.09	23.05	23.01			
20	QPSK	100	24	23.05	23.02	23.08			
20	16QAM	1	49	22.85	22.88	22.90			
20	16QAM	1	99	22.79	22.85	22.80			
20	16QAM	50	0	22.92	22.92	22.94			
20	16QAM	50	24	22.84	22.88	22.84			
20	16QAM	50	50	22.80	22.82	22.82			
20	16QAM	100	0	22.92	22.82	22.87			
20	16QAM	100	24	22.72	22.82	22.72			
20	64QAM	1	49	22.68	22.76	22.67			
20	64QAM	1	99	22.62	22.65	22.68			
20	64QAM	50	0	21.84	21.71	21.86			
20	64QAM	50	24	21.48	21.50	21.50			
20	64QAM	50	50	21.42	21.46	21.38			
20	64QAM	100	0	21.43	21.52	21.38			
20	256QAM	1	49	19.82	19.85	19.85			
20	256QAM	1	99	19.82	19.85	19.85			
20	256QAM	50	0	19.86	19.82	19.87			
20	256QAM	50	24	19.80	19.73	19.83			
20	256QAM	50	50	19.79	19.81	19.78			
20	256QAM	100	0	19.87	19.80	19.82			
Channel									
Frequency (MHz)									
15	QPSK	1	0	23.03	23.10	23.09			
15	QPSK	1	49	22.99	22.94	23.03			
15	QPSK	1	74	22.91	22.86	22.83			
15	QPSK	36	0	22.87	22.89	22.90			
15	QPSK	36	24	22.81	22.84	22.87			
15	QPSK	36	36	22.82	22.86	22.82			
15	QPSK	75	0	22.91	22.86	22.83			
15	QPSK	75	24	22.80	22.82	22.79			
15	16QAM	1	37	22.77	22.80	22.83			
15	16QAM	1	74	22.69	22.75	22.70			
15	16QAM	36	0	22.70	22.72	22.76			
15	16QAM	36	24	22.60	22.65	22.65			
15	16QAM	75	0	22.81	22.85	22.82			
15	64QAM	1	0	22.67	22.68	22.69			
15	64QAM	1	49	22.58	22.62	22.61			
15	64QAM	1	74	22.42	22.45	22.34			
15	64QAM	36	0	21.58	21.67	21.49			
15	64QAM	36	24	21.38	21.48	21.35			
15	64QAM	36	36	21.25	21.25	21.23			
15	64QAM	75	0	21.38	21.37	21.29			
15	256QAM	1	37	19.69	19.62	19.77			
15	256QAM	1	74	19.42	19.51	19.42			
15	256QAM	36	0	19.48	19.63	19.50			
15	256QAM	36	24	19.48	19.63	19.50			
15	256QAM	36	36	19.48	19.73	19.67			
15	256QAM	75	0	19.68	19.73	19.67			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.85	22.88	22.81			
10	QPSK	1	49	22.82	22.83	22.81			
10	QPSK	1	24	22.80	22.84	22.82			
10	QPSK	12	0	22.81	23.00	22.94			
10	QPSK	12	13	22.80	22.88	22.89			
10	QPSK	25	0	22.88	22.90	22.86			
10	16QAM	1	0	22.79	22.80	22.86			
10	16QAM	1	25	22.79	22.84	22.85			
10	16QAM	1	49	22.48	22.51	22.42			
10	16QAM	25	0	22.20	22.24	22.20			
10	16QAM	25	12	22.20	22.24	22.20			
10	16QAM	25	13	22.20	22.24	22.20			
10	16QAM	50	0	22.28	22.24	22.24			
10	16QAM	1	0	22.60	22.76	22.69			
10	64QAM	1	0	22.58	22.62	22.60			
10	64QAM	1	49	22.43	22.45	22.32			
10	64QAM	25	0	21.58	21.65	21.45			
10	64QAM	25	12	21.38	21.38	21.27			
10	64QAM	25	13	21.29	21.29	21.27			
10	256QAM	1	0	19.69	19.62	19.68			
10	256QAM	1	49	19.52	19.50	19.53			
10	256QAM	12	0	19.62	19.62	19.70			
10	256QAM	25	12	19.46	19.61	19.51			
10	256QAM	25	13	19.63	19.71	19.66			
10	256QAM	50	0	19.69	19.70	19.68			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.88	22.88	22.81			
5	QPSK	1	24	22.80	22.85	22.84			
5	QPSK	12	0	22.81	23.00	22.94			
5	QPSK	12	13	22.80	22.88	22.89			
5	16QAM	1	0	22.79	22.80	22.86			
5	16QAM	1	25	22.79	22.84	22.85			
5	16QAM	12	0	22.40	22.49	22.41			
5	16QAM	12	7	22.22	22.41	22.27			
5	16QAM	25	0	22.26	22.38	22.24			
5	64QAM	1	0	22.59	22.68	22.64			
5	64QAM	1	24	22.42	22.44	22.34			
5	64QAM	12	0	21.54	21.68	21.43			
5	64QAM	12	13	21.29	21.32	21.21			
5	64QAM	25	0	21.30	21.44	21.29			
5	256QAM	1	0	19.75	19.78	19.67			
5	256QAM	1	24	19.48	19.55	19.49			
5	256QAM	12	0	19.62	19.75	19.71			
5	256QAM	12	7	19.51	19.69	19.51			
5	256QAM	12	13	19.67	19.74	19.64			
5	256QAM	25	0	19.62	19.73	19.68			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.88	22.81	22.86			
3	QPSK	1	14	22.89	22.85	22.83			
3	QPSK	8	0	22.81	23.00	22.90			
3	QPSK	8	4	22.83	23.04	22.92			
3	QPSK	8	7	22.86	22.89	22.83			
3	QPSK	15	0	22.87	22.85	22.90			
3	16QAM	1	0	22.85	22.88	22.83			
3	16QAM	1	8	22.71	22.87	22.78			
3	16QAM	1	14	22.69	22.74	22.65			
3	16QAM	8	0	22.23	22.41	22.24			
3	16QAM	8	4	22.31	22.33	22.14			
3	16QAM	15	0	22.31	22.45	22.21			
3	64QAM	1	0	22.69	22.77	22.69			
3	64QAM	1	8	22.55	22.67	22.54			
3	64QAM	1	14	22.42	22.43	22.38			
3	64QAM	8	0	21.58	21.54	21.52			
3	64QAM	8	7	21.34	21.33	21.27			
3	256QAM	1	0	19.77	19.78	19.69			
3	256QAM	1	8	19.78	19.79	19.65			
3	256QAM	8	4	19.50	19.68	19.59			
3	256QAM	8	7	19.60	19.68	19.59			
3	256QAM	15	0	19.63	19.70	19.59			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	23.04	23.11	23.01			
1.4	QPSK	1	9	22.83	22.85	22.74			
1.4	QPSK	1	9	22.86	22.89	22.85			
1.4	QPSK	3	0	22.85	23.08	23.01			
1.4	QPSK	3	1	22.85	23.04	22.84			
1.4	QPSK	3	9	22.78	22.86	22.88			
1.4	QPSK	3	1	22.84	23.06	23.00			
1.4	16QAM	1	0	22.80	22.83	22.87			
1.4	16QAM	1	9	22.88	22.83	22.80			
1.4	16QAM	3	0	22.83	22.85	22.79			
1.4	16QAM	3	9	22.81	22.77	22.73			
1.4	16QAM	9	0	22.51	22.52	22.43			
1.4	16QAM	9	9	22.21	22.32	22.21			
1.4	64QAM	1	0	22.25	22.45	22.39			
1.4	64QAM	1	9	22.40	22.41	22.34			
1.4	64QAM	3	0	21.58	21.68	21.48			
1.4	64QAM								



Band 12 Default Ant0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up Int. (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.84	22.82	22.79				
10	QPSK	1	25	22.78	22.81	22.84				
10	QPSK	1	49	22.80	22.88	22.82		24	0	
10	QPSK	25	0	22.83	22.82	22.79				
10	QPSK	25	12	22.80	22.81	22.84				
10	QPSK	25	25	22.86	22.80	22.83		24	0	
10	QPSK	50	0	22.85	22.77	22.82				
10	16QAM	50	0	22.84	22.72	22.80				
10	16QAM	1	25	22.84	22.89	22.88		24	0	
10	16QAM	1	49	22.84	22.85	22.86				
10	16QAM	25	0	22.85	22.81	22.84				
10	16QAM	25	12	22.82	22.83	22.88		23.5	0.5	
10	16QAM	25	25	22.80	22.85	22.88				
10	16QAM	50	0	22.87	22.87	22.88				
10	16QAM	50	0	22.87	22.87	22.88				
10	16QAM	1	0	22.86	22.81	22.89		23.5	0.5	
10	16QAM	1	25	22.84	22.86	22.89				
10	16QAM	1	49	22.86	22.86	22.86				
10	16QAM	25	0	22.86	22.86	22.86				
10	16QAM	25	12	22.87	22.87	22.87		22.5	1.5	
10	16QAM	25	25	22.86	22.86	22.86				
10	16QAM	50	0	22.87	22.87	22.88				
10	16QAM	50	0	22.87	22.87	22.88				
10	256QAM	1	25	19.33	19.40	19.38		20.5	3.5	
10	256QAM	1	49	19.30	19.33	19.28				
10	256QAM	25	0	19.36	19.36	19.46				
10	256QAM	25	12	19.29	19.34	19.30		20.5	3.5	
10	256QAM	25	25	19.20	19.33	19.22				
10	256QAM	50	0	19.23	19.25	19.20				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.77	22.80	22.74				
5	QPSK	1	24	22.82	22.84	22.80		24	0	
5	QPSK	12	0	22.80	22.75	22.88				
5	QPSK	12	7	22.85	22.80	22.85		24	0	
5	QPSK	12	13	22.83	22.81	22.81				
5	QPSK	25	0	22.86	22.86	22.86				
5	16QAM	1	0	22.82	22.82	22.84				
5	16QAM	1	12	22.80	22.88	22.87		24	0	
5	16QAM	1	24	22.80	22.87	22.86				
5	16QAM	12	0	22.80	22.87	22.88		23.5	0.5	
5	16QAM	12	7	22.82	22.80	22.85				
5	16QAM	12	13	22.82	22.80	22.85				
5	16QAM	25	0	22.87	22.86	22.83				
5	16QAM	25	0	22.87	22.86	22.83				
5	16QAM	1	0	22.83	22.85	22.87		23.5	0.5	
5	16QAM	1	12	22.81	22.86	22.87				
5	16QAM	1	24	22.80	22.86	22.87				
5	16QAM	12	0	22.83	22.85	22.87				
5	16QAM	12	7	22.83	22.85	22.87		22.5	1.5	
5	16QAM	12	13	22.81	22.85	22.87				
5	16QAM	25	0	22.86	22.86	22.86				
5	16QAM	25	0	22.86	22.86	22.86				
5	16QAM	1	12	19.21	19.27	19.24		20.5	3.5	
5	256QAM	1	24	19.41	19.47	19.50				
5	256QAM	12	0	19.56	19.56	19.64				
5	256QAM	12	7	19.55	19.52	19.53		20.5	3.5	
5	256QAM	12	13	19.46	19.43	19.52				
5	256QAM	25	0	19.57	19.56	19.60				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.75	22.83	22.75				
3	QPSK	1	14	22.83	22.84	22.87		24	0	
3	QPSK	8	0	22.80	22.79	22.87				
3	QPSK	8	7	22.81	22.81	22.88		24	0	
3	QPSK	8	7	22.80	22.80	22.87				
3	16QAM	1	0	22.80	22.80	22.87				
3	16QAM	1	8	22.88	22.88	22.88		24	0	
3	16QAM	8	0	22.86	22.86	22.86				
3	16QAM	8	0	22.86	22.84	22.88		23.5	0.5	
3	16QAM	15	0	22.83	22.83	22.89				
3	16QAM	15	0	22.83	22.83	22.89				
3	16QAM	1	0	22.82	22.83	22.80		23.5	0.5	
3	16QAM	1	14	22.82	22.83	22.80				
3	16QAM	8	0	22.85	22.85	22.85				
3	16QAM	8	0	22.85	22.85	22.85				
3	16QAM	8	7	22.86	22.86	22.86		22.5	1.5	
3	16QAM	15	0	22.87	22.87	22.87				
3	256QAM	1	0	19.28	19.41	19.36				
3	256QAM	1	8	19.26	19.31	19.24		20.5	3.5	
3	256QAM	1	14	19.23	19.30	19.21				
3	256QAM	8	0	19.18	19.46	19.28				
3	256QAM	8	4	19.18	19.22	19.18		20.5	3.5	
3	256QAM	8	7	19.06	19.22	19.07				
3	256QAM	15	0	19.18	19.40	19.14				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.75	22.83	22.75				
1.4	QPSK	1	3	22.85	22.87	22.81				
1.4	QPSK	1	5	22.88	22.87	22.83		24	0	
1.4	QPSK	3	0	22.80	22.87	22.87				
1.4	QPSK	3	1	22.84	22.85	22.86				
1.4	QPSK	3	3	22.84	22.84	22.87		24	0	
1.4	16QAM	1	0	22.83	22.83	22.86				
1.4	16QAM	1	3	22.80	22.82	22.80				
1.4	16QAM	1	5	22.89	22.86	22.80		24	0	
1.4	16QAM	3	0	22.87	22.86	22.86				
1.4	16QAM	3	1	22.87	22.86	22.86				
1.4	16QAM	3	1	22.87	22.86	22.86		24	0	
1.4	16QAM	3	3	22.87	22.86	22.86				
1.4	16QAM	6	0	22.17	22.30	22.14		23.5	0.5	
1.4	16QAM	1	0	22.33	22.41	22.29				
1.4	16QAM	1	3	22.22	22.40	22.17				
1.4	16QAM	1	5	22.13	22.33	22.16		23.5	0.5	
1.4	16QAM	3	0	22.05	22.21	22.09				
1.4	16QAM	3	1	21.99	22.18	22.06				
1.4	16QAM	3	3	22.22	22.28	22.16				
1.4	16QAM	6	0	21.46	21.60	21.41		22.5	1.5	
1.4	256QAM	1	0	19.29	19.47	19.32				
1.4	256QAM	1	3	19.21	19.31	19.24		20.5	3.5	
1.4	256QAM	3	0	19.22	19.27	19.22				
1.4	256QAM	3	1	19.18	19.37	19.24				
1.4	256QAM	3	1	19.16	19.21	19.24				
1.4	256QAM	6	0	19.19	19.24	19.09		20.5	3.5	
1.4	256QAM	6	0	19.17	19.35	19.18				

Band 13 Default Ant0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up Int. (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.07	22.07	22.07		24	0	
10	QPSK	1	25	22.04	22.04	22.04				
10	QPSK	1	49	22.92	22.92	22.92				
10	QPSK	25	0	22.96	22.96	22.96		24	0	
10	QPSK	25	12	22.95	22.95	22.95				
10	QPSK	25	25	22.82	22.82	22.82				
10	QPSK	50	0	22.95	22.95	22.95				
10	16QAM	50	0	22.95	22.95	22.95				
10	16QAM	1	25	22.86	22.86	22.86		24	0	
10	16QAM	1	49	22.79	22.79	22.79				
10	16QAM	25	0	22.81	22.81	22.81				
10	16QAM	25	12	22.82	22.82	22.82		23.5	0.5	
10	16QAM	25	25	22.94	22.94	22.94				
10	16QAM	50	0	22.70	22.70	22.70				
10	16QAM	1	0	22.82	22.82	22.82				
10	16QAM	1	25	22.41	22.41	22				



Band 25 Default Ant0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Max Ch./Freq.	Time-up (min)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.16	23.21	23.18				
20	QPSK	1	48	23.03	23.08	23.05				
20	QPSK	1	96	22.97	23.01	22.93	24	0		
20	QPSK	50	0	23.00	23.15	23.05				
20	QPSK	24	0	22.95	23.05	22.98				
20	QPSK	50	50	22.88	22.99	22.86	24	0		
20	QPSK	100	0	22.91	23.01	22.92				
20	16QAM	1	0	22.96	23.02	22.91				
20	16QAM	1	48	22.94	22.99	22.85	24	0		
20	16QAM	1	96	22.81	22.87	22.80				
20	16QAM	25	0	22.79	22.93	22.83				
20	16QAM	50	24	22.75	22.80	22.75	23.5	0.5		
20	16QAM	50	50	22.61	22.72	22.70				
20	16QAM	100	0	22.62	22.66	22.61				
20	64QAM	1	0	22.86	23.05	22.91				
20	64QAM	1	48	22.79	22.95	22.87	23.5	0.5		
20	64QAM	1	96	21.82	21.95	21.79				
20	64QAM	25	24	21.78	21.79	21.74	22.5	1.5		
20	64QAM	50	50	21.73	21.82	21.72				
20	64QAM	100	0	21.69	21.86	21.84				
20	256QAM	1	48	19.79	19.90	19.83	20.5	3.5		
20	256QAM	1	96	19.77	19.88	19.78				
20	256QAM	50	50	19.73	19.82	19.74				
20	256QAM	50	24	19.77	19.90	19.74	20.5	3.5		
20	256QAM	50	50	19.70	19.74	19.71				
20	256QAM	100	0	19.65	19.82	19.81				
Channel										
Frequency (MHz)										
19	QPSK	1	0	23.08	23.13	23.04				
19	QPSK	1	48	22.99	22.98	22.90	24	0		
19	QPSK	1	96	22.84	22.90	22.87				
19	QPSK	36	0	22.94	23.01	22.95				
19	QPSK	20	0	22.82	22.89	22.84				
19	QPSK	36	36	22.84	22.95	22.75	24	0		
19	16QAM	1	0	22.77	22.86	22.75				
19	16QAM	1	48	22.68	22.84	22.84	24	0		
19	16QAM	1	96	22.81	22.87	22.85				
19	16QAM	25	0	22.70	22.81	22.75				
19	16QAM	36	20	22.68	22.68	22.62	23.5	0.5		
19	16QAM	36	48	22.58	22.67	22.67				
19	16QAM	75	0	22.49	22.53	22.50				
19	64QAM	1	0	22.74	22.90	22.77	23.5	0.5		
19	64QAM	1	48	22.70	22.87	22.77				
19	64QAM	1	96	22.70	22.85	22.68				
19	64QAM	36	0	21.74	21.85	21.85				
19	64QAM	36	48	21.73	21.84	21.84	22.5	1.5		
19	64QAM	36	96	21.68	21.79	21.59				
19	64QAM	75	0	21.65	21.84	21.80				
19	256QAM	1	48	19.75	19.79	19.79	20.5	3.5		
19	256QAM	1	96	19.67	19.70	19.73				
19	256QAM	36	36	19.65	19.69	19.65				
19	256QAM	36	20	19.69	19.87	19.60	20.5	3.5		
19	256QAM	36	50	19.57	19.70	19.61				
19	256QAM	75	0	19.50	19.55	19.55				
Channel										
Frequency (MHz)										
18	QPSK	1	0	22.95	23.00	22.98				
18	QPSK	1	48	22.90	22.95	22.90	24	0		
18	QPSK	1	96	22.87	22.89	22.83				
18	QPSK	25	25	22.84	22.88	22.71	24	0		
18	16QAM	1	0	22.90	22.95	22.83				
18	16QAM	1	48	22.81	22.91	22.88	24	0		
18	16QAM	1	96	22.68	22.84	22.84				
18	16QAM	25	0	22.74	22.80	22.75				
18	16QAM	25	12	22.62	22.68	22.67	23.5	0.5		
18	16QAM	25	24	22.62	22.67	22.67				
18	16QAM	50	0	22.57	22.60	22.54				
18	64QAM	1	0	22.82	22.91	22.85	23.5	0.5		
18	64QAM	1	48	22.72	22.78	22.71				
18	64QAM	25	0	21.79	21.84	21.68				
18	64QAM	25	12	21.74	21.84	21.64	22.5	1.5		
18	64QAM	25	24	21.68	21.77	21.61				
18	64QAM	50	0	21.62	21.56	21.52				
18	256QAM	1	24	19.88	19.75	19.72	20.5	3.5		
18	256QAM	1	48	19.74	19.73	19.68				
18	256QAM	12	12	19.62	19.67	19.61				
18	256QAM	25	12	19.71	19.83	19.68	20.5	3.5		
18	256QAM	25	25	19.65	19.61	19.60				
18	256QAM	50	0	19.50	19.55	19.55				
Channel										
Frequency (MHz)										
17	QPSK	1	0	23.12	23.15	23.13				
17	QPSK	1	48	22.98	22.95	22.95	24	0		
17	QPSK	1	96	22.84	22.90	22.86				
17	QPSK	8	4	22.80	22.87	22.81	24	0		
17	QPSK	8	7	22.75	22.84	22.78				
17	16QAM	1	0	22.83	22.91	22.86				
17	16QAM	1	48	22.84	23.02	22.85	24	0		
17	16QAM	1	96	22.69	22.86	22.87				
17	16QAM	8	4	22.65	22.65	22.60	23.5	0.5		
17	16QAM	8	7	22.57	22.69	22.60				
17	16QAM	16	0	22.48	22.60	22.53				
17	64QAM	1	0	22.76	22.92	22.80	23.5	0.5		
17	64QAM	1	48	22.66	22.81	22.76				
17	64QAM	1	96	22.65	22.72	22.69				
17	64QAM	8	0	21.76	21.81	21.67				
17	64QAM	8	7	21.67	21.69	21.62	22.5	1.5		
17	64QAM	16	0	21.61	21.74	21.57				
17	256QAM	1	48	19.76	19.86	19.83	20.5	3.5		
17	256QAM	1	96	19.69	19.85	19.77				
17	256QAM	1	18	19.60	19.72	19.60				
17	256QAM	8	0	19.70	19.83	19.81	20.5	3.5		
17	256QAM	8	4	19.68	19.83	19.80				
17	256QAM	8	7	19.60	19.71	19.60				
17	256QAM	16	0	19.50	19.61	19.61				
Channel										
Frequency (MHz)										
16	QPSK	1	0	23.12	23.12	23.15				
16	QPSK	1	48	22.98	22.97	22.95	24	0		
16	QPSK	1	96	22.85	22.90	22.86				
16	QPSK	3	1	22.81	22.87	22.82				
16	QPSK	3	1	22.81	22.94	22.71	24	0		
16	16QAM	1	0	22.92	23.04	22.93				
16	16QAM	1	48	22.84	23.00	22.81	24	0		
16	16QAM	1	96	22.78	22.89	22.78				
16	16QAM	3	0	22.65	22.76	22.64				
16	16QAM	3	0	22.90	23.03	22.79	23.5	0.5		
16	16QAM	3	0	22.70	22.67	22.69				
16	16QAM	7	0	22.57	22.62	22.54				
16	64QAM	1	0	22.77	22.90	22.69	23.5	0.5		
16	64QAM	1	48	22.72	22.75	22.69				
16	64QAM	1	96	22.70	22.76	22.67				
16	64QAM	3	0	21.68	21.81	21.70	22.5	1.5		
16	64QAM	3	1	22.72	22.88	22.83				
16	256QAM	1	48	19.68	19.81	19.70	20.5	3.5		
16	256QAM	1	96	19.69	19.76	19.78				
16	256QAM	1	18	19.71	19.78	19.66				
16	256QAM	3	0	19.73	19.93	19.72	20.5	3.5		
16	256QAM	3	1	19.69	19.76	19.67				
16	256QAM	3	1	19.65	19.68	19.58				
16	256QAM	6	0	19.54	19.67	19.62	20.5	3.5		

Band 26 Default Ant0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Max Ch./Freq.	Time-up (min)	MPE (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1								



Band 66 DSIS_ Standalone Ant0

RF (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-up (min)	APR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	21.71	21.67	21.83	23	0
20	QPSK	1	49	21.68	21.67	21.83	23	0
20	QPSK	1	99	21.78	21.77	21.86	23	0
20	QPSK	50	0	21.62	21.60	21.73	23	0
20	QPSK	50	24	21.77	21.69	21.88	23	0
20	QPSK	50	50	21.52	21.63	21.83	23	0
20	QPSK	100	0	21.55	21.77	21.72	23	0
20	QPSK	100	0	21.40	21.40	21.46	23	0
20	16QAM	1	49	21.61	21.72	21.59	23	0
20	16QAM	1	99	21.43	21.55	21.48	23	0
20	16QAM	50	0	21.63	21.59	21.63	23	0
20	16QAM	50	24	21.70	21.52	21.45	23	0
20	16QAM	50	50	21.51	21.71	21.46	23	0
20	16QAM	100	0	21.72	21.59	21.70	23	0
20	16QAM	1	0	21.47	21.56	21.40	23	0
20	64QAM	1	49	21.50	21.53	21.45	23	0
20	64QAM	1	99	21.43	21.50	21.61	23	0
20	64QAM	50	0	21.55	21.52	21.59	23	0
20	64QAM	50	24	21.60	21.55	21.50	23	0
20	64QAM	50	50	21.45	21.51	21.59	23	0
20	64QAM	100	0	21.58	21.56	21.59	23	0
20	256QAM	1	49	18.95	18.97	18.99	20.5	2.5
20	256QAM	1	99	18.81	18.84	18.83	20.5	2.5
20	256QAM	50	0	18.78	18.80	18.80	20.5	2.5
20	256QAM	50	24	18.78	18.80	18.74	20.5	2.5
20	256QAM	50	50	18.69	18.77	18.73	20.5	2.5
20	256QAM	100	0	18.71	18.73	18.73	20.5	2.5
Channel								
Frequency (MHz)								
15	QPSK	1	0	21.62	21.63	21.74	23	0
15	QPSK	1	39	21.51	21.59	21.49	23	0
15	QPSK	1	74	21.72	21.70	21.42	23	0
15	QPSK	36	0	21.55	21.76	21.61	23	0
15	QPSK	36	24	21.63	21.45	21.48	23	0
15	QPSK	36	39	21.43	21.51	21.41	23	0
15	QPSK	75	0	21.42	21.72	21.58	23	0
15	16QAM	1	4	21.25	21.52	21.41	23	0
15	16QAM	1	37	21.59	21.68	21.47	23	0
15	16QAM	1	74	21.62	21.57	21.42	23	0
15	16QAM	36	0	21.62	21.51	21.67	23	0
15	16QAM	36	24	21.55	21.43	21.37	23	0
15	16QAM	36	39	21.48	21.54	21.45	23	0
15	16QAM	75	0	21.62	21.50	21.63	23	0
15	64QAM	1	0	21.43	21.51	21.39	23	0
15	64QAM	1	39	21.43	21.50	21.61	23	0
15	64QAM	1	74	21.39	21.52	21.39	23	0
15	64QAM	36	0	21.49	21.49	21.42	23	0
15	64QAM	36	24	21.49	21.45	21.43	23	0
15	64QAM	36	39	21.41	21.54	21.45	23	0
15	64QAM	75	0	21.45	21.51	21.46	23	0
15	256QAM	1	49	18.78	18.80	18.80	20.5	2.5
15	256QAM	1	37	18.92	18.80	18.79	20.5	2.5
15	256QAM	1	74	18.75	18.79	18.77	20.5	2.5
15	256QAM	36	0	18.80	18.80	18.80	20.5	2.5
15	256QAM	36	24	18.73	18.73	18.80	20.5	2.5
15	256QAM	36	39	18.58	18.69	18.63	20.5	2.5
15	256QAM	75	0	18.63	18.63	18.68	20.5	2.5
Channel								
Frequency (MHz)								
10	QPSK	1	0	21.57	21.79	21.73	23	0
10	QPSK	1	25	21.54	21.51	21.51	23	0
10	QPSK	1	49	21.70	21.70	21.44	23	0
10	QPSK	25	12	21.65	21.48	21.53	23	0
10	QPSK	25	14	21.65	21.48	21.53	23	0
10	QPSK	25	25	21.46	21.52	21.49	23	0
10	16QAM	1	0	21.33	21.52	21.31	23	0
10	16QAM	1	25	21.54	21.66	21.48	23	0
10	16QAM	1	49	21.36	21.46	21.46	23	0
10	16QAM	25	0	21.49	21.43	21.59	23	0
10	16QAM	25	12	21.67	21.42	21.40	23	0
10	16QAM	25	14	21.67	21.42	21.40	23	0
10	16QAM	50	0	21.59	21.53	21.62	23	0
10	64QAM	1	0	21.33	21.60	21.37	23	0
10	64QAM	1	25	21.30	21.45	21.34	23	0
10	64QAM	1	49	21.34	21.52	21.37	23	0
10	64QAM	25	0	21.48	21.50	21.46	23	0
10	64QAM	25	12	21.48	21.50	21.46	23	0
10	64QAM	25	14	21.41	21.58	21.45	23	0
10	64QAM	50	0	21.54	21.51	21.48	23	0
10	256QAM	1	49	18.75	18.80	18.81	20.5	2.5
10	256QAM	1	25	18.79	18.80	18.80	20.5	2.5
10	256QAM	1	49	18.73	18.70	18.77	20.5	2.5
10	256QAM	25	0	18.71	18.82	18.74	20.5	2.5
10	256QAM	25	12	18.75	18.81	18.83	20.5	2.5
10	256QAM	25	14	18.60	18.65	18.62	20.5	2.5
10	256QAM	50	0	18.63	18.67	18.63	20.5	2.5
Channel								
Frequency (MHz)								
5	QPSK	1	0	21.53	21.79	21.73	23	0
5	QPSK	1	12	21.60	21.58	21.50	23	0
5	QPSK	1	24	21.70	21.62	21.49	23	0
5	QPSK	12	0	21.55	21.65	21.67	23	0
5	QPSK	12	7	21.67	21.48	21.44	23	0
5	QPSK	12	13	21.43	21.58	21.48	23	0
5	QPSK	25	0	21.42	21.46	21.62	23	0
5	16QAM	1	0	21.29	21.43	21.35	23	0
5	16QAM	1	12	21.54	21.64	21.54	23	0
5	16QAM	1	24	21.38	21.45	21.34	23	0
5	16QAM	12	0	21.59	21.48	21.56	23	0
5	16QAM	12	7	21.56	21.40	21.33	23	0
5	16QAM	12	13	21.45	21.68	21.37	23	0
5	64QAM	1	0	21.39	21.55	21.29	23	0
5	64QAM	1	12	21.40	21.49	21.39	23	0
5	64QAM	1	24	21.31	21.54	21.44	23	0
5	64QAM	12	0	21.48	21.40	21.44	23	0
5	64QAM	12	7	21.54	21.45	21.45	23	0
5	64QAM	12	13	21.31	21.48	21.48	23	0
5	64QAM	25	0	21.54	21.48	21.50	23	0
5	256QAM	1	0	18.79	18.80	18.88	20.5	2.5
5	256QAM	1	12	18.77	18.84	18.80	20.5	2.5
5	256QAM	1	24	18.71	18.76	18.76	20.5	2.5
5	256QAM	12	0	18.72	18.80	18.71	20.5	2.5
5	256QAM	12	7	18.71	18.72	18.69	20.5	2.5
5	256QAM	12	13	18.60	18.66	18.61	20.5	2.5
5	256QAM	25	0	18.62	18.61	18.61	20.5	2.5
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	21.68	21.62	21.73	23	0
1.4	QPSK	1	3	21.61	21.56	21.49	23	0
1.4	QPSK	1	5	21.70	21.67	21.48	23	0
1.4	QPSK	3	0	21.59	21.61	21.67	23	0
1.4	QPSK	3	1	21.62	21.48	21.63	23	0
1.4	QPSK	3	3	21.60	21.51	21.58	23	0
1.4	16QAM	1	0	21.51	21.51	21.59	23	0
1.4	16QAM	1	3	21.33	21.40	21.38	23	0
1.4	16QAM	1	5	21.52	21.60	21.45	23	0
1.4	16QAM	3	0	21.57	21.42	21.50	23	0
1.4	16QAM	3	1	21.58	21.30	21.36	23	0
1.4	16QAM	3	1	21.41	21.54	21.37	23	0
1.4	16QAM	6	0	21.67	21.45	21.66	23	0
1.4	64QAM	1	0	21.43	21.51	21.43	23	0
1.4	64QAM	1	3	21.41	21.48	21.34	23	0
1.4	64QAM	1	5	21.37	21.40	21.37	23	0
1.4	64QAM	3	0	21.47	21.58	21.48	23	0
1.4	64QAM	3	1	21.50	21.48	21.39	23	0
1.4	64QAM	3	3	21.35	21.55	21.46	23	0
1.4	64QAM	6	0	21.40	21.61	21.48	23	0
1.4	256QAM	1	0	18.73	18.80	18.80	20.5	2.5
1.4	256QAM	1	3	18.78	18.85	18.78	20.5	2.5
1.4	256QAM	1	5	18.70	18.80	18.68	20.5	2.5
1.4	256QAM	3	0	18.80	18.80	18.80	20.5	2.5
1.4	256QAM	3	1	18.74	18.79	18.59	20.5	2.5
1.4	256QAM	6	0	18.64	18.68	18.60	20.5	2.5

Band 71 Default Ant0

RF (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-up (min)	APR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	22.26	22.04	22.89	24	0
20	QPSK	1	49	22.24	22.07	22.81	24	0
20	QPSK	1	99	22.71	22.88	22.68	24	0
20	QPSK	50	0	22.76	22.94	22.84	24	0
20	QPSK	50	24	22.77	22.77	22.73	24	0
20	QPSK	50	50	22.71	22.73	22.68	24	0
20	QPSK	100	0	22.86	22.76	22.76	24	0
20	QPSK	100	0	22.78	22.78	22.73	24	0
20	16QAM	1	49	22.69	22.83	22.73	24	0
20	16QAM	1	99	22.81	22.76	22.66	24	0
20	16QAM	50	0	22.83	22.74	22.61	24	0
20	16QAM	50	24	22.50	22.54	22.54	23.5	0.5
20	16QAM	50	50	22.46	22.60	22.61	23.5	0.5
20	16QAM	100	0	22.46	22.56	22.45	23.5	0.5
20	64QAM	1	0	22.73	22.88	22.76	23.5	0.5
20	64QAM	1	49	22.72	22.76	22.72	23.5	0.5
20	64QAM							



Band 38 Default Ant0									
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)				38750	38900	39150			
20	QPSK	1	0	20.87	20.93	21.00			
20	QPSK	1	49	20.46	20.43	20.46			22
20	QPSK	50	24	20.43	20.46	20.46			
20	QPSK	50	0	20.47	20.50	20.53			
20	QPSK	50	24	20.38	20.50	20.42			22
20	QPSK	100	0	20.57	20.52	20.53			
20	16QAM	1	0	20.46	20.57	20.59			22
20	16QAM	1	49	20.47	20.45	20.53			
20	16QAM	1	99	20.20	20.33	20.40			
20	16QAM	50	0	20.08	20.22	20.04			21.5
20	16QAM	50	24	20.10	20.06	20.05			
20	16QAM	50	50	19.87	20.03	19.96			
20	16QAM	100	0	19.29	20.11	20.06			
20	64QAM	1	49	19.94	20.04	20.16			21.5
20	64QAM	1	99	20.10	20.01	20.06			
20	64QAM	50	0	19.85	20.04	20.30			
20	64QAM	50	24	19.83	19.90	19.89			
20	64QAM	50	50	19.82	19.86	19.83			20.5
20	64QAM	100	0	19.85	19.88	19.79			
20	256QAM	1	0	17.91	18.08	17.94			
20	256QAM	1	49	17.92	17.92	17.92			18.5
20	256QAM	1	99	17.86	17.85	17.87			
20	256QAM	50	0	17.96	18.06	17.97			
20	256QAM	50	24	17.20	17.95	17.90			18.5
20	256QAM	50	50	17.77	17.87	17.81			
20	256QAM	100	0	17.93	18.03	17.94			
Channel									
Frequency (MHz)				31623	31600	31575	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	20.72	20.95	21.23			
15	QPSK	1	37	20.28	20.36	20.42			22
15	QPSK	1	74	20.40	20.36	20.29			
15	QPSK	36	0	20.37	20.38	20.27			
15	QPSK	36	20	20.24	20.39	20.31			22
15	QPSK	36	39	20.17	20.24	20.24			
15	QPSK	75	0	20.13	20.39	20.25			
15	16QAM	1	0	20.31	20.44	20.25			
15	16QAM	1	37	20.27	20.37	20.17			22
15	16QAM	1	74	20.25	20.23	20.33			
15	16QAM	36	0	19.95	20.20	19.88			
15	16QAM	36	20	19.92	19.92	19.99			21.5
15	16QAM	36	39	19.78	19.93	19.83			
15	16QAM	75	0	19.85	19.99	19.88			
15	64QAM	1	0	19.94	20.23	19.99			
15	64QAM	1	37	19.77	19.97	20.07			21.5
15	64QAM	1	74	20.01	19.99	19.99			
15	64QAM	36	0	19.77	19.91	19.81			
15	64QAM	36	20	19.73	19.86	19.85			20.5
15	64QAM	36	39	19.72	19.78	19.78			
15	64QAM	75	0	19.75	19.85	19.59			
15	256QAM	1	0	17.78	17.97	17.88			18.5
15	256QAM	1	37	17.76	17.94	17.72			
15	256QAM	1	74	17.72	17.82	17.72			
15	256QAM	36	0	17.83	18.00	17.92			
15	256QAM	36	20	17.82	17.82	17.82			18.5
15	256QAM	36	39	17.64	17.77	17.71			
15	256QAM	75	0	17.79	17.96	17.84			
Channel									
Frequency (MHz)				25721	25695	25670	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	20.56	20.60	20.63			
10	QPSK	1	25	20.31	20.39	20.41			22
10	QPSK	1	49	20.35	20.26	20.34			
10	QPSK	12	0	20.37	20.42	20.42			
10	QPSK	25	12	20.24	20.48	20.30			22
10	QPSK	25	25	20.17	20.25	20.22			
10	16QAM	1	0	20.32	20.41	20.25			
10	16QAM	1	25	20.22	20.33	20.29			22
10	16QAM	1	49	20.16	20.17	20.33			
10	16QAM	25	0	20.04	20.20	19.98			
10	16QAM	25	12	20.04	19.83	19.86			21.5
10	16QAM	25	25	19.81	19.86	19.87			
10	16QAM	50	0	19.86	20.04	19.84			
10	64QAM	1	0	19.98	20.09	20.01			
10	64QAM	1	25	19.82	20.01	20.01			21.5
10	64QAM	1	49	20.06	19.83	20.04			
10	64QAM	25	0	19.81	20.00	19.81			
10	64QAM	25	12	19.71	19.85	19.78			20.5
10	64QAM	25	25	19.74	19.71	19.75			
10	64QAM	50	0	19.89	19.83	19.72			
10	256QAM	1	0	17.81	18.03	17.84			
10	256QAM	1	25	17.72	17.97	17.86			18.5
10	256QAM	1	49	17.71	17.70	17.74			
10	256QAM	25	0	17.84	17.83	17.84			
10	256QAM	25	12	17.86	17.81	17.85			18.5
10	256QAM	25	25	17.05	17.82	17.89			
10	256QAM	50	0	17.85	17.88	17.84			
Channel									
Frequency (MHz)				25725	25695	25670	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	20.56	20.61	20.38			
5	QPSK	1	19	20.31	20.32	20.37			22
5	QPSK	1	24	20.44	20.39	20.33			
5	QPSK	12	0	20.38	20.46	20.50			
5	QPSK	12	7	20.24	20.42	20.36			22
5	QPSK	12	19	20.11	20.29	20.18			
5	QPSK	25	0	20.29	20.39	20.29			
5	QPSK	25	0	20.31	20.44	20.23			
5	16QAM	1	12	20.28	20.39	20.16			22
5	16QAM	1	24	20.16	20.20	20.26			
5	16QAM	12	0	19.93	20.17	19.96			
5	16QAM	12	7	19.97	19.92	20.00			21.5
5	16QAM	12	13	19.77	19.93	19.89			
5	16QAM	25	0	19.82	19.96	19.83			
5	64QAM	1	0	19.94	20.12	20.00			
5	64QAM	1	12	19.89	19.96	20.03			21.5
5	64QAM	1	24	19.95	19.91	19.99			
5	64QAM	12	0	19.78	19.89	19.81			
5	64QAM	12	7	19.75	19.76	19.75			20.5
5	64QAM	12	13	19.72	19.78	19.71			
5	64QAM	25	0	19.89	19.76	19.86			
5	256QAM	1	0	17.83	18.01	17.86			
5	256QAM	1	12	17.74	18.03	17.82			18.5
5	256QAM	1	24	17.74	17.70	17.78			
5	256QAM	12	0	17.86	17.83	17.85			
5	256QAM	12	7	17.79	17.86	17.86			18.5
5	256QAM	12	13	17.79	17.81	17.79			
5	256QAM	25	0	17.87	17.89	17.89			

Band 41 FCC&IC Ant0									
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)				39750	40185	40600	41055	41460	
20	QPSK	1	0	22.49	22.62	22.69	22.78	22.84	
20	QPSK	1	49	22.33	22.54	22.82	22.54	22.44	
20	QPSK	1	99	22.28	22.31	22.49	22.30	22.34	23.5
20	QPSK	50	0	22.57	22.18	22.54	22.22	22.28	
20	QPSK	50	24	22.66	22.15	22.16	22.15	22.62	
20	QPSK	100	0	22.08	22.36	22.32	22.06	22.13	
20	16QAM	1	0	22.25	22.10	22.30	22.10	22.20	
20	16QAM	1	49	22.15	22.13	22.28	22.13	22.14	
20	16QAM	1	99	22.01	22.04	22.10	22.09	22.00	23.5
20	16QAM	1	99	22.92	22.03	22.13	22.04	22.20	
20	16QAM	50	0	21.52	21.16	21.38	21.24	21.49	
20	16QAM	50	24	21.12	21.57	21.99	21.25	21.37	
20	16QAM	50	50	21.01	21.06	21.16	21.16	21.04	22.5
20	16QAM	100	0	21.28	21.27	21.28	21.19	21.27	
20	64QAM	1	0	21.41	21.33	21.43	21.36	21.36	
20	64QAM	1	49	21.52	21.27	21.37	21.27	21.36	22.5
20	64QAM	1	99	21.18	21.38	21.38	21.30	21.30	
20	64QAM	50	0	20.27	20.27	20.40	20.35	20.31	
20	64QAM	50	24	20.23	20.24	20.32	20.22	20.29	
20	64QAM	50	50	20.19	20.18	20.24	20.13	20.17	21.5
20	64QAM	100	0	20.10	20.14	20.22	20.25	20.10	
20	256QAM	1	0	18.24	18.20	18.37	18.24	18.23	
20	256QAM	1	49	18.27	18.18	18.37	18.15	18.24	19.5
20	256QAM	1	99	18.10	18.08	18.23	18.15	18.16	
20	256QAM	50	0	18.19	18.14	18.26	18.10	18.19	
20	256QAM	50	24	18.19	18.14	18.24	18.10	18.14	19.5
20	256QAM	50	50	18.12	18.05	18.20	18.09	18.10	
20	256QAM	100	0	18.14	18.08	18.10	18.04	18.04	
Channel									
Frequency (MHz)				39750	40173	40600	41055	41460	Tune-up limit (dBm)
16	QPSK	1	0	22.01	22.43	22.93	23.17	23.62	MPR (dB)
16	QPSK	1	37	22.17	22.37	22.48	22.09	22.36	
16	QPSK	1	74	22.14	22.25	22.26	22.17	22.11	23.5
16	QPSK	36	0	22.20	22.01	22.20	22.09	22.25	
16	QPSK	36	20	21.99	22.01	22.09	22.05	21.91	
16	QPSK	36	39	22.04	22.04				



Band 41 PC2 FCC&IC Ant0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up Int (dBm)	MPR (dB)
Channel											
Frequency (MHz)				39750	40185	40620	41055	41490	41925		
20	QPSK	1	0	24.61	24.58	24.63	24.63	24.39	24.39	25.1	0
20	QPSK	1	49	24.52	24.19	24.57	24.36	24.37	24.37		
20	QPSK	50	0	24.26	24.46	24.46	24.46	24.46	24.46		
20	QPSK	50	24	24.35	24.22	24.36	24.29	24.07	24.07	25.1	0
20	QPSK	100	0	24.31	24.19	24.37	24.29	24.18	24.18		
20	16QAM	1	0	24.50	24.49	24.54	24.41	24.41	24.41	25.1	0
20	16QAM	1	49	24.35	24.24	24.35	24.24	24.24	24.24		
20	16QAM	1	99	24.33	24.38	24.40	24.39	24.21	24.21		
20	16QAM	50	0	24.26	24.15	24.36	24.27	24.10	24.10		0.1
20	16QAM	50	24	24.19	24.20	24.29	24.31	24.06	24.06	25	0.1
20	16QAM	50	50	24.11	24.05	24.17	24.11	23.97	23.97		
20	64QAM	100	0	24.29	24.21	24.26	24.19	24.17	24.17		
20	64QAM	100	0	24.13	24.15	24.23	24.15	24.10	24.10		
20	64QAM	1	49	24.02	24.11	24.16	24.15	23.98	23.98	25	0.1
20	64QAM	1	99	24.08	24.03	24.14	24.03	23.96	23.96		
20	64QAM	50	0	23.28	23.22	23.38	23.20	23.14	23.14		
20	64QAM	50	24	23.15	23.14	23.27	23.19	23.03	23.03		
20	64QAM	50	50	23.14	23.10	23.23	23.15	23.06	23.06		
20	64QAM	100	0	23.11	23.17	23.23	23.22	23.02	23.02	24	1.1
20	256QAM	1	0	21.61	21.42	21.59	21.46	21.20	21.20		
20	256QAM	1	49	21.42	21.40	21.69	21.42	21.30	21.30	22	3.1
20	256QAM	1	99	21.24	21.37	21.38	21.38	21.28	21.28		
20	256QAM	50	0	21.69	21.37	21.43	21.39	21.24	21.24		
20	256QAM	50	24	21.22	21.16	21.29	21.24	21.04	21.04	22	3.1
20	256QAM	50	50	21.14	21.12	21.21	21.20	21.05	21.05		
20	256QAM	100	0	21.32	21.16	21.21	21.16	21.01	21.01		
Channel											
Frequency (MHz)				25013	24973	25013	25013	24973		Turn-up Int (dBm)	MPR (dB)
15	QPSK	1	0	24.21	24.16	24.16	24.41	24.12	24.12	25.10	0
15	QPSK	1	37	24.45	24.11	24.80	24.32	24.23	24.23		
15	QPSK	1	74	24.12	24.27	24.42	24.27	24.27	24.27		
15	QPSK	36	0	24.32	24.26	24.44	24.26	24.26	24.26		
15	QPSK	36	20	24.32	24.17	24.23	24.22	24.01	24.01	25.1	0
15	QPSK	36	39	23.94	24.15	24.15	24.29	24.24	24.24		
15	QPSK	75	0	24.18	24.15	24.26	24.17	24.13	24.13		
15	16QAM	1	0	24.48	24.38	24.47	24.30	24.30	24.30	25.1	0
15	16QAM	1	37	24.21	24.28	24.36	24.41	24.26	24.26		
15	16QAM	1	74	24.20	24.31	24.32	24.32	24.14	24.14		
15	16QAM	36	0	24.22	24.02	24.24	24.16	23.97	23.97		
15	16QAM	36	20	24.02	24.02	24.22	24.02	23.92	23.92	25	0.1
15	16QAM	36	39	24.08	23.99	24.08	24.08	23.86	23.86		
15	16QAM	75	0	24.10	24.08	24.27	24.04	24.02	24.02		
15	64QAM	1	0	24.04	24.10	24.16	24.09	23.99	23.99	25	0.1
15	64QAM	1	37	23.89	24.04	23.97	23.98	23.88	23.88		
15	64QAM	1	74	24.03	23.89	24.10	23.94	23.92	23.92		
15	64QAM	36	0	23.19	23.16	23.35	23.02	23.05	23.05	24	1.1
15	64QAM	36	20	23.05	22.99	23.22	23.15	22.87	22.87		
15	64QAM	36	39	23.06	22.96	23.14	23.06	22.86	22.86		
15	64QAM	75	0	23.04	23.03	23.09	23.15	22.92	22.92		
15	256QAM	1	0	21.43	21.30	21.31	21.39	21.22	21.22	22	3.1
15	256QAM	1	37	21.42	21.27	21.46	21.26	21.16	21.16		
15	256QAM	1	74	21.20	21.26	21.32	21.23	21.20	21.20		
15	256QAM	36	0	21.24	21.17	21.34	21.25	21.11	21.11	22	3.1
15	256QAM	36	20	21.08	21.12	21.07	21.09	20.98	20.98		
15	256QAM	36	39	21.10	21.08	21.07	21.09	20.98	20.98		
15	256QAM	75	0	21.21	21.12	21.31	21.06	21.07	21.07		
Channel											
Frequency (MHz)				25013	24973	25013	25013	24973		Turn-up Int (dBm)	MPR (dB)
10	QPSK	1	0	24.23	24.17	24.17	24.42	24.13	24.13	25.10	0
10	QPSK	1	25	24.38	24.05	24.53	24.33	24.33	24.33		
10	QPSK	1	49	24.16	24.37	24.40	24.38	24.29	24.29		
10	QPSK	1	74	24.43	24.05	24.46	24.29	24.29	24.29		
10	QPSK	25	12	24.23	24.15	24.23	24.15	23.95	23.95	25.1	0
10	QPSK	25	25	23.95	24.01	24.15	24.27	24.06	24.06		
10	16QAM	1	0	24.38	24.16	24.27	24.26	24.06	24.06	25.1	0
10	16QAM	1	25	24.22	24.31	24.34	24.37	24.11	24.11		
10	16QAM	1	49	24.21	24.32	24.29	24.32	24.17	24.17		
10	16QAM	25	0	24.23	24.09	24.31	24.12	24.03	24.03		
10	16QAM	25	12	24.12	24.15	24.22	24.06	23.91	23.91	25	0.1
10	16QAM	50	0	24.18	24.14	24.28	24.08	24.13	24.13		
10	64QAM	1	0	24.08	24.09	24.26	24.08	23.97	23.97	25	0.1
10	64QAM	1	25	23.94	23.89	24.02	23.92	23.86	23.86		
10	64QAM	25	12	23.21	23.08	23.23	23.15	23.03	23.03	24	1.1
10	64QAM	25	25	23.02	22.97	23.20	23.08	22.96	22.96		
10	64QAM	50	0	22.97	22.97	23.15	23.18	22.98	22.98		
10	256QAM	1	0	21.47	21.39	21.54	21.36	21.18	21.18	22	3.1
10	256QAM	1	25	21.31	21.26	21.47	21.30	21.25	21.25		
10	256QAM	1	49	21.14	21.30	21.35	21.30	21.22	21.22		
10	256QAM	25	0	21.28	21.21	21.38	21.32	21.20	21.20	22	3.1
10	256QAM	25	12	21.09	21.04	21.21	21.17	20.94	20.94		
10	256QAM	25	25	20.93	21.07	21.13	21.15	20.95	20.95		
10	256QAM	50	0	21.28	21.16	21.27	21.11	21.02	21.02		
Channel											
Frequency (MHz)				2468.5	2464.5	2468.5	2468.5	2464.5		Turn-up Int (dBm)	MPR (dB)
5	QPSK	1	0	24.26	24.46	24.53	24.33	24.36	24.36	25.10	0
5	QPSK	1	12	24.43	24.15	24.86	24.32	24.23	24.23		
5	QPSK	1	24	24.18	24.33	24.42	24.28	24.28	24.28		
5	QPSK	12	0	24.32	24.33	24.43	24.30	23.94	23.94	25.1	0
5	QPSK	12	7	24.32	24.12	24.26	24.24	23.99	23.99		
5	QPSK	12	18	23.97	24.12	24.11	24.17	24.03	24.03		
5	QPSK	25	0	24.26	24.05	24.36	24.23	24.06	24.06		
5	16QAM	1	0	24.42	24.46	24.41	24.28	24.33	24.33	25.1	0
5	16QAM	1	12	24.32	24.31	24.30	24.41	24.21	24.21		
5	16QAM	1	24	24.21	24.31	24.28	24.25	24.18	24.18		
5	16QAM	12	0	24.20	24.02	24.31	24.20	24.02	24.02		
5	16QAM	12	7	24.15	24.14	24.19	24.06	23.97	23.97	25	0.1
5	16QAM	12	18	24.06	23.98	24.03	24.07	23.86	23.86		
5	16QAM	25	0	24.12	24.15	24.26	24.08	24.07	24.07		
5	64QAM	1	0	24.07	24.10	24.21	24.05	24.00	24.00	25	0.1
5	64QAM	1	12	23.91	23.97	24.02	24.07	23.92	23.92		
5	64QAM	1	24	23.97	23.99	24.11	23.99	23.89	23.89		
5	64QAM	12	0	23.18	23.14	23.27	23.10	23.06	23.06	24	1.1
5	64QAM	12	7	23.08	23.06	23.15	23.10	22.99	22.99		
5	64QAM	12	18	23.00	22.98	23.16	23.05	22.91	22.91		
5	64QAM	25	0	23.08	23.11	23.11	23.18	23.08	23.08		
5	256QAM	1	0	21.45	21.34	21.49	21.41	21.22	21.22	22	3.1
5	256QAM	1	12	21.48	21.25	21.46	21.27	21.17	21.17		
5	256QAM	1	24	21.19	21.30	21.32	21.28	21.22	21.22		
5	256QAM	12	0	21.10	21.07	21.22	21.20	20.93	20.93	22	3.1
5	256QAM	12	7	21.09	21.06	21.15	21.16	20.99	20.99		
5	256QAM	12	18	21.08	21.06	21.15	21.16	20.99	20.99		
5	256QAM	25	0	21.24	21.17	21.25	21.12	21.06	21.06		

Band 48 Default Ant0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up Int (dBm)	MPR (dB)
Channel											
Frequency (MHz)				36340	36830	36340	36830	36340	36830		
20	QPSK	1	0	21.28	21.44	21.37	21.37	21.20	21.20	23	0
20	QPSK	1	49	21.23	21.39	21.34	21.34	21.25	21.25		
20	QPSK	50	0	21.26	21.34	21.39	21.39	21.29	21.29		



DCM900 Aet		Default							
	Base	Base Average Power (dBm)			Turn-up	Frame Average Power (dBm)			Turn-up
	Power	198	199	201	Limit	198	199	201	Limit
	Frequency (MHz)	895.2	895.4	895.6	(dBm)	895.2	895.4	895.6	(dBm)
TX Channel		198	199	201	Limit	198	199	201	Limit
OPRS-1 Tx side		31.42	31.48	31.36	32.50	22.42	22.48	22.36	23.50
OPRS-2 Tx side		31.38	31.44	31.33	32.50	22.38	22.44	22.33	23.50
OPRS-3 Tx side		25.27	25.30	25.32	26.50	22.27	22.29	22.30	23.50
OPRS-4 Tx side		26.80	26.91	26.80	28.00	22.54	22.65	22.54	23.74
EDGE-1 Tx side		24.00	24.17	24.05	25.00	18.00	18.17	18.05	18.50
EDGE-2 Tx side		22.20	22.41	22.34	23.50	16.20	16.41	16.34	17.50
EDGE-3 Tx side		21.15	21.21	21.68	22.00	16.89	16.97	18.82	17.74
EDGE-4 Tx side		18.50	18.50	18.53	20.00	15.99	16.02	16.01	17.00

DCM900 Aet		Default							
	Base	Base Average Power (dBm)			Turn-up	Frame Average Power (dBm)			Turn-up
	Power	189.2	189.3	189.8	Limit	189.2	189.3	189.8	Limit
	Frequency (MHz)	1693.2	1693.3	1693.8	(dBm)	1693.2	1693.3	1693.8	(dBm)
TX Channel		189.2	189.3	189.8	Limit	189.2	189.3	189.8	Limit
OPRS-1 Tx side		27.52	27.67	27.67	28.50	18.52	18.67	18.67	19.50
OPRS-2 Tx side		25.06	25.00	24.88	26.00	19.06	19.00	18.98	20.00
OPRS-3 Tx side		25.36	25.42	25.32	26.50	19.36	19.42	19.36	20.50
OPRS-4 Tx side		20.62	20.74	20.63	21.50	17.62	17.74	17.63	18.50
EDGE-1 Tx side		12.76	12.86	12.72	13.50	13.76	13.86	13.72	14.50
EDGE-2 Tx side		21.13	21.22	21.13	22.00	15.13	15.22	15.13	16.00
EDGE-3 Tx side		14.82	14.96	14.82	15.50	13.82	13.96	13.82	14.74
EDGE-4 Tx side		17.91	18.05	17.97	19.00	14.91	15.05	14.97	16.00

Base		Default WCDMA II Aet			Default WCDMA IV Aet			Default WCDMA V Aet			
	Power	1682	1680	1658	1432	1413	1513	4152	4162	4238	
	Frequency (MHz)	1682.4	1680.4	1667.6	1432.4	1413.4	1513.6	4152.4	4162.4	4238.6	
TX Channel		1682	1680	1658	1432	1413	1513	4152	4162	4238	
RS Channel		1682	1680	1668	1432	1413	1513	4152	4162	4246	
ISPP-Rel#0	HRPA-Subnet0	21.45	21.52	21.44	23.00	21.42	21.44	21.31	22.50	21.14	21.04
ISPP-Rel#1	HRPA-Subnet1	21.48	21.51	21.51	23.00	21.45	21.45	21.32	22.50	21.17	21.00
ISPP-Rel#2	HRPA-Subnet2	20.85	20.64	20.47	22.00	20.46	20.57	20.32	21.50	20.23	20.00
ISPP-Rel#3	HRPA-Subnet3	20.48	20.51	20.52	22.00	20.42	20.50	20.41	21.50	20.12	20.17
ISPP-Rel#4	HRPA-Subnet4	20.02	20.14	20.10	21.50	19.91	20.02	19.95	21.00	19.87	19.89
ISPP-Rel#5	HRPA-Subnet5	19.56	20.14	20.36	21.50	19.57	20.31	19.54	21.00	19.56	20.29
ISPP-Rel#6	DCH-Rel#1	20.50	20.70	20.45	22.00	20.46	20.63	20.35	21.00	20.21	20.31
ISPP-Rel#7	DCH-Rel#2	20.37	20.42	20.36	22.00	20.33	20.29	20.28	21.00	20.08	19.84
ISPP-Rel#8	DCH-Rel#3	19.00	19.90	19.92	21.50	19.04	19.84	19.86	21.00	19.95	19.95
ISPP-Rel#9	DCH-Rel#4	19.87	19.84	19.90	21.50	19.82	19.80	19.83	21.00	19.49	19.47
ISPP-Rel#10	HRPA-Subnet1	20.96	20.81	20.80	22.00	20.43	20.98	20.96	21.00	20.10	20.22
ISPP-Rel#11	HRPA-Subnet2	18.53	18.67	18.52	20.00	18.42	18.53	18.39	19.50	18.09	18.19
ISPP-Rel#12	HRPA-Subnet3	18.20	18.48	18.58	21.00	18.43	18.51	18.49	20.00	18.18	18.36
ISPP-Rel#13	HRPA-Subnet4	18.45	18.48	18.44	20.00	18.37	18.45	18.35	19.50	18.04	18.14
ISPP-Rel#14	HRPA-Subnet5	20.59	20.40	20.39	22.00	20.55	20.36	20.33	21.00	20.21	20.03



Band 2 Default Ant1										
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (dB)	MPR (dB)		
Channel				Ch. 1 / Freq.	Ch. 2 / Freq.	Ch. 3 / Freq.				
20	QPSK	1	0	20.90	21.00	20.98				
20	QPSK	1	49	20.92	20.98	20.78				
20	QPSK	1	99	20.80	20.99	20.80			22	0
20	QPSK	50	0	20.99	21.00	20.99				
20	QPSK	50	24	20.87	20.98	20.80				
20	QPSK	50	49	20.88	20.92	20.80				
20	QPSK	100	0	20.90	20.95	20.87				
20	QPSK	100	24	20.80	20.90	20.78				
20	QPSK	100	49	20.77	20.83	20.83			22	0
20	16QAM	1	99	20.89	20.73	20.77				
20	16QAM	50	0	20.92	20.88	20.78				
20	16QAM	50	24	20.72	20.85	20.69			21.5	0.5
20	16QAM	50	49	20.72	20.79	20.86				
20	16QAM	100	0	20.70	20.85	20.77				
20	64QAM	1	0	20.71	20.80	20.71				
20	64QAM	1	49	20.87	20.76	20.72			21.5	0.5
20	64QAM	1	99	19.92	19.98	19.76				
20	64QAM	50	0	19.82	19.88	19.78				
20	64QAM	50	24	19.77	19.73	19.89			20.5	1.5
20	64QAM	50	49	19.79	19.85	19.88				
20	64QAM	100	0	19.86	19.83	19.80				
20	256QAM	1	49	17.87	17.89	17.89			18.5	3.5
20	256QAM	1	99	17.82	17.86	17.81				
20	256QAM	50	0	17.73	17.82	17.86				
20	256QAM	50	24	17.73	17.83	17.80			18.5	3.5
20	256QAM	50	49	17.75	17.81	17.69				
20	256QAM	100	0	17.65	17.80	17.74				
Channel				1897.5	1890.0	1875.0	Turn-up (dB)	MPR (dB)		
15	QPSK	1	0	20.88	21.02	20.89				
15	QPSK	1	49	20.75	20.90	20.80			22	0
15	QPSK	1	99	20.73	21.00	20.78				
15	QPSK	50	0	20.93	21.03	20.87				
15	QPSK	50	24	20.78	20.90	20.88				
15	QPSK	50	49	20.90	20.83	20.73			22	0
15	QPSK	100	0	20.92	20.97	20.81				
15	16QAM	1	99	20.75	20.81	20.81				
15	16QAM	50	0	20.76	20.73	20.84			22	0
15	16QAM	50	24	20.76	20.81	20.79				
15	16QAM	50	49	20.72	20.84	20.69			21.5	0.5
15	16QAM	100	0	20.73	20.83	20.75				
15	64QAM	1	0	20.73	20.72	20.67				
15	64QAM	1	49	20.76	20.74	20.74			21.5	0.5
15	64QAM	1	99	20.73	20.83	20.75				
15	64QAM	50	0	19.72	19.85	19.74				
15	64QAM	50	24	19.75	19.78	19.86			20.5	1.5
15	64QAM	50	49	19.74	19.85	19.81				
15	64QAM	100	0	19.85	19.87	19.63				
15	256QAM	1	49	17.52	17.56	17.51			18.5	3.5
15	256QAM	1	99	17.50	17.54	17.46				
15	256QAM	50	0	17.66	17.77	17.71			18.5	3.5
15	256QAM	50	24	17.57	17.72	17.68				
15	256QAM	50	49	17.55	17.64	17.68			18.5	3.5
Channel				2002.5	2017.5	2032.5	Turn-up (dB)	MPR (dB)		
15	QPSK	1	0	20.88	21.02	20.78				
15	QPSK	1	49	20.70	20.80	20.73			22	0
15	QPSK	1	99	20.66	20.86	20.73				
15	QPSK	50	0	20.83	20.86	20.74				
15	QPSK	50	24	20.62	20.76	20.67			22	0
15	QPSK	50	49	20.60	20.78	20.69				
15	QPSK	100	0	20.60	20.78	20.69				
15	16QAM	1	99	20.60	20.78	20.69				
15	16QAM	50	0	20.67	20.79	20.62			22	0
15	16QAM	50	24	20.67	20.79	20.62				
15	16QAM	50	49	20.67	20.79	20.62			21.5	0.5
15	16QAM	100	0	20.58	20.69	20.63				
15	64QAM	1	0	20.57	20.67	20.57				
15	64QAM	1	49	20.58	20.68	20.63			21.5	0.5
15	64QAM	1	99	20.58	20.68	20.63				
15	64QAM	50	0	19.55	19.59	19.71				
15	64QAM	50	24	19.56	19.58	19.68			20.5	1.5
15	64QAM	50	49	19.55	19.55	19.51				
15	64QAM	100	0	19.65	19.67	19.63				
15	256QAM	1	49	17.37	17.40	17.24			18.5	3.5
15	256QAM	1	99	17.38	17.41	17.23				
15	256QAM	50	0	17.52	17.65	17.65			18.5	3.5
15	256QAM	50	24	17.42	17.60	17.54				
15	256QAM	50	49	17.42	17.64	17.68			18.5	3.5
Channel				2017.5	1972.5	1947.5	Turn-up (dB)	MPR (dB)		
15	QPSK	1	0	20.88	21.02	20.78				
15	QPSK	1	49	20.70	20.80	20.73			22	0
15	QPSK	1	99	20.66	20.86	20.73				
15	QPSK	50	0	20.83	20.86	20.74				
15	QPSK	50	24	20.62	20.76	20.67			22	0
15	QPSK	50	49	20.60	20.78	20.69				
15	QPSK	100	0	20.60	20.78	20.69				
15	16QAM	1	99	20.60	20.78	20.69				
15	16QAM	50	0	20.67	20.79	20.62			22	0
15	16QAM	50	24	20.67	20.79	20.62				
15	16QAM	50	49	20.67	20.79	20.62			21.5	0.5
15	16QAM	100	0	20.58	20.69	20.63				
15	64QAM	1	0	20.57	20.67	20.57				
15	64QAM	1	49	20.58	20.68	20.63			21.5	0.5
15	64QAM	1	99	20.58	20.68	20.63				
15	64QAM	50	0	19.55	19.59	19.71				
15	64QAM	50	24	19.56	19.58	19.68			20.5	1.5
15	64QAM	50	49	19.55	19.55	19.51				
15	64QAM	100	0	19.65	19.67	19.63				
15	256QAM	1	49	17.37	17.40	17.24			18.5	3.5
15	256QAM	1	99	17.38	17.41	17.23				
15	256QAM	50	0	17.52	17.65	17.65			18.5	3.5
15	256QAM	50	24	17.42	17.60	17.54				
15	256QAM	50	49	17.42	17.64	17.68			18.5	3.5
Channel				2002.5	2017.5	2032.5	Turn-up (dB)	MPR (dB)		
15	QPSK	1	0	20.88	21.02	20.78				
15	QPSK	1	49	20.70	20.80	20.73			22	0
15	QPSK	1	99	20.66	20.86	20.73				
15	QPSK	50	0	20.83	20.86	20.74				
15	QPSK	50	24	20.62	20.76	20.67			22	0
15	QPSK	50	49	20.60	20.78	20.69				
15	QPSK	100	0	20.60	20.78	20.69				
15	16QAM	1	99	20.60	20.78	20.69				
15	16QAM	50	0	20.67	20.79	20.62			22	0
15	16QAM	50	24	20.67	20.79	20.62				
15	16QAM	50	49	20.67	20.79	20.62			21.5	0.5
15	16QAM	100	0	20.58	20.69	20.63				
15	64QAM	1	0	20.57	20.67	20.57				
15	64QAM	1	49	20.58	20.68	20.63			21.5	0.5
15	64QAM	1	99	20.58	20.68	20.63				
15	64QAM	50	0	19.55	19.59	19.71				
15	64QAM	50	24	19.56	19.58	19.68			20.5	1.5
15	64QAM	50	49	19.55	19.55	19.51				
15	64QAM	100	0	19.65	19.67	19.63				
15	256QAM	1	49	17.37	17.40	17.24			18.5	3.5
15	256QAM	1	99	17.38	17.41	17.23				
15	256QAM	50	0	17.52	17.65	17.65			18.5	3.5
15	256QAM	50	24	17.42	17.60	17.54				
15										



Band 12 Default Ant1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int. (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.81	21.73	21.68				
10	QPSK	1	25	21.82	21.69	21.52				
10	QPSK	1	49	21.47	21.49	21.52		23	0	
10	QPSK	25	0	21.60	21.70	21.55				
10	QPSK	25	12	21.65	21.63	21.53				
10	QPSK	25	25	21.46	21.48	21.46		23	0	
10	QPSK	50	0	21.51	21.57	21.45				
10	QPSK	50	12	21.55	21.50	21.51				
10	16QAM	1	25	21.40	21.48	21.36		23	0	
10	16QAM	1	49	21.35	21.46	21.44				
10	16QAM	25	0	21.39	21.50	21.49				
10	16QAM	25	12	21.34	21.48	21.40		22.5	0.5	
10	16QAM	25	25	21.38	21.39	21.41				
10	16QAM	50	0	21.52	21.56	21.40				
10	16QAM	1	0	21.34	21.50	21.36		22.5	0.5	
10	8QAM	1	25	21.26	21.26	21.33		22.5	0.5	
10	8QAM	1	49	21.24	21.38	21.28				
10	8QAM	25	0	20.49	20.53	20.43				
10	8QAM	25	12	20.57	20.43	20.31		21.5	1.5	
10	8QAM	25	25	20.33	20.34	20.33				
10	8QAM	50	0	20.25	20.27	20.31				
10	256QAM	1	25	18.44	18.42	18.36		19.5	3.5	
10	256QAM	1	49	18.41	18.37	18.33				
10	256QAM	25	0	18.26	18.26	18.32				
10	256QAM	25	12	18.26	18.37	18.36		19.5	3.5	
10	256QAM	25	25	18.24	18.32	18.32				
10	256QAM	50	0	18.33	18.25	18.20				
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.56	21.63	21.54				
5	QPSK	1	25	21.57	21.66	21.44		23	0	
5	QPSK	1	49	21.33	21.44	21.40				
5	QPSK	12	0	21.51	21.56	21.44				
5	QPSK	12	12	21.49	21.46	21.39		23	0	
5	QPSK	12	13	21.34	21.39	21.41				
5	QPSK	25	0	21.40	21.47	21.35				
5	16QAM	1	25	21.48	21.48	21.40		23	0	
5	16QAM	1	49	21.36	21.37	21.23				
5	16QAM	12	0	21.31	21.48	21.41				
5	16QAM	12	7	21.23	21.39	21.27		22.5	0.5	
5	16QAM	25	0	21.26	21.43	21.34				
5	8QAM	1	0	21.20	21.36	21.22		22.5	0.5	
5	8QAM	1	25	21.15	21.27	21.11				
5	8QAM	1	49	20.31	20.41	20.36				
5	8QAM	12	0	20.33	20.34	20.16		21.5	1.5	
5	8QAM	12	13	20.17	20.20	20.15				
5	8QAM	25	0	20.15	20.22	20.24				
5	256QAM	1	25	18.36	18.32	18.36		19.5	3.5	
5	256QAM	1	49	18.31	18.30	18.45				
5	256QAM	1	24	18.28	18.31	18.25				
5	256QAM	12	0	18.17	18.23	18.23		19.5	3.5	
5	256QAM	12	7	18.17	18.24	18.23				
5	256QAM	12	13	18.20	18.23	18.23				
5	256QAM	25	0	18.23	18.42	18.17				
Channel										
Frequency (MHz)										
3	QPSK	1	0	21.62	21.63	21.55				
3	QPSK	1	25	21.32	21.54	21.37		23	0	
3	QPSK	1	49	21.42	21.43	21.38				
3	QPSK	12	0	21.55	21.60	21.48				
3	QPSK	12	12	21.48	21.52	21.39		23	0	
3	QPSK	12	13	21.32	21.40	21.38				
3	QPSK	25	0	21.42	21.47	21.35				
3	16QAM	1	0	21.47	21.57	21.37		23	0	
3	16QAM	1	25	21.30	21.41	21.33				
3	16QAM	1	49	21.22	21.43	21.36				
3	16QAM	12	0	21.26	21.49	21.41		22.5	0.5	
3	16QAM	12	7	21.21	21.38	21.30				
3	16QAM	12	13	21.28	21.33	21.27				
3	16QAM	25	0	21.22	21.47	21.39		22.5	0.5	
3	8QAM	1	0	21.20	21.40	21.29		22.5	0.5	
3	8QAM	1	25	21.12	21.28	21.18				
3	8QAM	1	49	21.12	21.23	21.16				
3	8QAM	12	0	20.37	20.43	20.39		21.5	1.5	
3	8QAM	12	7	20.16	20.19	20.27				
3	8QAM	12	13	20.19	20.25	20.22				
3	256QAM	1	0	18.30	18.42	18.36		19.5	3.5	
3	256QAM	1	24	18.27	18.40	18.43				
3	256QAM	1	14	18.28	18.33	18.26				
3	256QAM	12	0	18.18	18.23	18.23		19.5	3.5	
3	256QAM	12	7	18.20	18.19	18.20				
3	256QAM	12	13	18.23	18.30	18.24				
3	256QAM	25	0	18.23	18.38	18.17				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	21.62	21.63	21.55				
1.4	QPSK	1	3	21.35	21.50	21.40		23	0	
1.4	QPSK	1	5	21.40	21.44	21.45				
1.4	QPSK	3	0	21.57	21.61	21.40				
1.4	QPSK	3	1	21.48	21.50	21.39		23	0	
1.4	QPSK	3	3	21.35	21.39	21.38				
1.4	16QAM	1	0	21.30	21.50	21.39		23	0	
1.4	16QAM	1	3	21.34	21.40	21.33				
1.4	16QAM	1	5	21.26	21.43	21.40				
1.4	16QAM	3	0	21.28	21.48	21.39		23	0	
1.4	16QAM	3	1	21.26	21.44	21.28				
1.4	16QAM	3	3	21.23	21.37	21.36				
1.4	8QAM	1	0	21.21	21.48	21.34		22.5	0.5	
1.4	8QAM	1	3	21.28	21.41	21.27				
1.4	8QAM	1	5	21.13	21.21	21.19				
1.4	8QAM	3	0	21.23	21.36	21.32		22.5	0.5	
1.4	8QAM	3	1	21.23	21.23	21.20				
1.4	8QAM	3	3	21.10	21.22	21.17				
1.4	8QAM	6	0	20.39	20.41	20.29		21.5	1.5	
1.4	256QAM	1	0	18.37	18.40	18.44		19.5	3.5	
1.4	256QAM	1	3	18.33	18.50	18.44				
1.4	256QAM	3	0	18.29	18.26	18.24				
1.4	256QAM	3	1	18.27	18.30	18.30		19.5	3.5	
1.4	256QAM	3	1	18.14	18.30	18.24				
1.4	256QAM	6	0	18.19	18.24	18.22		19.5	3.5	
1.4	256QAM	6	3	18.21	18.30	18.19				

Band 13 Default Ant1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int. (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.67	21.67	21.67				
10	QPSK	1	25	21.43	21.43	21.43		23	0	
10	QPSK	1	49	21.50	21.50	21.50				
10	QPSK	25	0	21.63	21.63	21.63				
10	QPSK	25	12	21.52	21.52	21.52		23	0	
10	QPSK	25	25	21.39	21.39	21.39				
10	QPSK	50	0	21.50	21.50	21.50				
10	QPSK	50	12	21.51	21.51	21.51				
10	16QAM	1	25	21.45	21.45	21.45		23	0	
10	16QAM	1	49	21.45	21.45	21.45				
10	16QAM	25	0	21.47	21.47	21.47		22.5	0.5	
10	16QAM	25	12	21.42	21.42	21.42				
10	16QAM	25	25	21.40	21.40	21.40				
10	16QAM	50	0	21.49	21.49	21.49				
10	8QAM	1	0	21.19	21.19	21.19		22.5	0.5	
10	8QAM	1	25	21.04	21.04	21.04		22.5	0.5	
10	8QAM	1	49	21.02	21.02	21.02				
10	8QAM	25	0	20.21	20.21	20.21				
10	8QAM	25	12	20.12	20.12	20.12		21.5	1.5	
10	8QAM									



Band 25 Default Ant1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPE (dB)		
Channel										
20	QPSK	1	0	21.00	21.11	21.06				
20	QPSK	1	48	20.83	20.94	20.89				
20	QPSK	1	96	20.67	20.78	20.83				
20	QPSK	50	0	20.92	21.00	20.96				
20	QPSK	50	24	20.84	20.95	20.89				
20	QPSK	50	50	20.76	20.87	20.80				
20	QPSK	100	0	20.89	21.02	20.94				
20	16QAM	50	0	20.87	21.06	20.93				
20	16QAM	1	48	20.83	20.93	20.89				
20	16QAM	1	96	20.76	20.86	20.80				
20	16QAM	50	0	20.84	21.00	20.94				
20	16QAM	50	24	20.77	20.90	20.81				
20	16QAM	50	50	20.74	20.79	20.75				
20	16QAM	100	0	20.82	20.98	20.79				
20	64QAM	1	0	20.88	21.09	20.97				
20	64QAM	1	48	20.82	20.97	20.89				
20	64QAM	1	96	20.88	20.98	20.80				
20	64QAM	50	0	20.89	21.01	20.89				
20	64QAM	50	24	20.81	20.89	20.84				
20	64QAM	50	50	20.76	20.78	20.74				
20	256QAM	100	0	20.88	20.95	20.92				
20	256QAM	1	48	17.82	17.87	17.85				
20	256QAM	1	96	17.77	17.84	17.77				
20	256QAM	50	0	17.86	17.98	17.86				
20	256QAM	50	24	17.80	17.85	17.84				
20	256QAM	50	50	17.71	17.82	17.78				
20	256QAM	100	0	17.82	17.89	17.82				
Channel										
18	QPSK	1	0	20.89	21.07	20.98				
18	QPSK	1	32	20.76	20.81	20.79				
18	QPSK	1	74	20.75	20.84	20.78				
18	QPSK	36	0	20.83	20.94	20.91				
18	QPSK	36	20	20.80	20.77	20.77				
18	QPSK	36	39	20.82	20.79	20.74				
18	QPSK	75	0	20.82	20.98	20.88				
18	16QAM	1	0	20.80	20.88	20.88				
18	16QAM	1	32	20.77	20.83	20.79				
18	16QAM	1	74	20.86	20.97	20.91				
18	16QAM	36	0	20.91	20.96	20.91				
18	16QAM	36	20	20.71	20.86	20.74				
18	16QAM	36	39	20.87	20.98	20.92				
18	16QAM	75	0	20.78	20.91	20.81				
18	64QAM	1	0	20.83	21.06	20.88				
18	64QAM	1	32	20.88	20.98	20.87				
18	64QAM	1	74	20.74	20.85	20.75				
18	64QAM	36	0	20.76	20.86	20.75				
18	64QAM	36	20	20.76	20.86	20.75				
18	64QAM	36	39	20.82	20.83	20.80				
18	64QAM	75	0	20.77	20.81	20.88				
18	256QAM	100	0	17.86	17.89	17.86				
18	256QAM	1	32	17.88	17.93	17.79				
18	256QAM	1	74	17.83	17.71	17.73				
18	256QAM	36	0	17.86	17.81	17.86				
18	256QAM	36	20	17.69	17.78	17.77				
18	256QAM	36	39	17.86	17.78	17.67				
18	256QAM	75	0	17.82	17.87	17.80				
Channel										
15	QPSK	1	0	20.88	21.00	20.94				
15	QPSK	1	25	20.78	20.93	20.89				
15	QPSK	1	49	20.78	20.80	20.73				
15	QPSK	12	0	20.88	20.97	20.94				
15	QPSK	12	25	20.77	20.77	20.76				
15	QPSK	25	0	20.83	20.78	20.73				
15	QPSK	25	25	20.79	20.88	20.80				
15	16QAM	1	0	20.80	20.97	20.82				
15	16QAM	1	24	20.74	20.78	20.79				
15	16QAM	1	49	20.86	20.98	20.92				
15	16QAM	25	0	20.77	20.91	20.75				
15	16QAM	25	12	20.88	20.88	20.74				
15	16QAM	25	25	20.87	20.94	20.82				
15	16QAM	50	0	20.76	20.81	20.85				
15	64QAM	1	0	20.89	21.00	20.93				
15	64QAM	1	24	20.77	20.85	20.77				
15	64QAM	1	49	20.84	20.80	20.85				
15	64QAM	25	0	20.79	20.88	20.74				
15	64QAM	25	12	20.86	20.97	20.91				
15	64QAM	25	25	20.85	20.86	20.82				
15	64QAM	50	0	20.71	20.91	20.81				
15	256QAM	1	28	17.88	17.99	17.74				
15	256QAM	1	49	17.71	17.75	17.62				
15	256QAM	12	0	17.80	17.85	17.82				
15	256QAM	25	12	17.74	17.71	17.77				
15	256QAM	25	25	17.64	17.74	17.74				
15	256QAM	50	0	17.82	17.86	17.79				
Channel										
12	QPSK	1	0	20.88	21.00	20.94				
12	QPSK	1	12	20.80	20.84	20.89				
12	QPSK	1	24	20.69	20.81	20.89				
12	QPSK	12	0	20.78	20.82	20.82				
12	QPSK	12	7	20.73	20.83	20.74				
12	QPSK	12	13	20.84	20.80	20.74				
12	QPSK	25	0	20.80	20.88	20.80				
12	16QAM	1	0	20.73	20.92	20.82				
12	16QAM	1	12	20.73	20.81	20.75				
12	16QAM	1	24	20.68	20.71	20.78				
12	16QAM	12	0	20.77	20.90	20.86				
12	16QAM	12	7	20.72	20.78	20.72				
12	16QAM	12	13	20.84	20.74	20.87				
12	16QAM	25	0	20.69	20.84	20.83				
12	64QAM	1	0	20.85	21.04	20.91				
12	64QAM	1	12	20.85	20.88	20.81				
12	64QAM	1	24	20.77	20.79	20.89				
12	64QAM	12	0	20.75	20.92	20.84				
12	64QAM	12	7	20.77	20.74	20.79				
12	64QAM	12	13	20.59	20.68	20.83				
12	64QAM	25	0	20.74	20.84	20.86				
12	256QAM	1	0	17.77	18.09	17.77				
12	256QAM	1	12	17.81	18.02	17.74				
12	256QAM	1	24	17.73	17.79	17.69				
12	256QAM	12	0	17.76	17.81	17.75				
12	256QAM	12	7	17.70	17.71	17.74				
12	256QAM	25	13	17.62	17.70	17.74				
12	256QAM	25	25	17.63	17.64	17.63				
Channel										
10	QPSK	1	0	20.88	21.00	20.94				
10	QPSK	1	8	20.75	20.83	20.87				
10	QPSK	1	14	20.71	20.87	20.79				
10	QPSK	8	0	20.81	21.02	20.91				
10	QPSK	8	4	20.73	20.83	20.76				
10	QPSK	8	7	20.69	20.79	20.71				
10	QPSK	15	0	20.81	20.84	20.83				
10	16QAM	1	0	20.81	20.99	20.86				
10	16QAM	1	8	20.78	20.84	20.85				
10	16QAM	1	14	20.85	20.79	20.72				
10	16QAM	8	0	20.76	20.86	20.79				
10	16QAM	8	4	20.67	20.84	20.72				
10	16QAM	8	7	20.60	20.66	20.61				
10	16QAM	15	0	20.74	20.88	20.83				
10	64QAM	1	0	20.84	21.00	20.87				
10	64QAM	1	8	20.86	20.93	20.79				
10	64QAM	1	14	20.81	20.79	20.69				
10	64QAM	8	0	20.75	20.84	20.79				
10	64QAM	8	4	20.71	20.81	20.73				
10	64QAM	8	7	20.64	20.83	20.67				



Band 66 Default Ant1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Turn-up (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.03	21.12	20.97				
20	QPSK	1	49	20.91	21.00	20.85	22	0		
20	QPSK	1	99	20.86	20.90	20.79				
20	QPSK	50	0	20.87	21.07	20.96				
20	QPSK	50	24	20.83	20.98	20.84				
20	QPSK	50	50	20.80	20.87	20.88	22	0		
20	QPSK	100	0	20.84	20.95	20.82				
20	16QAM	1	0	20.90	20.92	20.87				
20	16QAM	1	49	20.74	20.80	20.80	22	0		
20	16QAM	1	99	20.78	20.82	20.73				
20	16QAM	50	0	20.71	20.87	20.79				
20	16QAM	50	24	20.84	20.80	20.85	22	0		
20	16QAM	50	50	20.83	20.80	20.80				
20	16QAM	100	0	20.83	20.80	20.80				
20	64QAM	1	0	20.81	20.92	20.74				
20	64QAM	1	49	20.75	20.86	20.77	22	0		
20	64QAM	1	99	20.85	20.80	20.80				
20	64QAM	50	0	20.81	20.79	20.69				
20	64QAM	50	24	20.59	20.70	20.56	22	0		
20	64QAM	50	50	20.92	20.80	20.80				
20	64QAM	100	0	20.74	20.83	20.82				
20	256QAM	1	0	17.67	17.69	17.61				
20	256QAM	1	49	17.93	17.90	17.95	19	3		
20	256QAM	1	99	17.79	17.80	17.85				
20	256QAM	50	0	17.85	17.75	17.80				
20	256QAM	50	24	17.60	17.58	17.52	19	3		
20	256QAM	50	50	17.47	17.58	17.47				
20	256QAM	100	0	17.73	17.50	17.60				
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.92	21.07	20.92				
15	QPSK	1	39	20.78	20.90	20.79	22	0		
15	QPSK	1	74	20.77	20.70	20.71				
15	QPSK	36	0	20.78	21.01	20.83				
15	QPSK	36	20	20.75	20.70	20.70	22	0		
15	QPSK	36	39	20.87	20.83	20.79				
15	QPSK	75	0	20.74	20.82	20.74				
15	16QAM	1	0	20.81	20.80	20.75				
15	16QAM	1	39	20.73	20.83	20.77	22	0		
15	16QAM	1	74	20.89	20.80	20.80				
15	16QAM	36	0	20.99	20.74	20.84				
15	16QAM	36	20	20.94	20.54	20.51	22	0		
15	16QAM	36	39	20.59	20.80	20.80				
15	16QAM	75	0	20.75	20.88	20.70				
15	64QAM	1	0	20.71	20.80	20.69				
15	64QAM	1	39	20.81	20.80	20.80	22	0		
15	64QAM	1	74	20.54	20.55	20.55				
15	64QAM	36	0	20.86	20.70	20.62				
15	64QAM	36	20	20.53	20.80	20.80	22	0		
15	64QAM	36	39	20.48	20.52	20.38				
15	64QAM	75	0	20.87	20.80	20.88				
15	256QAM	1	0	17.76	17.80	17.81				
15	256QAM	1	39	17.78	17.80	17.83	19	3		
15	256QAM	1	74	17.85	17.85	17.81				
15	256QAM	36	0	17.46	17.70	17.60				
15	256QAM	36	20	17.47	17.50	17.41	19	3		
15	256QAM	36	39	17.37	17.50	17.33				
15	256QAM	75	0	17.44	17.81	17.74				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.92	21.07	20.92				
10	QPSK	1	25	20.83	20.80	20.71	22	0		
10	QPSK	1	49	20.82	20.78	20.72				
10	QPSK	25	0	20.78	20.90	20.80				
10	QPSK	25	12	20.68	20.78	20.79	22	0		
10	QPSK	25	25	20.76	20.81	20.74				
10	16QAM	1	0	20.81	20.83	20.74				
10	16QAM	1	25	20.66	20.75	20.74	22	0		
10	16QAM	1	49	20.73	20.80	20.84				
10	16QAM	25	0	20.58	20.81	20.65				
10	16QAM	25	12	20.54	20.58	20.60	22	0		
10	16QAM	25	25	20.66	20.80	20.48				
10	16QAM	50	0	20.80	20.82	20.68				
10	64QAM	1	0	20.72	20.86	20.71	22	0		
10	64QAM	1	25	20.81	20.72	20.64				
10	64QAM	1	49	20.51	20.55	20.58				
10	64QAM	25	0	20.47	20.71	20.57	22	0		
10	64QAM	25	12	20.48	20.80	20.43				
10	64QAM	25	25	20.47	20.48	20.45				
10	64QAM	50	0	20.87	20.79	20.75				
10	256QAM	1	0	17.86	17.82	17.82				
10	256QAM	1	25	17.88	17.86	17.87	19	3		
10	256QAM	1	49	17.85	17.78	17.79				
10	256QAM	25	0	17.53	17.43	17.50				
10	256QAM	25	12	17.57	17.50	17.45	19	3		
10	256QAM	25	25	17.36	17.45	17.43				
10	256QAM	50	0	17.62	17.81	17.78				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.92	21.07	20.92				
5	QPSK	1	12	20.85	20.92	20.79	22	0		
5	QPSK	1	24	20.80	20.82	20.68				
5	QPSK	12	0	20.75	20.80	20.60				
5	QPSK	12	7	20.76	20.70	20.71	22	0		
5	QPSK	12	13	20.87	20.80	20.79				
5	QPSK	25	0	20.73	20.80	20.67				
5	16QAM	1	0	20.81	20.80	20.76				
5	16QAM	1	12	20.64	20.73	20.75	22	0		
5	16QAM	1	24	20.75	20.72	20.60				
5	16QAM	12	0	20.67	20.72	20.84				
5	16QAM	12	7	20.58	20.57	20.60	22	0		
5	16QAM	12	13	20.60	20.60	20.54				
5	16QAM	25	0	20.76	20.88	20.69				
5	64QAM	1	0	20.70	20.83	20.66	22	0		
5	64QAM	1	12	20.65	20.77	20.64				
5	64QAM	1	24	20.82	20.54	20.61				
5	64QAM	12	0	20.53	20.67	20.60	22	0		
5	64QAM	12	7	20.48	20.50	20.49				
5	64QAM	12	13	20.50	20.53	20.39				
5	64QAM	25	0	20.70	20.77	20.70				
5	256QAM	1	0	17.82	17.80	17.83				
5	256QAM	1	12	17.80	17.80	17.82	19	3		
5	256QAM	1	24	17.70	17.76	17.71				
5	256QAM	12	0	17.55	17.60	17.60				
5	256QAM	12	7	17.54	17.50	17.47	19	3		
5	256QAM	12	13	17.39	17.49	17.44				
5	256QAM	25	0	17.44	17.78	17.75				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.92	21.07	20.92				
3	QPSK	1	8	20.85	20.86	20.74	22	0		
3	QPSK	1	14	20.75	20.85	20.66				
3	QPSK	8	0	20.73	20.80	20.68				
3	QPSK	8	4	20.74	20.80	20.80	22	0		
3	QPSK	8	7	20.69	20.82	20.85				
3	QPSK	15	0	20.74	20.84	20.78				
3	16QAM	1	0	20.87	20.82	20.80				
3	16QAM	1	8	20.83	20.77	20.73	22	0		
3	16QAM	1	14	20.70	20.80	20.67				
3	16QAM	8	0	20.80	20.83	20.74				
3	16QAM	8	4	20.55	20.53	20.58	22	0		
3	16QAM	8	7	20.65	20.61	20.60				
3	64QAM	1	0	20.69	20.82	20.64				
3	64QAM	1	8	20.84	20.72	20.64	22	0		
3	64QAM	1	14	20.51	20.57	20.59				
3	64QAM	8	0	2						



Band 38 DSI5_ Standalone Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
30	QPSK	1	0	22.41	22.53	22.40	23	0		
30	QPSK	1	49	22.32	22.35	22.39				
30	QPSK	1	99	22.26	22.29	22.29				
30	QPSK	50	0	22.29	22.45	22.50				
30	QPSK	50	24	22.24	22.36	22.32	23	0		
30	QPSK	50	49	22.34	22.38	22.38				
30	QPSK	100	0	22.28	22.45	22.33				
30	HQAM	1	0	22.35	22.51	22.39	23	0		
30	HQAM	1	49	22.31	22.35	22.35				
30	HQAM	1	99	22.27	22.30	22.24				
30	HQAM	50	0	21.97	22.14	21.95				
30	HQAM	50	24	21.91	21.95	21.95				
30	HQAM	50	49	21.88	21.92	21.80	23	0		
30	HQAM	100	0	21.95	22.09	21.99				
30	HQAM	100	0	22.29	22.47	22.35				
30	HQAM	1	49	22.28	22.36	22.28	23	0		
30	HQAM	1	99	22.16	22.24	22.22				
30	HQAM	50	0	21.93	22.11	22.05				
30	HQAM	50	24	21.89	22.03	21.90	22.5	0.5		
30	HQAM	50	49	21.80	21.84	21.85				
30	HQAM	100	0	21.91	22.05	21.96				
30	256QAM	1	0	18.83	19.00	18.85	20.5	2.5		
30	256QAM	1	49	18.79	18.90	18.79				
30	256QAM	1	99	18.76	18.77	18.79				
30	256QAM	50	0	18.86	18.98	18.90				
30	256QAM	50	24	18.97	19.06	18.95	20.5	2.5		
30	256QAM	50	49	18.89	18.95	18.84				
30	256QAM	100	0	18.90	18.98	18.90				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.25	22.43	22.41	23	0		
15	QPSK	1	37	22.19	22.23	22.30				
15	QPSK	1	74	22.12	22.20	22.21				
15	QPSK	36	0	22.23	22.37	22.32	23	0		
15	QPSK	36	20	22.14	22.22	22.19				
15	QPSK	75	0	22.18	22.29	22.29				
15	QPSK	75	0	22.18	22.29	22.23	23	0		
15	HQAM	1	0	22.26	22.39	22.27	23	0		
15	HQAM	1	37	22.21	22.24	22.24				
15	HQAM	1	74	22.15	22.25	22.15				
15	HQAM	36	0	21.94	22.08	21.82	23	0		
15	HQAM	36	20	21.82	21.84	21.80				
15	HQAM	36	39	21.78	21.84	21.88				
15	HQAM	75	0	21.81	22.06	21.94				
15	HQAM	1	0	22.15	22.37	22.35				
15	HQAM	1	37	22.17	22.28	22.23	23	0		
15	HQAM	1	74	22.08	22.11	22.15				
15	HQAM	36	0	21.85	21.96	21.85	22.5	0.5		
15	HQAM	36	20	21.83	21.92	21.79				
15	HQAM	36	39	21.85	21.91	21.86				
15	HQAM	75	0	21.82	21.91	21.85				
15	256QAM	1	0	18.77	18.90	18.81	20.5	2.5		
15	256QAM	1	37	18.70	18.81	18.73				
15	256QAM	1	74	18.67	18.74	18.74				
15	256QAM	36	0	18.86	19.11	18.92	20.5	2.5		
15	256QAM	36	20	18.93	19.04	18.93				
15	256QAM	36	39	18.85	18.88	18.84				
15	256QAM	75	0	18.89	19.00	18.89				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.24	22.41	22.41	23	0		
10	QPSK	1	25	22.23	22.30	22.27				
10	QPSK	1	49	22.19	22.21	22.25				
10	QPSK	12	0	22.23	22.36	22.36	23	0		
10	QPSK	25	12	22.21	22.29	22.32				
10	QPSK	25	25	22.14	22.20	22.22				
10	QPSK	50	0	22.14	22.27	22.26				
10	HQAM	1	0	22.25	22.38	22.31	23	0		
10	HQAM	1	25	22.27	22.33	22.18				
10	HQAM	1	49	22.15	22.16	22.12				
10	HQAM	25	0	21.85	22.03	21.80	23	0		
10	HQAM	25	12	21.87	21.81	21.86				
10	HQAM	25	25	21.78	21.85	21.77				
10	HQAM	50	0	21.87	22.00	21.80				
10	HQAM	50	12	21.86	21.86	21.86	23	0		
10	HQAM	50	25	21.78	21.85	21.77				
10	HQAM	100	0	22.21	22.31	22.23	23	0		
10	HQAM	1	49	22.03	22.10	22.12				
10	HQAM	25	0	21.78	22.07	21.87				
10	HQAM	25	12	21.78	21.97	21.78	22.5	0.5		
10	HQAM	25	25	21.77	21.87	21.71				
10	HQAM	50	0	21.77	21.95	21.81				
10	256QAM	1	0	18.76	18.92	18.70	20.5	2.5		
10	256QAM	1	25	18.64	18.91	18.72				
10	256QAM	1	49	18.62	18.73	18.68				
10	256QAM	25	0	18.83	19.11	18.89	20.5	2.5		
10	256QAM	25	12	18.90	19.03	18.90				
10	256QAM	25	25	18.77	18.84	18.87				
10	256QAM	50	0	18.91	19.04	18.85				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.26	22.40	22.42	23	0		
5	QPSK	1	12	22.27	22.21	22.24				
5	QPSK	1	24	22.17	22.17	22.21				
5	QPSK	12	0	22.16	22.26	22.24	23	0		
5	QPSK	12	7	22.12	22.26	22.20				
5	QPSK	12	13	22.21	22.21	22.17				
5	QPSK	25	0	22.21	22.31	22.29				
5	HQAM	1	0	22.31	22.41	22.34	23	0		
5	HQAM	1	12	22.21	22.24	22.13				
5	HQAM	1	24	22.13	22.17	22.18				
5	HQAM	12	0	21.89	22.08	21.90	23	0		
5	HQAM	12	7	21.81	21.89	21.88				
5	HQAM	12	13	21.80	21.88	21.85				
5	HQAM	25	0	21.85	22.04	21.95				
5	HQAM	1	0	22.20	22.35	22.24	23	0		
5	HQAM	1	12	22.14	22.25	22.20				
5	HQAM	1	24	22.04	22.14	22.09				
5	HQAM	12	0	21.86	22.08	21.86	22.5	0.5		
5	HQAM	12	7	21.78	21.88	21.85				
5	HQAM	12	13	21.78	21.79	21.73				
5	HQAM	25	0	21.76	21.96	21.87				
5	256QAM	1	0	18.73	18.89	18.71	20.5	2.5		
5	256QAM	1	12	18.72	18.87	18.66				
5	256QAM	1	24	18.64	18.73	18.70				
5	256QAM	12	0	18.82	19.01	18.84	20.5	2.5		
5	256QAM	12	13	18.85	18.88	18.90				
5	256QAM	25	0	18.95	19.08	18.91				

Band 41 FCC&IC DSI5_ Standalone Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.47	22.63	22.63	23.5	0		
20	QPSK	1	49	22.48	22.57	22.57	23.5	0		
20	QPSK	1	99	22.46	22.54	22.55	23.4			
20	QPSK	50	0	22.54	22.41	22.09	23.0			
20	QPSK	50	24	22.40	22.44	22.58	23.4	0.5		
20	QPSK	50	49	22.42	22.32	22.41	23.0			
20	QPSK	100	0	22.47	22.50	22.54	22.48	22.53		
20	HQAM	1	0	22.71	22.84	22.81	22.88	22.85	23	0.5
20	HQAM	1	49	22.69	22.53	22.63	22.61	22.60		
20	HQAM	1	99	22.54	22.47	22.64	22.54	22.58		
20	HQAM	50	0	21.87	21.89	21.88	21.83	21.77		
20	HQAM	50	24	21.84	21.89	21.83	21.82	21.82		
20	HQAM	50	49	21.46	21.55	21.65				



Band 41 FCC&C PC2 DS15_ Standalone Ant 1											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Mid Ch / Freq	Power High Mid Ch / Freq	Power Low High Ch / Freq	Power High High Ch / Freq	Tune-up Int (dBm)	MPE (dB)
Channel											
Frequency (MHz)				39750	40185	40620	41055	41500	41940		
20	QPSK	1	0	23.91	24.01	23.90	23.78	23.90	23.99	25.1	0
20	QPSK	1	49	23.89	23.83	24.19	23.91	24.09	23.84	25.1	0
20	QPSK	1	99	23.85	23.80	24.00	23.79	23.86	23.86	25.1	0
20	QPSK	50	0	23.85	23.79	24.00	23.72	23.92	23.92	25.1	0
20	QPSK	50	24	23.81	23.80	24.01	23.86	23.78	23.78	25.1	0
20	QPSK	100	0	23.79	23.80	23.80	23.78	23.78	23.78	25.1	0
20	QPSK	100	0	23.89	23.87	23.88	23.84	23.90	23.90	25.1	0
20	HQAM	1	0	23.77	23.72	23.80	23.79	23.74	23.74	25.1	0
20	HQAM	1	49	23.84	23.82	23.81	23.78	23.73	23.73	25.1	0
20	HQAM	1	99	23.56	23.59	23.70	23.53	23.89	23.89	25.1	0
20	HQAM	50	0	23.31	23.52	23.41	23.38	23.34	23.34	25.1	0
20	HQAM	50	24	23.11	23.39	23.40	23.70	23.25	23.25	25.1	0
20	HQAM	100	0	23.22	23.20	23.34	23.18	23.36	23.36	25.1	0
20	HQAM	100	0	23.50	23.55	23.51	23.41	23.50	23.50	25.1	0
20	HQAM	1	49	23.52	23.45	23.44	23.53	23.45	23.45	25.1	0
20	HQAM	1	99	23.38	23.35	23.60	23.38	23.65	23.65	25.1	0
20	HQAM	50	0	23.01	23.07	23.05	23.05	23.01	23.01	25.1	0
20	HQAM	50	24	23.03	23.02	23.03	23.16	23.10	23.10	25.1	0
20	HQAM	100	0	23.06	23.12	23.10	23.09	23.05	23.05	25.1	0
20	HQAM	100	0	23.11	23.08	23.11	23.03	23.03	23.03	25.1	0
20	256QAM	1	0	21.51	21.49	21.68	21.44	21.58	21.58	23	2.1
20	256QAM	1	49	21.43	21.41	21.68	21.42	21.52	21.52	23	2.1
20	256QAM	1	99	21.30	21.36	21.56	21.41	21.51	21.51	23	2.1
20	256QAM	50	0	21.37	21.38	21.56	21.34	21.46	21.46	23	2.1
20	256QAM	50	24	21.27	21.23	21.48	21.24	21.38	21.38	23	2.1
20	256QAM	100	0	21.23	21.28	21.41	21.20	21.36	21.36	23	2.1
20	256QAM	100	0	21.50	21.50	21.65	21.45	21.54	21.54	23	2.1
Channel											
Frequency (MHz)				39725	40172	40620	41068	41515	41925		
15	QPSK	1	0	23.09	23.07	23.00	23.14	23.17	23.17	25	0
15	QPSK	1	37	23.83	23.93	24.00	23.85	24.02	24.02	25	0
15	QPSK	1	74	23.77	23.70	23.78	23.69	23.77	23.77	25	0
15	QPSK	38	0	23.82	23.72	23.82	23.84	23.87	23.87	25	0
15	QPSK	38	20	23.80	23.87	23.84	23.81	23.75	23.75	25	0
15	QPSK	75	0	23.82	23.85	23.78	23.80	23.85	23.85	25	0
15	HQAM	1	0	23.52	23.54	23.72	23.70	23.72	23.72	25	0
15	HQAM	1	37	23.59	23.50	23.60	23.55	23.68	23.68	25	0
15	HQAM	1	74	23.51	23.58	23.70	23.64	23.74	23.74	25	0
15	HQAM	38	0	23.45	23.49	23.27	23.20	23.29	23.29	25	0
15	HQAM	38	20	23.24	23.17	23.22	23.28	23.14	23.14	25	0
15	HQAM	75	0	23.33	23.33	23.32	23.31	23.10	23.10	25	0
15	HQAM	75	0	23.29	23.31	23.22	23.25	23.22	23.22	25	0
15	HQAM	1	0	23.30	23.52	23.60	23.38	23.57	23.57	25	0
15	HQAM	1	37	23.28	23.38	23.58	23.38	23.54	23.54	25	0
15	HQAM	1	74	23.31	23.48	23.50	23.30	23.53	23.53	25	0
15	HQAM	38	0	23.16	23.12	23.25	23.28	23.13	23.13	25	0
15	HQAM	38	20	23.13	23.18	23.20	23.19	23.14	23.14	25	0
15	HQAM	75	0	23.09	23.15	23.12	23.15	23.03	23.03	25	0
15	256QAM	1	0	21.44	21.44	21.54	21.33	21.45	21.45	23	2.1
15	256QAM	1	37	21.39	21.33	21.50	21.28	21.45	21.45	23	2.1
15	256QAM	1	74	21.25	21.20	21.52	21.31	21.41	21.41	23	2.1
15	256QAM	38	0	21.28	21.27	21.39	21.26	21.30	21.30	23	2.1
15	256QAM	38	20	21.12	21.14	21.25	21.18	21.27	21.27	23	2.1
15	256QAM	75	0	21.14	21.22	21.37	21.12	21.30	21.30	23	2.1
15	256QAM	75	0	21.08	21.10	21.21	21.00	21.10	21.10	23	2.1
Channel											
Frequency (MHz)				40185	40185	40620	41068	41515	41925		
10	QPSK	1	0	23.87	23.87	23.80	23.74	23.80	23.80	25	0
10	QPSK	1	25	23.69	23.84	23.88	23.71	24.00	24.00	25	0
10	QPSK	1	49	23.70	23.65	23.81	23.68	23.80	23.80	25	0
10	QPSK	25	0	23.82	23.88	23.86	23.80	23.80	23.80	25	0
10	QPSK	25	12	23.70	23.81	23.83	23.83	23.88	23.88	25	0
10	QPSK	25	25	23.44	23.72	23.87	23.66	23.74	23.74	25	0
10	HQAM	1	0	23.69	23.82	23.81	23.82	23.85	23.85	25	0
10	HQAM	1	0	23.80	23.78	23.89	23.84	23.81	23.81	25	0
10	HQAM	1	25	23.45	23.64	23.81	23.60	23.70	23.70	25	0
10	HQAM	1	49	23.71	23.82	23.72	23.78	23.80	23.80	25	0
10	HQAM	25	0	23.20	23.22	23.40	23.19	23.40	23.40	25	0
10	HQAM	25	12	23.13	23.01	23.27	23.07	23.14	23.14	25	0
10	HQAM	25	25	23.11	23.28	23.33	23.07	23.37	23.37	25	0
10	HQAM	50	0	23.04	23.10	23.30	23.11	23.15	23.15	25	0
10	HQAM	50	0	23.36	23.07	23.60	23.46	23.60	23.60	25	0
10	HQAM	1	49	23.28	23.47	23.54	23.45	23.46	23.46	25	0
10	HQAM	1	25	23.20	23.30	23.48	23.38	23.52	23.52	25	0
10	HQAM	25	0	22.73	22.78	23.01	22.81	22.86	22.86	25	0
10	HQAM	25	12	22.79	22.77	22.91	22.87	22.82	22.82	25	0
10	HQAM	25	25	22.75	22.62	22.85	22.69	22.88	22.88	25	0
10	HQAM	50	0	22.64	22.66	22.85	22.75	22.75	22.75	25	0
10	256QAM	1	0	21.45	21.46	21.56	21.35	21.48	21.48	23	2.1
10	256QAM	1	25	21.29	21.34	21.51	21.37	21.46	21.46	23	2.1
10	256QAM	1	49	21.28	21.25	21.45	21.33	21.42	21.42	23	2.1
10	256QAM	25	0	21.33	21.29	21.44	21.25	21.41	21.41	23	2.1
10	256QAM	25	12	21.31	21.31	21.50	21.16	21.30	21.30	23	2.1
10	256QAM	25	25	21.11	21.14	21.27	21.11	21.29	21.29	23	2.1
10	256QAM	50	0	21.04	21.04	21.24	21.09	21.18	21.18	23	2.1
Channel											
Frequency (MHz)				2488.5	2548.5	2608.5	2668.5	2728.5	2788.5		
5	QPSK	1	0	23.83	23.87	24.00	23.97	23.94	23.94	25	0
5	QPSK	1	12	23.82	23.88	23.89	23.81	24.00	24.00	25	0
5	QPSK	1	24	23.59	23.72	23.78	23.75	23.87	23.87	25	0
5	QPSK	12	0	23.82	23.88	23.88	23.74	23.70	23.70	25	0
5	QPSK	12	7	23.81	23.78	23.81	23.62	23.67	23.67	25	0
5	QPSK	12	13	23.85	23.85	23.85	23.49	23.75	23.75	25	0
5	QPSK	25	0	23.53	23.51	23.66	23.57	23.67	23.67	25	0
5	HQAM	1	0	23.63	23.64	23.71	23.71	23.49	23.49	25	0
5	HQAM	1	12	23.64	23.55	23.82	23.62	23.66	23.66	25	0
5	HQAM	1	24	23.56	23.62	23.68	23.50	23.76	23.76	25	0
5	HQAM	12	0	23.17	23.26	23.44	23.07	23.34	23.34	25	0
5	HQAM	12	7	23.07	23.16	23.37	23.03	23.35	23.35	25	0
5	HQAM	12	13	23.01	23.09	23.30	23.03	23.35	23.35	25	0
5	HQAM	25	0	22.86	23.06	23.28	22.84	23.20	23.20	25	0
5	HQAM	25	0	23.34	23.47	23.47	23.47	23.44	23.44	25	0
5	HQAM	12	7	23.27	23.34	23.61	23.17	23			



OSM 1900 Avg2									
Default									
	Base Average Power (dBm)			TimeUp	Frame-Average Power (dBm)			TimeUp	
Tx Channel	812	861	810	Limit	812	861	810	Limit	
Frequency (MHz)	1812.2	1862	1812.2	(dBm)	1812.2	1862	1812.2	(dBm)	
OSM 1 Tx Avg	28.25	28.23	28.19	29.00	19.25	19.33	19.19	20.00	
OPNS 1 Tx Avg	28.23	28.20	28.19	29.00	19.23	19.33	19.13	20.00	
OPNS 2 Tx Avg	28.46	28.50	28.40	29.00	19.46	19.53	19.40	20.00	
OPNS 3 Tx Avg	28.98	24.13	24.00	25.00	19.72	19.87	19.74	20.74	
OPNS 4 Tx Avg	21.90	22.00	21.90	23.00	13.90	13.99	13.90	20.00	
EDGE 1 Tx Avg	23.89	23.64	23.81	24.00	14.59	14.64	14.81	15.00	
EDGE 2 Tx Avg	21.98	22.83	21.93	23.00	13.98	16.83	13.98	19.00	
EDGE 3 Tx Avg	20.78	20.55	20.70	21.00	15.52	16.59	16.44	17.24	
EDGE 4 Tx Avg	18.71	18.72	18.68	19.00	15.71	15.74	15.68	18.00	
Default WCDMA Avg									
	WCDMA II			TimeUp	WCDMA IV			TimeUp	
Tx Channel	5682	5680	5638	Limit	5312	5313	5313	Limit	
Frequency (MHz)	5682	5680	5638	(dBm)	5312	5313	5313	(dBm)	
SOPF Rel (9)	21.56	21.52	21.46	22.00	13.72	13.74	13.72	22.00	
SOPF Rel (9)	RMV 12 2100s	21.54	21.57	22.40	22.00	21.47	21.53	21.44	23.00
SOPF Rate	HEIPA Subarea 1	20.93	20.74	20.40	21.00	20.92	20.86	20.92	21.00
SOPF Rate	HEIPA Subarea 2	20.56	20.69	20.53	21.00	20.47	20.61	20.43	21.00
SOPF Rate	HEIPA Subarea 3	20.71	20.77	20.54	21.00	19.81	20.04	19.65	21.00
SOPF Rate	HEIPA Subarea 4	20.02	20.10	20.02	21.00	19.98	20.00	20.05	21.00
SOPF Rate	DC-HEIPA Subarea 1	20.55	20.73	20.51	21.00	20.48	20.58	20.59	21.00
SOPF Rate	DC-HEIPA Subarea 2	20.34	20.41	20.40	21.00	20.29	20.37	20.31	21.00
SOPF Rate	DC-HEIPA Subarea 3	19.88	19.98	19.84	21.00	19.80	19.87	19.83	21.00
SOPF Rate	DC-HEIPA Subarea 4	19.93	19.91	19.90	21.00	19.76	19.80	19.84	21.00
SOPF Rate	HEIPA Subarea 1	20.59	20.72	20.71	21.00	20.42	20.65	20.60	21.00
SOPF Rate	HEIPA Subarea 2	19.59	19.60	19.45	19.00	19.46	19.49	19.50	19.00
SOPF Rate	HEIPA Subarea 3	19.08	19.00	19.00	20.00	19.49	19.51	19.48	20.00
SOPF Rate	HEIPA Subarea 4	18.43	18.57	18.41	19.00	18.38	18.44	18.33	19.00
SOPF Rate	HEIPA Subarea 5	20.00	20.02	20.06	21.00	20.49	20.53	20.49	21.00



Band 2 Default Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power Hd./Ch./F.Freq.	Power Hd./F.Freq.	Turn-up Time (min)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.12	21.12	21.07				
20	QPSK	1	49	21.12	21.12	21.02	22	0		
20	QPSK	1	99	20.98	21.04	20.92				
20	QPSK	50	0	21.06	21.10	21.10				
20	QPSK	50	24	21.06	21.10	21.02	22	0		
20	QPSK	50	20	20.98	21.01	20.98				
20	QPSK	100	0	21.01	21.12	21.03				
20	QPSK	100	24	21.01	21.12	21.09	22	0		
20	HQAM	1	49	20.94	21.03	20.99	22	0		
20	HQAM	1	99	20.96	20.99	20.83				
20	HQAM	50	0	20.95	21.07	20.97	22	0		
20	HQAM	50	24	20.96	20.95	20.94				
20	HQAM	50	20	20.76	20.88	20.81				
20	HQAM	100	0	20.90	21.09	20.99	22	0		
20	HQAM	100	24	20.97	21.18	21.10				
20	HQAM	100	20	21.01	21.07	21.02				
20	HQAM	150	0	20.83	21.06	20.98	21	1		
20	HQAM	150	24	20.79	20.99	20.93				
20	HQAM	150	20	20.90	20.94	20.88				
20	HQAM	200	0	20.87	21.18	21.10				
20	HQAM	200	24	21.01	21.07	21.02	22	0		
20	HQAM	200	20	20.93	20.98	20.93				
20	HQAM	250	0	20.76	20.98	20.93				
20	HQAM	250	24	20.83	20.98	20.93	21	1		
20	HQAM	250	20	20.90	20.94	20.88				
20	HQAM	300	0	20.76	20.98	20.93				
20	HQAM	300	24	20.83	20.98	20.93	21	1		
20	HQAM	300	20	20.90	20.94	20.88				
20	HQAM	350	0	20.76	20.98	20.93				
20	HQAM	350	24	20.83	20.98	20.93	21	1		
20	HQAM	350	20	20.90	20.94	20.88				
20	HQAM	400	0	20.76	20.98	20.93				
20	HQAM	400	24	20.83	20.98	20.93	21	1		
20	HQAM	400	20	20.90	20.94	20.88				
20	HQAM	450	0	20.76	20.98	20.93				
20	HQAM	450	24	20.83	20.98	20.93	21	1		
20	HQAM	450	20	20.90	20.94	20.88				
20	HQAM	500	0	20.76	20.98	20.93				
20	HQAM	500	24	20.83	20.98	20.93	21	1		
20	HQAM	500	20	20.90	20.94	20.88				
20	HQAM	550	0	20.76	20.98	20.93				
20	HQAM	550	24	20.83	20.98	20.93	21	1		
20	HQAM	550	20	20.90	20.94	20.88				
20	HQAM	600	0	20.76	20.98	20.93				
20	HQAM	600	24	20.83	20.98	20.93	21	1		
20	HQAM	600	20	20.90	20.94	20.88				
20	HQAM	650	0	20.76	20.98	20.93				
20	HQAM	650	24	20.83	20.98	20.93	21	1		
20	HQAM	650	20	20.90	20.94	20.88				
20	HQAM	700	0	20.76	20.98	20.93				
20	HQAM	700	24	20.83	20.98	20.93	21	1		
20	HQAM	700	20	20.90	20.94	20.88				
20	HQAM	750	0	20.76	20.98	20.93				
20	HQAM	750	24	20.83	20.98	20.93	21	1		
20	HQAM	750	20	20.90	20.94	20.88				
20	HQAM	800	0	20.76	20.98	20.93				
20	HQAM	800	24	20.83	20.98	20.93	21	1		
20	HQAM	800	20	20.90	20.94	20.88				
20	HQAM	850	0	20.76	20.98	20.93				
20	HQAM	850	24	20.83	20.98	20.93	21	1		
20	HQAM	850	20	20.90	20.94	20.88				
20	HQAM	900	0	20.76	20.98	20.93				
20	HQAM	900	24	20.83	20.98	20.93	21	1		
20	HQAM	900	20	20.90	20.94	20.88				
20	HQAM	950	0	20.76	20.98	20.93				
20	HQAM	950	24	20.83	20.98	20.93	21	1		
20	HQAM	950	20	20.90	20.94	20.88				
20	HQAM	1000	0	20.76	20.98	20.93				
20	HQAM	1000	24	20.83	20.98	20.93	21	1		
20	HQAM	1000	20	20.90	20.94	20.88				
20	HQAM	1050	0	20.76	20.98	20.93				
20	HQAM	1050	24	20.83	20.98	20.93	21	1		
20	HQAM	1050	20	20.90	20.94	20.88				
20	HQAM	1100	0	20.76	20.98	20.93				
20	HQAM	1100	24	20.83	20.98	20.93	21	1		
20	HQAM	1100	20	20.90	20.94	20.88				
20	HQAM	1150	0	20.76	20.98	20.93				
20	HQAM	1150	24	20.83	20.98	20.93	21	1		
20	HQAM	1150	20	20.90	20.94	20.88				
20	HQAM	1200	0	20.76	20.98	20.93				
20	HQAM	1200	24	20.83	20.98	20.93	21	1		
20	HQAM	1200	20	20.90	20.94	20.88				
20	HQAM	1250	0	20.76	20.98	20.93				
20	HQAM	1250	24	20.83	20.98	20.93	21	1		
20	HQAM	1250	20	20.90	20.94	20.88				
20	HQAM	1300	0	20.76	20.98	20.93				
20	HQAM	1300	24	20.83	20.98	20.93	21	1		
20	HQAM	1300	20	20.90	20.94	20.88				
20	HQAM	1350	0	20.76	20.98	20.93				
20	HQAM	1350	24	20.83	20.98	20.93	21	1		
20	HQAM	1350	20	20.90	20.94	20.88				
20	HQAM	1400	0	20.76	20.98	20.93				
20	HQAM	1400	24	20.83	20.98	20.93	21	1		
20	HQAM	1400	20	20.90	20.94	20.88				
20	HQAM	1450	0	20.76	20.98	20.93				
20	HQAM	1450	24	20.83	20.98	20.93	21	1		
20	HQAM	1450	20	20.90	20.94	20.88				
20	HQAM	1500	0	20.76	20.98	20.93				
20	HQAM	1500	24	20.83	20.98	20.93	21	1		
20	HQAM	1500	20	20.90	20.94	20.88				
20	HQAM	1550	0	20.76	20.98	20.93				
20	HQAM	1550	24	20.83	20.98	20.93	21	1		
20	HQAM	1550	20	20.90	20.94	20.88				
20	HQAM	1600	0	20.76	20.98	20.93				
20	HQAM	1600	24	20.83	20.98	20.93	21	1		
20	HQAM	1600	20	20.90	20.94	20.88				
20	HQAM	1650	0	20.76	20.98	20.93				
20	HQAM	1650	24	20.83	20.98	20.93	21	1		
20	HQAM	1650	20	20.90	20.94	20.88				
20	HQAM	1700	0	20.76	20.98	20.93				
20	HQAM	1700	24	20.83	20.98	20.93	21	1		
20	HQAM	1700	20	20.90	20.94	20.88				
20	HQAM	1750	0	20.76	20.98	20.93				
20	HQAM	1750	24	20.83	20.98	20.93	21	1		
20	HQAM	1750	20	20.90	20.94	20.88				
20	HQAM	1800	0	20.76	20.98	20.93				
20	HQAM	1800	24	20.83	20.98	20.93	21	1		
20	HQAM	1800	20	20.90	20.94	20.88				
20	HQAM	1850	0	20.76	20.98	20.93				
20	HQAM	1850	24	20.83	20.98	20.93	21	1		
20	HQAM	1850	20	20.90	20.94	20.88				
20	HQAM	1900	0	20.76	20.98	20.93				
20	HQAM	1900	24	20.83	20.98	20.93	21	1		
20	HQAM	1900	20	20.90	20.94	20.88				
20	HQAM	1950	0	20.76	20.98	20.93				
20	HQAM	1950	24	20.83	20.98	20.93	21	1		
20	HQAM	1950	20	20.90	20.94	20.88				
20	HQAM	2000	0	20.76	20.98	20.93				



Band 12 Default Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Max Ch./Freq.	Tune-up limit (dBm)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.51	22.50	22.50				
10	QPSK	1	25	22.51	22.52	22.51	24	0		
10	QPSK	1	49	22.46	22.48	22.48				
10	QPSK	25	0	22.40	22.40	22.40				
10	QPSK	25	12	22.40	22.42	22.42	24	0		
10	QPSK	25	25	22.29	22.32	22.34				
10	QPSK	50	0	22.34	22.41	22.37				
10	HQAM	1	0	22.41	22.53	22.33				
10	HQAM	1	25	22.39	22.52	22.38	24	0		
10	HQAM	1	49	22.18	22.40	22.39				
10	HQAM	25	0	22.51	22.52	22.54				
10	HQAM	25	12	22.18	22.41	22.38	24	0		
10	HQAM	25	25	22.27	22.39	22.40				
10	HQAM	50	0	22.40	22.51	22.38				
10	HQAM	1	0	22.40	22.44	22.34	24	0		
10	HQAM	1	25	22.39	22.41	22.42				
10	HQAM	1	49	22.14	22.41	22.39				
10	HQAM	25	0	21.24	21.36	21.17				
10	HQAM	25	12	21.13	21.21	21.08	22.5	1.5		
10	HQAM	25	25	21.00	21.09	21.04				
10	HQAM	50	0	21.25	21.30	21.19				
10	25SSBAM	1	25	19.35	19.35	19.51	21	3		
10	25SSBAM	1	49	19.34	19.36	19.43				
10	25SSBAM	25	0	19.26	19.26	19.48				
10	25SSBAM	25	12	19.34	19.28	19.32	21	3		
10	25SSBAM	25	25	19.12	19.28	19.19				
10	25SSBAM	50	0	19.26	19.26	19.27				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.43	22.48	22.39				
5	QPSK	1	24	22.33	22.33	22.30	24	0		
5	QPSK	1	24	22.40	22.44	22.44				
5	QPSK	12	0	22.29	22.30	22.37				
5	QPSK	12	7	22.25	22.31	22.15	24	0		
5	QPSK	12	13	22.24	22.28	22.17				
5	QPSK	25	0	22.42	22.47	22.42				
5	HQAM	1	0	22.35	22.48	22.38				
5	HQAM	1	12	22.25	22.45	22.27	24	0		
5	HQAM	1	24	22.10	22.39	22.29				
5	HQAM	12	0	22.47	22.43	22.51				
5	HQAM	12	7	22.18	22.28	22.25	24	0		
5	HQAM	12	13	22.15	22.29	22.24				
5	HQAM	25	0	22.37	22.43	22.53				
5	HQAM	25	0	22.37	22.39	22.29	24	0		
5	HQAM	25	12	22.30	22.46	22.38				
5	HQAM	25	25	22.05	22.32	22.21				
5	HQAM	12	0	21.17	21.31	21.05	22.5	1.5		
5	HQAM	12	7	21.00	21.16	20.97				
5	HQAM	12	13	21.02	20.92	20.89				
5	HQAM	25	0	21.13	21.18	21.15				
5	25SSBAM	1	12	19.20	19.48	19.48	21	3		
5	25SSBAM	1	24	19.25	19.28	19.33				
5	25SSBAM	12	0	19.10	19.31	19.25				
5	25SSBAM	12	7	19.20	19.15	19.26	21	3		
5	25SSBAM	12	13	19.02	19.20	19.12				
5	25SSBAM	25	0	19.20	19.20	19.13				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.41	22.54	22.39				
3	QPSK	1	8	22.33	22.37	22.26	24	0		
3	QPSK	1	14	22.11	22.43	22.08				
3	QPSK	3	0	22.34	22.39	22.29				
3	QPSK	8	4	22.19	22.34	22.21	24	0		
3	QPSK	8	7	22.21	22.18	22.11				
3	QPSK	15	0	22.35	22.34	22.32				
3	HQAM	1	0	22.28	22.30	22.46				
3	HQAM	1	8	22.31	22.38	22.32	24	0		
3	HQAM	1	14	22.06	22.36	22.28				
3	HQAM	3	0	22.37	22.41	22.40				
3	HQAM	8	4	22.18	22.33	22.29	24	0		
3	HQAM	8	7	22.13	22.29	22.18				
3	HQAM	15	0	22.36	22.39	22.25				
3	HQAM	1	0	22.27	22.31	22.21	24	0		
3	HQAM	1	8	22.34	22.38	22.28				
3	HQAM	1	14	22.06	22.28	22.20				
3	HQAM	8	0	21.15	21.27	21.02	22.5	1.5		
3	HQAM	8	4	21.04	21.12	20.95				
3	HQAM	8	7	20.98	21.00	20.99				
3	HQAM	15	0	21.19	21.24	21.12				
3	25SSBAM	1	0	19.22	19.45	19.41				
3	25SSBAM	1	8	19.27	19.51	19.37	21	3		
3	25SSBAM	1	14	19.24	19.31	19.35				
3	25SSBAM	8	0	19.10	19.31	19.25				
3	25SSBAM	8	4	19.24	19.15	19.17	21	3		
3	25SSBAM	8	7	19.00	19.23	19.09				
3	25SSBAM	15	0	19.20	19.20	19.13				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.41	22.54	22.39				
1.4	QPSK	1	3	22.30	22.28	22.27	24	0		
1.4	QPSK	1	5	22.20	22.42	22.04				
1.4	QPSK	3	0	22.34	22.30	22.28				
1.4	QPSK	3	1	22.30	22.39	22.23				
1.4	QPSK	3	3	22.17	22.30	22.20	24	0		
1.4	QPSK	8	0	22.33	22.34	22.32				
1.4	HQAM	1	0	22.32	22.45	22.40				
1.4	HQAM	1	3	22.28	22.47	22.25	24	0		
1.4	HQAM	1	5	22.04	22.37	22.33				
1.4	HQAM	3	0	22.47	22.47	22.40				
1.4	HQAM	3	1	22.25	22.31	22.25				
1.4	HQAM	8	0	22.17	22.32	22.25				
1.4	HQAM	8	0	22.26	22.43	22.35	24	0		
1.4	HQAM	1	0	22.36	22.37	22.29				
1.4	HQAM	1	3	22.25	22.29	22.28				
1.4	HQAM	3	0	22.38	22.38	22.40	24	0		
1.4	HQAM	3	1	22.18	22.32	22.22				
1.4	HQAM	3	3	22.15	22.29	22.21				
1.4	HQAM	8	0	21.10	21.29	21.11	22.5	1.5		
1.4	25SSBAM	1	0	19.28	19.57	19.55				
1.4	25SSBAM	1	3	19.22	19.55	19.47	21	3		
1.4	25SSBAM	1	5	19.26	19.22	19.35				
1.4	25SSBAM	3	0	19.10	19.34	19.30				
1.4	25SSBAM	3	1	19.21	19.18	19.19	21	3		
1.4	25SSBAM	3	3	19.08	19.20	19.14				
1.4	25SSBAM	8	0	19.17	19.21	19.09	21	3		

Band 13 Default Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Max Ch./Freq.	Tune-up limit (dBm)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.53			24	0		
10	QPSK	1	25	22.40						
10	QPSK	1	49	22.43						
10	QPSK	25	0	22.45			24	0		
10	QPSK	25	12	22.35						
10	QPSK	25	25	22.26						
10	QPSK	50	0	22.32						
10	HQAM	1	0	22.48						
10	HQAM	1	25	22.47			24	0		
10	HQAM	1	49	22.40						
10	HQAM	25	0	22.54						
10	HQAM	25	12	22.35						
10	HQAM	25	25	22.26						
10	HQAM	50	0	22.45						
10	HQAM	1	0	22.38			24	0		
10	HQAM	1	25	22.42						
10	HQAM	1	49	22.41						
10	HQAM	25	0	21.30						
10	HQAM	25	12	21.20			22.5	1.5		
10	HQAM	25	25	21.04						
10	HQAM	50	0	21.28	</					



Band 25 Default Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power Hsp./Ch./Freq.	Power Hsp./F./Freq.	Turn-up time (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.18	23.22	23.31				
20	QPSK	1	49	23.00	23.13	23.03	24	0		
20	QPSK	50	0	23.18	23.22	23.19				
20	QPSK	50	24	23.13	23.14	23.14				
20	QPSK	50	49	23.01	23.08	23.05	24	0		
20	QPSK	100	0	23.11	23.22	23.15				
20	QPSK	100	24	23.13	23.13	23.14				
20	16QAM	1	49	23.05	23.14	23.07	24	0		
20	16QAM	1	99	23.09	23.09	23.07				
20	16QAM	50	0	23.05	23.09	23.04				
20	16QAM	50	24	23.04	22.89	22.90	24	0		
20	16QAM	50	49	22.77	22.84	22.87				
20	16QAM	50	99	22.99	23.15	23.01				
20	16QAM	100	0	22.96	23.15	22.96				
20	16QAM	100	24	22.98	22.92	22.90	24	0		
20	16QAM	100	49	22.92	22.94	22.90				
20	16QAM	100	99	22.90	22.94	22.90				
20	16QAM	200	0	22.96	22.96	22.97	23	1		
20	16QAM	200	24	22.92	22.94	22.95				
20	16QAM	200	49	22.90	22.94	22.90				
20	16QAM	200	99	22.88	22.94	22.91				
20	16QAM	400	0	22.96	22.96	22.97	21	3		
20	16QAM	400	24	22.92	22.94	22.95				
20	16QAM	400	49	22.90	22.94	22.90				
20	16QAM	400	99	22.88	22.94	22.91				
20	16QAM	800	0	22.96	22.96	22.97	21	3		
20	16QAM	800	24	22.92	22.94	22.95				
20	16QAM	800	49	22.90	22.94	22.90				
20	16QAM	800	99	22.88	22.94	22.91				
20	16QAM	1600	0	22.96	22.96	22.97	21	3		
20	16QAM	1600	24	22.92	22.94	22.95				
20	16QAM	1600	49	22.90	22.94	22.90				
20	16QAM	1600	99	22.88	22.94	22.91				
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.07	23.26	23.17				
10	QPSK	1	24	23.01	23.09	23.04	24	0		
10	QPSK	1	74	23.01	23.09	23.00				
10	QPSK	36	0	23.02	23.16	23.14				
10	QPSK	36	24	23.07	23.07	23.07				
10	QPSK	36	74	23.06	23.01	23.01	24	0		
10	QPSK	75	0	23.06	23.14	23.06				
10	16QAM	1	49	22.98	23.13	23.03				
10	16QAM	1	99	22.96	23.14	23.04	24	0		
10	16QAM	1	74	22.94	22.94	22.94				
10	16QAM	36	24	22.79	22.79	22.83	24	0		
10	16QAM	36	74	22.95	22.95	22.95				
10	16QAM	36	99	22.90	22.93	22.90				
10	16QAM	75	0	22.90	23.13	22.90				
10	16QAM	75	24	22.87	23.04	22.91	24	0		
10	16QAM	75	74	22.85	23.04	22.84				
10	16QAM	75	99	22.76	22.97	22.78				
10	16QAM	150	0	22.89	22.97	22.92	23	1		
10	16QAM	150	24	22.87	22.97	22.94				
10	16QAM	150	74	22.76	22.97	22.78				
10	16QAM	150	99	22.70	22.73	22.71				
10	16QAM	300	0	22.92	23.01	23.00	23	1		
10	16QAM	300	24	22.88	22.97	22.94				
10	16QAM	300	74	22.76	22.97	22.78				
10	16QAM	300	99	22.70	22.73	22.71				
10	16QAM	600	0	22.92	23.01	23.00	21	3		
10	16QAM	600	24	22.88	22.97	22.94				
10	16QAM	600	74	22.76	22.97	22.78				
10	16QAM	600	99	22.70	22.73	22.71				
10	16QAM	1200	0	22.92	23.01	23.00	21	3		
10	16QAM	1200	24	22.88	22.97	22.94				
10	16QAM	1200	74	22.76	22.97	22.78				
10	16QAM	1200	99	22.70	22.73	22.71				
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.12	23.12	23.12				
5	QPSK	1	24	23.00	23.00	23.00	23	0		
5	QPSK	1	74	23.00	23.00	23.00				
5	QPSK	12	0	23.02	23.12	23.08				
5	QPSK	12	74	23.06	23.00	23.00	23	0		
5	QPSK	12	13	23.02	23.00	23.03				
5	QPSK	25	0	23.04	23.04	23.04				
5	QPSK	25	24	23.07	23.07	23.07				
5	QPSK	25	74	23.06	23.01	23.01	23	0		
5	16QAM	1	49	22.98	23.13	23.03				
5	16QAM	1	99	22.96	23.14	23.04	23	0		
5	16QAM	1	74	22.94	22.94	22.94				
5	16QAM	12	24	22.79	22.79	22.83	23	0		
5	16QAM	12	74	22.95	22.95	22.95				
5	16QAM	12	99	22.90	22.93	22.90				
5	16QAM	25	0	22.90	23.13	22.90				
5	16QAM	25	24	22.87	23.04	22.91	23	1		
5	16QAM	25	74	22.85	23.04	22.84				
5	16QAM	25	99	22.76	22.97	22.78				
5	16QAM	50	0	22.92	23.01	23.00	22	1		
5	16QAM	50	24	22.88	22.97	22.94				
5	16QAM	50	74	22.76	22.97	22.78				
5	16QAM	50	99	22.70	22.73	22.71				
5	16QAM	100	0	22.92	23.01	23.00	20	3		
5	16QAM	100	24	22.88	22.97	22.94				
5	16QAM	100	74	22.76	22.97	22.78				
5	16QAM	100	99	22.70	22.73	22.71				
5	16QAM	200	0	22.92	23.01	23.00	20	3		
5	16QAM	200	24	22.88	22.97	22.94				
5	16QAM	200	74	22.76	22.97	22.78				
5	16QAM	200	99	22.70	22.73	22.71				
5	16QAM	400	0	22.92	23.01	23.00	20	3		
5	16QAM	400	24	22.88	22.97	22.94				
5	16QAM	400	74	22.76	22.97	22.78				
5	16QAM	400	99	22.70	22.73	22.71				
5	16QAM	800	0	22.92	23.01	23.00	20	3		
5	16QAM	800	24	22.88	22.97	22.94				
5	16QAM	800	74	22.76	22.97	22.78				
5	16QAM	800	99	22.70	22.73	22.71				
Channel										
Frequency (MHz)										
3	QPSK	1	0	23.11	23.11	23.11				
3	QPSK	1	8	23.00	23.00	23.00	23	0		
3	QPSK	1	14	23.04	23.06	23.01				
3	QPSK	1	49	23.04	23.04	23.04				
3	QPSK	12	7	23.06	23.00	23.00	23	0		
3	QPSK	12	13	23.02	23.00	23.03				
3	QPSK	25	25	23.06	23.06	23.06				
3	QPSK	25	74	23.06	23.01	23.01	23	0		
3	16QAM	1	49	22.98	23.13	23.03				
3	16QAM	1	99	22.96	23.14	23.04	23	0		
3	16QAM	1	74	22.94	22.94	22.94				
3	16QAM	12	24	22.79	22.79	22.83	23	0		
3	16QAM	12	74	22.95	22.95	22.95				
3	16QAM	12	99	22.90	22.93	22.90				
3	16QAM	25	0	22.90	23.13	22.90				
3	16QAM	25	24	22.87	23.04	22.91	23	1		
3	16QAM	25	74	22.85	23.04	22.84				
3	16QAM	25	99	22.76	22.97	22.78				
3	16QAM	50	0	22.92	23.01	23.00	22	1		
3	16QAM	50	24	22.88	22.97	22.94				
3	16QAM	50	74	22.76	22.97	22.78				
3	16QAM	50	99	22.70	22.73	22.71				



Band 38 DSIS_Standalone Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.20	22.24	22.28				
20	QPSK	1	49	22.03	22.07	22.10	23	0		
20	QPSK	1	99	22.00	22.00	22.00				
20	QPSK	50	0	22.07	22.10	22.00				
20	QPSK	50	24	22.00	22.08	22.00	23	0		
20	QPSK	50	49	21.83	21.87	21.90				
20	QPSK	100	0	22.04	22.11	21.90				
20	HQAM	1	0	22.01	22.17	22.00				
20	HQAM	1	49	21.99	22.00	22.01	23	0		
20	HQAM	1	99	21.88	21.92	21.92				
20	HQAM	50	0	21.84	21.72	21.84				
20	HQAM	50	24	21.84	21.88	21.84	22.5	0.5		
20	HQAM	50	49	21.50	21.50	21.40				
20	HQAM	100	0	21.52	21.47	21.50				
20	HQAM	100	0	21.62	21.70	21.60				
20	HQAM	1	49	21.52	21.64	21.52	22.5	0.5		
20	HQAM	1	99	21.51	21.63	21.51				
20	HQAM	50	0	20.53	20.75	20.50				
20	HQAM	50	24	20.49	20.58	20.59				
20	HQAM	50	49	20.45	20.51	20.45	21.5	1.5		
20	HQAM	100	0	20.52	20.58	20.48				
20	256QAM	1	0	18.57	18.78	18.50				
20	256QAM	1	49	18.54	18.71	18.50	19.5	3.5		
20	256QAM	1	99	18.45	18.58	18.50				
20	256QAM	50	0	18.52	18.61	18.50				
20	256QAM	50	24	18.58	18.62	18.54	19.5	3.5		
20	256QAM	50	49	18.45	18.58	18.48				
20	256QAM	100	0	18.51	18.60	18.50				
Channel										
Frequency (MHz)										
15	QPSK	1	0	21.73	21.75	21.75				
15	QPSK	1	37	21.84	21.93	21.89	23	0		
15	QPSK	1	74	21.88	21.96	21.79				
15	QPSK	36	0	22.00	22.00	21.90				
15	QPSK	36	20	21.88	21.95	21.92	23	0		
15	QPSK	36	39	21.88	21.91	21.90				
15	QPSK	75	0	21.94	22.04	21.91				
15	HQAM	1	0	21.98	22.04	21.97				
15	HQAM	1	37	21.87	21.91	21.90	23	0		
15	HQAM	1	74	21.76	21.78	21.78				
15	HQAM	36	0	21.40	21.61	21.41				
15	HQAM	36	20	21.52	21.63	21.60	22.5	0.5		
15	HQAM	36	39	21.38	21.38	21.38				
15	HQAM	75	0	21.48	21.68	21.41				
15	HQAM	1	0	21.52	21.63	21.60				
15	HQAM	1	37	21.38	21.61	21.40	22.5	0.5		
15	HQAM	1	74	21.41	21.49	21.44				
15	HQAM	36	0	20.55	20.69	20.50				
15	HQAM	36	20	20.45	20.47	20.49	21.5	1.5		
15	HQAM	36	39	20.38	20.38	20.38				
15	HQAM	75	0	20.48	20.45	20.43				
15	256QAM	1	0	18.45	18.70	18.50	19.5	3.5		
15	256QAM	1	37	18.45	18.60	18.53				
15	256QAM	1	74	18.39	18.44	18.41				
15	256QAM	36	0	18.58	18.72	18.50	19.5	3.5		
15	256QAM	36	20	18.50	18.51	18.44				
15	256QAM	36	39	18.33	18.46	18.43				
15	256QAM	75	0	18.50	18.62	18.47				
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.75	21.65	21.71				
10	QPSK	1	25	21.97	21.84	21.93	23	0		
10	QPSK	1	49	21.97	21.98	21.81				
10	QPSK	12	0	21.84	22.00	21.90				
10	QPSK	25	12	21.88	21.90	21.90	23	0		
10	QPSK	25	25	21.99	21.99	21.70				
10	QPSK	50	0	21.87	22.01	21.80				
10	HQAM	1	0	21.82	22.00	22.00				
10	HQAM	1	25	21.94	21.86	21.91	23	0		
10	HQAM	1	49	21.70	21.79	21.80				
10	HQAM	25	0	21.41	21.84	21.44				
10	HQAM	25	12	21.43	21.41	21.44	22.5	0.5		
10	HQAM	25	25	21.44	21.40	21.38				
10	HQAM	50	0	21.42	21.62	21.40				
10	HQAM	1	0	21.56	21.68	21.60				
10	HQAM	1	25	21.38	21.55	21.43	22.5	0.5		
10	HQAM	1	49	21.36	21.49	21.44				
10	HQAM	25	0	20.54	20.68	20.51				
10	HQAM	25	12	20.38	20.48	20.52	21.5	1.5		
10	HQAM	25	25	20.37	20.39	20.47				
10	HQAM	50	0	20.41	20.48	20.30				
10	256QAM	1	0	18.50	18.67	18.51	19.5	3.5		
10	256QAM	1	25	18.50	18.72	18.45				
10	256QAM	1	49	18.34	18.51	18.45				
10	256QAM	25	0	18.51	18.67	18.57	19.5	3.5		
10	256QAM	25	12	18.45	18.57	18.44				
10	256QAM	25	25	18.32	18.50	18.38				
10	256QAM	50	0	18.49	18.67	18.40				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.10	22.10	22.00				
5	QPSK	1	12	21.91	21.93	21.90	23	0		
5	QPSK	1	24	21.89	22.00	21.80				
5	QPSK	12	0	21.84	22.01	21.90				
5	QPSK	12	7	21.84	22.02	21.80	23	0		
5	QPSK	12	13	21.88	21.89	21.81				
5	QPSK	25	0	21.90	21.87	21.80				
5	HQAM	1	0	21.91	22.04	22.04				
5	HQAM	1	12	21.95	21.90	21.89	23	0		
5	HQAM	1	24	21.74	21.78	21.80				
5	HQAM	12	0	21.42	21.67	21.42				
5	HQAM	12	7	21.40	21.41	21.39	22.5	0.5		
5	HQAM	12	13	21.38	21.37	21.31				
5	HQAM	25	0	21.39	21.98	21.44				
5	HQAM	1	0	21.48	21.73	21.50				
5	HQAM	1	12	21.42	21.67	21.46	22.5	0.5		
5	HQAM	1	24	21.39	21.48	21.40				
5	HQAM	12	0	20.51	20.68	20.50				
5	HQAM	12	7	20.42	20.34	20.35	21.5	1.5		
5	HQAM	12	13	20.40	20.40	20.44				
5	HQAM	25	0	20.40	20.30	20.44				
5	256QAM	1	0	18.53	18.74	18.50	19.5	3.5		
5	256QAM	1	12	18.41	18.74	18.51				
5	256QAM	1	24	18.41	18.67	18.40				
5	256QAM	12	0	18.50	18.40	18.45	19.5	3.5		
5	256QAM	12	13	18.39	18.63	18.41				
5	256QAM	25	0	18.46	18.61	18.40				

Band 41 FCC&C DSIS_Standalone Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.90	21.79	21.79				
20	QPSK	1	49	21.77	21.83	21.98	23.4	0		
20	QPSK	1	99	21.80	21.70	21.70				
20	QPSK	50	0	21.90	21.84	22.05				
20	QPSK	50	24	21.82	21.82	21.81	23	0.4		
20	QPSK	50	49	21.73	21.74	21.88				
20	QPSK	100	0	21.84	21.57	21.80				
20	HQAM	1	0	21.73	21.78	21.88	23	0.4		
20	HQAM	1	49	21.78	21.68	21.87				
20	HQAM	1	99	21.59	21.73	21.81				
20	HQAM	50	0	21.87	21.86	21.86				
20	HQAM	50	24	21.68	21.71	21.80	22	1.4		
20	HQAM	50	49	21.72	21.74	21.83				
20	HQAM	100	0	21.69	21.69	21.86				
20	HQAM	100	0	21.54	21.90	21.88				
20	HQAM	1	49	21.83	21.82	21.90	22	1.4		
20	HQAM	1	99	21.73	21.78	21.78				
20	HQAM	50	0	20.35	20.70	20.54				
20	HQAM	50	24	20.72	20.68	20.77	21	2.4		
20	HQAM	50	49	20.62	20.70	20.75				
20	HQAM	100	0	20.73	20.84	20.87	20.81	20.83		
20	256QAM	1	0	18.90	18.83	18.99	18.80	18.81		
20	256QAM	1	49	18.84	18.82	18.99	18.84	18.84	19	4.4
20	256QAM	1	99	18.79	18.68	18.82	18.81	18.72		
20	256QAM	50	0	18.85	18.89	18.97	18.80	18.80		
20	256QAM	50	24	18.68	18.80	18.80	18.80	18.69	19	4.4
20	256QAM	50	49	18.62	18.75	18.76	18.72	18.61		
20	256QAM	100	0	18.97	18.86	18.95				
Channel										
Frequency (MHz)										
15	QPSK	1	0	21.73	21.63	21.73				
15	QPSK	1	37	21.80	21.87	21.74	23.40	0		
15	QPSK	1	74	21.98	21.46	21.91				
15	QPSK	36	0	21.86	21.72	21.74				
15	QPSK	36	20	21.50	21.64	21.64	23			



Band 41 PC2 FCC&CIS5_ Standalone Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Mid Ch / Freq	Power High Mid Ch / Freq	Tune-up limit (dBm)	MPE (dB)
Channel										
Frequency (MHz)										
50	QPSK	1	0	23.77	23.78	23.81	23.77	23.80	25.00	0
50	QPSK	1	49	23.83	23.89	23.88	23.84	23.79	25.00	0
50	QPSK	1	99	23.84	23.89	23.79	23.87	23.76	25.00	0
50	QPSK	50	0	23.55	23.66	23.74	23.61	23.76	25.00	0
50	QPSK	50	24	23.45	23.64	23.64	23.48	23.51	25.00	0
50	QPSK	50	49	23.60	23.60	23.60	23.48	23.52	25.00	0
50	QPSK	100	0	23.31	23.54	23.62	23.64	23.64	25.00	0
50	HQAM	1	0	23.52	23.67	23.76	23.68	23.66	25.00	0
50	HQAM	1	49	23.68	23.68	23.70	23.69	23.54	25.00	0
50	HQAM	1	99	23.43	23.53	23.63	23.57	23.53	25.00	0
50	HQAM	50	0	23.33	23.50	23.58	23.51	23.55	25.00	0
50	HQAM	50	24	23.35	23.59	23.59	23.48	23.52	25.00	0
50	HQAM	50	49	23.37	23.52	23.57	23.55	23.40	25.00	0
50	HQAM	100	0	23.44	23.48	23.56	23.47	23.52	25.00	0
50	BQAM	1	0	23.71	23.85	23.82	23.85	23.87	25.00	0
50	BQAM	1	49	23.72	23.85	23.82	23.82	23.70	25.00	0
50	BQAM	1	99	23.73	23.89	23.80	23.72	23.70	25.00	0
50	BQAM	50	0	23.58	23.66	23.78	23.60	23.61	25.00	0
50	BQAM	50	24	23.43	23.55	23.63	23.61	23.51	25.00	0
50	BQAM	50	49	23.46	23.51	23.61	23.54	23.48	25.00	0
50	BQAM	100	0	23.50	23.58	23.67	23.67	23.61	25.00	0
50	25QAM	1	0	21.69	21.81	21.95	21.76	21.81	23.2	2
50	25QAM	1	49	21.72	21.79	21.81	21.71	21.81	23.2	2
50	25QAM	1	99	21.62	21.68	21.79	21.75	21.64	23.2	2
50	25QAM	50	0	21.56	21.68	21.74	21.63	21.67	23.2	2
50	25QAM	50	24	21.38	21.53	21.59	21.50	21.52	23.2	2
50	25QAM	50	49	21.38	21.51	21.54	21.48	21.43	23.2	2
50	25QAM	100	0	21.60	21.60	21.60	21.60	21.60	23.2	2
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.61	23.73	23.81	23.61	23.67	25.00	0
15	QPSK	1	37	23.49	23.63	23.61	23.48	23.65	25.00	0
15	QPSK	1	74	23.39	23.58	23.66	23.44	23.54	25.00	0
15	QPSK	38	0	23.56	23.69	23.69	23.60	23.56	25.00	0
15	QPSK	38	20	23.42	23.41	23.54	23.52	23.48	25.00	0
15	QPSK	75	0	23.41	23.38	23.62	23.59	23.52	25.00	0
15	HQAM	1	0	23.44	23.59	23.62	23.74	23.72	25.00	0
15	HQAM	1	37	23.50	23.49	23.65	23.58	23.47	25.00	0
15	HQAM	1	74	23.33	23.57	23.50	23.35	23.47	25.00	0
15	HQAM	38	0	23.24	23.28	23.58	23.45	23.54	25.00	0
15	HQAM	38	20	23.14	23.21	23.50	23.40	23.34	25.00	0
15	HQAM	38	38	23.30	23.34	23.58	23.21	23.39	25.00	0
15	HQAM	75	0	23.34	23.52	23.56	23.32	23.43	25.00	0
15	BQAM	1	0	23.62	23.68	23.79	23.67	23.83	25.00	0
15	BQAM	1	37	23.66	23.69	23.73	23.60	23.67	25.00	0
15	BQAM	1	74	23.58	23.57	23.72	23.77	23.66	25.00	0
15	BQAM	38	0	23.47	23.60	23.62	23.54	23.48	25.00	0
15	BQAM	38	20	23.32	23.52	23.51	23.38	23.41	25.00	0
15	BQAM	38	38	23.52	23.52	23.52	23.52	23.52	25.00	0
15	BQAM	75	0	23.44	23.55	23.62	23.61	23.51	25.00	0
15	25QAM	1	0	21.64	21.69	21.82	21.70	21.66	23.2	2
15	25QAM	1	37	21.63	21.63	21.73	21.73	21.83	23.2	2
15	25QAM	1	74	21.48	21.61	21.62	21.60	21.52	23.2	2
15	25QAM	38	0	21.50	21.54	21.68	21.59	21.61	23.2	2
15	25QAM	38	20	21.31	21.44	21.45	21.46	21.38	23.2	2
15	25QAM	38	38	21.30	21.44	21.51	21.44	21.38	23.2	2
15	25QAM	75	0	21.40	21.54	21.61	21.50	21.48	23.2	2
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.71	23.73	23.81	23.62	23.78	25.00	0
10	QPSK	1	25	23.62	23.64	23.68	23.71	23.45	25.00	0
10	QPSK	1	49	23.44	23.39	23.78	23.48	23.70	25.00	0
10	QPSK	1	74	23.62	23.68	23.68	23.68	23.77	25.00	0
10	QPSK	25	12	23.35	23.42	23.60	23.51	23.41	25.00	0
10	QPSK	25	25	23.46	23.34	23.45	23.40	23.38	25.00	0
10	QPSK	50	0	23.61	23.61	23.61	23.60	23.54	25.00	0
10	HQAM	1	0	23.60	23.67	23.61	23.69	23.74	25.00	0
10	HQAM	1	25	23.50	23.58	23.60	23.48	23.62	25.00	0
10	HQAM	1	49	23.50	23.62	23.62	23.67	23.80	25.00	0
10	HQAM	25	0	23.17	23.47	23.63	23.50	23.61	25.00	0
10	HQAM	25	12	23.18	23.31	23.31	23.25	23.25	25.00	0
10	HQAM	25	25	23.30	23.32	23.33	23.23	23.23	25.00	0
10	HQAM	50	0	23.37	23.44	23.43	23.38	23.46	25.00	0
10	BQAM	1	0	23.61	23.63	23.68	23.63	23.80	25.00	0
10	BQAM	1	25	23.68	23.76	23.72	23.71	23.69	25.00	0
10	BQAM	1	49	23.59	23.64	23.74	23.68	23.73	25.00	0
10	BQAM	25	0	23.54	23.63	23.60	23.50	23.58	25.00	0
10	BQAM	25	12	23.38	23.46	23.54	23.51	23.45	25.00	0
10	BQAM	25	25	23.32	23.48	23.46	23.44	23.40	25.00	0
10	BQAM	50	0	23.44	23.45	23.46	23.54	23.55	25.00	0
10	25QAM	1	0	21.58	21.70	21.81	21.68	21.69	23.2	2
10	25QAM	1	25	21.68	21.63	21.86	21.70	21.67	23.2	2
10	25QAM	1	49	21.48	21.64	21.69	21.69	21.58	23.2	2
10	25QAM	25	0	21.43	21.50	21.81	21.60	21.50	23.2	2
10	25QAM	25	12	21.35	21.43	21.47	21.37	21.45	23.2	2
10	25QAM	25	25	21.29	21.37	21.41	21.43	21.38	23.2	2
10	25QAM	50	0	21.35	21.48	21.60	21.58	21.55	23.2	2
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.50	23.73	23.62	23.67	23.76	25.00	0
5	QPSK	1	12	23.63	23.72	23.67	23.48	23.66	25.00	0
5	QPSK	1	24	23.45	23.51	23.78	23.47	23.54	25.00	0
5	QPSK	12	0	23.39	23.75	23.76	23.59	23.71	25.00	0
5	QPSK	12	7	23.28	23.35	23.45	23.33	23.48	25.00	0
5	QPSK	12	13	23.29	23.51	23.49	23.34	23.33	25.00	0
5	QPSK	25	0	23.17	23.48	23.55	23.40	23.50	25.00	0
5	HQAM	1	0	23.63	23.48	23.59	23.68	23.70	25.00	0
5	HQAM	1	12	23.42	23.58	23.53	23.45	23.38	25.00	0
5	HQAM	1	24	23.32	23.00	23.60	23.40	23.50	25.00	0
5	HQAM	12	0	23.41	23.34	23.56	23.40	23.49	25.00	0
5	HQAM	12	7	23.39	23.39	23.48	23.36	23.45	25.00	0
5	HQAM	12	13	23.11	23.24	23.50	23.41	23.35	25.00	0
5	HQAM	25	0	23.30	23.46	23.67	23.34	23.83	25.00	0
5	BQAM	1	0	23.67	23.84	23.81	23.89	23.81	25.00	0
5	BQAM	1	12	23.75	23.78	23.82	23.78	23.78	25.00	0
5	BQAM	1	24	23.78	23.68	23.66	23.55	23.59	25.00	0
5	BQAM	12	0	23.44	23.69	23.60	23.46	23.51	25.00	0
5	BQAM	12	7	23.38	23.46	23.45	23.38	23.38	25.00	0
5	BQAM	12	13	23.35	23.36	23.57	23.45	23.37	25.00	0
5	BQAM	25	0	23.46	23.54	23.59	23.54	23.48	25.00	0
5	25QAM	1	0	21.57	21.77	21.81	21.62	21.67	23.2	2
5	25QAM	1	12	21.58	21.69	21.91	21.67	21.67	23.2	2
5	25QAM	1	24	21.54	21.69	21.69	21.71	21.55	23.2	2
5	25QAM	12	0	21.43	21.47	21.69	21.59			



OSM 1900 Airt		Default						
	Base Average Power (dBm)	JRRS		Turnup	Frame-Average Power (dBm)		Turnup	
Tx Channel	812	861	810	Limit	812	861	810	Limit
Frequency (MHz)	1812.2	1862	1812.2	(dBm)	1812.2	1862	1812.2	(dBm)
OSM 1 Tx Watt	29.56	29.68	29.63	30.00	29.56	29.68	29.63	31.00
OPRS 1 Tx Watt	29.52	29.61	29.49	30.00	29.52	29.61	29.49	31.00
OPRS 2 Tx Watt	27.05	27.12	26.97	28.00	27.05	27.12	26.97	29.00
OPRS 3 Tx Watt	28.70	28.78	28.86	29.00	27.44	27.50	27.40	29.24
OPRS 4 Tx Watt	23.14	23.21	23.40	24.00	23.54	23.57	23.68	27.00
EDGE 1 Tx Watt	23.06	23.13	24.59	25.00	18.06	18.13	18.59	17.00
EDGE 2 Tx Watt	21.33	21.43	23.49	24.00	17.33	17.43	17.48	18.00
EDGE 3 Tx Watt	22.21	22.25	22.25	23.00	17.25	18.00	17.25	19.24
EDGE 4 Tx Watt	20.13	20.18	20.08	21.00	17.13	17.18	17.08	18.00

Base		V-CDMA B		Turnup	V-CDMA IV		Turnup
Tx Channel	862	868	838	Limit	832	843	833
Frequency (MHz)	1862	1868	1838	(dBm)	1832	1843	1833
SOPP Rel (W)	22.56	23.02	23.00	24.00	21.24	22.22	22.21
SOPP Rel (W) RMC 12 Zones	23.05	23.07	22.92	24.00	22.89	23.03	22.84
SOPP Rate: HSPA Subclass 1	21.92	22.14	22.11	23.00	21.81	22.04	21.94
SOPP Rate: HSPA Subclass 2	22.84	22.17	21.92	23.00	21.83	22.07	21.84
SOPP Rate: HSPA Subclass 3	21.54	21.50	21.57	22.00	21.52	21.49	21.44
SOPP Rate: HSPA Subclass 4	21.48	21.60	21.60	22.00	21.43	21.60	21.50
SOPP Rate: DC-HSPA Subclass 1	22.08	22.17	21.98	23.00	21.90	22.00	21.90
SOPP Rate: DC-HSPA Subclass 2	21.99	22.13	22.18	23.00	21.91	22.07	22.07
SOPP Rate: DC-HSPA Subclass 3	21.37	21.57	21.48	22.00	21.28	21.46	21.34
SOPP Rate: DC-HSPA Subclass 4	21.61	21.50	21.44	22.00	21.50	21.45	21.51
SOPP Rate: HSPA Subclass 1	22.88	22.31	21.97	23.00	22.04	22.24	21.84
SOPP Rate: HSPA Subclass 2	22.23	22.14	22.17	23.00	22.28	22.07	22.04
SOPP Rate: HSPA Subclass 3	21.20	21.00	21.03	22.00	21.10	20.90	20.90
SOPP Rate: HSPA Subclass 4	18.98	20.25	20.22	21.00	19.84	20.10	20.08
SOPP Rate: HSPA Subclass 5	22.03	22.04	21.94	23.00	21.90	21.90	21.90



Band 2 Default Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPE (dB)		
Channel										
	Frequency (MHz)			1860	1880	1900				
20	QPSK	1	0	22.65	22.72	22.70				
20	QPSK	1	49	22.63	22.70	22.68	24	0		
20	QPSK	1	99	22.45	22.58	22.53				
20	QPSK	50	0	22.49	22.57	22.53				
20	QPSK	50	24	22.41	22.50	22.49				
20	QPSK	50	50	22.38	22.47	22.38	24	0		
20	QPSK	100	0	22.45	22.50	22.41				
20	QPSK	100	0	22.49	22.58	22.50				
20	HQAM	1	49	22.36	22.45	22.41	24	0		
20	HQAM	1	99	22.33	22.44	22.37				
20	HQAM	50	0	22.38	22.44	22.44				
20	HQAM	50	24	22.38	22.37	22.31	24	0		
20	HQAM	50	50	22.32	22.39	22.31				
20	HQAM	100	0	22.38	22.49	22.32				
20	HQAM	1	0	22.29	22.47	22.31				
20	HQAM	1	49	22.29	22.29	22.29	24	0		
20	HQAM	50	0	22.28	22.32	22.27				
20	HQAM	50	24	22.28	22.34	22.28	24	0		
20	HQAM	50	50	22.42	22.46	22.38				
20	SSBAM	1	49	19.51	19.83	19.45	21	3		
20	SSBAM	1	99	19.38	19.43	19.33				
20	SSBAM	50	0	19.27	19.35	19.27				
20	SSBAM	50	24	19.33	19.39	19.36	21	3		
20	SSBAM	50	50	19.25	19.35	19.32				
20	SSBAM	100	0	19.38	19.41	19.35				
Channel										
	Frequency (MHz)			1867.5	1890	1912.5	Turn-up time (min)	MPE (dB)		
15	QPSK	1	0	22.80	22.88	22.81				
15	QPSK	1	37	22.42	22.58	22.50	24	0		
15	QPSK	1	74	22.40	22.49	22.46				
15	QPSK	36	0	22.42	22.59	22.47				
15	QPSK	36	20	22.30	22.51	22.38	24	0		
15	QPSK	36	36	22.31	22.39	22.29				
15	QPSK	75	0	22.34	22.59	22.34				
15	QPSK	75	0	22.30	22.53	22.42				
15	HQAM	1	37	22.24	22.41	22.29	24	0		
15	HQAM	1	74	22.14	22.38	22.26				
15	HQAM	36	0	22.29	22.42	22.34				
15	HQAM	36	20	22.32	22.27	22.28	24	0		
15	HQAM	36	20	22.27	22.37	22.21				
15	HQAM	75	0	22.26	22.44	22.27				
15	HQAM	1	0	22.17	22.37	22.21	24	0		
15	HQAM	1	37	22.14	22.37	22.21				
15	HQAM	36	0	22.14	22.39	22.21				
15	HQAM	36	20	22.20	22.30	22.17	24	0		
15	HQAM	75	0	22.28	22.34	22.29				
15	SSBAM	1	37	19.35	19.58	19.47	21	3		
15	SSBAM	1	74	19.39	19.50	19.40				
15	SSBAM	1	74	19.33	19.39	19.26				
15	SSBAM	50	0	19.27	19.35	19.27				
15	SSBAM	50	24	19.33	19.35	19.26	21	3		
15	SSBAM	50	50	19.14	19.23	19.20				
15	SSBAM	75	0	19.38	19.41	19.31				
Channel										
	Frequency (MHz)			1865	1890	1915	Turn-up time (min)	MPE (dB)		
10	QPSK	1	0	22.60	22.67	22.64				
10	QPSK	1	25	22.46	22.54	22.50	24	0		
10	QPSK	1	49	22.34	22.52	22.43				
10	QPSK	25	0	22.37	22.50	22.43				
10	QPSK	25	12	22.37	22.50	22.43	24	0		
10	QPSK	25	25	22.27	22.33	22.27				
10	QPSK	75	0	22.30	22.53	22.42				
10	HQAM	1	0	22.29	22.49	22.37	24	0		
10	HQAM	1	25	22.24	22.33	22.30				
10	HQAM	1	49	22.18	22.38	22.26				
10	HQAM	25	0	22.27	22.40	22.34				
10	HQAM	25	12	22.32	22.33	22.22	24	0		
10	HQAM	25	25	22.21	22.35	22.22				
10	HQAM	50	0	22.25	22.43	22.28				
10	HQAM	1	0	22.21	22.43	22.16	24	0		
10	HQAM	1	25	22.17	22.58	22.21				
10	HQAM	1	49	22.13	22.32	22.13				
10	HQAM	25	0	22.23	22.45	22.21				
10	HQAM	25	12	22.23	22.39	22.22	24	0		
10	HQAM	25	25	22.20	22.29	22.20				
10	HQAM	50	0	22.37	22.34	22.25				
10	SSBAM	1	25	19.36	19.51	19.41	21	3		
10	SSBAM	1	25	19.38	19.37	19.34				
10	SSBAM	50	0	19.25	19.46	19.35				
10	SSBAM	50	12	19.28	19.30	19.28	21	3		
10	SSBAM	25	25	19.14	19.28	19.19				
10	SSBAM	50	0	19.33	19.54	19.39				
Channel										
	Frequency (MHz)			1862.5	1880	1917.5	Turn-up time (min)	MPE (dB)		
5	QPSK	1	0	22.62	22.67	22.64				
5	QPSK	1	12	22.39	22.54	22.46	24	0		
5	QPSK	1	24	22.38	22.51	22.49				
5	QPSK	12	0	22.41	22.51	22.49				
5	QPSK	12	7	22.34	22.45	22.41	24	0		
5	QPSK	12	13	22.30	22.39	22.33				
5	QPSK	25	0	22.34	22.53	22.42				
5	HQAM	1	0	22.31	22.45	22.33	24	0		
5	HQAM	1	12	22.31	22.42	22.28				
5	HQAM	12	0	22.23	22.58	22.21				
5	HQAM	12	7	22.24	22.33	22.28	24	0		
5	HQAM	12	13	22.23	22.28	22.20				
5	HQAM	25	0	22.29	22.46	22.23				
5	HQAM	1	0	22.20	22.41	22.22	24	0		
5	HQAM	1	12	22.17	22.55	22.21				
5	HQAM	1	24	22.20	22.24	22.23				
5	HQAM	12	0	22.14	22.40	22.16				
5	HQAM	12	7	22.23	22.23	22.22	24	0		
5	HQAM	12	13	22.14	22.20	22.15				
5	HQAM	25	0	22.28	22.38	22.27				
5	HQAM	25	0	19.37	19.59	19.39	24	0		
5	SSBAM	1	12	19.43	19.52	19.42	21	3		
5	SSBAM	1	24	19.26	19.38	19.29				
5	SSBAM	50	0	19.28	19.42	19.33				
5	SSBAM	12	7	19.28	19.33	19.25	21	3		
5	SSBAM	25	0	19.29	19.58	19.48				
Channel										
	Frequency (MHz)			1861.5	1880	1918.5	Turn-up time (min)	MPE (dB)		
3	QPSK	1	0	22.51	22.68	22.50				
3	QPSK	1	8	22.37	22.51	22.45	24	0		
3	QPSK	1	14	22.39	22.51	22.41				
3	QPSK	8	0	22.43	22.58	22.44				
3	QPSK	8	4	22.39	22.42	22.43	24	0		
3	QPSK	8	7	22.35	22.33	22.34				
3	QPSK	15	0	22.34	22.46	22.32				
3	HQAM	1	0	22.32	22.53	22.41	24	0		
3	HQAM	1	8	22.28	22.36	22.25				
3	HQAM	1	14	22.18	22.30	22.20				
3	HQAM	8	0	22.28	22.43	22.34	24	0		
3	HQAM	8	4	22.31	22.31	22.27				
3	HQAM	8	7	22.22	22.27	22.20				
3	HQAM	15	0	22.34	22.44	22.28				
3	HQAM	1	0	22.23	22.40	22.20	24	0		
3	HQAM	1	8	22.22	22.38	22.21				
3	HQAM	1	14	22.19	22.22	22.22				
3	HQAM	8	0	22.23	22.41	22.16				
3	HQAM	8	4	22.32	22.33	22.29	24	0		
3	HQAM	8	7	22.14	22.26	22.18				
3	SSBAM	15	8	19.35	19.38	19.24	21	3		
3	SSBAM	1	8							



Band 25 Default Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dBm)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.40	22.70	22.72				
10	QPSK	1	0	22.40	22.70	22.72			24	0
10	QPSK	1	49	22.36	22.55	22.65				
10	QPSK	1	49	22.36	22.55	22.65			24	0
10	QPSK	25	0	22.50	22.60	22.47				
10	QPSK	25	0	22.50	22.60	22.47			24	0
10	QPSK	50	24	22.39	22.49	22.45				
10	QPSK	50	24	22.39	22.49	22.45			24	0
10	QPSK	100	0	22.49	22.52	22.53				
10	QPSK	100	0	22.49	22.52	22.47			24	0
10	16QAM	1	49	22.35	22.42	22.38				
10	16QAM	1	49	22.35	22.42	22.38			24	0
10	16QAM	50	24	22.40	22.46	22.42				
10	16QAM	50	24	22.40	22.46	22.42			24	0
10	16QAM	100	0	22.34	22.38	22.34				
10	16QAM	100	0	22.47	22.51	22.46			24	0
10	84QAM	1	0	22.39	22.52	22.46				
10	84QAM	1	49	22.35	22.40	22.52			24	0
10	84QAM	50	24	22.38	22.33	22.38				
10	84QAM	50	24	21.45	21.56	21.45			23	1
10	84QAM	100	0	21.38	21.38	21.38				
10	84QAM	100	0	21.38	21.38	21.34			23	1
10	256QAM	1	49	19.43	19.65	19.47				
10	256QAM	1	49	19.43	19.65	19.47			21	3
10	256QAM	1	99	19.44	19.42	19.40				
10	256QAM	1	99	19.44	19.42	19.40			21	3
10	256QAM	50	24	19.38	19.46	19.41				
10	256QAM	50	24	19.38	19.46	19.41			21	3
10	256QAM	100	0	19.32	19.44	19.39				
10	256QAM	100	0	19.32	19.44	19.39			21	3
Channel										
Frequency (MHz)										
19	QPSK	1	0	22.50	22.69	22.60				
10	QPSK	1	37	22.45	22.48	22.47			24	0
10	QPSK	1	74	22.27	22.48	22.42				
10	QPSK	1	74	22.27	22.48	22.42			24	0
10	QPSK	25	0	22.38	22.62	22.37				
10	QPSK	25	0	22.30	22.31	22.41			24	0
10	QPSK	36	39	22.35	22.43	22.42				
10	QPSK	36	39	22.35	22.43	22.42			24	0
10	QPSK	75	0	22.44	22.51	22.44				
10	QPSK	75	0	22.36	22.31	22.34			24	0
10	16QAM	1	37	22.25	22.39	22.31				
10	16QAM	1	37	22.25	22.39	22.31			24	0
10	16QAM	1	74	22.21	22.49	22.33				
10	16QAM	1	74	22.21	22.49	22.33			24	0
10	16QAM	36	20	22.26	22.53	22.29				
10	16QAM	36	20	22.26	22.53	22.29			24	0
10	16QAM	75	0	22.34	22.58	22.43				
10	16QAM	75	0	22.34	22.58	22.43			24	0
10	84QAM	1	0	22.30	22.42	22.38				
10	84QAM	1	0	22.30	22.42	22.38			24	0
10	84QAM	1	37	22.22	22.24	22.23				
10	84QAM	1	37	22.22	22.24	22.23			23	1
10	84QAM	36	0	21.34	21.52	21.34				
10	84QAM	36	0	21.34	21.52	21.34			23	1
10	84QAM	75	0	21.18	21.13	21.21				
10	84QAM	75	0	21.18	21.13	21.21			23	1
10	84QAM	75	0	21.62	21.58	21.54				
10	84QAM	75	0	21.62	21.58	21.54			23	1
10	256QAM	1	37	19.40	19.61	19.37				
10	256QAM	1	37	19.40	19.61	19.37			21	3
10	256QAM	1	74	19.30	19.38	19.36				
10	256QAM	1	74	19.30	19.38	19.36			21	3
10	256QAM	36	20	19.29	19.43	19.29				
10	256QAM	36	20	19.29	19.43	19.29			21	3
10	256QAM	75	0	19.41	19.35	19.28				
10	256QAM	75	0	19.41	19.35	19.28			21	3
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.60	22.69	22.60				
10	QPSK	1	25	22.35	22.52	22.44				
10	QPSK	1	49	22.26	22.47	22.47			24	0
10	QPSK	1	49	22.26	22.47	22.47				
10	QPSK	25	12	22.26	22.37	22.40				
10	QPSK	25	12	22.26	22.37	22.40			24	0
10	QPSK	25	25	22.30	22.35	22.38				
10	QPSK	25	25	22.30	22.35	22.38			24	0
10	16QAM	1	0	22.39	22.45	22.39				
10	16QAM	1	0	22.39	22.45	22.39			24	0
10	16QAM	1	24	22.25	22.37	22.29				
10	16QAM	1	24	22.25	22.37	22.29			24	0
10	16QAM	25	0	22.34	22.52	22.29				
10	16QAM	25	0	22.34	22.52	22.29			24	0
10	16QAM	50	24	22.28	22.36	22.38				
10	16QAM	50	24	22.28	22.36	22.38			24	0
10	16QAM	100	0	22.33	22.52	22.34				
10	16QAM	100	0	22.33	22.52	22.34			24	0
10	84QAM	1	0	22.33	22.43	22.41				
10	84QAM	1	0	22.33	22.43	22.41			24	0
10	84QAM	1	49	22.15	22.23	22.14				
10	84QAM	1	49	22.15	22.23	22.14			23	1
10	84QAM	25	0	21.37	21.45	21.35				
10	84QAM	25	0	21.37	21.45	21.35			23	1
10	84QAM	50	24	21.22	21.20	21.25				
10	84QAM	50	24	21.22	21.20	21.25			23	1
10	84QAM	75	0	19.48	19.48	19.43				
10	84QAM	75	0	19.48	19.48	19.43			21	3
10	256QAM	1	24	19.38	19.35	19.35				
10	256QAM	1	24	19.38	19.35	19.35			21	3
10	256QAM	1	49	19.35	19.35	19.35				
10	256QAM	1	49	19.35	19.35	19.35			21	3
10	256QAM	25	12	19.32	19.33	19.33				
10	256QAM	25	12	19.32	19.33	19.33			21	3
10	256QAM	12	13	19.37	19.28	19.25				
10	256QAM	12	13	19.37	19.28	19.25			21	3
10	256QAM	50	0	19.41	19.47	19.47				
10	256QAM	50	0	19.41	19.47	19.47			21	3
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.47	22.65	22.59				
3	QPSK	1	8	22.45	22.55	22.44			24	0
3	QPSK	1	14	22.28	22.45	22.42				
3	QPSK	1	14	22.28	22.45	22.42			24	0
3	QPSK	8	4	22.32	22.43	22.39				
3	QPSK	8	4	22.32	22.43	22.39			24	0
3	QPSK	8	7	22.26	22.39	22.38				
3	QPSK	8	7	22.26	22.39	22.38			24	0
3	QPSK	15	0	22.39	22.49	22.45				
3	QPSK	15	0	22.39	22.49	22.45			24	0
3	16QAM	1	0	22.29	22.47	22.34				
3	16QAM	1	0	22.29	22.47	22.34			24	0
3	16QAM	1	8	22.25	22.35	22.25				
3	16QAM	1	8	22.25	22.35	22.25			24	0
3	16QAM	1	14	22.32	22.40	22.33				
3	16QAM	1	14	22.32	22.40	22.33			24	0
3	16QAM	8	0	22.32	22.42	22.32				
3	16QAM	8	0	22.32	22.42	22.32			24	0
3	16QAM	8	4	22.32	22.39	22.28				
3	16QAM	8	4	22.32	22.39	22.28			24	0
3	16QAM	15	0	22.37	22.39	22.27				
3	16QAM	15	0	22.37	22.39	22.27			24	0
3	16QAM									



Band 38 Default Ant 3										
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										
37850 38000 38150										
Frequency (MHz)										
20	QPSK	1	0	23.49	23.52	23.54				
20	QPSK	1	49	23.37	23.45	23.50		24	0	
20	QPSK	1	99	23.26	23.33	23.40				
20	QPSK	50	0	23.52	23.52	23.58				
20	QPSK	50	24	23.25	23.36	23.38		24	0	
20	QPSK	50	50	23.21	23.28	23.31				
20	QPSK	100	0	23.24	23.45	23.38				
20	HQAM	1	0	23.16	23.37	23.21		24	0	
20	HQAM	1	49	23.24	23.34	23.25				
20	HQAM	1	99	23.09	23.24	23.13				
20	HQAM	50	0	22.77	22.86	22.86		23.5	0.5	
20	HQAM	50	24	22.82	22.87	22.87				
20	HQAM	50	50	22.73	22.74	22.71				
20	HQAM	100	0	22.66	22.67	22.65				
20	HQAM	100	24	22.76	22.57	22.58		23.5	0.5	
20	HQAM	100	49	22.77	22.67	22.61				
20	HQAM	1	99	22.66	22.76	22.65				
20	HQAM	50	0	21.80	22.01	21.90		22.5	1.5	
20	HQAM	50	24	21.82	21.80	21.80				
20	HQAM	50	50	21.72	21.88	21.78				
20	HQAM	100	0	21.97	22.01	21.91				
20	25QAM	1	0	19.81	20.02	19.87		20.5	3.5	
20	25QAM	1	49	19.81	20.02	19.87				
20	25QAM	1	99	19.80	19.77	19.79				
20	25QAM	50	0	19.89	20.04	19.86				
20	25QAM	50	24	19.88	19.85	19.87		20.5	3.5	
20	25QAM	50	50	19.82	19.85	19.77				
20	25QAM	100	0	19.91	20.03	19.85				
Channel										
37825 38000 38175										
Frequency (MHz)										
15	QPSK	1	0	23.33	23.51	23.33				
15	QPSK	1	37	23.24	23.38	23.29		24	0	
15	QPSK	1	74	23.14	23.18	23.32				
15	QPSK	36	0	23.25	23.46	23.25				
15	QPSK	36	20	23.14	23.28	23.21		24	0	
15	QPSK	36	50	23.14	23.31	23.24				
15	HQAM	1	0	23.02	23.33	23.08				
15	HQAM	1	37	22.97	23.33	23.09		24	0	
15	HQAM	1	74	23.08	23.17	23.20				
15	HQAM	36	0	22.72	22.84	22.72				
15	HQAM	36	20	22.71	22.77	22.82		23.5	0.5	
15	HQAM	36	50	22.60	22.70	22.62				
15	HQAM	75	0	22.86	23.06	22.85				
15	HQAM	75	0	22.71	22.82	22.79				
15	HQAM	1	37	22.71	22.74	22.74		23.5	0.5	
15	HQAM	1	74	22.62	22.71	22.64				
15	HQAM	36	0	21.76	21.87	21.86		22.5	1.5	
15	HQAM	36	20	21.67	21.81	21.87				
15	HQAM	36	50	21.54	21.73	21.69				
15	HQAM	75	0	21.63	21.95	21.78				
15	25QAM	1	0	19.75	19.85	19.75		20.5	3.5	
15	25QAM	1	37	19.68	19.83	19.74				
15	25QAM	1	74	19.59	19.63	19.68				
15	25QAM	36	0	19.80	19.69	19.76		20.5	3.5	
15	25QAM	36	20	19.82	19.73	19.82				
15	25QAM	36	50	19.77	19.77	19.66				
15	25QAM	75	0	19.88	20.00	19.85				
Channel										
37875 38000 38175										
Frequency (MHz)										
10	QPSK	1	0	23.24	23.43	23.43				
10	QPSK	1	25	23.28	23.33	23.20		24	0	
10	QPSK	1	49	23.13	23.21	23.27				
10	QPSK	12	0	23.30	23.48	23.36				
10	QPSK	12	13	23.17	23.25	23.32		24	0	
10	QPSK	25	0	23.16	23.24	23.13				
10	QPSK	50	0	23.10	23.33	23.30				
10	HQAM	1	0	23.06	23.33	23.18				
10	HQAM	1	25	23.07	23.16	23.14		24	0	
10	HQAM	1	49	23.00	23.18	23.02				
10	HQAM	25	0	22.84	22.88	22.79				
10	HQAM	25	12	22.68	22.77	22.71		23.5	0.5	
10	HQAM	25	25	22.60	22.64	22.63				
10	HQAM	50	0	22.91	23.07	22.77				
10	HQAM	1	0	22.80	23.00	22.80				
10	HQAM	1	25	22.62	22.73	22.72		23.5	0.5	
10	HQAM	1	49	22.59	22.67	22.53				
10	HQAM	25	0	21.70	21.81	21.80		22.5	1.5	
10	HQAM	25	12	21.78	21.81	21.87				
10	HQAM	25	25	21.64	21.75	21.64				
10	HQAM	50	0	21.86	21.91	21.88				
10	25QAM	1	0	19.73	19.91	19.75		20.5	3.5	
10	25QAM	1	49	19.67	19.84	19.72				
10	25QAM	25	0	19.76	19.85	19.73		20.5	3.5	
10	25QAM	25	12	19.85	19.70	19.80				
10	25QAM	25	25	19.78	19.81	19.85				
10	25QAM	50	0	19.94	20.05	19.85				
Channel										
37825 38000 38175										
Frequency (MHz)										
5	QPSK	1	0	23.36	23.48	23.47				
5	QPSK	1	12	23.23	23.35	23.31		24	0	
5	QPSK	1	24	23.22	23.24	23.29				
5	QPSK	12	0	23.23	23.42	23.34				
5	QPSK	12	7	23.11	23.25	23.36		24	0	
5	QPSK	12	13	23.09	23.21	23.30				
5	QPSK	25	0	23.09	23.40	23.28				
5	HQAM	1	0	23.02	23.29	23.17				
5	HQAM	1	12	23.06	23.11	23.10		24	0	
5	HQAM	1	24	23.00	23.35	23.00				
5	HQAM	12	0	22.68	22.84	22.74				
5	HQAM	12	7	22.69	22.77	22.61		23.5	0.5	
5	HQAM	12	13	22.70	22.68	22.69				
5	HQAM	25	0	22.85	23.03	22.78				
5	HQAM	25	0	22.67	22.67	22.74		23.5	0.5	
5	HQAM	25	12	22.65	22.60	22.76				
5	HQAM	1	24	22.59	22.70	22.50				
5	HQAM	12	0	21.71	21.87	21.78		22.5	1.5	
5	HQAM	12	7	21.71	21.80	21.68				
5	HQAM	12	13	21.59	21.78	21.73				
5	HQAM	25	0	21.85	21.98	21.78				
5	25QAM	1	0	19.67	19.80	19.81		20.5	3.5	
5	25QAM	1	12	19.68	19.63	19.77				
5	25QAM	1	24	19.60	19.67	19.62				
5	25QAM	12	0	19.80	19.91	19.73		20.5	3.5	
5	25QAM	12	7	19.75	19.76	19.84				
5	25QAM	12	13	19.79	19.76	19.70				
5	25QAM	25	0	19.88	20.05	19.80				

Band 41 PC3 Default Ant 3										
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										
39750 39785 39800 39815 39830										
Frequency (MHz)										
20	QPSK	1	0	23.43	23.43	23.43				
20	QPSK	1	49	23.34	23.31	23.45		24	0	
20	QPSK	1	99	23.26	23.36	23.36				
20	QPSK	50	0	23.21	23.43	23.30				
20	QPSK	50	24	23.28	23.33	23.44		23	1	
20	QPSK	50	50	23.22	23.35	23.37				
20	HQAM	1	0	23.43	23.38	23.33				
20	HQAM	1	49	23.62	23.73	23.86		23	1	
20	HQAM	1	99	23.65	23.69	23.61				
20	HQAM	50	0	23.57	23.51	23.66				
20	HQAM	50	24	23.59	23.40	23.45				
20	HQAM	50	50	23.36	23.41	23.48		22	2	
20	HQAM	100	0	23.66	23.57	23.67				
20	HQAM	100	24	23.63	23.55	23.69		23.5	0.5	
20	HQAM	100	49	23.60	23.60	23.57		22	2	
20	HQAM	1	99	23.48	23.46	23.56				
20	HQAM	50	0	23.84	23.70	23.86		21	3	
20	HQAM	50	24	23.58	23.60	23.76				
20	HQAM	50	50	23.64	23.60	23.71				
20	HQAM	100	0	23.67	23.71	23.81				
20	25QAM	1	0	18.42	18.31	18.52		19	5	
20	25QAM	1	49	18.39	18.38	18.52				
20	25QAM	1	99	18.22	18.31	18.28				
20	25QAM	50	0	18.48	18.48	18.66				
20	25QAM	50	24	18.41	18.48	18.51		19	5	
20	25QAM	50	50	18.43	18.35	18.48				
20	25QAM	100	0	18.52	18.46	18.55				
Channel										
39725 39785 39800 39815 39830										
Frequency (MHz)										
15	QPSK	1	0	23.33	23.45	23.33				
15	QPSK	1	37	23.30	23.19	23.40		24.00	0	
15	QPSK	1	74	23.20	23.17	23.30				
15	QPSK	36	0	23.28	23.38	23.48				
15	QPSK	36	20	23.30	23.30	23.39		23	1	
15	QPSK	36	50	23.38						



Band 41 PC2 Ant 3											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up Int (dBm)	MPE (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	25.79	25.82	25.90	25.93	25.79	25.82	26.5	0
20	QPSK	1	49	25.72	25.64	25.89	25.75	25.87	25.87		
20	QPSK	1	99	25.60	25.69	25.90	25.60	25.84	25.84		
20	QPSK	50	0	25.50	25.54	25.71	25.50	25.47	25.47		
20	QPSK	50	24	25.41	25.45	25.54	25.52	25.38	25.38	26.5	0
20	QPSK	50	49	25.38	25.65	25.72	25.38	25.50	25.50		
20	QPSK	100	0	25.37	25.49	25.64	25.30	25.35	25.35		
20	HQAM	1	0	25.69	25.75	25.84	25.83	25.72	25.72	26.5	0
20	HQAM	1	49	25.65	25.67	25.82	25.70	25.80	25.80		
20	HQAM	1	99	25.58	25.59	25.74	25.70	25.85	25.85		
20	HQAM	50	0	25.49	25.55	25.72	25.38	25.54	25.54		
20	HQAM	50	24	25.42	25.50	25.60	25.47	25.41	25.41	26.5	0
20	HQAM	50	49	25.41	25.47	25.56	25.46	25.39	25.39		
20	HQAM	100	0	25.45	25.50	25.74	25.55	25.55	25.55		
20	HQAM	100	49	25.61	25.65	25.75	25.65	25.59	25.59	26.5	0
20	HQAM	1	99	25.65	25.69	25.81	25.57	25.44	25.44		
20	HQAM	50	0	25.51	25.64	25.75	25.64	25.55	25.55		
20	HQAM	50	24	24.50	24.65	24.65	24.56	24.45	24.45	26.5	1
20	HQAM	50	50	24.32	24.44	24.50	24.47	24.37	24.37		
20	HQAM	100	0	24.52	24.65	24.61	24.56	24.45	24.45		
20	HQAM	100	49	21.73	21.82	21.95	21.79	21.73	21.73	22.5	4
20	HQAM	1	49	21.72	21.81	21.93	21.78	21.71	21.71		
20	HQAM	1	99	21.56	21.67	21.71	21.71	21.67	21.67		
20	HQAM	50	0	21.61	21.62	21.74	21.65	21.57	21.57		
20	HQAM	50	24	21.55	21.58	21.58	21.62	21.59	21.59	22.5	4
20	HQAM	50	50	21.41	21.54	21.61	21.52	21.39	21.39		
20	HQAM	100	0	21.62	21.63	21.69	21.62	21.50	21.50		
Channel											
Frequency (MHz)											
15	QPSK	1	0	25.74	25.73	25.90	25.73	25.59	25.59	27	0
15	QPSK	1	37	25.82	25.88	25.72	25.70	25.84	25.84		
15	QPSK	1	74	25.84	25.80	25.84	25.70	25.84	25.84		
15	QPSK	38	0	25.30	25.42	25.60	25.47	25.43	25.43	26.5	0
15	QPSK	38	20	25.32	25.34	25.43	25.38	25.29	25.29		
15	QPSK	38	39	25.33	25.40	25.40	25.38	25.34	25.34		
15	QPSK	75	0	25.29	25.43	25.61	25.42	25.20	25.20	26.5	0
15	HQAM	1	0	25.58	25.62	25.81	25.77	25.68	25.68		
15	HQAM	1	37	25.51	25.63	25.60	25.64	25.54	25.54	26.5	0
15	HQAM	1	74	25.53	25.58	25.64	25.63	25.44	25.44		
15	HQAM	38	0	25.45	25.61	25.69	25.47	25.45	25.45	26.5	0
15	HQAM	38	20	25.31	25.40	25.44	25.34	25.27	25.27		
15	HQAM	75	0	25.37	25.43	25.66	25.43	25.33	25.33	26.5	0
15	HQAM	1	0	25.54	25.68	25.79	25.57	25.47	25.47		
15	HQAM	1	37	25.57	25.61	25.69	25.60	25.53	25.53	26.5	0
15	HQAM	1	74	25.31	25.46	25.46	25.33	25.37	25.37		
15	HQAM	38	0	24.42	24.53	24.62	24.52	24.43	24.43	26.5	1
15	HQAM	38	20	24.38	24.47	24.61	24.42	24.41	24.41		
15	HQAM	38	39	24.34	24.44	24.60	24.40	24.32	24.32		
15	HQAM	75	0	24.44	24.52	24.57	24.51	24.41	24.41	22.5	4
15	HQAM	1	0	21.63	21.70	21.81	21.66	21.62	21.62	22.5	4
15	HQAM	1	37	21.65	21.69	21.80	21.68	21.64	21.64		
15	HQAM	1	74	21.50	21.59	21.68	21.68	21.56	21.56		
15	HQAM	38	0	21.47	21.50	21.67	21.61	21.43	21.43	22.5	4
15	HQAM	38	20	21.44	21.48	21.60	21.56	21.55	21.55		
15	HQAM	38	39	21.33	21.40	21.57	21.43	21.33	21.33		
15	HQAM	75	0	21.58	21.58	21.72	21.51	21.45	21.45	22.5	4
Channel											
Frequency (MHz)											
10	QPSK	1	0	25.81	25.81	25.90	25.89	25.89	25.89	27	0
10	QPSK	1	25	25.64	25.53	25.82	25.62	25.58	25.58		
10	QPSK	1	49	25.65	25.62	25.84	25.72	25.54	25.54		
10	QPSK	12	0	25.61	25.63	25.80	25.66	25.64	25.64	26.5	0
10	QPSK	25	12	25.31	25.36	25.43	25.44	25.34	25.34		
10	QPSK	25	25	25.29	25.37	25.43	25.38	25.20	25.20		
10	QPSK	50	0	25.30	25.35	25.47	25.44	25.29	25.29	26.5	0
10	HQAM	1	0	25.69	25.69	25.90	25.72	25.81	25.81		
10	HQAM	1	25	25.59	25.67	25.80	25.67	25.62	25.62	26.5	0
10	HQAM	1	49	25.48	25.67	25.69	25.61	25.51	25.51		
10	HQAM	25	0	25.44	25.40	25.61	25.48	25.44	25.44	26.5	0
10	HQAM	25	12	25.33	25.46	25.56	25.40	25.29	25.29		
10	HQAM	25	25	25.28	25.39	25.47	25.37	25.30	25.30	26.5	0
10	HQAM	50	0	25.41	25.44	25.62	25.47	25.46	25.46		
10	HQAM	50	12	25.42	25.55	25.74	25.56	25.40	25.40	26.5	0
10	HQAM	50	25	25.57	25.58	25.60	25.55	25.55	25.55		
10	HQAM	1	49	25.34	25.53	25.53	25.50	25.37	25.37	26.5	0
10	HQAM	25	0	24.38	24.47	24.60	24.50	24.40	24.40	26.5	1
10	HQAM	25	12	24.44	24.52	24.62	24.53	24.32	24.32		
10	HQAM	25	25	24.22	24.30	24.46	24.40	24.32	24.32		
10	HQAM	50	0	24.45	24.55	24.54	24.52	24.35	24.35	22.5	4
10	HQAM	50	12	21.63	21.79	21.84	21.69	21.64	21.64		
10	HQAM	1	25	21.65	21.63	21.86	21.64	21.64	21.64	22.5	4
10	HQAM	1	49	21.49	21.55	21.65	21.65	21.55	21.55		
10	HQAM	25	0	21.57	21.51	21.67	21.61	21.53	21.53		
10	HQAM	25	12	21.62	21.63	21.66	21.67	21.52	21.52	22.5	4
10	HQAM	25	25	21.35	21.47	21.55	21.45	21.31	21.31		
10	HQAM	50	0	21.44	21.55	21.77	21.50	21.47	21.47	22.5	4
Channel											
Frequency (MHz)											
5	QPSK	1	0	25.70	25.67	25.90	25.74	25.60	25.60	27	0
5	QPSK	1	12	25.69	25.59	25.81	25.72	25.58	25.58		
5	QPSK	1	24	25.65	25.59	25.80	25.77	25.55	25.55		
5	QPSK	12	0	25.64	25.42	25.60	25.48	25.40	25.40	26.5	0
5	QPSK	12	7	25.34	25.35	25.49	25.43	25.33	25.33		
5	QPSK	12	13	25.25	25.34	25.40	25.39	25.25	25.25		
5	QPSK	25	0	25.36	25.44	25.49	25.59	25.37	25.37	26.5	0
5	HQAM	1	0	25.69	25.66	25.81	25.76	25.61	25.61		
5	HQAM	1	12	25.58	25.69	25.79	25.61	25.51	25.51	26.5	0
5	HQAM	1	24	25.43	25.61	25.60	25.59	25.46	25.46		
5	HQAM	12	0	25.38	25.47	25.62	25.48	25.41	25.41	26.5	0
5	HQAM	12	7	25.35	25.38	25.49	25.33	25.37	25.37		
5	HQAM	12	13	25.32	25.35	25.44	25.37	25.33	25.33	26.5	0
5	HQAM	25	0	25.31	25.38	25.69	25.48	25.41	25.41		
5	HQAM	1	0	25.53	25.62	25.73	25.52	25.45	25.45	26.5	0
5	HQAM	1	12	25.57	25.63	25.66	25.61	25.53	25.53		
5	HQAM	1	24	25.30	25.34	25.58	25.52	25.32	25.32		
5	HQAM	12	0	24.40	24.67	24.66	24.59	24.43	24.43	26.5	1
5	HQAM	12	7	24.40	24.30	24.57	24.40	24.41	24.41		
5	HQAM	12	13	24.27	24.30	24.46	24.39	24.23	24.23		
5	HQAM	25	0	24.43	24.63						



Reduced Power Mode for DSIS-Simultaneous

S/N	Component	Default				Default (WCDMA V Aerb)				
		Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	
Default WCDMA V Aerb										
Base	TX Channel	198	195	201	198	195	201	198	195	201
Frequency (MHz)		893.2	893.4	893.6	893.2	893.4	893.6	893.2	893.4	893.6
OPRR-1 Tx (dB)		32.90	32.57	32.94	33.50	33.00	33.07	33.04	34.50	34.50
OPRR-2 Tx (dB)		32.85	32.90	32.91	33.50	33.83	33.94	33.95	34.50	34.50
OPRR-3 Tx (dB)		29.30	29.41	29.28	30.50	31.30	31.41	31.28	32.50	32.50
OPRR-4 Tx (dB)		28.91	28.95	28.86	30.00	24.85	24.72	24.80	26.50	26.50
EDGE-1 Tx (dB)		25.40	25.41	25.40	27.50	25.41	25.41	25.40	24.50	24.50
EDGE-2 Tx (dB)		23.40	23.40	23.37	26.50	19.42	19.46	19.37	17.50	17.50
EDGE-3 Tx (dB)		23.77	23.80	23.79	26.50	17.77	17.80	17.79	19.50	19.50
EDGE-4 Tx (dB)		22.88	22.89	22.82	23.50	18.40	18.43	18.38	19.24	19.24
EDGE-5 Tx (dB)		20.50	20.60	20.60	21.50	17.50	17.43	17.60	18.50	18.50
Default WCDMA V Aerb										
Base	TX Channel	512	503	500	512	503	500	512	503	500
Frequency (MHz)		27.67	27.68	27.67	28.50	18.41	18.50	18.52	19.50	19.50
OPRR-1 Tx (dB)		27.84	27.81	27.88	28.50	18.54	18.63	18.58	19.50	19.50
OPRR-2 Tx (dB)		24.94	24.94	24.93	26.50	18.94	18.94	18.93	20.50	20.50
OPRR-3 Tx (dB)		23.53	23.50	23.53	24.50	19.07	19.11	19.07	20.54	20.54
OPRR-4 Tx (dB)		20.70	20.70	20.88	21.50	17.70	17.75	17.89	18.50	18.50
EDGE-1 Tx (dB)		22.39	22.67	22.73	23.50	19.79	19.87	19.73	14.50	14.50
EDGE-2 Tx (dB)		21.00	21.10	21.11	22.00	18.00	18.50	18.11	18.50	18.50
EDGE-3 Tx (dB)		20.07	20.12	20.04	21.00	15.91	15.98	15.76	16.74	16.74
EDGE-4 Tx (dB)		17.86	18.00	18.04	19.00	14.96	15.09	15.04	16.00	16.00
Default WCDMA V Aerb										
Base	TX Channel	9302	9400	9338	13192	1413	1513	1413	4192	4232
Frequency (MHz)		1850.4	1890	1907.6	1718.4	1724.8	1752.8	1752.8	1896.4	1906.4
ISPP-1 (dB)		22.07	23.05	23.53	21.70	20.30	20.47	20.38	21.00	21.43
ISPP-2 (dB)		20.82	20.60	20.67	21.70	20.45	20.51	20.41	21.00	22.45
ISPP-3 (dB)		19.72	19.76	19.70	20.70	19.59	19.66	19.50	21.50	21.60
ISPP-4 (dB)		19.08	19.71	19.65	20.70	19.90	19.93	19.92	21.60	21.54
ISPP-5 (dB)		19.19	19.20	19.21	20.20	19.00	19.11	19.08	21.61	21.64
ISPP-6 (dB)		19.15	19.30	19.21	20.20	19.90	19.18	19.03	20.98	21.04
ISPP-7 (dB)		19.70	19.85	19.84	20.70	19.54	19.68	19.48	20.95	21.55
ISPP-8 (dB)		19.50	19.50	19.41	20.20	19.38	19.40	19.32	20.95	21.62
ISPP-9 (dB)		19.08	19.12	19.05	20.20	19.02	19.03	19.89	20.95	20.93
ISPP-10 (dB)		19.02	19.15	19.12	20.20	19.90	19.00	19.01	20.89	21.00
ISPP-11 (dB)		19.06	19.21	19.70	20.70	19.95	19.93	19.91	21.61	21.68
ISPP-12 (dB)		17.71	17.70	17.64	18.70	17.64	17.60	17.61	19.87	19.83
ISPP-13 (dB)		18.66	18.71	18.70	19.20	19.92	19.98	19.99	20.92	20.91
ISPP-14 (dB)		17.81	17.80	17.87	18.70	17.44	17.51	17.48	19.40	19.42
ISPP-15 (dB)		19.94	19.90	19.92	20.70	19.93	19.48	19.38	21.50	21.44



Band 2 DSI5_Simultaneous Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (min)	MFR (dB)		
Channel	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.				
20	QPSK	1	0	20.11	20.16	20.20				
20	QPSK	1	49	20.23	20.28	20.32				
20	QPSK	1	99	20.39	20.47	20.55				
20	QPSK	50	0	20.38	20.43	20.50				
20	QPSK	50	24	20.44	20.48	20.52				
20	QPSK	50	50	20.52	20.54	20.56				
20	QPSK	100	0	20.59	20.62	20.65				
20	QPSK	100	24	20.65	20.68	20.71				
20	QPSK	100	49	20.71	20.74	20.77				
20	QPSK	150	0	20.76	20.79	20.82				
20	QPSK	150	24	20.82	20.85	20.88				
20	QPSK	150	49	20.88	20.91	20.94				
20	QPSK	150	74	20.94	20.97	21.00				
20	QPSK	150	99	21.00	21.03	21.06				
20	QPSK	150	124	21.06	21.09	21.12				
20	QPSK	150	149	21.12	21.15	21.18				
20	QPSK	150	174	21.18	21.21	21.24				
20	QPSK	150	199	21.24	21.27	21.30				
20	QPSK	150	224	21.30	21.33	21.36				
20	QPSK	150	249	21.36	21.39	21.42				
20	QPSK	150	274	21.42	21.45	21.48				
20	QPSK	150	299	21.48	21.51	21.54				
20	QPSK	150	324	21.54	21.57	21.60				
20	QPSK	150	349	21.60	21.63	21.66				
20	QPSK	150	374	21.66	21.69	21.72				
20	QPSK	150	399	21.72	21.75	21.78				
20	QPSK	150	424	21.78	21.81	21.84				
20	QPSK	150	449	21.84	21.87	21.90				
20	QPSK	150	474	21.90	21.93	21.96				
20	QPSK	150	499	21.96	21.99	22.02				
20	QPSK	150	524	22.02	22.05	22.08				
20	QPSK	150	549	22.08	22.11	22.14				
20	QPSK	150	574	22.14	22.17	22.20				
20	QPSK	150	599	22.20	22.23	22.26				
20	QPSK	150	624	22.26	22.29	22.32				
20	QPSK	150	649	22.32	22.35	22.38				
20	QPSK	150	674	22.38	22.41	22.44				
20	QPSK	150	699	22.44	22.47	22.50				
20	QPSK	150	724	22.50	22.53	22.56				
20	QPSK	150	749	22.56	22.59	22.62				
20	QPSK	150	774	22.62	22.65	22.68				
20	QPSK	150	799	22.68	22.71	22.74				
20	QPSK	150	824	22.74	22.77	22.80				
20	QPSK	150	849	22.80	22.83	22.86				
20	QPSK	150	874	22.86	22.89	22.92				
20	QPSK	150	899	22.92	22.95	22.98				
20	QPSK	150	924	22.98	23.01	23.04				
20	QPSK	150	949	23.04	23.07	23.10				
20	QPSK	150	974	23.10	23.13	23.16				
20	QPSK	150	999	23.16	23.19	23.22				
20	QPSK	150	1024	23.22	23.25	23.28				
20	QPSK	150	1049	23.28	23.31	23.34				
20	QPSK	150	1074	23.34	23.37	23.40				
20	QPSK	150	1099	23.40	23.43	23.46				
20	QPSK	150	1124	23.46	23.49	23.52				
20	QPSK	150	1149	23.52	23.55	23.58				
20	QPSK	150	1174	23.58	23.61	23.64				
20	QPSK	150	1199	23.64	23.67	23.70				
20	QPSK	150	1224	23.70	23.73	23.76				
20	QPSK	150	1249	23.76	23.79	23.82				
20	QPSK	150	1274	23.82	23.85	23.88				
20	QPSK	150	1299	23.88	23.91	23.94				
20	QPSK	150	1324	23.94	23.97	24.00				
20	QPSK	150	1349	24.00	24.03	24.06				
20	QPSK	150	1374	24.06	24.09	24.12				
20	QPSK	150	1399	24.12	24.15	24.18				
20	QPSK	150	1424	24.18	24.21	24.24				
20	QPSK	150	1449	24.24	24.27	24.30				
20	QPSK	150	1474	24.30	24.33	24.36				
20	QPSK	150	1499	24.36	24.39	24.42				
20	QPSK	150	1524	24.42	24.45	24.48				
20	QPSK	150	1549	24.48	24.51	24.54				
20	QPSK	150	1574	24.54	24.57	24.60				
20	QPSK	150	1599	24.60	24.63	24.66				
20	QPSK	150	1624	24.66	24.69	24.72				
20	QPSK	150	1649	24.72	24.75	24.78				
20	QPSK	150	1674	24.78	24.81	24.84				
20	QPSK	150	1699	24.84	24.87	24.90				
20	QPSK	150	1724	24.90	24.93	24.96				
20	QPSK	150	1749	24.96	24.99	25.02				
20	QPSK	150	1774	25.02	25.05	25.08				
20	QPSK	150	1799	25.08	25.11	25.14				
20	QPSK	150	1824	25.14	25.17	25.20				
20	QPSK	150	1849	25.20	25.23	25.26				
20	QPSK	150	1874	25.26	25.29	25.32				
20	QPSK	150	1899	25.32	25.35	25.38				
20	QPSK	150	1924	25.38	25.41	25.44				
20	QPSK	150	1949	25.44	25.47	25.50				
20	QPSK	150	1974	25.50	25.53	25.56				
20	QPSK	150	1999	25.56	25.59	25.62				
20	QPSK	150	2024	25.62	25.65	25.68				
20	QPSK	150	2049	25.68	25.71	25.74				
20	QPSK	150	2074	25.74	25.77	25.80				
20	QPSK	150	2099	25.80	25.83	25.86				
20	QPSK	150	2124	25.86	25.89	25.92				
20	QPSK	150	2149	25.92	25.95	25.98				
20	QPSK	150	2174	25.98	26.01	26.04				
20	QPSK	150	2199	26.04	26.07	26.10				
20	QPSK	150	2224	26.10	26.13	26.16				
20	QPSK	150	2249	26.16	26.19	26.22				
20	QPSK	150	2274	26.22	26.25	26.28				
20	QPSK	150	2299	26.28	26.31	26.34				
20	QPSK	150	2324	26.34	26.37	26.40				
20	QPSK	150	2349	26.40	26.43	26.46				
20	QPSK	150	2374	26.46	26.49	26.52				
20	QPSK	150	2399	26.52	26.55	26.58				
20	QPSK	150	2424	26.58	26.61	26.64				
20	QPSK	150	2449	26.64	26.67	26.70				
20	QPSK	150	2474	26.70	26.73	26.76				
20	QPSK	150	2499	26.76	26.79	26.82				
20	QPSK	150	2524	26.82	26.85	26.88				
20	QPSK	150	2549	26.88	26.91	26.94				
20	QPSK	150	2574	26.94	26.97	27.00				
20	QPSK	150	2599	27.00	27.03	27.06				
20	QPSK	150	2624	27.06	27.09	27.12				
20	QPSK	150	2649	27.12	27.15	27.18				
20	QPSK	150	2674	27.18	27.21	27.24				
20	QPSK	150	2699	27.24	27.27	27.30				
20	QPSK	150	2724	27.30	27.33	27.36				
20	QPSK	150	2749	27.36	27.39	27.42				
20	QPSK	150	2774	27.42	27.45	27.48				
20	QPSK	150	2799	27.48	27.51	27.54				
20	QPSK	150	2824	27.54	27.57	27.60				
20	QPSK	150	2849	27.60	27.63	27.66				
20	QPSK	150	2874	27.66	27.69	27.72				
20	QPSK	150	2899	27.72	27.75	27.78				
20	QPSK	150	2924	27.78	27.81	27				



Band 25 DSI5_Simultaneous Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Time-up (min)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.16	23.21	23.18				
20	QPSK	1	49	23.03	23.08	23.05			24	0
20	QPSK	1	99	22.97	23.01	23.03				
20	QPSK	50	0	23.00	23.15	23.05				
20	QPSK	50	24	22.92	23.03	23.05				
20	QPSK	50	50	22.88	22.99	22.88			24	0
20	QPSK	100	0	22.91	23.01	22.92				
20	16QAM	1	0	22.96	22.99	22.91				
20	16QAM	1	49	22.84	22.99	22.95			24	0
20	16QAM	1	99	22.81	22.87	22.80				
20	16QAM	50	0	22.79	22.99	22.83				
20	16QAM	50	24	22.75	22.90	22.75			23.5	0.5
20	16QAM	50	50	22.61	22.72	22.70				
20	16QAM	100	0	22.62	22.69	22.61				
20	64QAM	1	0	22.86	23.05	22.91			23.5	0.5
20	64QAM	1	49	22.79	22.95	22.87				
20	64QAM	1	99	21.92	21.99	21.79				
20	64QAM	50	0	21.78	21.79	21.74			22.5	1.5
20	64QAM	50	24	21.69	21.66	21.64				
20	64QAM	50	50	21.78	21.95	21.72				
20	256QAM	1	0	19.76	19.95	19.83			20.5	3.5
20	256QAM	1	49	19.77	19.85	19.78				
20	256QAM	1	99	19.76	19.82	19.81				
20	256QAM	50	0	19.77	19.90	19.74			20.5	3.5
20	256QAM	50	24	19.77	19.74	19.71				
20	256QAM	50	50	19.70	19.74	19.71				
20	256QAM	100	0	19.62	19.74	19.61				
Channel										
Frequency (MHz)										
19	QPSK	1	0	23.05	23.13	23.04				
19	QPSK	1	37	22.99	22.99	22.90			24	0
19	QPSK	1	74	22.84	22.90	22.87				
19	QPSK	36	0	22.94	23.01	22.85				
19	QPSK	36	25	22.82	22.96	22.89				
19	QPSK	36	39	22.84	22.95	22.75			24	0
19	QPSK	75	0	22.77	22.99	22.74				
19	16QAM	1	0	22.92	22.96	22.84				
19	16QAM	1	37	22.81	22.87	22.85			24	0
19	16QAM	1	74	22.66	22.84	22.81				
19	16QAM	36	0	22.70	22.81	22.75			23.5	0.5
19	16QAM	36	29	22.68	22.69	22.62				
19	16QAM	36	29	22.62	22.69	22.67				
19	16QAM	75	0	22.49	22.53	22.50				
19	64QAM	1	0	22.74	22.90	22.77			23.5	0.5
19	64QAM	1	37	22.67	22.86	22.81				
19	64QAM	1	74	22.70	22.65	22.65				
19	64QAM	36	0	21.74	21.85	21.85			22.5	1.5
19	64QAM	36	25	21.67	21.68	21.68				
19	64QAM	36	39	21.68	21.73	21.59				
19	64QAM	75	0	21.65	21.64	21.60				
19	256QAM	1	0	19.76	19.79	19.79			20.5	3.5
19	256QAM	1	37	19.75	19.79	19.79				
19	256QAM	1	74	19.67	19.70	19.73				
19	256QAM	36	0	19.76	19.82	19.81				
19	256QAM	36	29	19.69	19.87	19.80			20.5	3.5
19	256QAM	36	39	19.67	19.70	19.61				
19	256QAM	75	0	19.65	19.68	19.65				
Channel										
Frequency (MHz)										
19	QPSK	1	0	23.03	23.09	23.00				
19	QPSK	1	25	22.94	22.92	22.98			24	0
19	QPSK	1	49	22.90	22.95	22.90				
19	QPSK	12	0	22.86	22.94	22.89				
19	QPSK	25	12	22.87	22.85	22.83				
19	QPSK	25	25	22.84	22.85	22.71			24	0
19	16QAM	1	0	22.80	22.80	22.80				
19	16QAM	1	0	22.90	22.95	22.83				
19	16QAM	1	24	22.81	22.91	22.88			24	0
19	16QAM	1	49	22.66	22.79	22.68				
19	16QAM	25	0	22.74	22.80	22.70			23.5	0.5
19	16QAM	25	12	22.62	22.68	22.67				
19	16QAM	25	12	22.62	22.62	22.61				
19	16QAM	50	0	22.57	22.65	22.54				
19	64QAM	1	0	22.82	22.91	22.85			23.5	0.5
19	64QAM	1	24	22.64	22.68	22.68				
19	64QAM	1	49	22.72	22.76	22.71				
19	64QAM	25	0	21.79	21.84	21.68			22.5	1.5
19	64QAM	25	12	21.74	21.77	21.61				
19	64QAM	50	0	21.62	21.66	21.62				
19	256QAM	1	0	19.80	19.84	19.81			20.5	3.5
19	256QAM	1	24	19.68	19.75	19.72				
19	256QAM	1	49	19.74	19.73	19.73				
19	256QAM	12	0	19.65	19.81	19.77				
19	256QAM	12	7	19.71	19.83	19.68			20.5	3.5
19	256QAM	12	7	19.65	19.61	19.60				
19	256QAM	25	0	19.66	19.61	19.60				
19	256QAM	25	0	19.55	19.67	19.63				
Channel										
Frequency (MHz)										
19	QPSK	1	0	23.03	23.09	23.00				
19	QPSK	1	12	22.95	22.92	23.03			24	0
19	QPSK	1	24	22.86	22.90	22.95				
19	QPSK	12	0	22.86	23.04	22.92				
19	QPSK	12	7	22.88	23.00	22.84			24	0
19	QPSK	12	13	22.77	22.88	22.79				
19	QPSK	15	0	22.77	22.84	22.68				
19	16QAM	1	0	22.88	23.04	22.88			24	0
19	16QAM	1	12	22.88	22.90	22.87				
19	16QAM	1	24	22.67	22.73	22.73				
19	16QAM	12	0	22.70	22.84	22.73			23.5	0.5
19	16QAM	12	7	22.71	22.70	22.63				
19	16QAM	12	13	22.60	22.60	22.60				
19	16QAM	25	0	22.65	22.62	22.61				
19	64QAM	1	0	22.78	22.88	22.88			23.5	0.5
19	64QAM	1	12	22.71	22.62	22.61				
19	64QAM	1	24	22.65	22.69	22.76				
19	64QAM	12	0	21.78	21.84	21.70			22.5	1.5
19	64QAM	12	7	21.70	21.65	21.70				
19	64QAM	12	13	21.68	21.79	21.68				
19	64QAM	25	0	21.60	21.64	21.60				
19	256QAM	1	0	19.75	19.86	19.88			20.5	3.5
19	256QAM	1	12	19.71	19.82	19.75				
19	256QAM	1	24	19.68	19.75	19.74				
19	256QAM	12	0	19.76	19.85	19.84				
19	256QAM	12	7	19.68	19.78	19.59			20.5	3.5
19	256QAM	12	13	19.61	19.64	19.64				
19	256QAM	25	0	19.57	19.64	19.54				
Channel										
Frequency (MHz)										
19	QPSK	1	0	23.02	23.15	23.15				
19	QPSK	1	8	22.98	22.95	22.96			24	0
19	QPSK	1	14	22.94	22.93	22.99				
19	QPSK	8	0	22.94	23.05	22.98				
19	QPSK	8	4	22.80	22.97	22.91			24	0
19	QPSK	8	7	22.75	22.84	22.78				
19	QPSK	15	0	22.83	22.89	22.80				
19	16QAM	1	0	22.84	23.02	22.85			24	0
19	16QAM	1	8	22.89	22.86	22.87				
19	16QAM	1	14	22.77	22.75	22.66			23.5	0.5
19	16QAM	8	0	22.66	22.87	22.79				
19	16QAM	8	4	22.65	22.65	22.67				
19	16QAM	15	0	22.97	22.69	22.67				
19	64QAM	1	0	22.48	22.60	22.53			23.5	0.5
19	64QAM	1	8	22.75	22.92	22.80				



Band 66 DSIS_Simultaneous Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Turn-up (min)	APR (dB)		
Channel										
	Frequency (MHz)			1750	1748	1770				
20	QPSK	1	0	20.71	20.76	20.83	21.0	0		
20	QPSK	1	48	20.83	20.72	20.82				
20	QPSK	1	96	20.48	20.68	20.87				
20	QPSK	50	0	20.57	20.67	20.54				
20	QPSK	50	24	20.54	20.62	20.47				
20	QPSK	50	50	20.50	20.68	20.59				
20	QPSK	100	0	20.49	20.65	20.53				
20	16QAM	1	0	20.51	20.52	20.37	21.0	0		
20	16QAM	1	48	20.50	20.69	20.58				
20	16QAM	1	96	20.49	20.65	20.43				
20	16QAM	50	0	20.51	20.59	20.54				
20	16QAM	50	24	20.55	20.52	20.57				
20	16QAM	50	50	20.46	20.62	20.52				
20	16QAM	100	0	20.55	20.60	20.54				
20	64QAM	1	0	20.44	20.51	20.38	21.0	0		
20	64QAM	1	48	20.41	20.46	20.46				
20	64QAM	1	96	20.42	20.47	20.53				
20	64QAM	50	0	20.55	20.59	20.46				
20	64QAM	50	24	20.50	20.63	20.53				
20	64QAM	50	50	20.53	20.50	20.50				
20	64QAM	100	0	20.48	20.45	20.41				
20	256QAM	1	48	18.99	18.97	18.99	20.5	1.4		
20	256QAM	1	96	18.81	18.84	18.83				
20	256QAM	50	0	18.74	18.88	18.88				
20	256QAM	50	24	18.78	18.80	18.74				
20	256QAM	50	50	18.69	18.77	18.73				
20	256QAM	100	0	18.71	18.70	18.68				
Channel										
	Frequency (MHz)			13047	13032	13067	Turn-up (min)	APR (dB)		
15	QPSK	1	0	20.56	20.70	20.59	21.0	0		
15	QPSK	1	32	20.55	20.66	20.63				
15	QPSK	1	74	20.36	20.52	20.48				
15	QPSK	36	0	20.49	20.57	20.41				
15	QPSK	36	20	20.44	20.50	20.39				
15	QPSK	36	36	20.42	20.58	20.54				
15	QPSK	75	0	20.41	20.46	20.44	21.0	0		
15	16QAM	1	0	20.43	20.36	20.27				
15	16QAM	1	32	20.45	20.58	20.51				
15	16QAM	1	74	20.33	20.49	20.48				
15	16QAM	36	0	20.49	20.58	20.53				
15	16QAM	36	20	20.49	20.55	20.53				
15	16QAM	75	0	20.49	20.55	20.51				
15	64QAM	1	0	20.33	20.46	20.24	21.0	0		
15	64QAM	1	32	20.36	20.46	20.38				
15	64QAM	1	74	20.32	20.32	20.49				
15	64QAM	36	0	20.47	20.44	20.38				
15	64QAM	36	20	20.42	20.45	20.47				
15	64QAM	36	36	20.50	20.52	20.39				
15	64QAM	75	0	20.41	20.40	20.36				
15	256QAM	1	48	18.78	18.80	18.80	20.5	1.4		
15	256QAM	1	96	18.92	18.80	18.80				
15	256QAM	50	0	18.73	18.73	18.80				
15	256QAM	50	24	18.88	18.69	18.63				
15	256QAM	50	50	18.63	18.63	18.68				
Channel										
	Frequency (MHz)			17715	17745	17775	Turn-up (min)	APR (dB)		
10	QPSK	1	0	20.17	20.46	20.42	21.0	0		
10	QPSK	1	25	20.56	20.60	20.56				
10	QPSK	1	49	20.44	20.61	20.47				
10	QPSK	25	0	20.43	20.49	20.49				
10	QPSK	25	12	20.49	20.51	20.39				
10	QPSK	25	25	20.37	20.62	20.52				
10	QPSK	50	0	20.45	20.45	20.44				
10	16QAM	1	0	20.44	20.49	20.22	21.0	0		
10	16QAM	1	25	20.46	20.54	20.46				
10	16QAM	1	49	20.33	20.60	20.50				
10	16QAM	25	0	20.53	20.48	20.48				
10	16QAM	25	12	20.48	20.55	20.43				
10	16QAM	25	25	20.38	20.42	20.38				
10	16QAM	50	0	20.47	20.53	20.49				
10	64QAM	1	0	20.37	20.46	20.24	21.0	0		
10	64QAM	1	25	20.36	20.50	20.44				
10	64QAM	1	49	20.31	20.42	20.44				
10	64QAM	25	0	20.51	20.53	20.34				
10	64QAM	25	12	20.43	20.52	20.38				
10	64QAM	25	25	20.47	20.54	20.41				
10	64QAM	50	0	20.36	20.36	20.34				
10	256QAM	1	48	18.76	18.80	18.81	20.5	1.4		
10	256QAM	1	25	18.79	18.82	18.80				
10	256QAM	1	49	18.73	18.70	18.77				
10	256QAM	25	0	18.71	18.82	18.74				
10	256QAM	25	12	18.75	18.81	18.83				
10	256QAM	25	25	18.80	18.65	18.62				
10	256QAM	50	0	18.63	18.67	18.63				
Channel										
	Frequency (MHz)			18197	18202	18247	Turn-up (min)	APR (dB)		
5	QPSK	1	0	20.53	20.32	20.42	21.0	0		
5	QPSK	1	12	20.51	20.52	20.59				
5	QPSK	1	24	20.40	20.50	20.51				
5	QPSK	12	0	20.50	20.52	20.43				
5	QPSK	12	7	20.50	20.40	20.44				
5	QPSK	12	13	20.45	20.55	20.49				
5	QPSK	25	0	20.47	20.46	20.44				
5	16QAM	1	0	20.43	20.41	20.24	21.0	0		
5	16QAM	1	12	20.42	20.58	20.49				
5	16QAM	1	24	20.35	20.46	20.35				
5	16QAM	12	0	20.49	20.51	20.47				
5	16QAM	12	7	20.52	20.58	20.52				
5	16QAM	12	13	20.36	20.50	20.48				
5	16QAM	25	0	20.47	20.56	20.50				
5	64QAM	1	0	20.36	20.42	20.31	21.0	0		
5	64QAM	1	12	20.32	20.51	20.34				
5	64QAM	1	24	20.29	20.43	20.42				
5	64QAM	12	0	20.43	20.56	20.38				
5	64QAM	12	7	20.45	20.52	20.39				
5	64QAM	12	13	20.46	20.50	20.37				
5	64QAM	25	0	20.36	20.30	20.26				
5	256QAM	1	48	18.76	18.80	18.80	20.5	1.4		
5	256QAM	1	12	18.77	18.84	18.80				
5	256QAM	1	24	18.71	18.76	18.76				
5	256QAM	12	0	18.72	18.80	18.71				
5	256QAM	12	7	18.71	18.72	18.69				
5	256QAM	12	13	18.69	18.66	18.61				
5	256QAM	25	0	18.62	18.61	18.61				
Channel										
	Frequency (MHz)			18167	18202	18267	Turn-up (min)	APR (dB)		
3	QPSK	1	0	20.58	20.71	20.51	21.0	0		
3	QPSK	1	8	20.52	20.67	20.63				
3	QPSK	1	14	20.35	20.56	20.47				
3	QPSK	8	0	20.49	20.61	20.49				
3	QPSK	8	4	20.48	20.51	20.32				
3	QPSK	8	7	20.35	20.51	20.53				
3	QPSK	15	0	20.35	20.49	20.42				
3	16QAM	1	0	20.39	20.42	20.23	21.0	0		
3	16QAM	1	8	20.46	20.64	20.49				
3	16QAM	1	14	20.25	20.51	20.39				
3	16QAM	8	0	20.50	20.54	20.43				
3	16QAM	8	4	20.52	20.53	20.43				
3	16QAM	8	7	20.41	20.56	20.46				
3	16QAM	15	0	20.53	20.62	20.59				
3	64QAM	1	0	20.36	20.46	20.29	21.0	0		
3	64QAM	1	8	20.36	20.46	20.42				



Band 38 Default Ant 0

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)								
20	QPSK	1	0	20.87	20.93	21.00	22	0
20	QPSK	1	49	20.46	20.43	20.46		
20	QPSK	50	24	20.43	20.43	20.43		
20	QPSK	50	0	20.47	20.52	20.53		
20	QPSK	50	24	20.38	20.50	20.42		
20	QPSK	100	0	20.57	20.52	20.53		
20	16QAM	1	0	20.46	20.57	20.59	22	0
20	16QAM	1	49	20.47	20.45	20.46		
20	16QAM	1	99	20.20	20.33	20.40		
20	16QAM	50	0	20.58	20.52	20.54		
20	16QAM	50	24	20.10	20.50	20.55		
20	16QAM	50	50	19.87	20.03	19.96		
20	16QAM	100	0	20.20	20.11	20.06		
20	16QAM	100	0	20.03	20.38	20.03		
20	16QAM	1	49	19.94	20.04	20.16		
20	16QAM	1	99	20.10	20.01	20.06		
20	16QAM	50	0	19.85	20.04	19.95		
20	16QAM	50	24	19.83	19.90	19.89		
20	16QAM	50	50	19.82	19.86	19.83		
20	16QAM	100	0	19.85	19.88	19.79		
20	256QAM	1	0	17.91	18.08	17.94		
20	256QAM	1	49	17.92	18.08	17.92		
20	256QAM	1	99	17.86	17.85	17.87		
20	256QAM	50	0	17.96	18.06	17.97		
20	256QAM	50	24	17.20	17.95	17.30		
20	256QAM	50	50	17.77	17.87	17.81		
20	256QAM	100	0	17.93	18.03	17.94		
Channel								
Frequency (MHz)								
15	QPSK	1	0	21.72	21.95	21.72	22	0
15	QPSK	1	37	20.28	20.38	20.42		
15	QPSK	1	74	20.40	20.38	20.23		
15	QPSK	1	0	20.37	20.38	20.27		
15	QPSK	36	20	20.24	20.39	20.31		
15	QPSK	36	39	20.17	20.27	20.24		
15	QPSK	75	0	20.31	20.39	20.25		
15	16QAM	1	0	20.31	20.44	20.25		
15	16QAM	1	37	20.27	20.37	20.17		
15	16QAM	1	74	20.25	20.23	20.33		
15	16QAM	36	0	19.95	20.20	19.88		
15	16QAM	36	20	19.92	19.92	19.81		
15	16QAM	36	39	19.78	19.93	19.83		
15	16QAM	75	0	19.85	19.99	19.88		
15	16QAM	75	0	19.94	20.23	19.99		
15	16QAM	1	37	19.77	19.97	20.07		
15	16QAM	1	74	20.01	19.99	19.99		
15	16QAM	36	0	19.77	19.81	19.81		
15	16QAM	36	20	19.73	19.86	19.85		
15	16QAM	36	39	19.72	19.78	19.78		
15	16QAM	75	0	19.75	19.85	19.89		
15	256QAM	1	0	17.78	17.97	17.88		
15	256QAM	1	37	17.76	17.94	17.82		
15	256QAM	1	74	17.72	17.82	17.72		
15	256QAM	36	0	17.83	18.00	17.92		
15	256QAM	36	20	17.82	17.89	17.88		
15	256QAM	36	39	17.64	17.77	17.71		
15	256QAM	75	0	17.79	17.96	17.84		
Channel								
Frequency (MHz)								
10	QPSK	1	0	20.56	20.62	20.65	22	0
10	QPSK	1	25	20.31	20.39	20.41		
10	QPSK	1	49	20.35	20.26	20.34		
10	QPSK	12	0	20.37	20.42	20.42		
10	QPSK	25	12	20.24	20.48	20.20		
10	QPSK	25	25	20.17	20.25	20.22		
10	16QAM	1	0	20.34	20.42	20.28		
10	16QAM	1	0	20.32	20.41	20.25		
10	16QAM	1	25	20.22	20.33	20.29		
10	16QAM	1	49	20.16	20.17	20.33		
10	16QAM	25	0	20.04	20.20	19.98		
10	16QAM	25	12	20.04	19.83	19.86		
10	16QAM	25	25	19.81	19.86	19.87		
10	16QAM	50	0	19.86	20.04	19.84		
10	16QAM	1	0	19.98	20.00	20.01		
10	16QAM	1	25	19.82	20.01	20.01		
10	16QAM	1	49	20.06	19.83	20.04		
10	16QAM	25	0	19.81	20.00	19.81		
10	16QAM	25	12	19.71	19.85	19.78		
10	16QAM	25	25	19.74	19.71	19.75		
10	16QAM	50	0	19.80	19.83	19.72		
10	256QAM	1	0	17.81	18.03	17.84		
10	256QAM	1	25	17.72	17.97	17.86		
10	256QAM	1	49	17.71	17.70	17.74		
10	256QAM	25	0	17.84	17.83	17.84		
10	256QAM	25	12	17.96	17.81	17.85		
10	256QAM	25	25	17.05	17.82	17.89		
10	256QAM	50	0	17.85	17.88	17.84		
Channel								
Frequency (MHz)								
5	QPSK	1	0	20.56	20.61	20.38	22	0
5	QPSK	1	19	20.31	20.32	20.37		
5	QPSK	1	24	20.44	20.39	20.33		
5	QPSK	12	0	20.38	20.46	20.50		
5	QPSK	12	7	20.24	20.42	20.38		
5	QPSK	12	19	20.11	20.29	20.18		
5	QPSK	25	0	20.20	20.39	20.28		
5	QPSK	25	0	20.31	20.44	20.23		
5	16QAM	1	12	20.28	20.39	20.16		
5	16QAM	1	24	20.16	20.20	20.26		
5	16QAM	12	0	19.93	20.17	19.96		
5	16QAM	12	7	19.97	19.92	20.00		
5	16QAM	12	13	19.77	19.93	19.89		
5	16QAM	25	0	19.82	19.96	19.83		
5	16QAM	1	0	19.84	20.12	20.00		
5	16QAM	1	12	19.86	19.96	20.03		
5	16QAM	1	24	19.95	19.91	19.99		
5	16QAM	12	0	19.78	19.89	19.81		
5	16QAM	12	7	19.75	19.76	19.75		
5	16QAM	12	13	19.72	19.78	19.71		
5	16QAM	25	0	19.86	19.76	19.86		
5	256QAM	1	0	17.83	18.01	17.80		
5	256QAM	1	12	17.74	18.03	17.82		
5	256QAM	1	24	17.74	17.70	17.78		
5	256QAM	12	0	17.86	17.83	17.85		
5	256QAM	12	7	17.79	17.86	17.86		
5	256QAM	12	13	17.70	17.81	17.70		
5	256QAM	25	0	17.87	17.89	17.89		

Band 41 FCC&IC Ant 0

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low-Mid Ch / Freq	Power High-Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	20.99	21.02	21.03	21.03	22	0
20	QPSK	1	49	20.81	21.06	21.02	20.85	20.87	
20	QPSK	1	99	20.83	20.82	20.86	20.80	20.80	
20	QPSK	50	0	20.97	20.91	21.00	20.99	20.99	
20	QPSK	50	24	20.76	20.83	20.77	20.81	20.77	
20	QPSK	100	0	20.88	20.73	20.82	20.85	20.85	
20	QPSK	100	0	20.90	20.78	21.02	20.73	20.87	
20	16QAM	1	0	20.87	20.79	20.87	20.76	20.85	
20	16QAM	1	49	20.83	20.71	20.82	20.87	20.81	
20	16QAM	1	99	20.82	20.82	20.75	20.78	20.75	
20	16QAM	50	0	20.86	20.87	21.01	20.89	20.89	
20	16QAM	50	24	20.79	20.80	20.85	20.84	20.82	
20	16QAM	50	50	20.78	20.79	20.90	20.81	20.88	
20	16QAM	100	0	21.02	20.89	21.09	20.82	20.97	
20	16QAM	100	0	21.11	20.97	21.10	21.01	21.04	
20	16QAM	1	49	20.99	21.00	21.07	21.00	20.97	
20	16QAM	1	99	20.85	20.85	20.92	20.86	20.88	
20	16QAM	50	0	20.97	20.97	20.40	20.30	20.31	
20	16QAM	50	24	20.23	20.24	20.32	20.22	20.29	
20	16QAM	50	50	20.19	20.18	20.24	20.13	20.17	
20	16QAM	100	0	20.10	20.14	20.22	20.25	20.10	
20	256QAM	1	0	18.24	18.20	18.37	18.24	18.23	
20	256QAM	1	49	18.27	18.18	18.37	18.15	18.24	
20	256QAM	1	99	18.10	18.08	18.23	18.15	18.16	
20	256QAM	50	0	18.08	18.14	18.24	18.19	18.19	
20	256QAM	50	24	18.19	18.14	18.24	18.10	18.14	
20	256QAM	50	50	18.12	18.05	18.20	18.00	18.10	
20	256QAM	100	0	18.14	18.08	18.10	18.10	18.10	
Channel									
Frequency (MHz)									
16	QPSK	1	0	20.93	21.02	21.03	21.02	22	0
16	QPSK	1	37	20.71	21.04	20.92	20.79	20.86	
16	QPSK	1	74	20.78	20.70	20.81	20.76	20.77	
16	QPSK	36	0	20.91	20.89	20.91	20.86	20.92	
16	QPSK	36	20	20.70	20.74	20.74	20.71	20.67	
16	QPSK	36	39	20.67	20.68	20.74	20.68	20.61	
16	QPSK	75	0	20.82	20.74	20.81	20.81	20.74	
16	16QAM	1	0	20.84	20.89	20.90	20.88	20.74	
16	16QAM	1	37	20.89	20.89	20.77	20.79	20.68	
16	16QAM	1	74	20.82	20.80	20.70	20.68	20.72	
16	16QAM	36	0	20.91	20.84	20.91	20.87	20.88	
16	16QAM	36	20	20.89	20.79	20.71	20.87	20.85	
16	16QAM	36	39	20.67	20.72	20.82	20.73	20.64	
16	16QAM	75	0	20.89	20.72	20.86	20.70	20.89	
16	16QAM	75	0	21.04	20.8				



Band 41 PC2 FCC&IC Ant 0											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up Int (dBm)	MPR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	22.26	22.42	22.58	22.74	22.90	23.06	23.8	0
20	QPSK	1	49	22.38	22.54	22.70	22.86	23.02	23.18	23.8	0
20	QPSK	50	0	22.26	22.42	22.58	22.74	22.90	23.06	23.8	0
20	QPSK	50	24	22.29	22.45	22.61	22.77	22.93	23.09	23.8	0
20	QPSK	100	0	22.22	22.38	22.54	22.70	22.86	23.02	23.8	0
20	QPSK	100	24	22.25	22.41	22.57	22.73	22.89	23.05	23.8	0
20	16QAM	1	0	22.47	22.63	22.79	22.95	23.11	23.27	23.8	0
20	16QAM	1	49	22.59	22.75	22.91	23.07	23.23	23.39	23.8	0
20	16QAM	50	0	22.34	22.50	22.66	22.82	22.98	23.14	23.8	0
20	16QAM	50	24	22.37	22.53	22.69	22.85	23.01	23.17	23.8	0
20	16QAM	100	0	22.22	22.38	22.54	22.70	22.86	23.02	23.8	0
20	16QAM	100	24	22.25	22.41	22.57	22.73	22.89	23.05	23.8	0
20	64QAM	1	49	21.99	22.15	22.31	22.47	22.63	22.79	23.8	0
20	64QAM	50	0	22.25	22.41	22.57	22.73	22.89	23.05	23.8	0
20	64QAM	50	24	22.28	22.44	22.60	22.76	22.92	23.08	23.8	0
20	64QAM	100	0	22.14	22.30	22.46	22.62	22.78	22.94	23.8	0
20	64QAM	100	24	22.17	22.33	22.49	22.65	22.81	22.97	23.8	0
20	256QAM	1	0	21.61	21.77	21.93	22.09	22.25	22.41	22	1.8
20	256QAM	1	49	21.73	21.89	22.05	22.21	22.37	22.53	22	1.8
20	256QAM	50	0	21.54	21.70	21.86	22.02	22.18	22.34	22	1.8
20	256QAM	50	24	21.57	21.73	21.89	22.05	22.21	22.37	22	1.8
20	256QAM	100	0	21.42	21.58	21.74	21.90	22.06	22.22	22	1.8
20	256QAM	100	24	21.45	21.61	21.77	21.93	22.09	22.25	22	1.8
Channel											
Frequency (MHz)											
15	QPSK	1	0	22.62	22.78	22.94	23.10	23.26	23.42	23.8	0
15	QPSK	1	37	22.34	22.50	22.66	22.82	22.98	23.14	23.8	0
15	QPSK	1	74	22.16	22.32	22.48	22.64	22.80	22.96	23.8	0
15	QPSK	36	20	22.36	22.52	22.68	22.84	23.00	23.16	23.8	0
15	QPSK	36	20	22.18	22.34	22.50	22.66	22.82	22.98	23.8	0
15	QPSK	75	0	22.15	22.31	22.47	22.63	22.79	22.95	23.8	0
15	16QAM	1	0	22.43	22.59	22.75	22.91	23.07	23.23	23.8	0
15	16QAM	1	37	22.15	22.31	22.47	22.63	22.79	22.95	23.8	0
15	16QAM	1	74	22.25	22.41	22.57	22.73	22.89	23.05	23.8	0
15	16QAM	36	0	22.18	22.34	22.50	22.66	22.82	22.98	23.8	0
15	16QAM	36	20	22.15	22.31	22.47	22.63	22.79	22.95	23.8	0
15	16QAM	36	39	22.14	22.30	22.46	22.62	22.78	22.94	23.8	0
15	64QAM	1	37	21.94	22.10	22.26	22.42	22.58	22.74	23.8	0
15	64QAM	1	74	22.06	22.22	22.38	22.54	22.70	22.86	23.8	0
15	64QAM	36	0	22.06	22.22	22.38	22.54	22.70	22.86	23.8	0
15	64QAM	36	20	22.06	22.22	22.38	22.54	22.70	22.86	23.8	0
15	64QAM	75	0	22.04	22.20	22.36	22.52	22.68	22.84	23.8	0
15	256QAM	1	0	21.43	21.59	21.75	21.91	22.07	22.23	22	1.8
15	256QAM	1	37	21.42	21.58	21.74	21.90	22.06	22.22	22	1.8
15	256QAM	1	74	21.20	21.36	21.52	21.68	21.84	22.00	22	1.8
15	256QAM	36	0	21.24	21.40	21.56	21.72	21.88	22.04	22	1.8
15	256QAM	36	20	21.20	21.36	21.52	21.68	21.84	22.00	22	1.8
15	256QAM	36	39	21.10	21.26	21.42	21.58	21.74	21.90	22	1.8
15	256QAM	75	0	21.21	21.37	21.53	21.69	21.85	22.01	22	1.8
Channel											
Frequency (MHz)											
10	QPSK	1	0	22.62	22.78	22.94	23.10	23.26	23.42	23.8	0
10	QPSK	1	25	22.29	22.45	22.61	22.77	22.93	23.09	23.8	0
10	QPSK	1	49	22.15	22.31	22.47	22.63	22.79	22.95	23.8	0
10	QPSK	25	12	22.25	22.41	22.57	22.73	22.89	23.05	23.8	0
10	QPSK	25	25	22.00	22.16	22.32	22.48	22.64	22.80	23.8	0
10	16QAM	1	0	22.34	22.50	22.66	22.82	22.98	23.14	23.8	0
10	16QAM	1	25	22.22	22.38	22.54	22.70	22.86	23.02	23.8	0
10	16QAM	1	49	22.10	22.26	22.42	22.58	22.74	22.90	23.8	0
10	16QAM	25	0	22.24	22.40	22.56	22.72	22.88	23.04	23.8	0
10	16QAM	25	12	22.13	22.29	22.45	22.61	22.77	22.93	23.8	0
10	16QAM	25	25	22.07	22.23	22.39	22.55	22.71	22.87	23.8	0
10	64QAM	1	0	22.07	22.23	22.39	22.55	22.71	22.87	23.8	0
10	64QAM	1	25	22.00	22.16	22.32	22.48	22.64	22.80	23.8	0
10	64QAM	1	49	21.89	22.05	22.21	22.37	22.53	22.69	23.8	0
10	64QAM	25	0	22.18	22.34	22.50	22.66	22.82	22.98	23.8	0
10	64QAM	25	12	22.00	22.16	22.32	22.48	22.64	22.80	23.8	0
10	64QAM	25	25	22.16	22.32	22.48	22.64	22.80	22.96	23.8	0
10	256QAM	1	0	21.51	21.67	21.83	21.99	22.15	22.31	22	1.8
10	256QAM	1	25	21.44	21.60	21.76	21.92	22.08	22.24	22	1.8
10	256QAM	25	0	21.28	21.44	21.60	21.76	21.92	22.08	22	1.8
10	256QAM	25	12	21.09	21.25	21.41	21.57	21.73	21.89	22	1.8
10	256QAM	25	25	21.00	21.16	21.32	21.48	21.64	21.80	22	1.8
10	256QAM	50	0	21.28	21.44	21.60	21.76	21.92	22.08	22	1.8
Channel											
Frequency (MHz)											
5	QPSK	1	0	22.62	22.78	22.94	23.10	23.26	23.42	23.8	0
5	QPSK	1	19	22.31	22.47	22.63	22.79	22.95	23.11	23.8	0
5	QPSK	1	24	22.09	22.25	22.41	22.57	22.73	22.89	23.8	0
5	QPSK	10	0	22.39	22.55	22.71	22.87	23.03	23.19	23.8	0
5	QPSK	10	7	22.17	22.33	22.49	22.65	22.81	22.97	23.8	0
5	QPSK	12	19	22.01	22.17	22.33	22.49	22.65	22.81	23.8	0
5	QPSK	25	0	22.15	22.31	22.47	22.63	22.79	22.95	23.8	0
5	16QAM	1	0	22.42	22.58	22.74	22.90	23.06	23.22	23.8	0
5	16QAM	1	12	22.13	22.29	22.45	22.61	22.77	22.93	23.8	0
5	16QAM	1	24	22.26	22.42	22.58	22.74	22.90	23.06	23.8	0
5	16QAM	12	0	22.25	22.41	22.57	22.73	22.89	23.05	23.8	0
5	16QAM	12	7	22.07	22.23	22.39	22.55	22.71	22.87	23.8	0
5	16QAM	12	13	22.14	22.30	22.46	22.62	22.78	22.94	23.8	0
5	16QAM	25	0	22.20	22.36	22.52	22.68	22.84	23.00	23.8	0
5	64QAM	1	0	22.13	22.29	22.45	22.61	22.77	22.93	23.8	0
5	64QAM	1	12	21.90	22.06	22.22	22.38	22.54	22.70	23.8	0
5	64QAM	1	24	22.00	22.16	22.32	22.48	22.64	22.80	23.8	0
5	64QAM	12	0	22.07	22.23	22.39	22.55	22.71	22.87	23.8	0
5	64QAM	12	7	21.89	22.05	22.21	22.37	22.53	22.69	23.8	0
5	64QAM	12	13	22.07	22.23	22.39	22.55	22.71	22.87	23.8	0
5	64QAM	25	0	22.03	22.19	22.35	22.51	22.67	22.83	23.8	0
5	64QAM	25	12	22.00	22.16	22.32	22.48	22.64	22.80	23.8	0
5	64QAM	25	25	22.16	22.32	22.48	22.64	22.80	22.96	23.8	0
5	256QAM	1	0	21.48	21.64	21.80	21.96	22.12	22.28	22	1.8
5	256QAM	1	24	21.19	21.35	21.51	21.67	21.83	21.99	22	1.8
5	256QAM	12	0	21.09	21.25	21.41	21.57	21.73	21.89	22	1.8
5	256QAM	12	7	21.10	21.26	21.42	21.58	21.74	21.90	22	1.8
5	256QAM	12	13	21.08	21.24	21.					



DCM92 Airt											
DCM92											
	Base Average Power (dBm)			Turnup	Frame Average Power (dBm)			Turnup			
	198	199	201	Limit	198	199	201	Limit			
Frequency (MHz)	89.2	89.4	89.6	(dBm)	89.2	89.4	89.6	(dBm)			
TX Channel	198	199	201		198	199	201				
OPRS-1 Tx side	31.42	31.48	31.36	32.00	22.42	22.48	22.36	23.00			
OPRS-2 Tx side	31.38	31.44	31.33	32.00	22.38	22.44	22.33	23.00			
OPRS-3 Tx side	25.27	25.30	25.32	26.00	22.27	22.29	22.30	23.00			
OPRS-4 Tx side	26.80	26.91	26.80	28.00	22.54	22.65	22.54	23.74			
EDGE-1 Tx side	25.16	25.22	25.17	26.00	22.16	22.22	22.17	23.00			
EDGE-2 Tx side	24.00	24.17	24.05	26.00	18.00	18.17	18.05	18.00			
EDGE-3 Tx side	22.20	22.41	22.34	23.00	18.20	18.41	18.34	17.00			
EDGE-4 Tx side	21.15	21.21	21.08	22.00	18.89	18.97	18.82	17.74			
EDGE-5 Tx side	18.00	18.00	18.00	20.00	18.99	18.98	18.91	17.00			
DCM90 Airt											
DCM90											
	Base Average Power (dBm)			Turnup	Frame Average Power (dBm)			Turnup			
	189.2	189	189.8	Limit	189.2	189	189.8	Limit			
Frequency (MHz)	189.2	189	189.8	(dBm)	189.2	189	189.8	(dBm)			
TX Channel	189.2	189	189.8		189.2	189	189.8				
OPRS-1 Tx side	27.52	27.67	27.67	28.50	18.52	18.67	18.67	19.50			
OPRS-2 Tx side	25.06	25.00	24.98	26.00	19.06	19.00	18.98	20.00			
OPRS-3 Tx side	25.36	25.42	25.32	26.00	19.10	19.16	19.06	20.00			
OPRS-4 Tx side	20.62	20.74	20.63	21.50	17.62	17.74	17.63	18.50			
EDGE-1 Tx side	22.76	22.86	22.72	23.50	13.76	13.86	13.72	14.50			
EDGE-2 Tx side	21.13	21.22	21.13	22.00	15.13	15.22	15.13	16.00			
EDGE-3 Tx side	14.86	14.96	14.86	15.00	15.86	15.96	15.86	16.74			
EDGE-4 Tx side	17.01	18.00	17.07	19.00	14.91	15.00	14.97	16.00			
DCS Simultaneous WCDMA IV Airt											
DCS IV											
	Base			Turnup	DCS IV			Turnup	Default WCDMA V Airt		
	1662	1660	1658	Limit	1432	1413	1513	Limit	4152	4162	4238
Frequency (MHz)	1662.4	1660	1657.6	(dBm)	1432.4	1413	1512.6	(dBm)	4152.4	4162	4238.6
TX Channel	1662.4	1660	1657.6		1432.4	1413	1512.6		4152.4	4162	4238.6
ISPP Rate	21.03	21.12	21.00	22.20	20.67	20.92	20.81	22.40	21.14	21.17	21.04
ISPP Rate	21.08	21.15	21.12	22.30	20.91	21.01	20.84	22.40	21.17	21.11	21.00
ISPP Rate	20.19	20.50	20.03	21.30	19.81	20.01	19.69	21.40	20.23	20.23	20.00
ISPP Rate	20.15	20.11	20.19	21.30	19.84	19.85	19.83	21.40	20.12	20.02	20.17
ISPP Rate	19.89	19.80	19.71	20.80	19.36	19.44	19.32	20.50	19.57	19.70	19.69
ISPP Rate	19.56	19.46	19.74	20.80	19.23	19.45	19.26	20.50	19.56	19.73	19.64
ISPP Rate	20.16	20.24	20.03	21.30	19.91	20.09	19.75	21.40	20.21	20.32	20.01
ISPP Rate	19.96	19.97	19.92	21.30	19.79	19.73	19.74	21.40	20.08	20.08	19.84
ISPP Rate	19.08	19.95	19.06	20.80	19.31	19.24	19.26	20.50	19.95	19.08	19.95
ISPP Rate	19.54	19.53	19.64	20.80	19.25	19.18	19.31	20.50	19.49	19.47	19.64
ISPP Rate	20.50	20.21	20.53	21.30	19.87	20.02	19.86	21.40	20.10	20.22	20.26
ISPP Rate	18.17	18.20	18.17	19.30	17.78	18.00	17.79	19.40	18.09	18.19	18.13
ISPP Rate	18.27	18.24	18.20	19.30	18.09	18.01	18.04	20.00	18.18	18.06	18.16
ISPP Rate	18.00	18.00	18.10	19.30	17.82	17.81	17.72	19.40	18.04	18.14	18.03
ISPP Rate	20.21	20.07	20.04	21.30	20.00	19.21	19.79	21.40	20.21	20.03	20.08



Band 2 Default Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (dB)	MPR (dB)		
Channel				Ch. 1 / Freq.	Ch. 2 / Freq.	Ch. 3 / Freq.				
20	QPSK	1	0	20.90	21.00	20.98				
20	QPSK	1	49	20.92	20.98	20.78				
20	QPSK	1	99	20.80	20.99	20.80			22	0
20	QPSK	50	0	20.99	21.00	20.99				
20	QPSK	50	49	20.87	20.98	20.80				
20	QPSK	50	99	20.88	20.90	20.80				
20	QPSK	100	0	20.90	20.95	20.87				
20	QPSK	100	49	20.80	20.90	20.78				
20	QPSK	100	99	20.77	20.83	20.83			22	0
20	HQAM	1	0	20.72	20.73	20.77				
20	HQAM	1	49	20.82	20.88	20.78				
20	HQAM	50	24	20.72	20.85	20.69			21.5	0.5
20	HQAM	50	74	20.72	20.79	20.86				
20	HQAM	50	99	20.70	20.85	20.77				
20	HQAM	100	0	20.71	20.80	20.71				
20	HQAM	100	49	20.87	20.76	20.72			21.5	0.5
20	HQAM	100	99	20.82	20.81	20.81				
20	HQAM	200	24	20.76	20.73	20.89			20.5	1.5
20	HQAM	200	74	20.79	20.85	20.77				
20	HQAM	200	99	20.86	20.85	20.80				
20	HQAM	400	0	20.86	20.85	20.80				
20	HQAM	400	49	20.87	20.76	20.72			21.5	0.5
20	HQAM	400	99	20.82	20.81	20.81				
20	HQAM	800	24	20.76	20.73	20.89			20.5	1.5
20	HQAM	800	74	20.79	20.85	20.77				
20	HQAM	800	99	20.86	20.85	20.80				
20	HQAM	1600	0	20.86	20.85	20.80				
20	HQAM	1600	49	20.87	20.76	20.72			21.5	0.5
20	HQAM	1600	99	20.82	20.81	20.81				
20	HQAM	3200	24	20.76	20.73	20.89			21.5	0.5
20	HQAM	3200	74	20.79	20.85	20.77				
20	HQAM	3200	99	20.86	20.85	20.80				
20	HQAM	6400	0	20.86	20.85	20.80				
20	HQAM	6400	49	20.87	20.76	20.72			21.5	0.5
20	HQAM	6400	99	20.82	20.81	20.81				
20	HQAM	12800	24	20.76	20.73	20.89			21.5	0.5
20	HQAM	12800	74	20.79	20.85	20.77				
20	HQAM	12800	99	20.86	20.85	20.80				
20	HQAM	25600	0	20.86	20.85	20.80				
20	HQAM	25600	49	20.87	20.76	20.72			21.5	0.5
20	HQAM	25600	99	20.82	20.81	20.81				
20	HQAM	51200	24	20.76	20.73	20.89			21.5	0.5
20	HQAM	51200	74	20.79	20.85	20.77				
20	HQAM	51200	99	20.86	20.85	20.80				
20	HQAM	102400	0	20.86	20.85	20.80				
20	HQAM	102400	49	20.87	20.76	20.72			21.5	0.5
20	HQAM	102400	99	20.82	20.81	20.81				
20	HQAM	204800	24	20.76	20.73	20.89			21.5	0.5
20	HQAM	204800	74	20.79	20.85	20.77				
20	HQAM	204800	99	20.86	20.85	20.80				
20	HQAM	409600	0	20.86	20.85	20.80				
20	HQAM	409600	49	20.87	20.76	20.72			21.5	0.5
20	HQAM	409600	99	20.82	20.81	20.81				
20	HQAM	819200	24	20.76	20.73	20.89			21.5	0.5
20	HQAM	819200	74	20.79	20.85	20.77				
20	HQAM	819200	99	20.86	20.85	20.80				
20	HQAM	1638400	0	20.86	20.85	20.80				
20	HQAM	1638400	49	20.87	20.76	20.72			21.5	0.5
20	HQAM	1638400	99	20.82	20.81	20.81				
20	HQAM	3276800	24	20.76	20.73	20.89			21.5	0.5
20	HQAM	3276800	74	20.79	20.85	20.77				
20	HQAM	3276800	99	20.86	20.85	20.80				
20	HQAM	6553600	0	20.86	20.85	20.80				
20	HQAM	6553600	49	20.87	20.76	20.72			21.5	0.5
20	HQAM	6553600	99	20.82	20.81	20.81				
20	HQAM	13107200	24	20.76	20.73	20.89			21.5	0.5
20	HQAM	13107200	74	20.79	20.85	20.77				
20	HQAM	13107200	99	20.86	20.85	20.80				
20	HQAM	26214400	0	20.86	20.85	20.80				
20	HQAM	26214400	49	20.87	20.76	20.72			21.5	0.5
20	HQAM	26214400	99	20.82	20.81	20.81				
20	HQAM	52428800	24	20.76	20.73	20.89			21.5	0.5
20	HQAM	52428800	74	20.79	20.85	20.77				
20	HQAM	52428800	99	20.86	20.85	20.80				
20	HQAM	104857600	0	20.86	20.85	20.80				
20	HQAM	104857600	49	20.87	20.76	20.72			21.5	0.5
20	HQAM	104857600	99	20.82	20.81	20.81				
20	HQAM	209715200	24	20.76	20.73	20.89			21.5	0.5
20	HQAM	209715200	74	20.79	20.85	20.77				
20	HQAM	209715200	99	20.86	20.85	20.80				
20	HQAM	419430400	0	20.86	20.85	20.80				
20	HQAM	419430400	49	20.87	20.76	20.72			21.5	0.5
20	HQAM	419430400	99	20.82	20.81	20.81				
20	HQAM	838860800	24	20.76	20.73	20.89			21.5	0.5
20	HQAM	838860800	74	20.79	20.85	20.77				
20	HQAM	838860800	99	20.86	20.85	20.80				
20	HQAM	1677721600	0	20.86	20.85	20.80				
20	HQAM	1677721600	49	20.87	20.76	20.72			21.5	0.5
20	HQAM	1677721600	99	20.82	20.81	20.81				
20	HQAM	3355443200	24	20.76	20.73	20.89			21.5	0.5
20	HQAM	3355443200	74	20.79	20.85	20.77				
20	HQAM	3355443200	99	20.86	20.85	20.80				
20	HQAM	6710886400	0	20.86	20.85	20.80				
20	HQAM	6710886400	49	20.87	20.76	20.72			21.5	0.5
20	HQAM	6710886400	99	20.82	20.81	20.81				
20	HQAM	13421772800	24	20.76	20.73	20.89			21.5	0.5
20	HQAM	13421772800	74	20.79	20.85	20.77				
20	HQAM	13421772800	99	20.86	20.85	20.80				
20	HQAM	26843545600	0	20.86	20.85	20.80				
20	HQAM	26843545600	49	20.87	20.76	20.72			21.5	0.5
20	HQAM	26843545600	99	20.82	20.81	20.81				
20	HQAM	53687091200	24	20.76	20.73	20.89			21.5	0.5
20	HQAM	53687091200	74	20.79	20.85	20.77				
20	HQAM	53687091200	99	20.86	20.85	20.80				
20	HQAM	107374182400	0	20.86	20.85	20.80				
20	HQAM	107374182400	49	20.87	20.76	20.72			21.5	0.5
20	HQAM	107374182400	99	20.82	20.81	20.81				
20	HQAM	214748364800	24	20.76	20.73	20.89			21.5	0.5
20	HQAM	214748364800	74	20.79	20.85	20.77				
20	HQAM	214748364800	99	20.86	20.85	20.80				
20	HQAM	429496729600	0	20.86	20.85	20.80				
20	HQAM	429496729600	49	20.87	20.76	20.72			21.5	0.5
20	HQAM	429496729600	99	20.82	20.81	20.81				
20	HQAM	858993459200	24	20.76	20.73	20.89			21.5	0.5
20	HQAM	858993459200	74	20.79	20.85	20.77				
20	HQAM	858993459200	99	20.86	20.85	20.80				
20	HQAM	1717986918400	0	20.86	20.85	20.80				
20	HQAM	1717986918400	49	20.87	20.76	20.72			21.5	0.5
20	HQAM	1717986918400	99	20.82	20.81	20.81				
20	HQAM	3435973836800	24	20.76	20.73	20.89			21.5	0.5
20	HQAM	3435973836800	74	20.79	20.85	20.77				
20	HQAM									



Band 12 Default Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int. (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.81	21.73	21.68				
10	QPSK	1	25	21.90	21.80	21.52				
10	QPSK	1	49	21.47	21.49	21.92		23	0	
10	QPSK	25	0	21.60	21.70	21.55				
10	QPSK	25	12	21.65	21.63	21.63				
10	QPSK	25	25	21.46	21.48	21.46		23	0	
10	QPSK	50	0	21.51	21.57	21.45				
10	QPSK	50	12	21.55	21.50	21.51				
10	16QAM	1	25	21.40	21.48	21.36		23	0	
10	16QAM	1	49	21.35	21.46	21.44				
10	16QAM	25	0	21.39	21.50	21.49				
10	16QAM	25	12	21.34	21.48	21.40		22.5	0.5	
10	16QAM	25	25	21.38	21.39	21.41				
10	16QAM	50	0	21.52	21.56	21.40				
10	16QAM	1	0	21.34	21.50	21.36		22.5	0.5	
10	8QAM	1	25	21.26	21.26	21.32		22.5	0.5	
10	8QAM	1	49	21.24	21.38	21.28				
10	8QAM	25	0	20.49	20.53	20.43				
10	8QAM	25	12	20.57	20.43	20.31		21.5	1.5	
10	8QAM	25	25	20.33	20.34	20.33				
10	8QAM	50	0	20.25	20.27	20.31				
10	256QAM	1	25	18.44	18.42	18.36		19.5	3.5	
10	256QAM	1	49	18.41	18.37	18.33				
10	256QAM	25	0	18.26	18.26	18.35				
10	256QAM	25	12	18.26	18.37	18.36		19.5	3.5	
10	256QAM	25	25	18.24	18.32	18.32				
10	256QAM	50	0	18.33	18.42	18.30				
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.56	21.63	21.54				
5	QPSK	1	25	21.37	21.63	21.43		23	0	
5	QPSK	1	49	21.33	21.44	21.40				
5	QPSK	12	0	21.51	21.56	21.44				
5	QPSK	12	7	21.49	21.49	21.39		23	0	
5	QPSK	12	13	21.34	21.39	21.41				
5	QPSK	25	0	21.40	21.46	21.45				
5	16QAM	1	25	21.48	21.48	21.40		23	0	
5	16QAM	1	49	21.36	21.37	21.23				
5	16QAM	12	0	21.31	21.48	21.41				
5	16QAM	12	7	21.23	21.39	21.27		22.5	0.5	
5	16QAM	12	13	21.27	21.32	21.36				
5	16QAM	25	0	21.26	21.43	21.34				
5	8QAM	1	0	21.20	21.36	21.22		22.5	0.5	
5	8QAM	1	25	21.12	21.27	21.31				
5	8QAM	1	49	21.15	21.26	21.20				
5	8QAM	12	0	20.31	20.41	20.36		21.5	1.5	
5	8QAM	12	7	20.33	20.34	20.16				
5	8QAM	12	13	20.17	20.20	20.15				
5	8QAM	25	0	20.15	20.22	20.24				
5	256QAM	1	0	18.36	18.32	18.36		19.5	3.5	
5	256QAM	1	12	18.31	18.50	18.45				
5	256QAM	1	24	18.28	18.31	18.25				
5	256QAM	12	0	18.26	18.26	18.34				
5	256QAM	12	7	18.17	18.24	18.23		19.5	3.5	
5	256QAM	12	13	18.20	18.23	18.23				
5	256QAM	25	0	18.23	18.42	18.17				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.95	20.96	20.86				
3	QPSK	1	25	21.02	21.08	21.05		23	0	
3	QPSK	1	49	21.32	21.54	21.37				
3	QPSK	1	14	21.42	21.43	21.38				
3	QPSK	3	0	21.55	21.60	21.48				
3	QPSK	3	7	21.48	21.52	21.39		23	0	
3	QPSK	8	7	21.32	21.40	21.38				
3	QPSK	15	0	21.27	21.32	21.36				
3	16QAM	1	0	21.47	21.57	21.37		23	0	
3	16QAM	1	8	21.30	21.41	21.33				
3	16QAM	1	15	21.22	21.43	21.36				
3	16QAM	8	0	21.26	21.49	21.41		22.5	0.5	
3	16QAM	8	4	21.21	21.38	21.30				
3	16QAM	8	7	21.28	21.30	21.27				
3	16QAM	15	0	21.22	21.47	21.39		22.5	0.5	
3	8QAM	1	0	21.20	21.40	21.29				
3	8QAM	1	8	21.12	21.28	21.18				
3	8QAM	1	14	21.12	21.23	21.16				
3	8QAM	8	0	20.37	20.43	20.39		21.5	1.5	
3	8QAM	8	4	20.33	20.38	20.25				
3	8QAM	8	7	20.16	20.19	20.27				
3	256QAM	1	0	18.30	18.25	18.32		19.5	3.5	
3	256QAM	1	8	18.27	18.49	18.43				
3	256QAM	1	14	18.28	18.33	18.26				
3	256QAM	8	0	18.28	18.40	18.31		19.5	3.5	
3	256QAM	8	4	18.18	18.26	18.30				
3	256QAM	8	7	18.20	18.19	18.29				
3	256QAM	15	0	18.23	18.38	18.17				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	21.62	21.63	21.55				
1.4	QPSK	1	3	21.35	21.50	21.40		23	0	
1.4	QPSK	1	5	21.40	21.44	21.45				
1.4	QPSK	3	0	21.57	21.61	21.40				
1.4	QPSK	3	1	21.48	21.50	21.39		23	0	
1.4	QPSK	3	3	21.35	21.39	21.38				
1.4	16QAM	1	0	21.30	21.50	21.39		23	0	
1.4	16QAM	1	3	21.34	21.40	21.33				
1.4	16QAM	6	0	21.26	21.43	21.40		23	0	
1.4	16QAM	3	0	21.28	21.48	21.39				
1.4	16QAM	3	1	21.26	21.44	21.28				
1.4	16QAM	3	3	21.23	21.37	21.36		22.5	0.5	
1.4	8QAM	1	0	21.21	21.48	21.34		22.5	0.5	
1.4	8QAM	1	0	21.28	21.41	21.27				
1.4	8QAM	1	3	21.13	21.21	21.19				
1.4	8QAM	1	5	21.19	21.28	21.18		22.5	0.5	
1.4	8QAM	3	0	21.23	21.36	21.32				
1.4	8QAM	3	1	21.23	21.23	21.20				
1.4	8QAM	3	3	21.10	21.22	21.17		21.5	1.5	
1.4	8QAM	8	0	20.39	20.41	20.29				
1.4	256QAM	1	0	18.37	18.49	18.44		19.5	3.5	
1.4	256QAM	1	3	18.33	18.50	18.44				
1.4	256QAM	3	0	18.29	18.26	18.24				
1.4	256QAM	3	1	18.27	18.30	18.30				
1.4	256QAM	3	1	18.14	18.50	18.24		19.5	3.5	
1.4	256QAM	8	0	18.19	18.24	18.22				
1.4	256QAM	8	16	18.21	18.30	18.19		19.5	3.5	

Band 13 Default Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int. (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.67	21.67	21.67				
10	QPSK	1	25	21.43	21.43	21.43		23	0	
10	QPSK	1	49	21.50	21.50	21.50				
10	QPSK	25	0	21.63	21.63	21.63		23	0	
10	QPSK	25	12	21.52	21.52	21.52				
10	QPSK	25	25	21.39	21.39	21.39				
10	QPSK	50	0	21.50	21.50	21.50				
10	QPSK	50	12	21.51	21.51	21.51				
10	16QAM	1	25	21.45	21.45	21.45		23	0	
10	16QAM	1	49	21.45	21.45	21.45				
10	16QAM	25	0	21.42	21.42	21.42		22.5	0.5	
10	16QAM	25	12	21.40	21.40	21.40				
10	16QAM	25	25	21.40	21.40	21.40				
10	16QAM	50	0	21.38	21.38	21.38				
10	8QAM	1	0	21.19	21.19	21.19		22.5	0.5	
10	8QAM	1	25	21.04	21.04	2				



Band 25 Default Ant 1										
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPE (dB)		
Channel										
1800 1800 1800										
20	QPSK	1	0	21.00	21.11	21.06				
20	QPSK	1	48	20.83	20.92	20.87	22	0		
20	QPSK	1	96	20.83	20.92	20.87				
20	QPSK	50	0	20.92	21.00	20.96				
20	QPSK	50	24	20.84	20.93	20.88				
20	QPSK	50	50	20.76	20.87	20.80	22	0		
20	QPSK	100	0	20.89	21.02	20.94				
20	16QAM	50	0	20.87	21.06	20.93				
20	16QAM	1	48	20.83	20.89	20.89	22	0		
20	16QAM	1	96	20.78	20.86	20.80				
20	16QAM	50	0	20.84	21.00	20.94				
20	16QAM	50	24	20.77	20.90	20.81	22	0		
20	16QAM	50	50	20.74	20.79	20.75				
20	16QAM	100	0	20.82	20.98	20.78				
20	64QAM	1	0	20.88	21.09	20.97				
20	64QAM	1	48	20.92	20.97	20.89	22	0		
20	64QAM	1	96	20.88	20.98	20.80				
20	64QAM	50	0	20.89	21.01	20.89				
20	64QAM	50	24	20.81	20.89	20.84	22	0		
20	64QAM	50	50	20.76	20.78	20.74				
20	256QAM	1	0	20.86	20.97	20.89				
20	256QAM	1	48	17.82	17.87	17.88	19	3		
20	256QAM	1	96	17.77	17.84	17.77				
20	256QAM	50	0	17.86	17.98	17.86				
20	256QAM	50	24	17.80	17.85	17.84	19	3		
20	256QAM	50	50	17.71	17.82	17.78				
20	256QAM	100	0	17.82	17.93	17.82				
Channel										
2415 2415 2415										
1807.5 1800 1907.5										
15	QPSK	1	0	20.89	21.07	20.98				
15	QPSK	1	32	20.76	20.91	20.79	22	0		
15	QPSK	1	74	20.75	20.84	20.78				
15	QPSK	36	0	20.83	20.94	20.91				
15	QPSK	36	20	20.80	20.77	20.77				
15	QPSK	36	39	20.82	20.79	20.74	22	0		
15	QPSK	75	0	20.82	20.98	20.88				
15	16QAM	1	0	20.80	20.98	20.88				
15	16QAM	1	32	20.77	20.83	20.79	22	0		
15	16QAM	1	74	20.80	20.87	20.81				
15	16QAM	36	0	20.91	20.96	20.91				
15	16QAM	36	20	20.71	20.86	20.74	22	0		
15	16QAM	36	39	20.87	20.88	20.82				
15	16QAM	75	0	20.78	20.81	20.81				
15	64QAM	1	0	20.83	21.06	20.88				
15	64QAM	1	32	20.88	20.98	20.87	22	0		
15	64QAM	1	74	20.74	20.85	20.70				
15	64QAM	36	0	20.76	20.86	20.75				
15	64QAM	36	20	20.86	20.88	20.83	22	0		
15	64QAM	36	39	20.82	20.83	20.80				
15	64QAM	75	0	20.77	20.81	20.88				
15	256QAM	1	0	17.86	17.97	17.86				
15	256QAM	1	32	17.88	17.93	17.79	19	3		
15	256QAM	1	74	17.83	17.71	17.73				
15	256QAM	36	0	17.86	17.98	17.86				
15	256QAM	36	20	17.69	17.78	17.77	19	3		
15	256QAM	36	39	17.86	17.78	17.67				
15	256QAM	75	0	17.82	17.86	17.80				
Channel										
2600 2600 2600										
1855 1850 1910										
10	QPSK	1	0	20.88	21.00	20.94				
10	QPSK	1	25	20.78	20.93	20.89	22	0		
10	QPSK	1	49	20.78	20.80	20.73				
10	QPSK	12	0	20.87	20.98	20.88				
10	QPSK	25	12	20.77	20.77	20.76	22	0		
10	QPSK	25	25	20.63	20.78	20.73				
10	16QAM	50	0	20.79	20.88	20.80				
10	16QAM	1	0	20.80	20.97	20.82				
10	16QAM	1	24	20.74	20.78	20.79	22	0		
10	16QAM	1	49	20.76	20.86	20.78				
10	16QAM	25	0	20.77	20.91	20.75				
10	16QAM	25	12	20.68	20.88	20.74	22	0		
10	16QAM	25	25	20.67	20.84	20.82				
10	16QAM	50	0	20.76	20.81	20.85				
10	64QAM	1	0	20.89	21.00	20.93				
10	64QAM	1	24	20.77	20.85	20.77	22	0		
10	64QAM	1	49	20.84	20.80	20.85				
10	64QAM	25	0	20.79	20.88	20.74				
10	64QAM	25	12	20.68	20.84	20.87	22	0		
10	64QAM	25	25	20.65	20.86	20.82				
10	64QAM	50	0	20.71	20.91	20.81				
10	256QAM	1	0	17.82	17.97	17.77				
10	256QAM	1	24	17.88	17.99	17.74	19	3		
10	256QAM	1	49	17.71	17.75	17.62				
10	256QAM	12	0	17.80	17.85	17.82				
10	256QAM	25	12	17.74	17.71	17.77	19	3		
10	256QAM	25	25	17.64	17.74	17.74				
10	256QAM	50	0	17.82	17.86	17.79				
Channel										
2665 2665 2665										
1852.5 1850 1912.5										
3	QPSK	1	0	20.84	21.00	20.92				
3	QPSK	1	12	20.80	20.84	20.89	22	0		
3	QPSK	1	24	20.69	20.81	20.89				
3	QPSK	12	0	20.78	20.82	20.82				
3	QPSK	12	7	20.73	20.83	20.74	22	0		
3	QPSK	12	13	20.64	20.80	20.74				
3	QPSK	15	0	20.81	20.90	20.80				
3	16QAM	1	0	20.73	20.92	20.82				
3	16QAM	1	12	20.73	20.81	20.75	22	0		
3	16QAM	1	24	20.68	20.74	20.78				
3	16QAM	12	0	20.77	20.90	20.86				
3	16QAM	12	7	20.72	20.78	20.72	22	0		
3	16QAM	12	13	20.64	20.74	20.87				
3	16QAM	25	0	20.69	20.84	20.83				
3	64QAM	1	0	20.85	21.04	20.91				
3	64QAM	1	12	20.86	20.88	20.81	22	0		
3	64QAM	1	24	20.77	20.79	20.89				
3	64QAM	12	0	20.76	20.92	20.84				
3	64QAM	12	7	20.77	20.74	20.79	22	0		
3	64QAM	12	13	20.59	20.68	20.83				
3	64QAM	25	0	20.74	20.84	20.86				
3	256QAM	1	0	17.77	17.89	17.77				
3	256QAM	1	12	17.81	17.82	17.74	19	3		
3	256QAM	1	24	17.73	17.79	17.69				
3	256QAM	12	0	17.76	17.81	17.75				
3	256QAM	12	7	17.70	17.71	17.74	19	3		
3	256QAM	12	13	17.62	17.70	17.74				
3	256QAM	25	0	17.83	17.84	17.83				
Channel										
2665 2665 2665										
1852.5 1850 1912.5										
3	QPSK	1	0	20.90	20.90	20.90				
3	QPSK	1	8	20.75	20.83	20.87	22	0		
3	QPSK	1	14	20.71	20.87	20.79				
3	QPSK	8	0	20.81	21.02	20.91				
3	QPSK	8	4	20.73	20.83	20.76	22	0		
3	QPSK	8	7	20.69	20.79	20.71				
3	QPSK	15	0	20.81	20.84	20.83				
3	16QAM	1	0	20.81	20.99	20.86				
3	16QAM	1	8	20.78	20.84	20.85	22	0		
3	16QAM	1	14	20.65	20.79	20.72				
3	16QAM	8	0	20.76	20.86	20.79				
3	16QAM	8	4	20.67	20.84	20.72	22	0		
3	16QAM	15	0	20.60	20.66	20.81				
3	16QAM	15	0	20.74	20.88	20.83				
3	64QAM	1	0</							



Band 66 Default Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Turn-up (dB)	APR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.03	21.12	20.97				
20	QPSK	1	49	20.91	21.00	20.85	22	0		
20	QPSK	1	99	20.86	20.90	20.79				
20	QPSK	50	0	20.87	21.07	20.96				
20	QPSK	50	24	20.83	20.98	20.84				
20	QPSK	50	50	20.80	20.87	20.88				
20	QPSK	100	0	20.84	20.95	20.82				
20	16QAM	1	0	20.90	20.92	20.87				
20	16QAM	1	49	20.74	20.80	20.80	22	0		
20	16QAM	1	99	20.78	20.82	20.73				
20	16QAM	50	0	20.71	20.97	20.79				
20	16QAM	50	24	20.84	20.80	20.85				
20	16QAM	50	50	20.83	20.80	20.80				
20	16QAM	100	0	20.83	20.80	20.80				
20	64QAM	1	0	20.81	20.92	20.74				
20	64QAM	1	49	20.75	20.80	20.77	22	0		
20	64QAM	1	99	20.85	20.80	20.80				
20	64QAM	50	0	20.81	20.79	20.69				
20	64QAM	50	24	20.59	20.70	20.56				
20	64QAM	50	50	20.92	20.80	20.80				
20	64QAM	100	0	20.74	20.83	20.82				
20	256QAM	1	0	17.69	17.80	17.66				
20	256QAM	1	49	17.93	17.90	17.95	19	3		
20	256QAM	1	99	17.79	17.80	17.85				
20	256QAM	50	0	17.85	17.75	17.80				
20	256QAM	50	24	17.60	17.58	17.52				
20	256QAM	50	50	17.47	17.58	17.47				
20	256QAM	100	0	17.73	17.50	17.40				
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.92	21.07	20.92				
15	QPSK	1	39	20.78	20.90	20.79	22	0		
15	QPSK	1	74	20.77	20.70	20.71				
15	QPSK	36	0	20.78	21.01	20.83				
15	QPSK	36	20	20.75	20.70	20.70				
15	QPSK	36	39	20.87	20.83	20.79				
15	QPSK	75	0	20.74	20.80	20.80				
15	16QAM	1	0	20.81	20.80	20.75				
15	16QAM	1	37	20.73	20.83	20.77	22	0		
15	16QAM	1	74	20.89	20.80	20.80				
15	16QAM	36	0	20.99	20.74	20.84				
15	16QAM	36	20	20.54	20.54	20.51				
15	16QAM	75	0	20.75	20.80	20.70				
15	64QAM	1	0	20.71	20.80	20.69				
15	64QAM	1	37	20.81	20.80	20.80	22	0		
15	64QAM	1	74	20.54	20.55	20.55				
15	64QAM	36	0	20.86	20.70	20.82				
15	64QAM	36	20	20.53	20.40	20.40				
15	64QAM	36	39	20.48	20.52	20.38				
15	64QAM	75	0	20.87	20.80	20.88				
15	256QAM	1	0	17.76	17.80	17.81				
15	256QAM	1	37	17.78	17.80	17.83	19	3		
15	256QAM	1	74	17.85	17.85	17.81				
15	256QAM	36	0	17.46	17.70	17.60				
15	256QAM	36	20	17.47	17.50	17.41				
15	256QAM	36	39	17.37	17.50	17.33				
15	256QAM	75	0	17.44	17.81	17.74				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.91	21.01	20.81				
10	QPSK	1	25	20.83	20.80	20.71	22	0		
10	QPSK	1	49	20.82	20.78	20.72				
10	QPSK	25	0	20.78	20.90	20.80				
10	QPSK	25	12	20.68	20.78	20.79				
10	QPSK	25	25	20.76	20.81	20.74				
10	16QAM	1	0	20.81	20.83	20.74				
10	16QAM	1	25	20.66	20.75	20.74	22	0		
10	16QAM	1	49	20.73	20.80	20.84				
10	16QAM	25	0	20.58	20.81	20.65				
10	16QAM	25	12	20.54	20.58	20.60				
10	16QAM	25	25	20.66	20.60	20.48				
10	64QAM	1	0	20.80	20.82	20.68				
10	64QAM	1	25	20.72	20.86	20.71	22	0		
10	64QAM	1	49	20.81	20.70	20.84				
10	64QAM	1	49	20.51	20.55	20.58				
10	64QAM	25	0	20.47	20.71	20.57				
10	64QAM	25	12	20.48	20.40	20.43				
10	64QAM	25	25	20.47	20.40	20.45				
10	64QAM	50	0	20.87	20.70	20.75				
10	256QAM	1	0	17.86	17.82	17.82				
10	256QAM	1	25	17.88	17.86	17.87	19	3		
10	256QAM	1	49	17.85	17.78	17.79				
10	256QAM	25	0	17.53	17.43	17.50				
10	256QAM	25	12	17.57	17.50	17.45				
10	256QAM	25	25	17.36	17.45	17.43				
10	256QAM	50	0	17.62	17.82	17.78				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.91	20.90	20.81				
5	QPSK	1	12	20.85	20.90	20.79	22	0		
5	QPSK	1	24	20.80	20.82	20.68				
5	QPSK	12	0	20.75	20.80	20.80				
5	QPSK	12	7	20.76	20.70	20.71				
5	QPSK	12	13	20.87	20.80	20.79				
5	QPSK	25	0	20.73	20.80	20.87				
5	16QAM	1	0	20.81	20.80	20.76				
5	16QAM	1	12	20.84	20.73	20.75	22	0		
5	16QAM	1	24	20.75	20.72	20.60				
5	16QAM	12	0	20.87	20.72	20.84				
5	16QAM	12	7	20.58	20.57	20.60				
5	16QAM	12	13	20.90	20.80	20.84	22	0		
5	16QAM	25	0	20.76	20.88	20.89				
5	64QAM	1	0	20.70	20.83	20.66				
5	64QAM	1	12	20.65	20.77	20.64	22	0		
5	64QAM	1	24	20.82	20.54	20.81				
5	64QAM	12	0	20.53	20.67	20.60				
5	64QAM	12	7	20.48	20.50	20.49				
5	64QAM	12	13	20.50	20.53	20.39				
5	64QAM	25	0	20.70	20.77	20.70				
5	256QAM	1	0	17.82	17.80	17.83				
5	256QAM	1	12	17.80	17.80	17.82	19	3		
5	256QAM	1	24	17.70	17.76	17.71				
5	256QAM	12	0	17.85	17.80	17.80				
5	256QAM	12	7	17.54	17.50	17.47				
5	256QAM	12	13	17.39	17.49	17.44				
5	256QAM	25	0	17.44	17.78	17.75				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.91	21.00	20.93				
3	QPSK	1	8	20.85	20.80	20.74	22	0		
3	QPSK	1	14	20.75	20.85	20.66				
3	QPSK	8	0	20.73	20.80	20.80				
3	QPSK	8	4	20.74	20.80	20.80				
3	QPSK	8	7	20.89	20.82	20.85	22	0		
3	QPSK	15	0	20.72	20.84	20.78				
3	16QAM	1	0	20.87	20.80	20.80				
3	16QAM	1	8	20.83	20.77	20.73	22	0		
3	16QAM	1	14	20.70	20.80	20.67				
3	16QAM	8	0	20.80	20.83	20.74				
3	16QAM	8	4	20.55	20.53	20.58				
3	16QAM	8	7	20.85	20.81	20.80	22	0		
3	64QAM	1	0	20.89	20.82	20.84				
3	64QAM	1	8	20.84	20.72	20.84	22	0		
3	64QAM	1	14	20.51	20.57	20.59				
3	64QAM	8	0	20.49	20.80	20.69				
3	64QAM	8	4	20.45	20.61	20.46				
3	64QAM	8</								



Band38 DS15_Simultaneous Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	20.97	20.73	20.10			
20	QPSK	1	49	20.54	20.54	20.80			21.9
20	QPSK	50	24	20.32	20.55	20.44			
20	QPSK	50	0	20.43	20.58	20.53			
20	QPSK	50	24	20.32	20.81	20.50			21.9
20	QPSK	100	0	20.32	20.52	20.52			
20	16QAM	1	0	20.62	20.66	20.65			21.9
20	16QAM	1	49	20.38	20.59	20.45			
20	16QAM	1	99	20.32	20.38	20.38			
20	16QAM	50	0	20.18	20.27	20.24			
20	16QAM	50	24	19.98	20.13	20.05			
20	16QAM	50	50	20.12	20.00	20.06			21.9
20	16QAM	100	0	20.07	20.22	20.11			
20	16QAM	100	0	20.35	20.71	20.57			
20	16QAM	1	49	20.41	20.39	20.31			21.9
20	16QAM	1	99	20.28	20.29	20.31			
20	16QAM	50	0	20.47	20.54	20.39			
20	16QAM	50	24	20.36	20.59	20.42			21.9
20	16QAM	50	50	20.27	20.54	20.51			
20	16QAM	100	0	20.54	20.55	20.81			
20	25QAM	1	0	18.83	18.00	18.86			
20	25QAM	1	49	18.79	18.00	18.79			20.5
20	25QAM	1	99	18.76	18.77	18.78			1.4
20	25QAM	50	0	18.96	18.16	18.97			
20	25QAM	50	24	18.97	18.06	18.96			20.5
20	25QAM	50	50	18.89	18.85	18.94			1.4
20	25QAM	100	0	18.99	18.15	18.98			
Channel									
Frequency (MHz)									
15	QPSK	1	0	20.14	20.14	20.12			
15	QPSK	1	37	20.48	20.50	20.85			21.9
15	QPSK	1	74	20.34	20.81	20.34			
15	QPSK	36	20	20.22	20.49	20.47			21.9
15	QPSK	36	20	20.22	20.49	20.47			
15	QPSK	75	0	20.23	20.48	20.46			
15	16QAM	1	0	20.57	20.59	20.59			21.9
15	16QAM	1	37	20.44	20.31	20.27			
15	16QAM	1	74	20.27	20.34	20.36			
15	16QAM	36	0	20.09	20.20	20.21			
15	16QAM	36	20	20.07	20.07	20.06			21.9
15	16QAM	36	36	20.03	19.94	19.97			
15	16QAM	75	0	19.92	20.23	20.03			
15	16QAM	75	0	20.31	20.62	20.59			
15	16QAM	1	37	20.35	20.31	20.21			21.9
15	16QAM	1	74	20.22	20.22	20.25			
15	16QAM	36	0	20.38	20.58	20.31			
15	16QAM	36	20	20.29	20.36	20.36			21.9
15	16QAM	36	20	20.29	20.36	20.36			
15	16QAM	75	0	20.43	20.46	20.54			
15	25QAM	1	0	18.77	18.90	18.81			20.5
15	25QAM	1	37	18.70	18.91	18.72			1.4
15	25QAM	1	74	18.87	18.74	18.74			
15	25QAM	36	0	18.86	19.11	18.92			
15	25QAM	36	20	18.94	18.94	18.96			20.5
15	25QAM	36	36	18.85	18.88	18.84			1.4
15	25QAM	75	0	18.89	18.70	18.86			
Channel									
Frequency (MHz)									
10	QPSK	1	0	20.26	20.40	20.40			
10	QPSK	1	25	20.50	20.51	20.57			21.9
10	QPSK	1	49	20.34	20.46	20.39			
10	QPSK	25	12	20.34	20.46	20.47			
10	QPSK	25	12	20.30	20.42	20.41			21.9
10	QPSK	25	25	20.27	20.41	20.34			
10	16QAM	1	0	20.53	20.83	20.87			
10	16QAM	1	25	20.43	20.34	20.42			21.9
10	16QAM	1	49	20.29	20.29	20.36			
10	16QAM	25	0	20.16	20.17	20.19			
10	16QAM	25	12	20.51	20.62	20.69			21.9
10	16QAM	25	12	20.04	20.01	20.03			
10	16QAM	25	25	20.32	20.54	20.58			
10	16QAM	1	0	20.32	20.32	20.27			21.9
10	16QAM	1	49	20.20	20.26	20.23			
10	16QAM	25	0	20.30	20.61	20.33			
10	16QAM	25	12	20.30	20.52	20.35			21.9
10	16QAM	25	25	20.21	20.49	20.47			
10	16QAM	50	0	20.49	20.51	20.53			
10	16QAM	50	0	18.78	18.92	18.70			
10	25QAM	1	0	18.84	18.91	18.72			20.5
10	25QAM	1	49	18.82	18.73	18.68			1.4
10	25QAM	25	0	18.83	18.11	18.88			
10	25QAM	25	12	18.96	18.93	18.94			
10	25QAM	25	25	18.77	18.94	18.87			20.5
10	25QAM	50	0	18.91	18.04	18.88			1.4
Channel									
Frequency (MHz)									
5	QPSK	1	0	20.46	20.85	20.84			
5	QPSK	1	19	20.45	20.45	20.57			21.9
5	QPSK	1	24	20.32	20.49	20.36			
5	QPSK	12	0	20.41	20.81	20.45			
5	QPSK	12	7	20.44	20.46	20.44			21.9
5	QPSK	12	19	20.24	20.43	20.31			
5	QPSK	25	0	20.24	20.46	20.44			
5	QPSK	25	0	20.58	20.59	20.58			
5	16QAM	1	12	20.44	20.37	20.39			21.9
5	16QAM	1	24	20.23	20.32	20.31			
5	16QAM	12	0	20.13	20.21	20.18			
5	16QAM	12	7	19.93	20.05	19.97			21.9
5	16QAM	12	13	20.06	19.93	20.01			
5	16QAM	25	0	19.88	20.27	20.08			
5	16QAM	1	0	20.32	20.68	20.58			21.9
5	16QAM	1	12	20.32	20.31	20.22			
5	16QAM	1	24	20.23	20.19	20.26			
5	16QAM	12	0	20.40	20.65	20.65			21.9
5	16QAM	12	13	20.25	20.46	20.49			
5	16QAM	25	0	20.46	20.40	20.95			
5	25QAM	1	0	18.73	18.88	18.71			
5	25QAM	1	12	18.72	18.87	18.66			20.5
5	25QAM	1	24	18.64	18.73	18.70			1.4
5	25QAM	12	0	18.82	18.81	18.84			
5	25QAM	12	13	18.85	18.88	18.90			20.5
5	25QAM	25	0	18.95	18.08	18.91			1.4

Band 41 FCC&IC DS15_Simultaneous Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.78	20.74	20.73				
20	QPSK	1	49	20.68	20.60	20.76			21.9	0
20	QPSK	50	24	20.44	20.56	20.46				
20	QPSK	50	0	20.58	20.60	20.65				
20	QPSK	50	24	20.52	20.84	20.62			21.9	0
20	QPSK	100	0	20.38	20.51	20.51				
20	QPSK	100	0	20.49	20.51	20.80				
20	16QAM	1	0	20.59	20.55	20.58			21.9	0
20	16QAM	1	49	20.38	20.62	20.53				
20	16QAM	1	99	20.37	20.42	20.50				
20	16QAM	50	0	20.69	20.81	20.81				
20	16QAM	50	24	20.63	20.80	20.87				
20	16QAM	50	50	20.67	20.60	20.67			21.9	0
20	16QAM	100	0	20.27	20.29	20.79				
20	16QAM	100	0	20.77	20.52	20.83				
20	16QAM	1	49	20.63	20.80	20.54			21.9	0
20	16QAM	1	99	20.80	20.74	20.52				
20	16QAM	50	0	20.59	20.58	20.64				
20	16QAM	50	24	20.66	20.78	20.56			21	0.9
20	16QAM	50	50	20.70	20.68	20.52				
20	16QAM	100	0	20.68	20.67	20.60				
20	25QAM	1	0	18.82	18.60	18.90				
20	25QAM	1	49	18.84	18.67	18.90			19	2.9
20	25QAM	1	99	18.63	18.63	18.73				
20	25QAM	50	0	18.68	18.67	18.60				
20	25QAM	50	24	18.81	18.79	18.84			19	2.9
20	25QAM	50	50	18.71	18.73	18.81				
20	25QAM	100	0	18.87	18.81	18.83				
Channel										
Frequency (MHz)										
16	QPSK	1	0	20.62	20.54	20.79				
16	QPSK	1	37	20.44	20.43	20.51			22	0
16	QPSK	1	74	20.48	20.49	20.84				
16	QPSK	36	20	20.65	20.61	20.62				
16	QPSK	36	20	20.38	20.50	20.55			21.9	0
16	QPSK	36	20	20.38	20.50	20.55				
16	QPSK	75	0	20.46	20.48	20.50				
16	16QAM	1	0	20.54	20.49	20.52			21.9	0
16	16QAM	1	37	20.41	20.48	20.76				
16	16QAM	1	74	20.31	20.38	20.45				
16	16QAM	36	0	20.74	20.63	20.74				
16	16QAM	36	20	20.15	20.09	20.52			21.9	0
16	16QAM	36	36	20.40	20.52	20.57				
16	16QAM	75	0	20.60	20.61	20.54				
16	16QAM	75	0	20.67	20.75	20.68				
16	16QAM									



Band 41 HPUE FCC&IC DS15_Simultaneous Ant 1											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up Int (dBm)	MFR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	22.61	22.68	22.70	22.83	22.87	22.97	23.5	0
20	QPSK	1	49	22.60	22.53	22.68	22.57	22.45	22.45		
20	QPSK	50	0	22.56	22.55	22.55	22.55	22.55	22.55		
20	QPSK	50	24	22.48	22.46	22.60	22.44	22.37	22.37	23.5	0
20	QPSK	100	0	22.52	22.51	22.51	22.51	22.51	22.51		
20	QPSK	100	0	22.49	22.53	22.58	22.54	22.48	22.48		
20	16QAM	1	0	22.46	22.41	22.52	22.46	22.31	22.31	23.5	0
20	16QAM	1	49	22.50	22.42	22.54	22.38	22.30	22.30		
20	16QAM	1	99	22.52	22.41	22.52	22.38	22.33	22.33		
20	16QAM	50	0	22.34	22.48	22.53	22.40	22.40	22.40	23.5	0
20	16QAM	50	24	22.29	22.44	22.44	22.40	22.39	22.39		
20	16QAM	50	50	22.36	22.42	22.54	22.41	22.46	22.46		
20	16QAM	100	0	22.46	22.44	22.44	22.44	22.44	22.44		
20	16QAM	100	0	22.43	22.51	22.42	22.48	22.20	22.20	23.5	0
20	16QAM	100	49	22.28	22.36	22.44	22.23	22.29	22.29		
20	16QAM	100	0	22.43	22.36	22.33	22.30	22.33	22.33		
20	16QAM	100	0	22.25	22.27	22.44	22.33	22.43	22.43		
20	16QAM	100	24	22.17	22.21	22.36	22.14	22.34	22.34	23.5	0
20	16QAM	100	50	22.34	22.14	22.36	22.20	22.40	22.40		
20	16QAM	100	0	22.04	22.19	22.37	22.27	22.21	22.21		
20	256QAM	1	0	21.51	21.49	21.68	21.44	21.58	21.58	23	0.5
20	256QAM	1	49	21.59	21.41	21.61	21.42	21.46	21.46		
20	256QAM	1	99	21.30	21.36	21.55	21.41	21.51	21.51		
20	256QAM	50	0	21.27	21.39	21.51	21.34	21.44	21.44		
20	256QAM	50	24	21.27	21.23	21.46	21.24	21.39	21.39	23	0.5
20	256QAM	50	50	21.23	21.26	21.41	21.26	21.35	21.35		
20	256QAM	100	0	21.15	21.22	21.34	21.15	21.24	21.24		
Channel											
Frequency (MHz)											
15	QPSK	1	0	22.53	22.53	22.53	22.53	22.53	22.53	23.0	0
15	QPSK	1	37	22.55	22.39	22.85	22.61	22.32	22.32		
15	QPSK	1	74	22.48	22.47	22.51	22.41	22.32	22.32		
15	QPSK	1	111	22.43	22.43	22.50	22.41	22.47	22.47		
15	QPSK	36	20	22.40	22.40	22.51	22.33	22.25	22.25	23.5	0
15	QPSK	36	59	22.45	22.45	22.50	22.48	22.38	22.38		
15	QPSK	75	0	22.42	22.48	22.50	22.48	22.38	22.38		
15	16QAM	1	0	22.39	22.33	22.57	22.40	22.19	22.19	23.5	0
15	16QAM	1	37	22.42	22.30	22.47	22.38	22.29	22.29		
15	16QAM	1	74	22.42	22.37	22.54	22.24	22.30	22.30		
15	16QAM	36	0	22.42	22.41	22.29	22.28	22.29	22.29	23.5	0
15	16QAM	36	20	22.38	22.44	22.28	22.20	22.46	22.46		
15	16QAM	36	59	22.26	22.25	22.19	22.29	22.22	22.22		
15	16QAM	75	0	22.23	22.54	22.60	22.51	22.28	22.28		
15	16QAM	75	0	22.18	22.15	22.40	22.38	22.29	22.29	23.5	0
15	16QAM	1	37	22.35	22.21	22.40	22.28	22.21	22.21		
15	16QAM	1	74	22.49	22.28	22.38	22.20	22.19	22.19		
15	16QAM	36	0	22.10	22.09	22.28	22.20	22.11	22.11	23.5	0
15	16QAM	36	20	22.04	22.28	22.35	22.12	22.16	22.16		
15	16QAM	36	59	22.18	22.18	22.21	22.18	22.18	22.18		
15	16QAM	75	0	22.00	22.05	22.19	22.07	22.02	22.02		
15	256QAM	1	0	21.44	21.44	21.54	21.33	21.45	21.45	23	0.5
15	256QAM	1	37	21.26	21.26	21.36	21.26	21.32	21.32		
15	256QAM	1	74	21.25	21.29	21.52	21.31	21.41	21.41		
15	256QAM	36	0	21.28	21.27	21.39	21.26	21.30	21.30	23	0.5
15	256QAM	36	20	21.22	21.14	21.34	21.23	21.27	21.27		
15	256QAM	36	59	21.14	21.22	21.37	21.12	21.30	21.30		
15	256QAM	75	0	21.08	21.10	21.21	21.00	21.10	21.10		
Channel											
Frequency (MHz)											
10	QPSK	1	0	22.51	22.51	22.51	22.51	22.51	22.51	23.0	0
10	QPSK	1	25	22.53	22.42	22.59	22.51	22.37	22.37		
10	QPSK	1	49	22.50	22.47	22.48	22.35	22.35	22.35		
10	QPSK	25	0	22.50	22.49	22.50	22.50	22.50	22.50		
10	QPSK	25	12	22.32	22.42	22.51	22.41	22.28	22.28	23.5	0
10	QPSK	25	25	22.43	22.38	22.43	22.25	22.35	22.35		
10	QPSK	25	49	22.48	22.48	22.48	22.48	22.48	22.48		
10	16QAM	1	0	22.34	22.31	22.83	22.32	22.27	22.27	23.5	0
10	16QAM	1	25	22.38	22.38	22.50	22.29	22.26	22.26		
10	16QAM	1	49	22.49	22.37	22.48	22.28	22.29	22.29		
10	16QAM	25	0	22.20	22.27	22.56	22.43	22.32	22.32	23.5	0
10	16QAM	25	12	22.21	22.46	22.42	22.11	22.27	22.27		
10	16QAM	25	25	22.28	22.48	22.40	22.40	22.33	22.33		
10	16QAM	50	0	22.32	22.21	22.46	22.34	22.01	22.01	23.5	0
10	16QAM	50	12	22.43	22.30	22.50	22.18	22.21	22.21		
10	16QAM	50	25	22.34	22.11	22.30	22.25	22.17	22.17		
10	16QAM	100	0	22.12	22.23	22.41	22.26	22.28	22.28	23.5	0
10	16QAM	100	12	22.20	22.16	22.36	22.09	22.32	22.32		
10	16QAM	100	25	22.18	22.03	22.30	22.17	22.36	22.36		
10	16QAM	50	0	22.05	22.09	22.23	22.23	22.23	22.23		
10	256QAM	1	0	21.45	21.46	21.56	21.35	21.48	21.48	23	0.5
10	256QAM	1	25	21.29	21.34	21.51	21.37	21.48	21.48		
10	256QAM	1	49	21.26	21.25	21.47	21.23	21.42	21.42		
10	256QAM	25	0	21.33	21.29	21.44	21.25	21.41	21.41		
10	256QAM	25	12	21.12	21.11	21.35	21.18	21.39	21.39	23	0.5
10	256QAM	25	25	21.11	21.14	21.27	21.11	21.20	21.20		
10	256QAM	50	0	21.04	21.04	21.24	21.09	21.18	21.18		
Channel											
Frequency (MHz)											
5	QPSK	1	0	22.56	22.58	22.57	22.53	22.43	22.43	23.0	0
5	QPSK	1	12	22.52	22.44	22.64	22.53	22.36	22.36		
5	QPSK	1	24	22.52	22.45	22.48	22.45	22.39	22.39		
5	QPSK	12	0	22.47	22.43	22.50	22.44	22.49	22.49		
5	QPSK	12	7	22.36	22.37	22.54	22.40	22.47	22.47	23.5	0
5	QPSK	12	19	22.48	22.42	22.38	22.32	22.32	22.32		
5	QPSK	25	0	22.41	22.41	22.56	22.44	22.40	22.40		
5	16QAM	1	0	22.35	22.27	22.57	22.37	22.25	22.25	23.5	0
5	16QAM	1	12	22.48	22.32	22.43	22.32	22.28	22.28		
5	16QAM	1	24	22.44	22.30	22.38	22.23	22.34	22.34		
5	16QAM	12	0	22.25	22.26	22.30	22.27	22.37	22.37		
5	16QAM	12	7	22.20	22.39	22.30	22.17	22.19	22.19	23.5	0
5	16QAM	12	13	22.33	22.31	22.31	22.26	22.33	22.33		
5	16QAM	25	0	22.25	22.45	22.82	22.30	22.27	22.27		
5	16QAM	1	12	22.43	22.32	22.58	22.32	22.22	22.22	23.5	0
5	16QAM	1	12	22.29	22.31	22.40	22.24	22.13	22.13		
5	16QAM	1	24	22.31	22.20	22.22	22.26	22.29	22.29		
5	16QAM	12	0	22.05	22.20	22.27	22.16	22.10	22.10	23.5	0
5	16QAM	25	0	22.03	22.07	22.20	22.10	22.23	22.23		
5	256QAM	1	0	21.38							



SN	COM1900 Avg2	Default							
		Best Average Price (BPA)			Limit	Frank-Average Price (FAP)		Topup	
		\$12	\$61	\$10	Limit	\$12	\$61	\$10	Limit
TX Channel		181.2	189.2	199.2	650	181.2	189.2	199.2	650
Frequency (MHz)		28.25	28.25	28.19	20.00	19.25	19.33	19.19	20.00
OPNR 1 Tx Wd		28.23	28.20	28.19	20.00	19.23	19.33	19.19	20.00
OPNR 2 Tx Wd		28.46	28.50	28.40	20.00	19.46	19.53	19.40	20.00
OPNR 3 Tx Wd		23.98	24.10	24.00	20.00	19.72	19.87	19.74	20.74
OPNR 4 Tx Wd		21.90	22.00	21.90	20.00	19.90	19.99	19.90	20.00
EDGE 1 Tx Wd		23.89	23.64	23.81	24.00	14.59	14.64	14.81	15.80
EDGE 2 Tx Wd		21.96	22.00	21.90	24.00	14.96	15.00	14.90	19.00
EDGE 3 Tx Wd		20.78	20.85	20.70	21.00	15.52	15.59	15.44	17.04
EDGE 4 Tx Wd		18.71	18.72	18.68	19.00	15.71	15.74	15.68	18.00
		Default WCDMA Avg				Default WCDMA Avg			
		WCDMA II			Topup	WCDMA IV			Topup
TX Channel		5662	5660	5658	Limit	5512	5513	5513	Limit
Frequency (MHz)		5662	5660	5658	650	5512	5513	5513	650
SOPP Rel (g)		21.56	21.52	21.46	22.00	21.72	21.74	21.72	23.00
SOPP Rel (g)	RMV 12 200g	21.54	21.52	21.49	22.00	21.47	21.53	21.44	23.00
SOPP Rate	HEIPA Subclass 1	20.83	20.74	20.49	21.00	20.82	20.86	20.82	22.00
SOPP Rate	HEIPA Subclass 2	20.56	20.69	20.53	21.00	20.47	20.61	20.43	22.00
SOPP Rate	HEIPA Subclass 3	20.71	20.77	20.54	21.00	19.81	20.04	19.65	21.00
SOPP Rate	HEIPA Subclass 4	20.02	20.10	20.02	21.10	19.98	20.00	20.05	21.00
SOPP Rate	DC-HEIPA Subclass 1	20.55	20.73	20.51	21.00	20.48	20.58	20.59	22.00
SOPP Rate	DC-HEIPA Subclass 2	20.34	20.41	20.40	21.00	20.29	20.37	20.31	22.00
SOPP Rate	DC-HEIPA Subclass 3	19.86	19.98	19.84	21.10	19.80	19.87	19.83	21.00
SOPP Rate	DC-HEIPA Subclass 4	19.93	19.96	19.90	21.10	19.76	19.80	19.84	21.00
SOPP Rate	HEIPA Subclass 1	20.59	20.72	20.71	21.00	20.42	20.65	20.60	22.00
SOPP Rate	HEIPA Subclass 2	19.59	19.60	19.45	19.00	19.46	19.49	19.39	20.00
SOPP Rate	HEIPA Subclass 3	19.08	19.00	19.00	20.00	19.49	19.51	19.48	21.00
SOPP Rate	HEIPA Subclass 4	18.43	18.57	18.41	19.00	18.38	18.44	18.33	20.00
SOPP Rate	HEIPA Subclass 5	20.00	20.02	20.06	21.00	20.49	20.53	20.49	22.00



Band 2 DSI_Simultaneous Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (min)	MPR (dB)		
Channel				Ch. 1 / Freq.	Ch. 2 / Freq.	Ch. 3 / Freq.				
20	QPSK	1	0	21.12	21.24	21.07				
20	QPSK	1	49	20.92	21.04	20.96	22	0		
20	QPSK	1	99	20.72	20.84	20.76				
20	QPSK	50	0	21.08	21.20	21.10				
20	QPSK	50	24	20.88	21.00	20.92	22	0		
20	QPSK	50	50	20.68	20.80	20.72				
20	QPSK	100	0	21.04	21.12	21.03				
20	QPSK	100	24	20.80	20.88	20.84	22	0		
20	QPSK	100	49	20.64	20.72	20.69				
20	QPSK	150	0	20.96	21.04	20.99				
20	QPSK	150	24	20.72	20.80	20.76	22	0		
20	QPSK	150	49	20.52	20.60	20.54				
20	QPSK	200	0	21.00	21.08	21.04				
20	QPSK	200	24	20.76	20.84	20.80	22	0		
20	QPSK	200	49	20.56	20.64	20.58				
20	QPSK	250	0	20.92	21.00	20.96				
20	QPSK	250	24	20.68	20.76	20.72	22	0		
20	QPSK	250	49	20.48	20.56	20.52				
20	QPSK	300	0	21.04	21.12	21.08				
20	QPSK	300	24	20.80	20.88	20.84	22	0		
20	QPSK	300	49	20.60	20.68	20.64				
20	QPSK	350	0	20.96	21.04	21.00				
20	QPSK	350	24	20.72	20.80	20.76	22	0		
20	QPSK	350	49	20.52	20.60	20.54				
20	QPSK	400	0	21.00	21.08	21.04				
20	QPSK	400	24	20.76	20.84	20.80	22	0		
20	QPSK	400	49	20.56	20.64	20.58				
20	QPSK	450	0	20.92	21.00	20.96				
20	QPSK	450	24	20.68	20.76	20.72	22	0		
20	QPSK	450	49	20.48	20.56	20.52				
20	QPSK	500	0	21.04	21.12	21.08				
20	QPSK	500	24	20.80	20.88	20.84	22	0		
20	QPSK	500	49	20.60	20.68	20.64				
20	QPSK	550	0	20.96	21.04	21.00				
20	QPSK	550	24	20.72	20.80	20.76	22	0		
20	QPSK	550	49	20.52	20.60	20.54				
20	QPSK	600	0	21.00	21.08	21.04				
20	QPSK	600	24	20.76	20.84	20.80	22	0		
20	QPSK	600	49	20.56	20.64	20.58				
20	QPSK	650	0	20.92	21.00	20.96				
20	QPSK	650	24	20.68	20.76	20.72	22	0		
20	QPSK	650	49	20.48	20.56	20.52				
20	QPSK	700	0	21.04	21.12	21.08				
20	QPSK	700	24	20.80	20.88	20.84	22	0		
20	QPSK	700	49	20.60	20.68	20.64				
20	QPSK	750	0	20.96	21.04	21.00				
20	QPSK	750	24	20.72	20.80	20.76	22	0		
20	QPSK	750	49	20.52	20.60	20.54				
20	QPSK	800	0	21.00	21.08	21.04				
20	QPSK	800	24	20.76	20.84	20.80	22	0		
20	QPSK	800	49	20.56	20.64	20.58				
20	QPSK	850	0	20.92	21.00	20.96				
20	QPSK	850	24	20.68	20.76	20.72	22	0		
20	QPSK	850	49	20.48	20.56	20.52				
20	QPSK	900	0	21.04	21.12	21.08				
20	QPSK	900	24	20.80	20.88	20.84	22	0		
20	QPSK	900	49	20.60	20.68	20.64				
20	QPSK	950	0	20.96	21.04	21.00				
20	QPSK	950	24	20.72	20.80	20.76	22	0		
20	QPSK	950	49	20.52	20.60	20.54				
20	QPSK	1000	0	21.00	21.08	21.04				
20	QPSK	1000	24	20.76	20.84	20.80	22	0		
20	QPSK	1000	49	20.56	20.64	20.58				
20	QPSK	1050	0	20.92	21.00	20.96				
20	QPSK	1050	24	20.68	20.76	20.72	22	0		
20	QPSK	1050	49	20.48	20.56	20.52				
20	QPSK	1100	0	21.04	21.12	21.08				
20	QPSK	1100	24	20.80	20.88	20.84	22	0		
20	QPSK	1100	49	20.60	20.68	20.64				
20	QPSK	1150	0	20.96	21.04	21.00				
20	QPSK	1150	24	20.72	20.80	20.76	22	0		
20	QPSK	1150	49	20.52	20.60	20.54				
20	QPSK	1200	0	21.00	21.08	21.04				
20	QPSK	1200	24	20.76	20.84	20.80	22	0		
20	QPSK	1200	49	20.56	20.64	20.58				
20	QPSK	1250	0	20.92	21.00	20.96				
20	QPSK	1250	24	20.68	20.76	20.72	22	0		
20	QPSK	1250	49	20.48	20.56	20.52				
20	QPSK	1300	0	21.04	21.12	21.08				
20	QPSK	1300	24	20.80	20.88	20.84	22	0		
20	QPSK	1300	49	20.60	20.68	20.64				
20	QPSK	1350	0	20.96	21.04	21.00				
20	QPSK	1350	24	20.72	20.80	20.76	22	0		
20	QPSK	1350	49	20.52	20.60	20.54				
20	QPSK	1400	0	21.00	21.08	21.04				
20	QPSK	1400	24	20.76	20.84	20.80	22	0		
20	QPSK	1400	49	20.56	20.64	20.58				
20	QPSK	1450	0	20.92	21.00	20.96				
20	QPSK	1450	24	20.68	20.76	20.72	22	0		
20	QPSK	1450	49	20.48	20.56	20.52				
20	QPSK	1500	0	21.04	21.12	21.08				
20	QPSK	1500	24	20.80	20.88	20.84	22	0		
20	QPSK	1500	49	20.60	20.68	20.64				
20	QPSK	1550	0	20.96	21.04	21.00				
20	QPSK	1550	24	20.72	20.80	20.76	22	0		
20	QPSK	1550	49	20.52	20.60	20.54				
20	QPSK	1600	0	21.00	21.08	21.04				
20	QPSK	1600	24	20.76	20.84	20.80	22	0		
20	QPSK	1600	49	20.56	20.64	20.58				
20	QPSK	1650	0	20.92	21.00	20.96				
20	QPSK	1650	24	20.68	20.76	20.72	22	0		
20	QPSK	1650	49	20.48	20.56	20.52				
20	QPSK	1700	0	21.04	21.12	21.08				
20	QPSK	1700	24	20.80	20.88	20.84	22	0		
20	QPSK	1700	49	20.60	20.68	20.64				
20	QPSK	1750	0	20.96	21.04	21.00				
20	QPSK	1750	24	20.72	20.80	20.76	22	0		
20	QPSK	1750	49	20.52	20.60	20.54				
20	QPSK	1800	0	21.00	21.08	21.04				
20	QPSK	1800	24	20.76	20.84	20.80	22	0		
20	QPSK	1800	49	20.56	20.64	20.58				
20	QPSK	1850	0	20.92	21.00	20.96				
20	QPSK	1850	24	20.68	20.76	20.72	22	0		
20	QPSK	1850	49	20.48	20.56	20.52				
20	QPSK	1900	0	21.04	21.12	21.08				
20	QPSK	1900	24	20.80	20.88	20.84	22	0		
20	QPSK	1900	49	20.60	20.68	20.64				
20	QPSK	1950	0	20.96	21.04	21.00				
20	QPSK	1950	24	20.72	20.80	20.76	22	0		
20	QPSK	1950	49	20.52	20.60	20.54				
20	QPSK	2000	0	21.00	21.08	21.04				
20	QPSK	2000	24	20.76	20.84	20.80	22	0		
20	QPSK	2000	49	20.56	20.64	20.58				
20	QPSK	2050	0	20.92	21.00	20.96				
20	QPSK	2050	24	20.68	20.76	20.72	22	0		
20	QPSK	2050	49	20.48	20.56	20.52				
20	QPSK									



Band 12 Default Ant 2										
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)										
10	QPSK	1	0	22.51	22.62	22.50				
10	QPSK	1	25	22.40	22.42	22.48				
10	QPSK	1	49	22.26	22.48	22.18				
10	QPSK	25	0	22.40	22.62	22.40				
10	16QAM	25	0	22.30	22.62	22.40				
10	QPSK	25	25	22.29	22.32	22.24				
10	QPSK	50	0	22.34	22.41	22.37				
10	16QAM	50	0	22.41	22.41	22.33				
10	16QAM	1	25	22.39	22.52	22.38				
10	16QAM	1	49	22.18	22.40	22.39				
10	16QAM	25	0	22.51	22.52	22.54				
10	16QAM	25	12	22.29	22.41	22.35				
10	16QAM	25	25	22.27	22.36	22.36				
10	16QAM	50	0	22.40	22.52	22.38				
10	16QAM	50	0	22.40	22.44	22.34				
10	8QAM	1	25	22.39	22.41	22.52				
10	8QAM	1	49	22.14	22.41	22.29				
10	8QAM	25	0	21.24	21.36	21.17				
10	8QAM	25	12	21.13	21.24	21.08				
10	8QAM	25	25	21.03	21.36	21.04				
10	8QAM	50	0	21.25	21.30	21.19				
10	256QAM	1	25	19.52	19.60	19.46				
10	256QAM	1	49	19.35	19.58	19.51				
10	256QAM	1	25	19.34	19.36	19.43				
10	256QAM	25	12	19.34	19.28	19.32				
10	256QAM	25	25	19.12	19.28	19.19				
10	256QAM	50	0	19.22	19.28	19.20				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.43	22.48	22.39				
5	QPSK	1	25	22.30	22.42	22.27				
5	QPSK	1	24	22.14	22.40	22.04				
5	QPSK	12	0	22.29	22.50	22.37				
5	QPSK	12	7	22.25	22.37	22.05				
5	QPSK	12	13	22.24	22.28	22.17				
5	QPSK	25	0	22.22	22.27	22.12				
5	16QAM	1	25	22.35	22.48	22.38				
5	16QAM	1	12	22.25	22.45	22.27				
5	16QAM	1	24	22.09	22.36	22.07				
5	16QAM	12	0	22.47	22.43	22.51				
5	16QAM	12	7	22.18	22.28	22.25				
5	16QAM	12	13	22.15	22.26	22.14				
5	16QAM	25	0	22.37	22.43	22.23				
5	8QAM	1	0	22.25	22.39	22.28				
5	8QAM	1	24	22.09	22.37	22.08				
5	8QAM	1	24	22.05	22.32	22.21				
5	8QAM	12	0	21.28	21.27	21.25				
5	8QAM	12	7	21.11	21.28	21.17				
5	8QAM	12	13	20.98	20.97	21.01				
5	8QAM	25	0	21.17	21.25	21.28				
5	256QAM	1	0	19.50	19.51	19.53				
5	256QAM	1	24	19.25	19.29	19.24				
5	256QAM	12	0	19.36	19.43	19.35				
5	256QAM	12	7	19.22	19.24	19.26				
5	256QAM	12	13	19.17	19.20	19.17				
5	256QAM	25	0	19.27	19.18	19.20				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.41	22.54	22.18				
3	QPSK	1	8	22.33	22.37	22.26				
3	QPSK	1	14	22.11	22.43	22.08				
3	QPSK	8	0	22.30	22.48	22.30				
3	QPSK	8	8	22.19	22.34	22.21				
3	QPSK	8	7	22.21	22.18	22.11				
3	QPSK	16	0	22.27	22.37	22.27				
3	16QAM	1	0	22.26	22.39	22.46				
3	16QAM	1	8	22.31	22.38	22.32				
3	16QAM	1	16	22.05	22.28	22.08				
3	16QAM	8	0	22.37	22.41	22.40				
3	16QAM	8	4	22.18	22.35	22.29				
3	16QAM	8	7	22.13	22.29	22.18				
3	16QAM	15	0	22.36	22.39	22.25				
3	8QAM	1	0	22.27	22.31	22.21				
3	8QAM	1	8	22.34	22.38	22.28				
3	8QAM	1	14	22.06	22.28	22.20				
3	8QAM	8	0	21.32	21.27	21.02				
3	8QAM	8	4	21.04	21.12	20.95				
3	8QAM	8	7	20.98	21.00	20.99				
3	8QAM	15	0	21.19	21.24	21.12				
3	256QAM	1	0	19.20	19.45	19.41				
3	256QAM	1	14	19.27	19.51	19.37				
3	256QAM	1	14	19.24	19.31	19.35				
3	256QAM	8	0	19.10	19.31	19.36				
3	256QAM	8	4	19.24	19.15	19.17				
3	256QAM	8	7	19.09	19.23	19.09				
3	256QAM	15	0	19.20	19.26	19.12				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.41	22.54	22.18				
1.4	QPSK	1	3	22.35	22.28	22.27				
1.4	QPSK	1	5	22.20	22.42	22.04				
1.4	QPSK	3	0	22.34	22.50	22.37				
1.4	QPSK	3	1	22.20	22.50	22.23				
1.4	QPSK	3	3	22.17	22.20	22.20				
1.4	16QAM	1	0	22.33	22.34	22.32				
1.4	16QAM	1	3	22.32	22.40	22.40				
1.4	16QAM	1	6	22.28	22.47	22.25				
1.4	16QAM	3	0	22.44	22.37	22.33				
1.4	16QAM	3	1	22.47	22.47	22.40				
1.4	16QAM	3	1	22.26	22.31	22.25				
1.4	16QAM	3	3	22.17	22.32	22.25				
1.4	16QAM	6	0	22.26	22.43	22.38				
1.4	8QAM	1	0	22.35	22.37	22.29				
1.4	8QAM	1	3	22.25	22.29	22.28				
1.4	8QAM	1	5	22.01	22.33	22.19				
1.4	8QAM	3	0	22.38	22.36	22.40				
1.4	8QAM	3	0	22.16	22.32	22.22				
1.4	8QAM	3	3	22.15	22.29	22.21				
1.4	8QAM	6	0	21.19	21.20	21.11				
1.4	256QAM	1	0	19.26	19.57	19.36				
1.4	256QAM	1	3	19.22	19.56	19.47				
1.4	256QAM	1	5	19.26	19.22	19.30				
1.4	256QAM	3	0	19.10	19.34	19.30				
1.4	256QAM	3	1	19.21	19.18	19.19				
1.4	256QAM	3	3	19.08	19.20	19.14				
1.4	256QAM	6	0	19.17	19.25	19.09				

Band 13 Default Ant 2										
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)										
10	QPSK	1	0	22.53						
10	QPSK	1	25	22.41						
10	QPSK	1	49	22.43						
10	QPSK	25	0	22.45						
10	QPSK	25	12	22.40						
10	QPSK	25	25	22.26						
10	QPSK	50	0	22.32						
10	16QAM	1	25	22.45						
10	16QAM	1	25	22.47						
10	16QAM	1	49	22.40						
10	16QAM	25	0	22.54						
10	16QAM	25	12	22.35						
10	16QAM	25	25	22.28						
10	16QAM	50	0	22.45						
10	8QAM	1	25	22.42						
10	8QAM	1	49	22.41						
10	8QAM	25	0	21.30						
10	8QAM	25	12	21.20						
10	8QAM	25	25	21.04						
10	8QAM	50	0	21.26						
10	256QAM	1	25	19.49						



Band 25 DS15_SimultaneousAnt 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power Hsp./F.Freq.	Power Mtx./F.Freq.	Turn-up Time (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.26	21.27	21.28				
20	QPSK	1	49	21.12	21.13	21.14			22.7	0
20	QPSK	1	99	21.12	21.13	21.14				
20	QPSK	50	0	21.13	21.13	21.14				
20	QPSK	50	49	21.18	21.18	21.19			22.7	0
20	QPSK	50	99	21.12	21.12	21.17				
20	QPSK	100	0	21.14	21.14	21.18				
20	QPSK	100	49	21.05	21.05	21.09			22.7	0
20	16QAM	1	49	21.12	21.12	21.20				
20	16QAM	1	99	21.11	21.15	21.14				
20	16QAM	50	0	21.08	21.08	21.07			22.7	0
20	16QAM	50	24	21.12	21.18	21.10				
20	16QAM	50	99	21.08	21.20	21.11				
20	16QAM	100	0	21.13	21.09	21.23				
20	16QAM	100	49	21.05	21.09	20.93				
20	16QAM	100	99	21.01	21.14	21.05			22.7	0
20	16QAM	100	149	21.07	21.17	21.08				
20	16QAM	20	24	21.16	21.12	21.06			22.7	0
20	16QAM	20	99	21.08	21.15	21.15				
20	16QAM	40	0	21.05	21.09	20.93				
20	16QAM	40	49	21.01	21.14	21.05			22.7	0
20	16QAM	40	99	21.07	21.17	21.08				
20	16QAM	80	0	21.05	21.09	20.93				
20	16QAM	80	49	21.01	21.14	21.05			22.7	0
20	16QAM	80	99	21.07	21.17	21.08				
20	16QAM	160	0	21.07	21.12	21.06				
20	16QAM	160	49	21.08	21.15	21.08			22.7	0
20	16QAM	160	99	21.05	21.09	20.93				
20	16QAM	320	0	21.08	21.13	21.08				
20	16QAM	320	49	21.01	21.05	21.10			22.7	0
20	16QAM	320	99	21.03	21.04	20.94				
20	16QAM	640	0	21.03	21.04	20.94			22.7	0
20	16QAM	640	49	21.03	21.04	20.94				
20	16QAM	640	99	21.03	21.04	20.94			22.7	0
20	16QAM	1280	0	21.03	21.04	20.94				
20	16QAM	1280	49	21.03	21.04	20.94			22.7	0
20	16QAM	1280	99	21.03	21.04	20.94				
20	16QAM	2560	0	21.03	21.04	20.94				
20	16QAM	2560	49	21.03	21.04	20.94			22.7	0
20	16QAM	2560	99	21.03	21.04	20.94				
20	16QAM	5120	0	21.03	21.04	20.94				
20	16QAM	5120	49	21.03	21.04	20.94			22.7	0
20	16QAM	5120	99	21.03	21.04	20.94				
20	16QAM	10240	0	21.03	21.04	20.94				
20	16QAM	10240	49	21.03	21.04	20.94			22.7	0
20	16QAM	10240	99	21.03	21.04	20.94				
20	16QAM	20480	0	21.03	21.04	20.94				
20	16QAM	20480	49	21.03	21.04	20.94			22.7	0
20	16QAM	20480	99	21.03	21.04	20.94				
20	16QAM	40960	0	21.03	21.04	20.94				
20	16QAM	40960	49	21.03	21.04	20.94			22.7	0
20	16QAM	40960	99	21.03	21.04	20.94				
20	16QAM	81920	0	21.03	21.04	20.94				
20	16QAM	81920	49	21.03	21.04	20.94			22.7	0
20	16QAM	81920	99	21.03	21.04	20.94				
20	16QAM	163840	0	21.03	21.04	20.94				
20	16QAM	163840	49	21.03	21.04	20.94			22.7	0
20	16QAM	163840	99	21.03	21.04	20.94				
20	16QAM	327680	0	21.03	21.04	20.94				
20	16QAM	327680	49	21.03	21.04	20.94			22.7	0
20	16QAM	327680	99	21.03	21.04	20.94				
20	16QAM	655360	0	21.03	21.04	20.94				
20	16QAM	655360	49	21.03	21.04	20.94			22.7	0
20	16QAM	655360	99	21.03	21.04	20.94				
20	16QAM	1310720	0	21.03	21.04	20.94				
20	16QAM	1310720	49	21.03	21.04	20.94			22.7	0
20	16QAM	1310720	99	21.03	21.04	20.94				
20	16QAM	2621440	0	21.03	21.04	20.94				
20	16QAM	2621440	49	21.03	21.04	20.94			22.7	0
20	16QAM	2621440	99	21.03	21.04	20.94				
20	16QAM	5242880	0	21.03	21.04	20.94				
20	16QAM	5242880	49	21.03	21.04	20.94			22.7	0
20	16QAM	5242880	99	21.03	21.04	20.94				
20	16QAM	10485760	0	21.03	21.04	20.94				
20	16QAM	10485760	49	21.03	21.04	20.94			22.7	0
20	16QAM	10485760	99	21.03	21.04	20.94				
20	16QAM	20971520	0	21.03	21.04	20.94				
20	16QAM	20971520	49	21.03	21.04	20.94			22.7	0
20	16QAM	20971520	99	21.03	21.04	20.94				
20	16QAM	41943040	0	21.03	21.04	20.94				
20	16QAM	41943040	49	21.03	21.04	20.94			22.7	0
20	16QAM	41943040	99	21.03	21.04	20.94				
20	16QAM	83886080	0	21.03	21.04	20.94				
20	16QAM	83886080	49	21.03	21.04	20.94			22.7	0
20	16QAM	83886080	99	21.03	21.04	20.94				
20	16QAM	167772160	0	21.03	21.04	20.94				
20	16QAM	167772160	49	21.03	21.04	20.94			22.7	0
20	16QAM	167772160	99	21.03	21.04	20.94				
20	16QAM	335544320	0	21.03	21.04	20.94				
20	16QAM	335544320	49	21.03	21.04	20.94			22.7	0
20	16QAM	335544320	99	21.03	21.04	20.94				
20	16QAM	671088640	0	21.03	21.04	20.94				
20	16QAM	671088640	49	21.03	21.04	20.94			22.7	0
20	16QAM	671088640	99	21.03	21.04	20.94				
20	16QAM	1342177280	0	21.03	21.04	20.94				
20	16QAM	1342177280	49	21.03	21.04	20.94			22.7	0
20	16QAM	1342177280	99	21.03	21.04	20.94				
20	16QAM	2684354560	0	21.03	21.04	20.94				
20	16QAM	2684354560	49	21.03	21.04	20.94			22.7	0
20	16QAM	2684354560	99	21.03	21.04	20.94				
20	16QAM	5368709120	0	21.03	21.04	20.94				
20	16QAM	5368709120	49	21.03	21.04	20.94			22.7	0
20	16QAM	5368709120	99	21.03	21.04	20.94				
20	16QAM	10737418240	0	21.03	21.04	20.94				
20	16QAM	10737418240	49	21.03	21.04	20.94			22.7	0
20	16QAM	10737418240	99	21.03	21.04	20.94				
20	16QAM	21474836480	0	21.03	21.04	20.94				
20	16QAM	21474836480	49	21.03	21.04	20.94			22.7	0
20	16QAM	21474836480	99	21.03	21.04	20.94				
20	16QAM	42949672960	0	21.03	21.04	20.94				
20	16QAM	42949672960	49	21.03	21.04	20.94			22.7	0
20	16QAM	42949672960	99	21.03	21.04	20.94				
20	16QAM	85899345920	0	21.03	21.04	20.94				
20	16QAM	85899345920	49	21.03	21.04	20.94			22.7	0
20	16QAM	85899345920	99	21.03	21.04	20.94				
20	16QAM	171798691840	0	21.03	21.04	20.94				
20	16QAM	171798691840	49	21.03	21.04	20.94			22.7	0
20	16QAM	171798691840	99	21.03	21.04	20.94				
20	16QAM	343597383680	0	21.03	21.04	20.94				
20	16QAM	343597383680	49	21.03	21.04	20.94			22.7	0
20	16QAM	343597383680	99	21.03	21.04	20.94				



Band 38 DS15_Simultaneous Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPR (dB)		
Channel										
				37860	38000	38150				
Frequency (MHz)										
20	QPSK	1	0	18.50	18.60	18.70				
20	QPSK	1	49	18.51	18.55	18.31	19.9	0		
20	QPSK	1	99	18.46	18.50	18.46				
20	QPSK	50	0	18.40	18.50	18.52				
20	QPSK	50	24	18.25	18.41	18.33	19.9	0		
20	QPSK	50	49	18.44	18.48	18.44				
20	QPSK	100	0	18.29	18.39	18.38				
20	HQAM	1	0	18.36	18.47	18.32	19.9	0		
20	HQAM	1	49	18.43	18.35	18.32				
20	HQAM	1	99	18.36	18.47	18.23				
20	HQAM	50	0	18.28	18.48	18.40				
20	HQAM	50	24	18.26	18.47	18.31	19.9	0		
20	HQAM	50	49	18.26	18.38	18.20				
20	HQAM	100	0	18.40	18.21	18.26				
20	HQAM	100	0	18.25	18.35	18.35				
20	HQAM	1	49	18.36	18.41	18.48	19.9	0		
20	HQAM	1	99	18.33	18.39	18.37				
20	HQAM	50	0	18.44	18.47	18.35				
20	HQAM	50	24	18.34	18.49	18.20	19.9	0		
20	HQAM	50	49	18.42	18.39	18.23				
20	HQAM	100	0	18.37	18.36	18.24				
20	256QAM	1	0	18.39	18.37	18.41				
20	256QAM	1	49	18.32	18.40	18.42	19.5	0.4		
20	256QAM	1	99	18.32	18.55	18.29				
20	256QAM	50	0	18.32	18.37	18.29				
20	256QAM	50	24	18.48	18.45	18.31	19.5	0.4		
20	256QAM	50	49	18.29	18.36	18.27				
20	256QAM	100	0	18.42	18.30	18.17				
Channel										
				37865	38000	38175				
Frequency (MHz)										
15	QPSK	1	0	18.43	18.51	18.30				
15	QPSK	1	37	18.46	18.51	18.20	19.9	0		
15	QPSK	1	74	18.41	18.43	18.36				
15	QPSK	36	0	18.34	18.40	18.30				
15	QPSK	36	20	18.18	18.33	18.20	19.9	0		
15	QPSK	36	39	18.40	18.37	18.20				
15	QPSK	75	0	18.22	18.32	18.38				
15	HQAM	1	0	18.31	18.44	18.23				
15	HQAM	1	37	18.36	18.29	18.20	19.9	0		
15	HQAM	1	74	18.31	18.39	18.17				
15	HQAM	36	0	18.18	18.38	18.34				
15	HQAM	36	20	18.23	18.40	18.21	19.9	0		
15	HQAM	36	39	18.22	18.34	18.16				
15	HQAM	75	0	18.39	18.10	18.27				
15	HQAM	1	37	18.30	18.34	18.39	19.9	0		
15	HQAM	1	74	18.29	18.36	18.22				
15	HQAM	36	0	18.36	18.30	18.20				
15	HQAM	36	20	18.31	18.44	18.19	19.9	0		
15	HQAM	36	39	18.34	18.31	18.20				
15	HQAM	75	0	18.33	18.45	18.14				
15	256QAM	1	0	18.39	18.28	18.40				
15	256QAM	1	37	18.32	18.42	18.30	19.5	0.4		
15	256QAM	1	74	18.32	18.49	18.23				
15	256QAM	36	0	18.28	18.34	18.20				
15	256QAM	36	20	18.43	18.33	18.20	19.5	0.4		
15	256QAM	36	39	18.22	18.33	18.17				
15	256QAM	75	0	18.39	18.33	18.15				
Channel										
				37870	38000	38175				
Frequency (MHz)										
10	QPSK	1	0	18.41	18.38	18.38				
10	QPSK	1	25	18.49	18.49	18.28	19.9	0		
10	QPSK	1	49	18.45	18.42	18.41				
10	QPSK	12	0	18.32	18.43	18.32				
10	QPSK	25	12	18.23	18.32	18.28	19.9	0		
10	QPSK	25	25	18.42	18.34	18.32				
10	QPSK	50	0	18.30	18.33	18.20				
10	HQAM	1	0	18.27	18.38	18.20				
10	HQAM	1	25	18.36	18.29	18.15	19.9	0		
10	HQAM	1	49	18.28	18.43	18.15				
10	HQAM	25	0	18.23	18.42	18.38				
10	HQAM	25	12	18.22	18.41	18.27	19.9	0		
10	HQAM	25	25	18.22	18.35	18.18				
10	HQAM	50	0	18.35	18.30	18.32				
10	HQAM	50	12	18.40	18.30	18.20	19.9	0		
10	HQAM	50	25	18.29	18.36	18.41				
10	HQAM	1	49	18.25	18.34	18.24				
10	HQAM	25	0	18.37	18.39	18.20	19.9	0		
10	HQAM	25	12	18.28	18.44	18.10				
10	HQAM	25	25	18.33	18.31	18.14				
10	HQAM	50	0	18.28	18.48	18.20				
10	256QAM	1	0	18.29	18.33	18.40				
10	256QAM	1	49	18.29	18.40	18.20	19.5	0.4		
10	256QAM	1	99	18.29	18.33	18.40				
10	256QAM	50	0	18.25	18.35	18.31				
10	256QAM	25	12	18.45	18.45	18.24	19.5	0.4		
10	256QAM	25	25	18.23	18.25	18.20				
10	256QAM	50	0	18.33	18.36	18.17				
Channel										
				37875	38000	38175				
Frequency (MHz)										
5	QPSK	1	0	18.47	18.54	18.38				
5	QPSK	1	12	18.43	18.49	18.20	19.9	0		
5	QPSK	1	24	18.45	18.40	18.39				
5	QPSK	12	0	18.33	18.42	18.27				
5	QPSK	12	7	18.15	18.33	18.30	19.9	0		
5	QPSK	12	13	18.40	18.33	18.20				
5	QPSK	25	0	18.37	18.35	18.20				
5	HQAM	1	0	18.28	18.44	18.26				
5	HQAM	1	12	18.41	18.26	18.19	19.9	0		
5	HQAM	1	24	18.30	18.38	18.30				
5	HQAM	12	0	18.20	18.40	18.31				
5	HQAM	12	7	18.18	18.38	18.16	19.9	0		
5	HQAM	12	13	18.16	18.34	18.16				
5	HQAM	25	0	18.30	18.16	18.32				
5	HQAM	1	0	18.18	18.29	18.37				
5	HQAM	1	12	18.28	18.33	18.44	19.9	0		
5	HQAM	1	24	18.25	18.35	18.20				
5	HQAM	12	0	18.36	18.47	18.15				
5	HQAM	12	13	18.36	18.36	18.21	19.9	0		
5	HQAM	25	0	18.36	18.47	18.15				
5	256QAM	1	0	18.38	18.29	18.44				
5	256QAM	1	12	18.25	18.40	18.41	19.5	0.4		
5	256QAM	1	24	18.23	18.46	18.20				
5	256QAM	12	0	18.27	18.37	18.20				
5	256QAM	12	7	18.39	18.41	18.26	19.5	0.4		
5	256QAM	12	13	18.24	18.30	18.20				
5	256QAM	25	0	18.40	18.32	18.15				

Band 41 PC3 FCC&IC DS15_Simultaneous Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPR (dB)		
Channel										
				39750	40185	40600				
Frequency (MHz)										
20	QPSK	1	0	18.50	18.73	18.13				
20	QPSK	1	49	18.48	18.53	18.72	19.9	0		
20	QPSK	1	99	18.46	18.60	18.56				
20	QPSK	50	0	18.38	18.45	18.73				
20	QPSK	50	24	18.24	18.36	18.42	19.9	0		
20	QPSK	50	49	18.44	18.54	18.38				
20	QPSK	100	0	18.30	18.52	18.61				
20	HQAM	1	0	18.38	18.51	18.38	19.9	0		
20	HQAM	1	49	18.38	18.35	18.35				
20	HQAM	1	99	18.23	18.56	18.56				
20	HQAM	50	0	18.21	18.50	18.71	19.9	0		
20	HQAM	50	24	18.45	18.48	18.67				
20	HQAM	50	49	18.43	18.33	18.46	19.9	0		
20	HQAM	100	0	18.41	18.56	18.46				
20	HQAM	1								



Band 41 PC2 FCC&C DSI5_Simultaneous Ant 2											
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int (dBm)	MRR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	20.14	20.22	20.31	20.39	20.48	20.57	21.5	0
20	QPSK	1	45	20.00	20.19	20.52	19.89	20.07	20.07		
20	QPSK	1	99	20.00	20.00	20.00	20.07	19.96			
20	QPSK	50	0	19.99	19.98	20.02	20.12	19.99			
20	QPSK	50	24	19.73	19.84	19.97	19.91	19.91			
20	QPSK	50	49	19.85	19.85	19.95	19.95	19.84			
20	QPSK	100	0	19.97	19.95	20.07	19.91	19.92			
20	HQAM	1	0	19.95	20.15	20.16	19.89	19.78			
20	HQAM	1	45	19.83	19.89	20.00	19.92	19.76			
20	HQAM	1	99	19.89	19.91	19.90	19.89	19.91			
20	HQAM	50	0	19.89	20.07	20.20	20.02	19.94			
20	HQAM	50	24	19.86	20.04	20.12	20.04	19.82			
20	HQAM	50	49	19.80	20.08	20.10	19.79	19.97			
20	HQAM	100	0	19.80	19.84	19.90	19.79	19.82			
20	BQAM	1	45	19.97	19.86	19.85	19.81	19.92			
20	BQAM	1	99	19.80	19.83	20.00	20.04	19.84			
20	BQAM	50	0	19.87	20.10	20.00	20.00	19.79			
20	BQAM	50	24	19.92	19.87	20.17	19.99	20.00			
20	BQAM	50	49	19.73	19.84	20.00	19.86	19.99			
20	BQAM	100	0	19.86	19.94	20.13	19.96	19.88			
20	25QAM	1	0	19.76	19.88	20.16	20.09	19.92			
20	25QAM	1	45	19.81	19.93	20.24	20.00	19.80			
20	25QAM	1	99	19.80	19.90	19.97	19.78	19.84			
20	25QAM	50	0	19.80	19.84	20.02	19.77	19.82			
20	25QAM	50	24	19.88	19.80	20.14	19.94	19.81			
20	25QAM	50	49	19.81	19.81	19.85	19.80	19.90			
20	25QAM	100	0	19.74	19.82	20.00	19.80	19.86			
Channel											
Frequency (MHz)											
15	QPSK	36	0	20.11	20.19	20.24	20.13	20.15			
15	QPSK	1	37	19.87	20.13	19.87	19.93	19.89			
15	QPSK	1	74	19.98	20.00	20.02	19.98	19.87			
15	QPSK	36	0	19.83	19.83	20.16	19.80	19.85			
15	QPSK	36	20	19.71	19.76	19.89	19.87	19.85			
15	QPSK	75	0	19.88	19.92	20.03	19.85	19.89			
15	HQAM	1	0	19.88	20.08	20.07	19.81	19.75			
15	HQAM	1	37	19.79	19.86	20.00	19.86	19.71			
15	HQAM	1	74	19.80	19.85	19.83	19.82	19.86			
15	HQAM	36	0	19.88	20.02	20.14	20.00	19.87			
15	HQAM	36	20	19.82	19.80	20.00	19.80	19.86			
15	HQAM	36	39	19.71	20.05	20.03	19.76	19.91			
15	HQAM	75	0	19.73	19.75	19.81	19.74	19.74			
15	BQAM	1	0	19.88	19.74	19.89	19.89	19.89			
15	BQAM	1	37	19.89	19.88	19.92	19.77	19.89			
15	BQAM	1	74	19.74	19.73	19.85	20.00	19.76			
15	BQAM	36	0	19.85	20.02	19.85	20.01	19.83			
15	BQAM	36	20	19.85	19.78	20.09	19.83	19.70			
15	BQAM	36	39	19.80	19.80	19.80	19.80	19.80			
15	BQAM	75	0	19.79	19.87	20.07	19.92	19.83			
15	25QAM	1	0	19.72	19.80	20.14	20.05	19.88			
15	25QAM	1	37	19.84	19.79	19.80	19.80	19.77			
15	25QAM	1	74	19.77	19.85	19.85	19.71	19.78			
15	25QAM	36	0	19.77	19.87	20.04	19.89	19.84			
15	25QAM	36	20	19.83	19.79	20.00	19.89	19.72			
15	25QAM	36	39	19.78	19.88	19.91	19.86	19.87			
15	25QAM	75	0	19.69	19.82	20.00	19.82	19.77			
Channel											
Frequency (MHz)											
10	QPSK	1	0	20.07	20.14	20.24	20.17	20.18			
10	QPSK	1	25	19.98	20.11	19.95	19.95	20.02			
10	QPSK	1	49	20.08	20.02	19.88	19.89	19.89			
10	QPSK	1	74	19.82	19.78	19.80	19.80	19.84			
10	QPSK	25	12	19.68	19.81	19.83	19.87	19.88			
10	QPSK	25	25	19.76	19.88	19.84	19.97	19.99			
10	QPSK	50	0	19.80	19.83	20.00	19.80	19.86			
10	HQAM	1	0	19.88	20.07	20.07	19.86	19.71			
10	HQAM	1	25	19.81	19.82	20.02	19.82	19.73			
10	HQAM	1	49	19.82	19.84	19.89	19.82	19.87			
10	HQAM	25	0	19.86	19.89	20.11	19.89	19.91			
10	HQAM	25	12	19.78	20.01	20.10	19.89	19.87			
10	HQAM	25	25	19.74	20.02	20.07	19.70	19.91			
10	HQAM	50	0	19.72	19.76	19.80	19.72	19.79			
10	BQAM	1	0	19.86	19.88	20.00	19.80	19.86			
10	BQAM	1	25	19.81	19.82	19.90	19.73	19.89			
10	BQAM	1	49	19.70	19.78	20.02	19.99	19.76			
10	BQAM	25	0	19.82	20.05	20.02	20.06	19.70			
10	BQAM	25	12	19.84	19.77	20.13	19.97	19.97			
10	BQAM	25	25	19.63	19.77	20.01	19.78	19.97			
10	BQAM	50	0	19.80	19.87	20.00	19.89	19.80			
10	25QAM	1	0	19.73	19.92	20.10	20.03	19.85			
10	25QAM	1	25	19.87	19.70	19.86	19.98	19.70			
10	25QAM	1	49	19.72	19.87	19.83	19.73	19.81			
10	25QAM	25	0	19.76	19.81	20.08	19.89	19.91			
10	25QAM	25	12	19.80	19.75	20.00	19.86	19.70			
10	25QAM	25	25	19.76	19.81	19.85	19.94	19.83			
10	25QAM	50	0	19.68	19.86	20.05	19.87	19.80			
Channel											
Frequency (MHz)											
5	QPSK	1	0	20.05	20.20	20.25	20.13	20.07			
5	QPSK	1	12	19.92	20.14	19.81	19.84	20.04			
5	QPSK	1	24	20.00	19.98	19.89	20.00	19.83			
5	QPSK	12	0	19.88	19.78	19.85	20.09	19.80			
5	QPSK	12	7	19.68	19.79	19.87	19.87	19.85			
5	QPSK	12	13	19.78	20.01	19.82	19.85	19.90			
5	QPSK	25	0	19.81	19.87	19.89	19.89	19.86			
5	HQAM	1	0	19.89	20.09	20.13	19.86	19.68			
5	HQAM	1	12	19.78	19.80	20.04	19.89	19.70			
5	HQAM	1	24	19.86	19.88	19.84	19.82	19.87			
5	HQAM	12	0	19.84	20.05	20.18	19.83	19.86			
5	HQAM	12	7	19.84	19.87	20.05	20.02	19.83			
5	HQAM	12	13	19.73	20.03	20.05	19.73	19.89			
5	HQAM	25	0	19.71	19.76	19.81	19.74	19.81			
5	BQAM	1	0	19.89	19.74	19.86	20.04	19.68			
5	BQAM	1	12	19.83	19.86	19.80	19.71	19.86			
5	BQAM	1	24	19.76	19.79	19.86	19.96	19.71			
5	BQAM	12	0	19.80	20.08	20.05	19.80	19.81			
5	BQAM	12	7	19.87	19.76	20.08	19.82	19.84			
5	BQAM	12	13	19.68	19.76	19.80	19.82	19.91			
5	BQAM	25	0	19.83	19.82	20.00	19.86	19.82			
5	25QAM	1	0	19.72	19.82	20.13	20.05	19.84			
5	25QAM	1	12	19.87	19.69	19.89	19.99	19.72			
5	25QAM	1	24	19.71	19.81	19.89	19.70	19.80			
5	25QAM	12	0	19.70	19.78	20.12	19.82	19.74			
5	25QAM	12	13	19.77	19.85	19.81	19.80	19.81			
5	25QAM	25	0	19.87	19.88	20.07	19.83	19.78			

Band 48 DSI5_Simultaneous Ant 2										
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch / F						



B/N	CSM/1000 Act	DRG Simulations						
		Band A (MHz)			Band B (MHz)		Band C (MHz)	
TX Channel	812	861	810	Limit	812	861	810	Tuneup Limit
Frequency (MHz)	1910.2	1910	1910.2	(MHz)	1910.2	1910	1910.2	(MHz)
DRM 1 Tx Wd	20.04	20.01	20.00	30.00	20.04	20.01	20.00	21.00
DRM 1 Tx Wd	20.47	20.50	20.45	30.00	20.47	20.50	20.45	21.00
DRM 2 Tx Wd	20.76	20.84	20.79	30.00	20.76	20.84	20.79	22.00
DRM 3 Tx Wd	20.17	20.22	20.20	30.00	20.17	21.00	20.99	22.00
DRM 4 Tx Wd	22.80	22.87	22.80	24.00	19.80	19.87	19.80	21.00
EDGE 1 Tx Wd	20.06	20.13	20.09	20.00	18.06	18.13	18.09	17.00
EDGE 2 Tx Wd	21.33	21.43	21.40	24.00	17.33	17.43	17.40	18.00
EDGE 3 Tx Wd	22.21	22.25	22.20	23.00	17.20	18.00	17.99	19.24
EDGE 4 Tx Wd	20.13	20.18	20.08	21.00	17.13	17.18	17.08	18.00
		DRG Simulations W/CSM 1000				DRG Simulations W/CSM 1000		
Band		WCDMA B		Tuneup	WCDMA IV		Tuneup	
TX Channel	862	860	858	Limit	812	861	810	Limit
Frequency (MHz)	1962	1960	1958	(MHz)	1910.2	1910	1910.2	(MHz)
SOPP Rel (g)	22.00	22.00	22.00	21.00	20.24	20.24	20.24	21.70
SOPP Rel (g)	22.11	22.22	22.17	23.00	20.34	20.45	20.37	21.70
SOPP Rate	HEIPA Subclass 1	21.12	21.24	21.17	22.00	19.30	19.44	19.47
SOPP Rate	HEIPA Subclass 2	21.18	21.23	21.03	22.00	19.33	19.32	19.24
SOPP Rate	HEIPA Subclass 3	20.70	20.65	20.62	21.00	18.61	18.50	18.60
SOPP Rate	HEIPA Subclass 4	20.07	20.03	20.73	21.00	18.81	18.04	18.93
SOPP Rate	DC-HEIPA Subclass 1	21.14	21.22	21.05	22.00	19.34	19.52	19.36
SOPP Rate	DC-HEIPA Subclass 2	21.15	21.18	21.20	22.00	19.32	19.43	19.44
SOPP Rate	DC-HEIPA Subclass 3	20.51	20.50	20.80	21.00	18.81	18.50	18.69
SOPP Rate	DC-HEIPA Subclass 4	20.52	20.71	20.61	21.00	18.71	18.00	18.71
SOPP Rate	HEIPA Subclass 1	21.14	21.38	21.07	22.00	19.44	19.62	19.33
SOPP Rate	HEIPA Subclass 2	20.20	20.20	20.24	20.00	17.50	17.44	17.46
SOPP Rate	HEIPA Subclass 3	20.36	20.11	20.11	21.00	18.49	18.40	18.30
SOPP Rate	HEIPA Subclass 4	19.09	19.37	19.35	20.00	17.27	17.67	17.43
SOPP Rate	HEIPA Subclass 5	21.12	21.20	21.03	22.00	19.31	19.32	19.26



Band 2 DSIS_Simultaneous Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up limit (min)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.22	21.23	21.18				
20	QPSK	1	49	20.99	21.00	21.05	22.8	0		
20	QPSK	1	99	20.99	21.00	21.11				
20	QPSK	50	0	21.06	21.22	21.06				
20	QPSK	50	24	21.05	21.05	21.08				
20	QPSK	50	50	21.04	21.07	21.03	22.8	0		
20	QPSK	100	0	21.03	21.14	20.97				
20	16QAM	50	0	20.94	21.08	20.98				
20	16QAM	1	49	21.05	21.09	21.13	22.8	0		
20	16QAM	1	99	20.97	21.07	21.05				
20	16QAM	50	0	21.10	21.10	20.92				
20	16QAM	50	24	21.03	21.09	20.97	22.8	0		
20	16QAM	50	50	21.02	21.06	21.01				
20	16QAM	100	0	20.92	20.98	20.93				
20	84QAM	1	49	20.98	21.07	20.93	22.8	0		
20	84QAM	1	99	20.94	20.98	20.99				
20	84QAM	50	0	21.04	21.10	21.05				
20	84QAM	50	24	21.00	21.13	20.99	22.8	0		
20	84QAM	50	50	21.02	21.06	21.01				
20	84QAM	100	0	20.92	20.98	20.93				
20	256QAM	1	49	19.51	19.51	19.45	21	1.8		
20	256QAM	1	99	19.38	19.43	19.33				
20	256QAM	50	0	19.34	19.39	19.39				
20	256QAM	50	24	19.33	19.39	19.36	21	1.8		
20	256QAM	50	50	19.25	19.35	19.32				
20	256QAM	100	0	19.23	19.29	19.23				
Channel										
Frequency (MHz)										
15	QPSK	1	0	21.07	21.21	21.12				
15	QPSK	1	37	21.02	21.18	20.97	22.8	0		
15	QPSK	1	74	20.99	21.05	20.98				
15	QPSK	36	0	20.92	21.13	21.02				
15	QPSK	36	29	20.95	20.95	20.97				
15	QPSK	36	39	20.92	20.95	20.89	22.8	0		
15	16QAM	75	0	20.94	21.14	20.95				
15	16QAM	1	37	20.95	21.04	21.07	22.8	0		
15	16QAM	1	74	20.97	20.98	20.98				
15	16QAM	36	0	21.02	20.99	20.96				
15	16QAM	36	29	20.90	20.99	20.87	22.8	0		
15	16QAM	36	39	20.94	20.98	20.99				
15	84QAM	1	37	20.98	20.98	20.83	22.8	0		
15	84QAM	1	74	20.98	20.98	21.02				
15	84QAM	1	99	20.88	20.89	20.83				
15	84QAM	36	0	20.93	20.93	20.82	22.8	0		
15	84QAM	36	29	20.83	20.93	20.91				
15	84QAM	36	39	20.83	20.93	20.87				
15	84QAM	75	0	20.89	20.89	20.82				
15	256QAM	1	37	19.39	19.39	19.40	21	1.8		
15	256QAM	1	74	19.33	19.30	19.26				
15	256QAM	36	0	19.25	19.25	19.26				
15	256QAM	36	29	19.23	19.25	19.26	21	1.8		
15	256QAM	36	39	19.14	19.23	19.20				
15	256QAM	75	0	19.13	19.23	19.20				
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.08	21.20	21.05				
10	QPSK	1	25	21.01	21.14	21.04	22.8	0		
10	QPSK	1	49	20.85	21.03	21.07				
10	QPSK	12	0	21.03	21.06	20.98				
10	QPSK	25	12	20.90	20.92	20.89				
10	QPSK	25	25	20.93	20.98	20.88	22.8	0		
10	16QAM	75	0	20.96	21.08	20.83				
10	16QAM	1	25	20.88	21.00	20.79	22.8	0		
10	16QAM	1	49	20.83	20.86	20.86				
10	16QAM	25	0	20.99	20.97	20.79				
10	16QAM	25	12	20.93	20.98	20.90	22.8	0		
10	16QAM	25	25	20.91	21.00	20.98				
10	16QAM	50	0	20.95	21.02	21.01				
10	84QAM	1	25	20.88	20.95	20.88	22.8	0		
10	84QAM	1	49	20.86	20.88	20.87				
10	84QAM	25	0	20.96	21.11	20.91				
10	84QAM	25	12	20.93	20.98	20.87	22.8	0		
10	84QAM	25	25	20.92	21.05	20.96				
10	84QAM	50	0	20.93	20.92	20.81				
10	256QAM	1	25	19.38	19.37	19.34	21	1.8		
10	256QAM	1	49	19.27	19.31	19.27				
10	256QAM	12	0	19.25	19.45	19.28				
10	256QAM	25	12	19.28	19.36	19.26	21	1.8		
10	256QAM	25	25	19.14	19.28	19.19				
10	256QAM	50	0	19.13	19.28	19.20				
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.13	21.20	21.10				
5	QPSK	1	12	21.04	21.11	21.00	22.8	0		
5	QPSK	1	24	20.95	21.00	21.03				
5	QPSK	12	0	21.03	21.06	20.98				
5	QPSK	12	7	20.91	20.97	20.92				
5	QPSK	12	13	20.92	21.03	20.98	22.8	0		
5	QPSK	25	0	20.92	21.08	20.98				
5	16QAM	1	0	20.82	21.00	20.77	22.8	0		
5	16QAM	1	12	20.91	21.01	21.09				
5	16QAM	1	24	20.85	21.04	20.92				
5	16QAM	12	0	20.96	20.98	20.85				
5	16QAM	12	7	20.98	21.06	20.91	22.8	0		
5	16QAM	12	13	20.93	20.98	20.88				
5	16QAM	25	0	20.93	21.01	20.99				
5	84QAM	1	0	20.82	20.93	20.83	22.8	0		
5	84QAM	1	12	20.92	21.01	20.92				
5	84QAM	1	24	20.85	20.94	20.85				
5	84QAM	12	0	20.97	21.06	21.01	22.8	0		
5	84QAM	12	7	20.86	21.02	20.88				
5	84QAM	12	13	20.81	20.95	20.87				
5	84QAM	25	0	20.86	20.98	20.84				
5	84QAM	15	0	20.89	20.98	20.89				
5	256QAM	1	12	19.43	19.52	19.42	21	1.8		
5	256QAM	1	24	19.25	19.33	19.29				
5	256QAM	12	0	19.26	19.45	19.33				
5	256QAM	12	7	19.28	19.33	19.25	21	1.8		
5	256QAM	12	13	19.13	19.29	19.28				
5	256QAM	25	0	19.13	19.29	19.46				
Channel										
Frequency (MHz)										
3	QPSK	1	0	21.12	21.17	21.07				
3	QPSK	1	8	21.01	21.21	20.98	22.8	0		
3	QPSK	1	14	20.95	21.05	20.97				
3	QPSK	8	0	20.97	21.09	20.94				
3	QPSK	8	4	20.95	20.98	20.88	22.8	0		
3	QPSK	8	7	20.91	21.03	20.91				
3	QPSK	15	0	21.00	21.05	20.83				
3	16QAM	1	0	20.83	20.98	20.80	22.8	0		
3	16QAM	1	8	20.97	20.98	20.88				
3	16QAM	1	14	20.83	20.96	21.01				
3	16QAM	8	0	20.96	20.98	20.84	22.8	0		
3	16QAM	8	4	20.92	20.96	20.83				
3	16QAM	8	7	20.90	20.99	20.92				
3	16QAM	15	0	21.00	21.01	20.99				
3	84QAM	1	0	20.77	20.91	20.78	22.8	0		
3	84QAM	1	8	20.84	21.00	20.90				
3	84QAM	1	14	20.82	21.00	20.90				
3	84QAM	8	0	20.95	21.10	20.97	22.8	0		
3	84QAM	8	4	20.90	21.04	20.91				
3	84QAM	8	7	20.93	21.01	20.90				
3	84QAM	15	0	20.89	20.98	20.89				
3	256QAM	1	8	19.37	19.55	19.37	21	1.8		
3	256QAM	1	14	1						



Band 25 DS15_Simultaneous Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./F.Freq.	Power Middle Ch./F.Freq.	Power High Ch./F.Freq.	Time-up (min)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.24	21.24	21.31				
20	QPSK	1	49	21.07	21.23	21.19	22.8	0		
20	QPSK	50	0	21.20	21.31	21.19				
20	QPSK	24	0	21.10	21.10	21.14				
20	QPSK	50	50	21.09	21.28	21.22	22.8	0		
20	QPSK	100	0	21.15	21.25	21.17				
20	16QAM	1	0	21.08	21.10	21.06				
20	16QAM	1	49	21.09	21.20	21.12	22.8	0		
20	16QAM	1	99	21.06	21.16	21.07				
20	16QAM	50	0	21.13	21.06	21.07				
20	16QAM	50	24	21.09	21.19	21.14	22.8	0		
20	16QAM	50	50	21.06	21.17	21.09				
20	16QAM	100	0	21.02	21.08	21.05				
20	64QAM	1	0	20.98	21.06	20.94				
20	64QAM	1	49	20.98	21.02	21.00	22.8	0		
20	64QAM	1	99	20.98	21.06	21.13				
20	64QAM	50	0	21.04	21.21	21.17				
20	64QAM	50	24	21.08	21.10	21.09	22.8	0		
20	64QAM	50	50	21.02	21.10	21.07				
20	256QAM	1	0	19.33	19.25	19.37	21	1.8		
20	256QAM	1	49	19.34	19.32	19.30				
20	256QAM	1	99	19.35	19.35	19.43				
20	256QAM	50	24	19.28	19.36	19.31	21	1.8		
20	256QAM	50	50	19.32	19.30	19.29				
20	256QAM	100	0	19.24	19.30	19.24				
Channel										
Frequency (MHz)										
15	QPSK	1	0	21.10	21.20	21.18				
15	QPSK	1	37	21.11	21.10	21.13	22.8	0		
15	QPSK	1	74	21.03	21.17	21.07				
15	QPSK	36	0	21.08	21.24	21.07				
15	QPSK	24	0	21.06	21.10	20.94				
15	QPSK	36	36	20.96	21.11	21.18	22.8	0		
15	QPSK	75	0	21.04	21.14	21.08				
15	16QAM	1	0	20.90	20.94	20.94				
15	16QAM	1	37	21.00	21.06	21.11	22.8	0		
15	16QAM	1	74	20.97	20.97	20.98				
15	16QAM	36	0	20.99	21.14	20.93				
15	16QAM	36	20	21.02	21.04	21.01	22.8	0		
15	16QAM	75	0	21.07	21.15	21.14				
15	64QAM	1	0	20.85	21.01	20.85				
15	64QAM	1	37	20.91	21.00	20.98	22.8	0		
15	64QAM	1	74	20.95	21.03	21.04				
15	64QAM	36	0	20.91	21.11	21.04				
15	64QAM	36	20	20.95	20.93	20.98	22.8	0		
15	64QAM	36	49	20.95	21.15	20.99				
15	64QAM	75	0	21.01	21.02	20.97				
15	256QAM	1	0	19.30	19.31	19.27	21	1.8		
15	256QAM	1	37	19.29	19.28	19.26				
15	256QAM	1	74	19.29	19.29	19.31				
15	256QAM	36	20	19.30	19.33	19.19	21	1.8		
15	256QAM	36	39	19.24	19.25	19.16				
15	256QAM	75	0	19.23	19.41	19.23				
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.05	21.05	21.05				
10	QPSK	1	25	21.09	21.21	21.18	22.8	0		
10	QPSK	1	49	20.95	21.09	21.04				
10	QPSK	12	0	21.06	21.06	21.07				
10	QPSK	25	10	21.06	21.03	20.90				
10	QPSK	25	25	21.06	21.20	21.19	22.8	0		
10	16QAM	1	0	20.98	20.98	20.95				
10	16QAM	1	25	21.02	21.08	20.98	22.8	0		
10	16QAM	25	0	21.07	21.21	21.02				
10	16QAM	25	12	21.04	21.13	21.04	22.8	0		
10	16QAM	25	25	21.08	21.08	20.94				
10	16QAM	50	0	21.14	21.10	21.00				
10	64QAM	1	0	20.94	20.95	20.90				
10	64QAM	1	25	21.02	21.11	21.02	22.8	0		
10	64QAM	1	49	21.01	21.00	21.00				
10	64QAM	25	0	20.96	21.12	21.08				
10	64QAM	25	12	20.98	21.07	21.02	22.8	0		
10	64QAM	25	25	20.98	21.14	20.95				
10	64QAM	50	0	21.04	20.95	21.07				
10	256QAM	1	0	19.32	19.33	19.33	21	1.8		
10	256QAM	1	25	19.29	19.49	19.34				
10	256QAM	1	49	19.25	19.25	19.25				
10	256QAM	25	12	19.22	19.42	19.23	21	1.8		
10	256QAM	25	25	19.27	19.18	19.15				
10	256QAM	50	0	19.23	19.43	19.37				
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.15	21.22	21.23				
5	QPSK	1	12	21.10	21.19	21.13	22.8	0		
5	QPSK	1	24	21.01	21.10	21.06				
5	QPSK	12	0	21.14	21.10	21.10				
5	QPSK	12	7	21.07	21.10	20.99				
5	QPSK	12	13	21.02	21.12	21.17	22.8	0		
5	16QAM	1	0	21.02	21.03	20.91				
5	16QAM	1	12	21.00	21.06	21.05	22.8	0		
5	16QAM	1	24	20.98	21.04	20.96				
5	16QAM	12	0	21.09	21.13	20.93				
5	16QAM	12	7	21.03	21.10	21.06	22.8	0		
5	16QAM	12	13	20.98	21.02	21.01				
5	64QAM	1	0	21.07	21.08	21.19				
5	64QAM	1	0	20.89	20.96	20.91	22.8	0		
5	64QAM	12	0	20.99	21.14	20.99				
5	64QAM	12	24	20.96	20.98	20.99				
5	64QAM	12	0	21.00	21.09	21.10	22.8	0		
5	64QAM	12	13	20.97	21.01	21.02				
5	64QAM	12	13	21.00	21.10	21.00				
5	256QAM	1	0	19.37	19.47	19.28	21	1.8		
5	256QAM	1	12	19.28	19.42	19.23				
5	256QAM	1	24	19.21	19.20	19.18				
5	256QAM	12	0	19.27	19.48	19.32	21	1.8		
5	256QAM	12	7	19.22	19.31	19.16				
5	256QAM	12	13	19.28	19.22	19.20	21	1.8		
5	256QAM	25	0	19.21	19.50	19.30				
Channel										
Frequency (MHz)										
3	QPSK	1	0	21.15	21.27	21.27				
3	QPSK	1	8	21.07	21.24	21.12	22.8	0		
3	QPSK	1	14	20.95	21.15	21.05				
3	QPSK	8	0	21.14	21.13	21.13				
3	QPSK	8	4	21.05	21.10	20.89	22.8	0		
3	QPSK	8	7	20.97	21.11	21.19				
3	16QAM	1	0	21.11	21.12	21.12				
3	16QAM	1	0	21.00	21.08	20.94	22.8	0		
3	16QAM	1	8	21.01	21.06	21.09				
3	16QAM	1	15	20.92	21.09	21.03				
3	16QAM	8	0	21.01	21.20	20.97	22.8	0		
3	16QAM	8	4	20.99	21.07	21.00				
3	16QAM	15	0	20.99	21.10	21.02				
3	16QAM	15	0	21.16	21.05	21.21	22.8	0		
3	64QAM	1	0	20.87	20.90	20.90				
3	64QAM	1	0	21.02	21.18	20.89	22.8	0		
3	64QAM	1	14	20.95	21.03	21.04				
3	64QAM	8	0	20.91	21.17	21.40				
3	64QAM	8	0	20.98	21.09	21.01	22.8	0		
3	64QAM	8	7	20.98	21.11	20.92				
3	256QAM	1	0	19.37	19.44	19.30	21	1.8		
3	256QAM	1	8	19.27	19.51	19.27				
3	256QAM	1	15	19.27	19.39	19.17	21	1.8		
3	256QAM	8	0	19.27	19.43	19.40				
3	256QAM									



Band 38 DSIS_Simultaneous Ant 3

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)				38750	39000	39150		
20	QPSK	1	0	21.90	22.04	21.77		
20	QPSK	1	49	21.82	21.88	21.73	23	0
20	QPSK	50	24	21.75	21.82	21.75		
20	QPSK	50	24	21.71	21.78	21.72	23	0
20	QPSK	100	0	21.66	21.84	21.73		
20	16QAM	1	0	21.76	21.85	21.80	23	0
20	16QAM	1	49	21.65	21.68	21.82		
20	16QAM	1	99	21.65	21.81	21.87		
20	16QAM	50	0	21.85	21.96	21.70		
20	16QAM	50	24	21.74	21.90	21.70		
20	16QAM	50	50	21.66	21.74	21.68	23	0
20	16QAM	100	0	21.67	21.81	21.85		
20	16QAM	100	0	21.65	21.73	21.65		
20	16QAM	1	49	21.66	21.82	21.52	23	0
20	16QAM	1	99	21.76	21.80	21.65		
20	16QAM	50	0	21.80	21.91	21.30		
20	16QAM	50	24	21.82	21.90	21.80		
20	16QAM	50	50	21.72	21.86	21.78	22.5	0.5
20	16QAM	100	0	21.87	21.91	21.91		
20	256QAM	1	0	19.81	20.02	19.87		
20	256QAM	1	49	19.82	19.82	19.85	20.5	2.5
20	256QAM	1	99	19.80	19.77	19.77		
20	256QAM	50	0	19.82	19.82	19.85		
20	256QAM	50	24	19.85	19.85	19.91	20.5	2.5
20	256QAM	50	50	19.82	19.85	19.77		
20	256QAM	100	0	19.81	19.83	19.88		
Channel								
Frequency (MHz)				39225	39300	39375	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	21.72	21.95	21.72		
15	QPSK	1	37	21.74	21.84	21.84	23	0
15	QPSK	1	74	21.68	21.76	21.80		
15	QPSK	36	0	21.67	21.79	21.81		
15	QPSK	36	20	21.81	21.74	21.65	23	0
15	QPSK	36	39	21.81	21.84	21.89		
15	QPSK	75	0	21.68	21.84	21.89		
15	16QAM	1	0	21.69	21.83	21.72	23	0
15	16QAM	1	37	21.69	21.82	21.85		
15	16QAM	1	74	21.58	21.77	21.59		
15	16QAM	36	0	21.79	21.86	21.68	23	0
15	16QAM	36	20	21.82	21.86	21.82		
15	16QAM	36	39	21.83	21.87	21.86		
15	16QAM	75	0	21.82	21.78	21.53		
15	16QAM	75	0	21.82	21.86	21.82		
15	16QAM	1	37	21.52	21.58	21.44	23	0
15	16QAM	74	0	21.52	21.89	21.81		
15	16QAM	36	0	21.75	21.87	21.84		
15	16QAM	36	20	21.87	21.81	21.87	22.5	0.5
15	16QAM	36	39	21.84	21.71	21.78		
15	16QAM	75	0	21.83	21.95	21.70		
15	256QAM	1	0	19.75	19.85	19.75	20.5	2.5
15	256QAM	1	37	19.80	19.90	19.74		
15	256QAM	1	74	19.89	19.83	19.88		
15	256QAM	36	0	19.80	19.99	19.76		
15	256QAM	36	20	19.82	19.73	19.78	20.5	2.5
15	256QAM	36	39	19.77	19.77	19.68		
15	256QAM	75	0	19.80	20.00	19.80		
Channel								
Frequency (MHz)				39375	39450	39525	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	21.87	21.99	21.87		
10	QPSK	1	25	21.75	21.96	21.83	23	0
10	QPSK	1	49	21.73	21.72	21.81		
10	QPSK	25	0	21.72	21.82	21.82		
10	QPSK	25	12	21.66	21.76	21.87	23	0
10	QPSK	25	25	21.83	21.87	21.59		
10	16QAM	1	0	21.71	21.79	21.76		
10	16QAM	1	25	21.66	21.87	21.66	23	0
10	16QAM	1	49	21.60	21.74	21.64		
10	16QAM	25	0	21.77	21.84	21.67		
10	16QAM	25	12	21.87	21.84	21.64	23	0
10	16QAM	25	25	21.83	21.87	21.59		
10	16QAM	1	0	21.68	21.87	21.66		
10	16QAM	1	25	21.84	21.78	21.53	23	0
10	16QAM	1	49	21.68	21.87	21.64		
10	16QAM	1	25	21.82	21.82	21.45	23	0
10	16QAM	25	0	21.70	21.81	21.85		
10	16QAM	25	12	21.78	21.81	21.87		
10	16QAM	25	25	21.84	21.75	21.84	22.5	0.5
10	16QAM	50	0	21.86	21.81	21.88		
10	16QAM	50	0	19.73	19.91	19.75		
10	256QAM	1	0	19.74	19.88	19.72	20.5	2.5
10	256QAM	1	49	19.87	19.84	19.70		
10	256QAM	25	0	19.78	19.85	19.73		
10	256QAM	25	12	19.86	19.70	19.84	20.5	2.5
10	256QAM	25	25	19.75	19.91	19.90		
10	256QAM	50	0	19.94	20.05	19.88		
Channel								
Frequency (MHz)				39525	39600	39675	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	21.83	21.95	21.74		
5	QPSK	1	19	21.78	21.87	21.84	23	0
5	QPSK	1	24	21.72	21.73	21.88		
5	QPSK	12	0	21.89	21.82	21.80		
5	QPSK	12	7	21.68	21.70	21.84	23	0
5	QPSK	12	19	21.83	21.84	21.87		
5	QPSK	25	0	21.73	21.84	21.87		
5	16QAM	1	0	21.73	21.81	21.70		
5	16QAM	1	12	21.81	21.81	21.58	23	0
5	16QAM	1	24	21.60	21.74	21.60		
5	16QAM	12	0	21.81	21.87	21.83		
5	16QAM	12	7	21.69	21.90	21.68	23	0
5	16QAM	12	19	21.86	21.89	21.82		
5	16QAM	25	0	21.82	21.73	21.85		
5	16QAM	1	0	21.89	21.86	21.82	23	0
5	16QAM	1	12	21.47	21.87	21.46		
5	16QAM	1	24	21.84	21.85	21.58		
5	16QAM	12	0	21.71	21.81	21.78		
5	16QAM	12	7	21.71	21.80	21.80	22.5	0.5
5	16QAM	12	19	21.59	21.78	21.73		
5	16QAM	25	0	21.86	21.96	21.78		
5	16QAM	1	0	19.87	19.99	19.81		
5	256QAM	1	0	19.88	19.93	19.77	20.5	2.5
5	256QAM	1	24	19.89	19.87	19.82		
5	256QAM	12	0	19.80	19.91	19.73		
5	256QAM	12	7	19.75	19.78	19.84	20.5	2.5
5	256QAM	12	19	19.78	19.76	19.70		
5	256QAM	25	0	19.88	20.05	19.88		

Band 41 PC3 FCC&IC DSIS_Simultaneous Ant 3

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)				39750	40185	40620	41055	41490
20	QPSK	1	0	22.01	21.95	21.93	24.15	22.01
20	QPSK	1	49	21.87	21.88	22.05	21.81	21.90
20	QPSK	1	99	21.77	21.88	21.87	21.77	21.82
20	QPSK	50	0	21.92	21.80	21.90	21.71	21.81
20	QPSK	50	24	21.80	21.89	21.80	21.81	21.81
20	QPSK	100	0	21.77	21.88	21.86	21.78	21.78
20	QPSK	100	0	21.79	21.69	21.87	21.75	21.82
20	16QAM	1	0	21.81	21.83	21.92	21.86	21.89
20	16QAM	1	49	21.84	21.74	21.76	21.89	21.85
20	16QAM	1	99	21.80	21.70	21.89	21.74	21.73
20	16QAM	50	0	21.87	21.81	21.89	21.81	21.82
20	16QAM	50	24	21.89	21.80	21.85	21.46	21.82
20	16QAM	50	50	21.89	21.41	21.48	21.38	21.87
20	16QAM	100	0	21.88	21.80	21.87	21.82	21.84
20	16QAM	100	0	21.83	21.85	21.85	21.89	21.85
20	16QAM	1	49	21.59	21.80	21.87	21.83	21.85
20	16QAM	1	99	21.44	21.82	21.88	21.36	21.80
20	16QAM	50	0	20.84	20.70	20.85	20.77	20.73
20	16QAM	50	24	20.88	20.60	20.76	20.60	20.60
20	16QAM	50	50	20.84	20.60	20.71	20.72	20.87
20	16QAM	100	0	20.87	20.71	20.81	20.86	20.89
20	256QAM	1	0	18.42	18.31	18.52	18.40	18.47
20	256QAM	1	49	18.38	18.35	18.52	18.31	18.41
20	256QAM	1	99	18.22	18.31	18.38	18.31	18.14
20	256QAM	50	0	18.41	18.42	18.56	18.50	18.44
20	256QAM	50	24	18.41	18.48	18.51	18.43	18.36
20	256QAM	50	50	18.43	18.35	18.49	18.38	18.42
20	256QAM	100	0	18.37	18.46	18.50	18.42	18.35
Channel								
Frequency (MHz)				39750	40173	40620	41058	41515
16	QPSK	1	0	21.62	21.83	21.93	21.73	24.15
16	QPSK	1	37	21.76	21.83	22.02	21.70	21.86
16	QPSK	1	74	21.66	21.80	21.80	21.64	21.77
16	QPSK	36	0	21.65	21.77	21.82	21.59	21.78
16	QPSK	36	20	21.72	21.77	21.70	21.75	21.70
16	QPSK	36	39	21.82	21.82	21.86	21.80	21.83
16	QPSK	75	0	21.69	21.81	21.91	21.73	21.87
16	16QAM	1	0	21.72	21.70	21.83	21.82	21.93
16	16QAM	1	37	21.63	21.82	21.86	21.68	21.83
16	16QAM	1	74	21.70	21.50	21.85	21.65	21.69
16	16QAM	36	0	21.80	21.84	21.84	21.80	21.89
16	16QAM	36	20	21.87	21.83	21.86	21.81	2



Band 41 PC2 FCC&IC DS15_Simultaneous Ant 3											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up Int (dBm)	MPR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	23.46	23.39	23.11	23.22	23.22	23.22	24.6	0
20	QPSK	1	49	23.35	23.17	23.39	23.38	23.19	23.19	24.6	0
20	QPSK	50	24	23.46	23.41	23.46	23.46	23.46	23.46	24.6	0
20	QPSK	50	0	23.11	23.11	23.11	23.18	23.08	23.08	24.6	0
20	QPSK	50	24	23.04	22.81	23.18	23.12	22.95	22.95	24.6	0
20	QPSK	100	0	23.07	23.07	23.07	23.07	23.07	23.07	24.6	0
20	QPSK	100	0	23.01	23.04	23.10	23.01	22.94	22.94	24.6	0
20	16QAM	1	0	23.24	23.33	23.38	23.35	23.35	23.35	24.6	0
20	16QAM	1	49	23.16	23.21	23.46	23.43	23.29	23.29	24.6	0
20	16QAM	1	99	23.07	23.23	23.33	23.17	23.03	23.03	24.6	0
20	16QAM	50	0	23.07	23.14	23.39	23.07	23.09	23.09	24.6	0
20	16QAM	50	24	23.04	23.10	23.14	23.20	23.04	23.04	24.6	0
20	16QAM	50	50	22.92	23.07	23.08	22.80	22.84	22.84	24.6	0
20	16QAM	100	0	22.91	23.05	23.21	22.94	22.99	22.99	24.6	0
20	16QAM	100	0	23.17	23.10	23.39	23.21	23.14	23.14	24.6	0
20	16QAM	100	49	23.14	23.29	23.36	23.22	23.07	23.07	24.6	0
20	16QAM	100	99	23.02	23.14	23.12	23.21	23.05	23.05	24.6	0
20	16QAM	50	0	23.27	23.38	23.38	23.25	23.17	23.17	24.6	0
20	16QAM	50	24	23.20	23.35	23.29	23.26	23.12	23.12	24.6	0
20	16QAM	50	50	23.04	23.11	23.00	23.18	23.06	23.06	24.6	0
20	16QAM	100	0	23.22	23.36	23.31	23.24	23.11	23.11	24.6	0
20	256QAM	1	0	22.23	22.32	22.43	22.29	22.23	22.23	23	1.6
20	256QAM	1	49	22.26	22.24	22.43	22.24	22.21	22.21	23	1.6
20	256QAM	1	99	22.06	22.17	22.21	22.21	22.17	22.17	23	1.6
20	256QAM	50	0	22.11	22.12	22.25	22.16	22.07	22.07	23	1.6
20	256QAM	50	24	22.05	22.08	22.06	22.12	22.05	22.05	23	1.6
20	256QAM	50	50	21.91	22.04	22.11	22.02	21.89	21.89	23	1.6
20	256QAM	100	0	22.02	22.19	22.03	22.10	22.03	22.03	23	1.6
Channel											
Frequency (MHz)											
15	QPSK	1	0	23.41	23.35	23.15	23.20	23.15	23.15	25	0
15	QPSK	1	37	23.25	23.08	23.37	23.28	23.10	23.10	25	0
15	QPSK	1	74	23.13	23.07	23.37	23.22	23.15	23.15	25	0
15	QPSK	36	0	23.09	23.06	23.22	23.02	23.02	23.02	24.6	0
15	QPSK	36	20	22.98	22.84	23.11	23.09	22.82	22.82	24.6	0
15	QPSK	75	0	22.94	22.99	23.12	22.94	22.82	22.82	24.6	0
15	16QAM	1	0	23.18	23.27	23.46	23.27	23.20	23.20	24.6	0
15	16QAM	1	37	23.11	23.21	23.34	23.29	23.23	23.23	24.6	0
15	16QAM	1	74	22.97	23.16	23.27	23.09	22.99	22.99	24.6	0
15	16QAM	36	0	22.98	23.03	23.22	22.98	22.96	22.96	24.6	0
15	16QAM	36	20	23.00	23.05	23.03	22.90	22.90	22.90	24.6	0
15	16QAM	36	50	22.78	22.98	23.04	22.89	22.87	22.87	24.6	0
15	16QAM	75	0	22.83	23.01	23.23	22.80	22.89	22.89	24.6	0
15	16QAM	75	0	23.15	23.12	23.28	23.12	23.01	23.01	24.6	0
15	16QAM	1	37	23.05	23.17	23.26	23.12	23.04	23.04	24.6	0
15	16QAM	1	74	22.89	23.01	23.05	23.11	22.91	22.91	24.6	0
15	16QAM	36	0	23.14	23.26	23.30	23.22	23.14	23.14	24.6	0
15	16QAM	36	20	23.15	23.28	23.25	23.21	23.10	23.10	24.6	0
15	16QAM	36	50	23.02	23.12	23.08	23.08	22.98	22.98	24.6	0
15	16QAM	75	0	23.13	23.31	23.19	23.14	23.05	23.05	24.6	0
15	256QAM	1	0	22.13	22.20	22.31	22.16	22.12	22.12	23	1.6
15	256QAM	1	37	22.14	22.12	22.34	22.14	22.12	22.12	23	1.6
15	256QAM	1	74	22.00	22.09	22.18	22.18	22.08	22.08	23	1.6
15	256QAM	36	0	21.97	22.00	22.17	22.11	21.93	21.93	23	1.6
15	256QAM	36	20	21.94	22.05	22.08	22.05	22.05	22.05	23	1.6
15	256QAM	36	50	21.83	21.90	22.07	21.83	21.83	21.83	23	1.6
15	256QAM	75	0	21.88	21.88	22.22	22.01	21.95	21.95	23	1.6
Channel											
Frequency (MHz)											
10	QPSK	1	0	23.46	23.37	23.13	23.19	23.13	23.13	25	0
10	QPSK	1	25	23.28	23.14	23.35	23.30	23.13	23.13	25	0
10	QPSK	1	49	23.10	23.18	23.45	23.39	23.07	23.07	24.6	0
10	QPSK	25	0	22.96	22.96	23.06	22.89	22.89	22.89	24.6	0
10	QPSK	25	12	22.92	22.78	23.06	23.03	22.91	22.91	24.6	0
10	QPSK	25	25	22.85	22.86	22.93	22.85	22.80	22.80	24.6	0
10	16QAM	1	0	23.18	23.20	23.44	23.24	23.29	23.29	24.6	0
10	16QAM	1	25	23.16	23.24	23.39	23.07	23.17	23.17	24.6	0
10	16QAM	1	49	22.96	23.15	23.28	23.07	22.98	22.98	24.6	0
10	16QAM	25	0	23.02	23.08	23.17	22.86	22.87	22.87	24.6	0
10	16QAM	25	12	22.97	23.04	23.08	22.86	22.85	22.85	24.6	0
10	16QAM	25	25	22.84	22.84	23.17	22.87	22.84	22.84	24.6	0
10	16QAM	50	0	23.14	23.14	23.37	23.11	23.06	23.06	24.6	0
10	16QAM	50	24	23.11	23.18	23.23	23.18	23.01	23.01	24.6	0
10	16QAM	1	49	22.90	23.12	23.08	23.16	22.83	22.83	24.6	0
10	16QAM	25	0	23.24	23.20	23.33	23.22	23.06	23.06	24.6	0
10	16QAM	25	12	23.15	23.25	23.21	23.20	23.07	23.07	24.6	0
10	16QAM	25	25	22.83	23.08	23.12	23.06	23.00	23.00	24.6	0
10	16QAM	50	0	23.13	23.31	23.19	23.16	23.01	23.01	24.6	0
10	256QAM	1	0	22.13	22.29	22.34	22.16	22.14	22.14	23	1.6
10	256QAM	1	25	22.15	22.13	22.38	22.14	22.14	22.14	23	1.6
10	256QAM	1	49	21.99	22.05	22.12	22.15	22.05	22.05	23	1.6
10	256QAM	25	0	22.07	22.81	22.17	22.11	22.03	22.03	23	1.6
10	256QAM	25	12	21.99	22.03	22.06	22.07	22.00	22.00	23	1.6
10	256QAM	25	25	21.85	21.97	22.05	21.85	21.81	21.81	23	1.6
10	256QAM	50	0	21.94	22.05	22.27	22.00	21.97	21.97	23	1.6
Channel											
Frequency (MHz)											
5	QPSK	1	0	23.46	23.35	23.35	23.23	23.09	23.09	25	0
5	QPSK	1	12	23.25	23.13	23.30	23.25	23.09	23.09	25	0
5	QPSK	1	24	23.07	23.13	23.39	23.31	23.18	23.18	24.6	0
5	QPSK	12	0	23.07	23.06	23.21	23.03	22.87	22.87	24.6	0
5	QPSK	12	7	22.96	22.83	23.09	23.00	22.87	22.87	24.6	0
5	QPSK	12	12	22.86	22.90	22.98	22.80	22.83	22.83	24.6	0
5	QPSK	25	0	22.94	22.93	23.08	22.80	22.85	22.85	24.6	0
5	16QAM	1	0	23.20	23.25	23.46	23.30	23.19	23.19	24.6	0
5	16QAM	1	12	23.13	23.24	23.39	23.16	23.17	23.17	24.6	0
5	16QAM	1	24	22.96	23.11	23.16	23.06	22.99	22.99	24.6	0
5	16QAM	12	0	22.96	23.12	23.21	22.94	22.96	22.96	24.6	0
5	16QAM	12	7	22.84	23.05	23.12	22.86	22.83	22.83	24.6	0
5	16QAM	12	12	22.80	22.96	22.98	22.67	22.84	22.84	24.6	0
5	16QAM	25	0	22.91	23.02	23.24	23.00	22.89	22.89	24.6	0
5	16QAM	1	0	23.08	23.10	23.32	23.12	23.09	23.09	24.6	0
5	16QAM	1	12	23.07	23.23	23.25	23.15	23.01	23.01	24.6	0
5	16QAM	1	24	22.89	23.06	23.					



Reduced Power Mode for DS16-Standalone

DS16-100 Amp								
Item	Busf. Average Power (dBm)			Fibre Average Power (dBm)				
TX Channel	198	199	201	Limit	198	199	201	Limit
Frequency (MHz)	68.2	68.4	68.8	(dBm)	68.2	68.4	68.8	(dBm)
OPRR-1 Tx (dB)	32.90	32.97	32.94	33.50	23.30	23.07	23.04	24.50
OPRR-2 Tx (dB)	32.81	32.90	32.91	33.50	23.83	23.94	23.91	24.50
OPRR-3 Tx (dB)	29.30	29.41	29.28	30.50	23.30	23.41	23.28	24.50
OPRR-2 Tx (W)	28.91	28.95	28.86	30.00	24.85	24.72	24.80	26.14
OPRR-4 Tx (dB)	25.41	25.41	25.40	27.50	23.41	23.41	23.40	24.50
EDGE-1 Tx (dB)	25.40	25.40	25.37	26.50	18.42	18.46	18.37	17.50
EDGE-2 Tx (dB)	23.77	23.80	23.79	25.00	17.77	17.80	17.79	18.50
EDGE-3 Tx (dB)	22.88	22.89	22.82	23.50	18.40	18.43	18.38	19.24
EDGE-4 Tx (dB)	20.50	20.60	20.60	21.50	17.50	17.43	17.60	18.00

DS16-100 Amp								
Item	Busf. Average Power (dBm)			Fibre Average Power (dBm)				
TX Channel	512	561	610	Limit	512	561	610	Limit
Frequency (MHz)	102.2	102.4	102.8	(dBm)	102.2	102.4	102.8	(dBm)
OPRR-1 Tx (dB)	27.84	27.81	27.88	28.50	18.54	18.63	18.58	19.50
OPRR-2 Tx (dB)	24.94	24.94	24.93	26.00	18.94	18.94	18.93	26.00
OPRR-3 Tx (dB)	23.53	23.50	23.53	24.50	18.07	18.11	18.07	20.54
OPRR-4 Tx (dB)	20.70	20.70	20.68	21.50	17.70	17.75	17.69	18.50
EDGE-1 Tx (dB)	22.39	22.67	22.73	23.50	19.79	19.87	19.73	14.50
EDGE-2 Tx (dB)	21.00	21.10	21.11	22.00	18.00	18.10	18.11	18.50
EDGE-3 Tx (dB)	20.07	20.12	20.04	21.00	15.91	15.98	15.76	16.74
EDGE-4 Tx (dB)	17.86	18.00	18.04	19.00	14.96	15.09	15.04	16.00

WCDMA II Amp							WCDMA IV Amp							WCDMA V Amp						
Item	WCDMA II			WCDMA IV			WCDMA V			WCDMA II			WCDMA IV			WCDMA V				
TX Channel	9302	9600	9308	Limit	1312	1413	1513	Limit	4152	4182	4233	Limit	4152	4182	4233	Limit				
SA Channel	9602	9600	9308	(dB)	1307	1408	1508	(dB)	4197	4407	4409	(dB)	4197	4407	4409	(dB)				
Frequency (MHz)	1802.4	1800	1807.6		1718.4	1721.8	1729.2		396.4	396.4	346.6		396.4	396.4	346.6					
ISPP Ref #0	20.62	20.60	20.67	22.00	20.30	20.47	20.38	22.00	21.43	22.07	22.40	24.00	21.43	22.07	22.40	24.00				
ISPP Ref #1	19.72	19.75	19.70	21.00	19.59	19.66	19.50	21.00	21.55	21.60	21.48	23.00	21.55	21.60	21.48	23.00				
ISPP Ref #2	19.08	19.71	19.65	21.00	19.90	19.92	19.92	21.00	21.66	21.60	21.54	23.00	21.66	21.60	21.54	23.00				
ISPP Ref #3	19.39	19.20	19.21	20.50	19.00	19.11	19.08	20.50	21.61	21.14	21.04	22.50	21.61	21.14	21.04	22.50				
ISPP Ref #4	19.15	19.30	19.21	20.50	18.90	19.18	19.03	20.50	20.98	21.04	21.06	22.50	20.98	21.04	21.06	22.50				
ISPP Ref #5	19.70	19.85	19.84	21.00	19.54	19.68	19.48	21.00	21.55	21.72	21.42	23.00	21.55	21.72	21.42	23.00				
ISPP Ref #6	19.50	19.50	19.41	21.00	19.38	19.40	19.32	21.00	21.54	21.62	21.52	23.00	21.54	21.62	21.52	23.00				
ISPP Ref #7	19.08	19.12	19.05	20.50	18.92	18.93	18.89	20.50	20.95	20.93	20.92	22.00	20.95	20.93	20.92	22.00				
ISPP Ref #8	19.02	19.15	19.12	20.50	18.90	18.90	19.01	20.50	20.89	21.00	21.03	22.50	20.89	21.00	21.03	22.50				
ISPP Ref #9	19.46	19.71	19.70	21.00	19.65	19.63	19.61	21.00	21.61	21.68	21.67	23.00	21.61	21.68	21.67	23.00				
ISPP Ref #10	17.71	17.70	17.64	19.00	17.64	17.60	17.61	19.00	19.67	19.63	19.56	21.00	19.67	19.63	19.56	21.00				
ISPP Ref #11	18.66	18.71	18.70	20.00	18.52	18.58	18.56	20.00	20.50	20.50	20.51	22.00	20.50	20.50	20.51	22.00				
ISPP Ref #12	17.81	17.80	17.87	19.00	17.44	17.51	17.48	19.00	19.40	19.82	19.40	21.00	19.40	19.82	19.40	21.00				
ISPP Ref #13	19.94	19.60	19.52	21.00	19.53	19.48	19.38	21.00	21.59	21.44	21.40	23.00	21.59	21.44	21.40	23.00				



Band 2 Ant0												
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power Hgt./Ch./Freq.	Power Hgt./F.Freq.	Turn-up time (min)	MPE (dB)				
Channel												
Frequency (MHz)				1860	1860	1900						
20	QPSK	1	0	23.11	23.16	23.07						
20	QPSK	1	49	22.83	22.88	22.83	24	0				
20	QPSK	1	99	22.96	23.07	22.97						
20	QPSK	50	0	22.98	23.13	23.05						
20	QPSK	50	24	22.98	23.14	23.08						
20	QPSK	50	50	22.98	23.14	23.08						
20	QPSK	100	0	22.98	23.05	22.81						
20	QPSK	100	25	22.98	23.05	22.81						
20	HQAM	1	49	22.85	22.98	22.90	24	0				
20	HQAM	1	99	22.70	22.85	22.80						
20	HQAM	50	0	22.85	22.92	22.84						
20	HQAM	50	24	22.84	22.94	22.84	23.5	0.5				
20	HQAM	50	50	22.85	22.92	22.84						
20	HQAM	100	0	22.85	22.92	22.84						
20	HQAM	100	25	22.85	22.92	22.84						
20	HQAM	1	49	22.88	22.76	22.67						
20	HQAM	1	99	22.80	22.95	22.85						
20	HQAM	50	0	21.84	21.71	21.58						
20	HQAM	50	24	21.46	21.58	21.50	22.5	1.5				
20	HQAM	50	50	21.42	21.56	21.55						
20	HQAM	100	0	21.43	21.52	21.38						
20	HQAM	100	25	22.30	22.32	22.37						
20	25SSBAM	1	49	19.82	19.88	19.80	20.5	3.5				
20	25SSBAM	1	99	19.56	19.62	19.57						
20	25SSBAM	50	0	19.88	19.88	19.88						
20	25SSBAM	50	24	19.60	19.73	19.63	20.5	3.5				
20	25SSBAM	50	50	19.70	19.81	19.78						
20	25SSBAM	100	0	19.82	19.82	19.82						
Channel												
Frequency (MHz)				1867.5	1860	1915.5	Turn-up time (min)	MPE (dB)				
15	QPSK	1	0	23.03	23.10	22.89						
15	QPSK	1	30	22.87	22.92	22.82	24	0				
15	QPSK	1	74	22.91	22.96	22.83						
15	QPSK	36	0	22.87	22.99	22.80						
15	QPSK	36	24	22.81	22.94	22.87	24	0				
15	QPSK	36	39	22.87	22.96	22.80						
15	QPSK	75	0	22.91	23.00	22.92						
15	HQAM	1	37	22.80	22.90	22.79						
15	HQAM	1	37	22.77	22.86	22.83	24	0				
15	HQAM	50	0	22.80	22.85	22.80						
15	HQAM	50	24	22.50	22.55	22.45						
15	HQAM	50	24	22.21	22.37	22.28	23.5	0.5				
15	HQAM	50	50	22.21	22.37	22.28						
15	HQAM	100	0	22.31	22.48	22.42						
15	HQAM	100	25	22.87	22.88	22.59	23.5	0.5				
15	HQAM	100	25	22.80	22.90	22.80						
15	HQAM	1	74	22.42	22.54	22.34						
15	HQAM	36	0	21.86	21.87	21.49						
15	HQAM	36	24	21.86	21.86	21.49						
15	HQAM	36	39	21.28	21.33	21.23	22.5	1.5				
15	HQAM	75	0	21.38	21.37	21.29						
15	25SSBAM	1	37	19.59	19.62	19.57	20.5	3.5				
15	25SSBAM	1	74	19.49	19.51	19.42						
15	25SSBAM	50	0	19.82	19.82	19.82						
15	25SSBAM	50	24	19.48	19.55	19.50	20.5	3.5				
15	25SSBAM	50	50	19.68	19.73	19.67						
15	25SSBAM	75	0	19.82	19.82	19.82						
Channel												
Frequency (MHz)				1865	1860	1915	Turn-up time (min)	MPE (dB)				
10	QPSK	1	0	22.87	22.88	22.81						
10	QPSK	1	49	22.92	22.94	22.82						
10	QPSK	1	99	22.92	22.94	22.82						
10	QPSK	50	0	22.87	22.90	22.80						
10	QPSK	50	24	22.81	22.90	22.84	24	0				
10	QPSK	50	50	22.80	22.89	22.89						
10	HQAM	1	0	22.78	22.90	22.86						
10	HQAM	1	26	22.79	22.91	22.85	24	0				
10	HQAM	50	0	22.80	22.85	22.80						
10	HQAM	50	24	22.48	22.51	22.42						
10	HQAM	50	50	22.50	22.54	22.45	23.5	0.5				
10	HQAM	100	0	22.28	22.44	22.37						
10	HQAM	100	25	22.80	22.82	22.60	23.5	0.5				
10	HQAM	100	25	22.80	22.82	22.60						
10	HQAM	1	0	22.68	22.76	22.66						
10	HQAM	1	49	22.43	22.45	22.32						
10	HQAM	25	0	21.56	21.65	21.45						
10	HQAM	36	0	21.33	21.46	21.28	22.5	1.5				
10	HQAM	36	24	21.31	21.39	21.27						
10	HQAM	36	39	21.28	21.35	21.23						
10	25SSBAM	1	37	19.76	19.82	19.76	20.5	3.5				
10	25SSBAM	1	49	19.52	19.50	19.53						
10	25SSBAM	50	0	19.82	19.82	19.82						
10	25SSBAM	50	24	19.46	19.61	19.51	20.5	3.5				
10	25SSBAM	50	50	19.63	19.71	19.66						
10	25SSBAM	75	0	19.82	19.82	19.82						
Channel												
Frequency (MHz)				1862.5	1860	1917.5	Turn-up time (min)	MPE (dB)				
5	QPSK	1	0	22.88	22.95	22.74						
5	QPSK	1	24	22.90	22.95	22.84	24	0				
5	QPSK	12	0	22.89	23.03	22.87						
5	QPSK	12	13	22.89	22.98	22.82	24	0				
5	QPSK	25	0	22.88	22.98	22.82						
5	HQAM	1	0	22.94	22.88	22.83	24	0				
5	HQAM	1	12	22.79	22.94	22.87						
5	HQAM	50	0	22.88	22.94	22.70						
5	HQAM	50	24	22.40	22.49	22.41						
5	HQAM	50	24	22.22	22.41	22.27	23.5	0.5				
5	HQAM	50	50	22.21	22.33	22.14						
5	HQAM	100	0	22.26	22.38	22.37						
5	HQAM	100	25	22.82	22.88	22.69	23.5	0.5				
5	HQAM	100	25	22.82	22.88	22.69						
5	HQAM	1	0	22.59	22.68	22.64						
5	HQAM	1	12	22.50	22.67	22.60	23.5	0.5				
5	HQAM	1	24	22.42	22.44	22.34						
5	HQAM	12	0	21.54	21.68	21.43						
5	HQAM	12	13	21.31	21.46	21.34	22.5	1.5				
5	HQAM	12	13	21.29	21.32	21.21						
5	HQAM	25	0	21.30	21.44	21.29						
5	25SSBAM	1	12	19.74	19.84	19.67	20.5	3.5				
5	25SSBAM	1	12	19.75	19.78	19.67						
5	25SSBAM	1	24	19.49	19.55	19.49						
5	25SSBAM	50	0	19.88	19.88	19.88						
5	25SSBAM	50	24	19.51	19.59	19.55	20.5	3.5				
5	25SSBAM	50	50	19.62	19.74	19.64						
5	25SSBAM	75	0	19.82	19.82	19.82						
Channel												
Frequency (MHz)				1861.5	1860	1918.5	Turn-up time (min)	MPE (dB)				
3	QPSK	1	0	23.01	23.02	22.85						
3	QPSK	1	8	22.89	22.91	22.86	24	0				
3	QPSK	1	14	22.98	22.95	22.83						
3	QPSK											



Band 12 Ant0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.84	22.92	22.79				
10	QPSK	1	25	22.86	22.94	22.84	24	0		
10	QPSK	1	49	22.88	22.92	22.82				
10	QPSK	25	0	22.83	22.82	22.72				
10	QPSK	25	12	22.88	22.88	22.81				
10	QPSK	25	25	22.86	22.80	22.83	24	0		
10	QPSK	50	0	22.82	22.77	22.82				
10	QPSK	50	0	22.84	22.82	22.80				
10	16QAM	1	25	22.84	22.82	22.88	24	0		
10	16QAM	1	49	22.84	22.85	22.86				
10	16QAM	5	0	22.85	22.81	22.81				
10	16QAM	25	12	22.83	22.82	22.82	23.5	0.5		
10	16QAM	25	25	22.80	22.79	22.82				
10	16QAM	50	0	22.87	22.87	22.82				
10	16QAM	50	0	22.87	22.87	22.82				
10	16QAM	1	0	22.26	22.41	22.29	23.5	0.5		
10	16QAM	1	25	22.14	22.25	22.19				
10	16QAM	1	49	22.10	22.20	22.15				
10	16QAM	25	0	21.84	21.87	21.80				
10	16QAM	25	12	21.84	21.88	21.81	22.5	1.5		
10	16QAM	25	25	21.80	21.84	21.84				
10	16QAM	50	0	21.43	21.54	21.41				
10	16QAM	50	0	21.45	21.56	21.43				
10	256QAM	1	25	19.33	19.40	19.35	20.5	3.5		
10	256QAM	1	49	19.30	19.33	19.28				
10	256QAM	5	0	19.36	19.35	19.40				
10	256QAM	25	12	19.29	19.34	19.30	20.5	3.5		
10	256QAM	25	25	19.20	19.33	19.22				
10	256QAM	50	0	19.23	19.30	19.25				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.77	22.86	22.74				
5	QPSK	1	25	22.83	22.83	22.80	24	0		
5	QPSK	1	24	22.47	22.54	22.47				
5	QPSK	12	0	22.80	22.75	22.82				
5	QPSK	12	7	22.48	22.56	22.51				
5	QPSK	12	13	22.53	22.45	22.51	24	0		
5	QPSK	25	0	22.46	22.69	22.58				
5	QPSK	1	0	22.42	22.42	22.48				
5	16QAM	1	12	22.50	22.48	22.47	24	0		
5	16QAM	1	25	22.50	22.49	22.48				
5	16QAM	12	0	22.80	22.47	22.82				
5	16QAM	12	7	22.28	22.33	22.19	23.5	0.5		
5	16QAM	12	13	22.39	22.34	22.31				
5	16QAM	25	0	22.31	22.34	22.19				
5	16QAM	1	0	22.15	22.30	22.22	23.5	0.5		
5	16QAM	1	25	22.04	22.20	22.08				
5	16QAM	1	24	21.98	22.07	22.07				
5	16QAM	12	0	21.48	21.83	21.41				
5	16QAM	12	7	21.63	21.58	21.47				
5	16QAM	12	13	21.29	21.32	21.33	22.5	1.5		
5	16QAM	25	0	21.33	21.48	21.34				
5	256QAM	1	0	19.36	19.36	19.31				
5	256QAM	1	12	19.21	19.31	19.20	20.5	3.5		
5	256QAM	1	24	19.17	19.23	19.18				
5	256QAM	12	0	19.22	19.27	19.27				
5	256QAM	12	7	19.07	19.27	19.27	20.5	3.5		
5	256QAM	12	13	19.22	19.21	19.11				
5	256QAM	25	0	19.23	19.31	19.12				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.71	22.81	22.71				
3	QPSK	1	8	22.70	22.78	22.60	24	0		
3	QPSK	1	14	22.53	22.54	22.57				
3	QPSK	8	0	22.78	22.78	22.77				
3	QPSK	8	4	22.51	22.61	22.48	24	0		
3	QPSK	8	7	22.49	22.49	22.67				
3	QPSK	15	0	22.54	22.54	22.54				
3	16QAM	1	0	22.39	22.39	22.47				
3	16QAM	1	8	22.48	22.48	22.48	24	0		
3	16QAM	8	0	22.50	22.44	22.42				
3	16QAM	8	0	22.26	22.44	22.28				
3	16QAM	8	4	22.23	22.37	22.16	23.5	0.5		
3	16QAM	8	7	22.52	22.32	22.30				
3	16QAM	15	0	22.23	22.35	22.19				
3	16QAM	1	0	22.23	22.28	22.17	23.5	0.5		
3	16QAM	1	8	22.00	22.02	22.00				
3	16QAM	1	14	22.00	22.15	22.04				
3	16QAM	8	0	21.45	21.61	21.40				
3	16QAM	8	4	21.40	21.48	21.27	22.5	1.5		
3	16QAM	8	7	21.35	21.36	21.33				
3	16QAM	15	0	21.37	21.50	21.31				
3	256QAM	1	0	19.28	19.41	19.28				
3	256QAM	1	8	19.26	19.31	19.24	20.5	3.5		
3	256QAM	1	14	19.23	19.30	19.21				
3	256QAM	8	0	19.18	19.46	19.28				
3	256QAM	8	4	19.18	19.22	19.18	20.5	3.5		
3	256QAM	8	7	19.06	19.22	19.07				
3	256QAM	15	0	19.18	19.40	19.14				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.76	22.83	22.75				
1.4	QPSK	1	3	22.65	22.87	22.61	24	0		
1.4	QPSK	1	5	22.48	22.87	22.63				
1.4	QPSK	3	0	22.50	22.67	22.67				
1.4	QPSK	3	1	22.54	22.35	22.65				
1.4	QPSK	3	3	22.44	22.54	22.67	24	0		
1.4	QPSK	8	0	22.58	22.73	22.66				
1.4	16QAM	1	0	22.50	22.62	22.65				
1.4	16QAM	1	3	22.49	22.46	22.60				
1.4	16QAM	1	5	22.40	22.46	22.43	24	0		
1.4	16QAM	3	0	22.47	22.60	22.66				
1.4	16QAM	3	1	22.49	22.45	22.47				
1.4	16QAM	8	0	22.37	22.48	22.40				
1.4	16QAM	8	0	22.17	22.30	22.14	23.5	0.5		
1.4	16QAM	1	0	22.33	22.41	22.29				
1.4	16QAM	1	3	22.22	22.40	22.17				
1.4	16QAM	1	5	22.13	22.33	22.18	23.5	0.5		
1.4	16QAM	3	0	22.02	22.21	22.09				
1.4	16QAM	3	1	21.99	22.18	22.05				
1.4	16QAM	3	3	22.22	22.28	22.18				
1.4	16QAM	8	0	21.46	21.60	21.41	22.5	1.5		
1.4	256QAM	1	0	19.29	19.47	19.22				
1.4	256QAM	1	3	19.21	19.31	19.24	20.5	3.5		
1.4	256QAM	1	5	19.22	19.27	19.22				
1.4	256QAM	3	0	19.18	19.37	19.24				
1.4	256QAM	3	1	19.16	19.21	19.24				
1.4	256QAM	3	3	19.15	19.21	19.09	20.5	3.5		
1.4	256QAM	8	0	19.17	19.35	19.15				

Band 13 Ant0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.07			24	0		
10	QPSK	1	25	23.04						
10	QPSK	1	49	22.92						
10	QPSK	25	0	22.98						
10	QPSK	25	12	22.83			24	0		
10	QPSK	25	25	22.82						
10	QPSK	50	0	22.85						
10	16QAM	1	0	22.89						
10	16QAM	1	25	22.86			24	0		
10	16QAM	1	49	22.79						
10	16QAM	5	0	22.74						
10	16QAM	25	12	22.82			23.5	0.5		
10	16QAM	25	25	22.84						
10	16QAM	50	0	22.70				</		



Band 25 Ant0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Power Ch./Freq.	Time-up limit (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.16	23.21	23.18			24	0
20	QPSK	1	49	23.03	23.03	23.03				
20	QPSK	1	99	22.97	23.01	23.03				
20	QPSK	50	0	23.00	23.15	23.05			24	0
20	QPSK	24	0	22.85	23.03	22.95				
20	QPSK	50	50	22.88	22.99	22.88				
20	QPSK	100	0	22.91	23.01	22.92				
20	HQAM	1	0	22.98	23.09	22.98			24	0
20	HQAM	1	49	22.94	22.99	22.95				
20	HQAM	1	99	22.81	22.87	22.80				
20	HQAM	50	0	22.79	22.93	22.83			23.5	0.5
20	HQAM	50	24	22.75	22.80	22.75				
20	HQAM	50	50	22.81	22.72	22.70				
20	HQAM	100	0	22.82	22.98	22.81				
20	HQAM	1	0	22.86	23.05	22.91			23.5	0.5
20	HQAM	1	49	22.79	22.96	22.87				
20	HQAM	1	99	22.79	22.95	22.85				
20	HQAM	50	0	21.82	21.95	21.79			22.5	1.5
20	HQAM	50	24	21.78	21.79	21.74				
20	HQAM	50	24	21.73	21.82	21.72				
20	HQAM	100	0	21.69	21.86	21.64				
20	HQAM	1	0	19.88	20.04	19.88			20.5	3.5
20	HQAM	1	49	19.79	19.90	19.83				
20	HQAM	1	99	19.77	19.85	19.78				
20	HQAM	50	0	19.78	19.89	19.82			20.5	3.5
20	HQAM	50	24	19.77	19.90	19.74				
20	HQAM	50	50	19.70	19.74	19.71				
20	HQAM	100	0	19.62	19.74	19.62				
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.03	23.13	23.04			24	0
15	QPSK	1	37	22.90	22.90	22.90				
15	QPSK	1	74	22.84	22.90	22.87				
15	QPSK	36	0	22.84	23.01	22.95			24	0
15	QPSK	20	0	22.82	22.98	22.88				
15	QPSK	36	36	22.84	22.95	22.75				
15	QPSK	75	0	22.87	22.98	22.79				
15	HQAM	1	0	22.92	22.98	22.84			24	0
15	HQAM	1	37	22.81	22.87	22.85				
15	HQAM	1	74	22.78	22.84	22.78				
15	HQAM	36	0	22.70	22.81	22.75			23.5	0.5
15	HQAM	36	20	22.68	22.66	22.62				
15	HQAM	36	20	22.79	22.85	22.82				
15	HQAM	75	0	22.49	22.83	22.50			23.5	0.5
15	HQAM	1	0	22.74	22.80	22.77				
15	HQAM	1	37	22.79	22.86	22.82			23.5	0.5
15	HQAM	1	74	22.70	22.85	22.75				
15	HQAM	36	0	21.74	21.85	21.65			22.5	1.5
15	HQAM	36	20	21.73	21.68	21.67				
15	HQAM	36	36	21.68	21.70	21.59				
15	HQAM	75	0	21.56	21.74	21.60				
15	HQAM	1	0	19.76	19.86	19.80			20.5	3.5
15	HQAM	1	37	19.75	19.79	19.70				
15	HQAM	1	74	19.67	19.70	19.73				
15	HQAM	36	0	19.78	19.83	19.82			20.5	3.5
15	HQAM	36	20	19.69	19.87	19.60				
15	HQAM	36	36	19.67	19.70	19.61				
15	HQAM	75	0	19.65	19.65	19.65				
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.03	23.09	23.09			24	0
10	QPSK	1	25	22.94	22.92	22.98				
10	QPSK	1	49	22.90	22.95	22.90				
10	QPSK	25	0	22.87	22.90	22.83			24	0
10	QPSK	25	12	22.87	22.80	22.83				
10	QPSK	25	25	22.84	22.85	22.71				
10	HQAM	1	0	22.90	22.95	22.83			24	0
10	HQAM	1	25	22.81	22.91	22.88				
10	HQAM	1	49	22.68	22.74	22.68				
10	HQAM	25	0	22.74	22.80	22.75			23.5	0.5
10	HQAM	25	12	22.62	22.68	22.67				
10	HQAM	25	25	22.62	22.60	22.60				
10	HQAM	50	0	22.57	22.60	22.54				
10	HQAM	1	0	22.62	22.91	22.85			23.5	0.5
10	HQAM	1	25	22.62	22.88	22.85				
10	HQAM	1	49	22.72	22.76	22.71				
10	HQAM	25	0	21.79	21.84	21.88			22.5	1.5
10	HQAM	25	12	21.74	21.76	21.81				
10	HQAM	25	25	21.66	21.77	21.61				
10	HQAM	50	0	21.62	21.56	21.52				
10	HQAM	1	0	19.68	19.73	19.72			20.5	3.5
10	HQAM	1	49	19.74	19.73	19.68				
10	HQAM	25	0	19.83	19.81	19.87			20.5	3.5
10	HQAM	25	12	19.71	19.83	19.68				
10	HQAM	25	25	19.65	19.61	19.60				
10	HQAM	50	0	19.65	19.67	19.63			20.5	3.5
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.03	23.07	23.07			24	0
5	QPSK	1	12	22.95	22.92	23.03				
5	QPSK	1	24	22.88	22.90	22.95				
5	QPSK	12	0	22.88	23.04	22.96			24	0
5	QPSK	12	7	22.88	23.00	22.84				
5	QPSK	12	13	22.77	22.88	22.79				
5	QPSK	25	0	22.77	22.91	22.87			24	0
5	HQAM	1	0	22.88	23.04	22.88				
5	HQAM	1	12	22.88	22.90	22.87				
5	HQAM	1	24	22.87	22.77	22.73			23.5	0.5
5	HQAM	12	0	22.70	22.84	22.73				
5	HQAM	12	7	22.71	22.70	22.63				
5	HQAM	12	13	22.60	22.60	22.60			23.5	0.5
5	HQAM	25	0	22.65	22.62	22.61				
5	HQAM	1	0	22.78	22.98	22.88			23.5	0.5
5	HQAM	1	12	22.71	22.82	22.81				
5	HQAM	1	24	22.85	22.69	22.78				
5	HQAM	12	0	21.78	21.84	21.70			22.5	1.5
5	HQAM	12	7	21.70	21.65	21.70				
5	HQAM	12	13	21.68	21.70	21.68				
5	HQAM	25	0	21.60	21.54	21.60				
5	HQAM	1	0	19.75	19.86	19.86			20.5	3.5
5	HQAM	1	12	19.71	19.82	19.75				
5	HQAM	1	24	19.68	19.76	19.74				
5	HQAM	12	0	19.78	19.85	19.84			20.5	3.5
5	HQAM	12	7	19.68	19.78	19.59				
5	HQAM	12	13	19.61	19.64	19.64				
5	HQAM	25	0	19.57	19.64	19.54			20.5	3.5
Channel										
Frequency (MHz)										
3	QPSK	1	0	23.03	23.15	23.13			24	0
3	QPSK	1	8	22.86	22.95	22.86				
3	QPSK	1	14	22.94	22.93	22.90				
3	QPSK	8	0	22.84	23.05	22.95			24	0
3	QPSK	8	4	22.80	22.97	22.81				
3	QPSK	8	7	22.75	22.88	22.78				
3	QPSK	15	0	22.83	22.98	22.80			24	0
3	HQAM	1	0	22.84	23.02	22.85				
3	HQAM	1	8	22.89	22.86	22.87			24	0
3	HQAM	1	14	22.77	22.75	22.66				
3	HQAM	8	0	22.66	22.65	22.67			23.5	0.5
3	HQAM	8	7	22.67	22.68	22.60				
3	HQAM	15	0	22.48	22.60	22.53				
3	HQAM	1	0	22.75	22.92	22.76			23.5	0.5
3	HQAM	1	8	22.68	22.91	22.70				
3	HQAM	1	14	22.65	22.72	22.69				
3	HQAM	8	0	21.68	21.87	21.64			22.5	1.5
3	HQAM	8	7	21.67	21.68	21.62				
3	HQAM	15								



Band 66 Ant0										
BM [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power Mid Ch / Freq.	Turn-up time (sec)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.17	23.22	23.14				
20	QPSK	1	49	22.98	23.11	22.93	24	0		
20	QPSK	1	99	23.02	23.02	22.90				
20	QPSK	50	0	22.96	23.18	23.07				
20	QPSK	50	24	22.92	23.08	22.99	24	0		
20	QPSK	50	50	22.85	22.98	22.92				
20	QPSK	100	0	22.88	23.01	22.91				
20	HQAM	1	0	22.80	23.19	22.98				
20	HQAM	1	49	22.87	23.01	22.91	24	0		
20	HQAM	1	99	22.83	22.89	22.86				
20	HQAM	50	0	22.81	22.91	22.89				
20	HQAM	50	24	22.80	22.85	22.83	23.5	0.5		
20	HQAM	50	50	22.86	22.87	22.87				
20	HQAM	100	0	22.48	22.99	22.84				
20	HQAM	1	0	22.55	22.79	22.84				
20	HQAM	1	49	22.49	22.87	22.84	23.5	0.5		
20	HQAM	1	99	22.51	22.99	22.90				
20	HQAM	50	0	21.89	21.90	21.71				
20	HQAM	50	24	21.83	21.77	21.77	22.5	1.5		
20	HQAM	50	50	21.83	21.79	21.81				
20	HQAM	100	0	21.57	21.82	21.58				
20	HQAM	1	0	18.86	18.87	18.83				
20	HQAM	1	49	18.89	18.92	18.84	20.5	3.5		
20	HQAM	1	99	18.81	18.84	18.83				
20	HQAM	50	0	18.78	18.86	18.80				
20	HQAM	50	24	18.78	18.86	18.74	20.5	3.5		
20	HQAM	50	50	18.89	18.77	18.73				
20	HQAM	100	0	18.77	18.78	18.78				
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.08	23.16	23.00				
15	QPSK	1	37	22.95	23.05	22.94	24	0		
15	QPSK	1	74	22.89	22.87	22.84				
15	QPSK	36	0	22.87	23.10	23.02				
15	QPSK	36	24	22.82	23.00	22.92	24	0		
15	QPSK	36	36	22.78	22.87	22.78				
15	HQAM	1	0	22.82	22.91	22.82				
15	HQAM	1	37	22.75	22.74	22.85	24	0		
15	HQAM	36	0	22.49	22.71	22.60				
15	HQAM	36	20	22.57	22.60	22.60	23.5	0.5		
15	HQAM	36	36	22.44	22.45	22.44				
15	HQAM	75	0	22.41	22.45	22.44				
15	HQAM	1	0	22.47	22.82	22.57	23.5	0.5		
15	HQAM	1	37	22.51	22.98	22.84				
15	HQAM	1	74	22.45	22.52	22.38	22.5	0.5		
15	HQAM	36	0	21.59	21.88	21.61				
15	HQAM	36	20	21.51	21.68	21.67	22.5	1.5		
15	HQAM	36	36	21.50	21.60	21.52				
15	HQAM	75	0	21.48	21.50	21.51				
15	HQAM	1	0	18.78	18.86	18.80				
15	HQAM	1	37	18.82	18.89	18.79	20.5	3.5		
15	HQAM	1	74	18.75	18.76	18.77				
15	HQAM	36	0	18.86	18.86	18.80				
15	HQAM	36	20	18.73	18.73	18.60	20.5	3.5		
15	HQAM	36	36	18.58	18.89	18.63				
15	HQAM	75	0	18.63	18.61	18.58				
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.05	23.10	23.03				
10	QPSK	1	25	22.94	23.02	22.89	24	0		
10	QPSK	1	49	22.88	22.96	22.82				
10	QPSK	12	0	22.84	23.07	22.93				
10	QPSK	25	12	22.80	23.01	22.95	24	0		
10	QPSK	25	25	22.81	22.87	22.86				
10	HQAM	1	0	22.74	22.96	22.88				
10	HQAM	1	25	22.68	23.07	22.85	24	0		
10	HQAM	1	49	22.81	22.83	22.80				
10	HQAM	12	0	22.76	22.79	22.80				
10	HQAM	12	12	22.57	22.76	22.55	23.5	0.5		
10	HQAM	25	12	22.51	22.59	22.59				
10	HQAM	25	25	22.52	22.52	22.40				
10	HQAM	50	0	22.35	22.53	22.41				
10	HQAM	1	0	22.45	22.88	22.67	23.5	0.5		
10	HQAM	1	25	22.41	22.52	22.42				
10	HQAM	1	49	22.43	22.52	22.43				
10	HQAM	25	0	21.56	21.75	21.61				
10	HQAM	25	12	21.48	21.68	21.60	22.5	1.5		
10	HQAM	25	25	21.54	21.57	21.57				
10	HQAM	50	0	21.42	21.52	21.44				
10	HQAM	1	0	18.78	18.86	18.81				
10	HQAM	1	25	18.79	18.82	18.80	20.5	3.5		
10	HQAM	1	49	18.73	18.76	18.77				
10	HQAM	12	0	18.71	18.87	18.74				
10	HQAM	12	12	18.75	18.81	18.63	20.5	3.5		
10	HQAM	25	25	18.60	18.65	18.63				
10	HQAM	50	0	18.63	18.67	18.63				
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.03	23.06	23.03				
5	QPSK	1	12	22.89	23.01	22.84	24	0		
5	QPSK	1	24	22.91	22.99	22.81				
5	QPSK	12	0	22.85	23.11	23.05				
5	QPSK	12	7	22.79	22.98	22.95	24	0		
5	QPSK	12	13	22.76	22.89	22.83				
5	QPSK	25	4	22.84	22.98	22.87				
5	HQAM	1	0	22.72	22.98	22.82	24	0		
5	HQAM	1	12	22.80	22.90	22.76				
5	HQAM	1	24	22.75	22.96	22.85				
5	HQAM	12	0	22.47	22.74	22.63	23.5	0.5		
5	HQAM	12	7	22.57	22.81	22.59				
5	HQAM	12	13	22.43	22.52	22.51				
5	HQAM	25	0	22.37	22.53	22.48				
5	HQAM	1	0	22.48	22.72	22.67	23.5	0.5		
5	HQAM	1	12	22.45	22.44	22.46				
5	HQAM	1	24	22.39	22.51	22.44				
5	HQAM	12	0	21.63	21.80	21.61				
5	HQAM	12	7	21.51	21.67	21.70	22.5	1.5		
5	HQAM	12	13	21.58	21.67	21.58				
5	HQAM	25	0	21.51	21.63	21.60				
5	HQAM	1	0	18.78	18.91	18.86				
5	HQAM	1	12	18.77	18.84	18.80	20.5	3.5		
5	HQAM	1	24	18.71	18.76	18.76				
5	HQAM	12	0	18.72	18.83	18.71				
5	HQAM	12	7	18.71	18.72	18.68	20.5	3.5		
5	HQAM	12	13	18.65	18.86	18.61				
5	HQAM	25	0	18.62	18.61	18.61				
Channel										
Frequency (MHz)										
3	QPSK	1	0	23.03	23.14	23.03				
3	QPSK	1	8	22.89	23.00	22.83	24	0		
3	QPSK	1	14	22.98	22.89	22.75				
3	QPSK	8	0	22.87	23.02	23.03				
3	QPSK	8	4	22.89	23.04	22.85	24	0		
3	QPSK	8	7	22.78	22.83	22.83				
3	QPSK	15	0	22.73	22.90	22.86				
3	HQAM	1	0	22.76	23.07	22.84	24	0		
3	HQAM	1	8	22.82	22.98	22.87				
3	HQAM	1	14	22.78	22.85	22.82				
3	HQAM	8	0	22.56	22.73	22.63	23.5	0.5		
3	HQAM	8	4	22.54	22.52	22.49				
3	HQAM	8	7	22.42	22.47	22.52				
3	HQAM	15	0	22.43	22.48	22.51				
3	HQAM	1	0	22.47	22.69	22.60	23.5	0.5		
3	HQAM	1	8	22.41	22.59	22.46				
3	HQAM	1	14	22.42	22.48	22.38				
3	HQAM	8	0	21.67	21.89	21.69				
3	HQAM	8	4	21.52	21.68	21.70				



Band 38 Default Ant0										
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)										
30	QPSK	1	0	20.97	20.60	20.42	22	0		
30	QPSK	1	49	20.48	20.43	20.49	22	0		
30	QPSK	1	99	20.47	20.43	20.49	22	0		
30	QPSK	50	0	20.47	20.50	20.33	22	0		
30	QPSK	50	24	20.38	20.50	20.42	22	0		
30	QPSK	50	49	20.38	20.50	20.42	22	0		
30	QPSK	100	0	20.37	20.52	20.33	22	0		
30	HQAM	1	0	20.46	20.57	20.39	22	0		
30	HQAM	1	49	20.36	20.56	20.31	22	0		
30	HQAM	1	99	20.29	20.33	20.40	22	0		
30	HQAM	50	0	20.08	20.52	20.04	21.5	0.5		
30	HQAM	50	24	20.10	20.50	20.46	21.5	0.5		
30	HQAM	50	49	19.97	20.03	19.96	21.5	0.5		
30	HQAM	100	0	19.92	20.01	19.99	21.5	0.5		
30	HQAM	100	0	20.03	20.25	20.10	21.5	0.5		
30	HQAM	100	49	19.94	20.04	20.10	21.5	0.5		
30	HQAM	100	99	20.10	20.01	20.00	21.5	0.5		
30	HQAM	50	0	19.88	20.04	19.95	20.5	1.5		
30	HQAM	50	24	19.83	19.90	19.89	20.5	1.5		
30	HQAM	50	49	19.82	19.89	19.83	20.5	1.5		
30	HQAM	100	0	19.85	19.88	19.79	20.5	1.5		
30	25QAM	1	0	17.91	18.08	17.94	18.5	3.5		
30	25QAM	1	49	17.82	17.93	17.82	18.5	3.5		
30	25QAM	1	99	17.86	17.86	17.87	18.5	3.5		
30	25QAM	50	0	17.84	17.89	17.87	18.5	3.5		
30	25QAM	50	24	17.80	17.85	17.80	18.5	3.5		
30	25QAM	50	49	17.77	17.87	17.81	18.5	3.5		
30	25QAM	100	0	17.79	17.80	17.81	18.5	3.5		
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.50	20.60	20.42	22	0		
15	QPSK	1	37	20.29	20.36	20.42	22	0		
15	QPSK	1	74	20.40	20.36	20.23	22	0		
15	QPSK	36	0	20.30	20.30	20.27	22	0		
15	QPSK	36	20	20.24	20.39	20.31	22	0		
15	QPSK	75	0	20.31	20.39	20.28	22	0		
15	HQAM	1	0	20.31	20.44	20.29	22	0		
15	HQAM	1	37	20.37	20.37	20.33	22	0		
15	HQAM	1	74	20.25	20.23	20.33	22	0		
15	HQAM	36	0	19.95	20.20	19.88	21.5	0.5		
15	HQAM	36	20	19.82	19.85	19.80	21.5	0.5		
15	HQAM	36	39	19.79	19.83	19.83	21.5	0.5		
15	HQAM	75	0	19.85	19.89	19.86	21.5	0.5		
15	HQAM	1	0	19.94	20.23	19.89	21.5	0.5		
15	HQAM	1	37	19.77	19.97	20.07	21.5	0.5		
15	HQAM	1	74	20.01	19.95	19.96	21.5	0.5		
15	HQAM	36	0	19.77	20.01	19.91	20.5	1.5		
15	HQAM	36	20	19.73	19.86	19.89	20.5	1.5		
15	HQAM	36	39	19.74	19.83	19.75	20.5	1.5		
15	HQAM	75	0	19.75	19.85	19.85	20.5	1.5		
15	25QAM	1	0	17.78	17.87	17.88	18.5	3.5		
15	25QAM	1	37	17.70	17.83	17.82	18.5	3.5		
15	25QAM	1	74	17.73	17.82	17.72	18.5	3.5		
15	25QAM	36	0	17.83	18.00	17.82	18.5	3.5		
15	25QAM	36	20	17.86	17.89	17.82	18.5	3.5		
15	25QAM	36	39	17.84	17.77	17.71	18.5	3.5		
15	25QAM	75	0	17.79	17.80	17.81	18.5	3.5		
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.43	20.48	20.46	22	0		
10	QPSK	1	25	20.31	20.39	20.41	22	0		
10	QPSK	1	49	20.35	20.28	20.34	22	0		
10	QPSK	12	0	20.32	20.40	20.36	22	0		
10	QPSK	25	12	20.24	20.46	20.38	22	0		
10	QPSK	25	25	20.17	20.25	20.22	22	0		
10	HQAM	1	0	20.34	20.42	20.36	22	0		
10	HQAM	1	0	20.32	20.41	20.29	22	0		
10	HQAM	1	25	20.22	20.33	20.29	22	0		
10	HQAM	1	49	20.16	20.17	20.31	22	0		
10	HQAM	25	0	20.04	20.20	19.98	21.5	0.5		
10	HQAM	25	12	20.04	19.95	19.96	21.5	0.5		
10	HQAM	25	25	19.81	19.86	19.87	21.5	0.5		
10	HQAM	50	0	19.86	20.04	19.84	21.5	0.5		
10	HQAM	1	0	19.80	20.09	20.01	21.5	0.5		
10	HQAM	1	25	19.82	20.01	20.01	21.5	0.5		
10	HQAM	1	49	20.06	19.83	20.04	21.5	0.5		
10	HQAM	25	0	19.81	20.00	19.81	20.5	1.5		
10	HQAM	25	12	19.71	19.85	19.78	20.5	1.5		
10	HQAM	25	25	19.74	19.71	19.75	20.5	1.5		
10	HQAM	50	0	19.80	19.83	19.72	20.5	1.5		
10	25QAM	1	0	17.81	18.03	17.84	18.5	3.5		
10	25QAM	1	25	17.73	17.87	17.78	18.5	3.5		
10	25QAM	1	49	17.71	17.79	17.76	18.5	3.5		
10	25QAM	25	0	17.84	17.83	17.84	18.5	3.5		
10	25QAM	25	12	17.80	17.81	17.86	18.5	3.5		
10	25QAM	25	25	17.69	17.82	17.85	18.5	3.5		
10	25QAM	50	0	17.85	17.88	17.84	18.5	3.5		
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.56	20.61	20.38	22	0		
5	QPSK	1	12	20.31	20.32	20.37	22	0		
5	QPSK	1	24	20.44	20.39	20.33	22	0		
5	QPSK	12	0	20.38	20.46	20.38	22	0		
5	QPSK	12	7	20.24	20.42	20.38	22	0		
5	QPSK	12	13	20.11	20.29	20.18	22	0		
5	HQAM	1	0	20.20	20.29	20.29	22	0		
5	HQAM	1	0	20.31	20.44	20.23	22	0		
5	HQAM	1	12	20.28	20.39	20.15	22	0		
5	HQAM	1	24	20.16	20.29	20.20	22	0		
5	HQAM	12	0	19.93	20.17	19.96	21.5	0.5		
5	HQAM	12	7	19.97	19.82	20.00	21.5	0.5		
5	HQAM	12	13	19.77	19.83	19.80	21.5	0.5		
5	HQAM	25	0	19.82	19.96	19.83	21.5	0.5		
5	HQAM	1	0	19.94	20.12	20.00	21.5	0.5		
5	HQAM	1	12	19.89	19.86	20.00	21.5	0.5		
5	HQAM	1	24	19.95	19.91	19.99	21.5	0.5		
5	HQAM	12	0	19.78	19.87	19.81	20.5	1.5		
5	HQAM	12	7	19.76	19.76	19.75	20.5	1.5		
5	HQAM	12	13	19.72	19.78	19.71	20.5	1.5		
5	25QAM	1	0	17.83	18.01	17.80	18.5	3.5		
5	25QAM	1	12	17.74	18.03	17.82	18.5	3.5		
5	25QAM	1	24	17.74	17.70	17.70	18.5	3.5		
5	25QAM	12	0	17.70	17.86	17.86	18.5	3.5		
5	25QAM	12	13	17.70	17.81	17.70	18.5	3.5		
5	25QAM	25	0	17.87	17.89	17.89	18.5	3.5		

Band 41 FCC&IC Ant0										
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)										
20	QPSK	1	0	22.46	22.42	22.44	24	0		
20	QPSK	1	49	22.33	22.54	22.52	24	0		
20	QPSK	1	99	22.31	22.41	22.34	24	0		
20	QPSK	50	0	22.27	22.18	22.34	24	0		
20	QPSK	50	24	22.05	22.15	22.18	24	0		
20	QPSK	50	49	22.05	22.12	22.18	24	0		
20	QPSK	100	0	22.25	22.10	22.30	24	0		
20	HQAM	1	0	22.15	22.13	22.28	24	0		
20	HQAM	1	49	22.04	22.10	22.09	24	0		
20	HQAM	1	99	22.02	22.03	22.13	24	0		
20	HQAM	50	0	21.30	21.18	21.38	24	0		
20	HQAM	50	24	21.20	21.17	21.20	24	0		
20	HQAM	50	49	21.01	21.08	21.1				



Band 41 PC2 FCC&Int A0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up Int (dBm)	MPR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	25.60	25.62	25.64	25.66	25.68	25.70	26	0
20	QPSK	1	49	25.46	25.23	25.59	25.40	25.36	25.38		
20	QPSK	1	99	25.32	25.28	25.40	25.36	25.32	25.31		
20	QPSK	50	0	25.42	25.34	25.45	25.21	25.08			
20	QPSK	50	24	25.32	25.43	25.38	25.29	25.10			
20	QPSK	50	49	25.67	25.25	25.46	25.49	25.47			
20	QPSK	100	0	25.32	25.40	25.38	25.28	25.13			
20	HQAM	1	0	25.55	25.46	25.60	25.48	25.41			
20	HQAM	1	49	25.35	25.39	25.41	25.49	25.27			
20	HQAM	1	99	25.30	25.34	25.42	25.44	25.22			
20	HQAM	50	0	24.26	24.15	24.36	24.27	24.10			
20	HQAM	50	24	24.19	24.20	24.30	24.13	24.07			
20	HQAM	50	50	24.11	24.05	24.17	24.11	23.97			
20	HQAM	100	0	24.25	24.21	24.30	24.15	24.07			
20	HQAM	100	0	24.18	24.15	24.25	24.10	24.10			
20	HQAM	100	49	24.02	24.11	24.10	24.10	23.96			
20	HQAM	100	99	24.06	24.03	24.14	24.03	23.96			
20	HQAM	50	0	23.26	23.22	23.38	23.20	23.14			
20	HQAM	50	24	23.15	23.14	23.27	23.19	23.03			
20	HQAM	50	50	23.14	23.10	23.21	23.15	23.06			
20	HQAM	100	0	23.11	23.17	23.23	23.22	23.02			
20	256QAM	1	0	21.51	21.42	21.55	21.46	21.29			
20	256QAM	1	49	21.54	21.49	21.55	21.45	21.30			
20	256QAM	1	99	21.24	21.37	21.38	21.38	21.28			
20	256QAM	50	0	21.36	21.21	21.42	21.35	21.24			
20	256QAM	50	24	21.22	21.16	21.29	21.24	21.04			
20	256QAM	50	50	21.14	21.12	21.21	21.20	21.05			
20	256QAM	100	0	21.32	21.29	21.39	21.38	21.16			
Channel											
Frequency (MHz)											
15	QPSK	1	0	25.52	25.47	25.50	25.50	25.43			
15	QPSK	1	37	25.39	25.12	25.50	25.28	25.20			
15	QPSK	1	74	25.13	25.30	25.35	25.24	25.21			
15	QPSK	38	0	25.39	25.21	25.39	25.19	24.31			
15	QPSK	38	20	25.20	25.06	25.34	25.19	24.95			
15	QPSK	38	39	24.83	24.93	25.21	25.24	25.04			
15	QPSK	75	0	25.24	25.15	25.23	25.15	25.00			
15	HQAM	1	0	25.43	25.36	25.51	25.38	25.36			
15	HQAM	1	37	25.35	25.30	25.39	25.42	25.29			
15	HQAM	1	74	25.16	25.21	25.28	25.38	25.10			
15	HQAM	38	0	24.22	24.02	24.24	24.16	23.97			
15	HQAM	38	20	24.05	24.08	24.20	24.15	23.94			
15	HQAM	38	39	24.08	23.99	24.08	24.06	23.88			
15	HQAM	75	0	24.19	24.06	24.27	24.04	24.02			
15	HQAM	1	0	24.04	24.19	24.16	24.19	24.10			
15	HQAM	1	37	23.89	24.04	23.97	23.96	23.88			
15	HQAM	1	74	24.03	23.89	24.10	23.94	23.92			
15	HQAM	38	0	23.19	23.18	23.35	23.35	23.05			
15	HQAM	38	20	23.05	23.09	23.22	23.15	22.97			
15	HQAM	38	39	23.21	23.29	23.21	23.25	23.06			
15	HQAM	75	0	23.04	23.03	23.18	23.15	22.92			
15	256QAM	1	0	21.43	21.39	21.51	21.39	21.22			
15	256QAM	1	37	21.43	21.37	21.48	21.38	21.27			
15	256QAM	1	74	21.20	21.26	21.32	21.23	21.10			
15	256QAM	38	0	21.24	21.17	21.34	21.25	21.11			
15	256QAM	38	20	21.08	21.12	21.21	21.15	20.99			
15	256QAM	38	39	21.10	21.08	21.07	21.09	20.98			
15	256QAM	75	0	21.21	21.12	21.21	21.16	21.07			
Channel											
Frequency (MHz)											
10	QPSK	1	0	25.64	25.44	25.62	25.43	25.47			
10	QPSK	1	25	25.55	25.11	25.51	25.34	25.28			
10	QPSK	1	49	25.06	25.30	25.30	25.31	25.16			
10	QPSK	12	0	25.34	25.28	25.39	25.30	25.05			
10	QPSK	25	12	25.28	25.05	25.32	25.14	25.03			
10	QPSK	25	25	24.92	25.06	25.09	25.14	24.97			
10	HQAM	1	0	25.30	25.30	25.39	25.34	25.06			
10	HQAM	1	0	25.47	25.40	25.60	25.41	25.36			
10	HQAM	1	25	25.20	25.34	25.40	25.38	25.12			
10	HQAM	1	49	25.21	25.21	25.29	25.36	25.17			
10	HQAM	25	0	24.23	24.09	24.31	24.12	24.03			
10	HQAM	25	12	24.02	24.16	24.22	24.06	23.91			
10	HQAM	25	25	24.04	23.98	24.14	24.04	23.85			
10	HQAM	50	0	24.18	24.14	24.28	24.08	24.13			
10	HQAM	50	0	24.09	24.09	24.20	24.06	23.97			
10	HQAM	50	1	23.94	23.98	24.02	23.92	23.86			
10	HQAM	25	0	23.21	23.08	23.20	23.15	23.03			
10	HQAM	25	12	23.05	23.10	23.24	23.09	22.89			
10	HQAM	25	25	23.02	22.87	23.20	23.08	22.96			
10	HQAM	50	0	22.97	23.07	23.15	23.19	22.98			
10	256QAM	1	0	21.47	21.39	21.54	21.36	21.18			
10	256QAM	1	25	21.51	21.26	21.47	21.39	21.25			
10	256QAM	1	49	21.14	21.20	21.26	21.30	21.22			
10	256QAM	25	0	21.28	21.21	21.39	21.32	21.20			
10	256QAM	25	12	21.06	21.04	21.20	21.17	20.94			
10	256QAM	25	25	20.99	21.07	21.13	21.15	20.98			
10	256QAM	50	0	21.28	21.16	21.27	21.11	21.02			
Channel											
Frequency (MHz)											
5	QPSK	1	0	25.51	25.43	25.45	25.38	25.40			
5	QPSK	1	12	25.43	25.07	25.45	25.33	25.31			
5	QPSK	1	24	25.15	25.24	25.39	25.21	25.25			
5	QPSK	12	0	25.39	25.32	25.47	25.39	24.81			
5	QPSK	12	7	25.24	25.15	25.38	25.12	25.03			
5	QPSK	12	13	24.93	25.06	25.02	25.17	25.05			
5	QPSK	25	0	25.21	25.05	25.29	25.22	25.09			
5	QPSK	25	0	25.47	25.42	25.52	25.38	25.27			
5	HQAM	1	12	25.29	25.29	25.33	25.35	25.24			
5	HQAM	1	24	25.10	25.21	25.36	25.24	25.16			
5	HQAM	12	0	24.20	24.02	24.31	24.20	24.02			
5	HQAM	12	7	24.15	24.14	24.19	24.06	23.97			
5	HQAM	12	13	24.06	23.98	24.03	24.07	23.89			
5	HQAM	25	0	24.12	24.16	24.20	24.06	24.07			
5	HQAM	1	0	24.07	24.10	24.21	24.09	24.00			
5	HQAM	1	12	23.91	23.97	24.02	24.07	23.92			
5	HQAM	1	24	23.97	23.99	24.11	23.99	23.89			
5	HQAM	12	0	23.18	23.15	23.27	23.07	23.06			
5	HQAM	12	7	23.08	23.06	23.13	23.10	22.99			
5	HQAM	12	13	23.00	22.98	23.16	23.05	23.01			
5	HQAM	25	0	23.06	23.11	23.11	23.16	22.96			
5	256QAM	1	0	21.45	21.34	21.40	21.41	21.22			
5	256QAM	1	12	21.48	21.25	21.46	21.37	21.17			
5	256QAM	1	24	21.19	21.20	21.32	21.28	21.22			
5	256QAM	12	0	21.28	21.25	21.33	21.22	21.19			
5	256QAM	12	7	21.19	21.07	21.22	21.20	21.03			
5	256QAM	12	13	21.08	21.06	21.15	21.19	20.96			
5	256QAM	25	0	21.24	21.16	21.25	21.12	21.02			

Band 48 Default A0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up Int (dBm)	MPR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	21.28	21.44	21.41	21.49			23	0
20	QPSK	1	49	21.23	21.39	21.34	21.25				
20	QPSK	1	99	21.16	21.31	21.19	21.20				
20	QPSK	50	0	21.25	21.37	21.32	21.23				
20	QPSK	50	24	21.24	21.36	21.30	21.31			23	0
20	QPSK	50	49	21.28	21.29	21.26	21.23				
20	QPSK	100	0	21.15	21.28	21.14	21.22				
20	HQAM	1	0	21.31	21.34	21.30	21.24			23	0
20	HQAM	1	49	21.19	21.29	21.29	21.23				
20	HQAM	1	99	21.16	21.29	21.15	21.20				
20	HQAM	50	0	21.16	21.26	21.19	21.15			22.5	0.5
20	HQAM	50	24	21.14	21.20	21.17	21.13				
20	HQAM	50	50	21.10	21.23	21.14	21.19				
20	HQAM										



CDMA2000 1X									
TX Channel	Burst Average Power (dBm)			Tx Power Limit (dBm)	Frame Average Power (dBm)			Tx Power Limit (dBm)	
	198.2	199.1	201.6		198.2	199.1	201.6		
Frequency (MHz)	893.2	893.41	893.6		893.2	893.41	893.6		
CDMA 1 Tx Rate	31.42	31.48	31.36	32.00	22.42	22.48	22.36	23.00	
OPRS 1 Tx Rate	31.38	31.44	31.33	32.00	22.39	22.44	22.33	23.00	
OPRS 2 Tx Rate	25.27	25.30	25.32	26.00	22.27	22.29	22.30	23.00	
OPRS 3 Tx Rate	26.80	26.91	26.80	28.00	22.34	22.55	22.44	23.14	
OPRS 4 Tx Rate	25.16	25.22	25.17	26.00	22.16	22.22	22.17	23.00	
EDGE 1 Tx Rate	24.00	24.17	24.05	25.00	18.03	18.17	18.05	18.00	
EDGE 2 Tx Rate	22.20	22.41	22.34	23.00	18.20	18.41	18.34	17.00	
EDGE 3 Tx Rate	21.15	21.21	21.08	22.00	18.89	18.97	18.82	17.74	
EDGE 4 Tx Rate	18.99	19.06	18.93	20.00	18.99	19.08	18.91	17.00	

CDMA2000 1X									
TX Channel	Burst Average Power (dBm)			Tx Power Limit (dBm)	Frame Average Power (dBm)			Tx Power Limit (dBm)	
	199.2	199.3	199.8		199.2	199.3	199.8		
Frequency (MHz)	1693.2	1693.3	1693.8		1693.2	1693.3	1693.8		
CDMA 1 Tx Rate	27.52	27.57	27.57	28.50	18.52	18.67	18.57	19.50	
OPRS 1 Tx Rate	25.06	25.00	24.98	26.00	19.06	19.00	18.98	20.00	
OPRS 2 Tx Rate	25.36	25.42	25.32	26.50	19.10	19.18	19.06	20.24	
OPRS 3 Tx Rate	20.62	20.74	20.63	21.50	17.62	17.74	17.63	18.50	
EDGE 1 Tx Rate	22.76	22.86	22.72	23.50	13.76	13.86	13.72	14.50	
EDGE 2 Tx Rate	21.13	21.22	21.13	22.00	13.13	13.22	13.13	15.00	
EDGE 3 Tx Rate	14.86	14.96	14.86	15.00	13.86	13.96	13.74	15.00	
EDGE 4 Tx Rate	17.01	18.00	17.97	19.00	14.91	15.00	14.97	16.00	

WCDMA II Rev E									
TX Channel	WCDMA II			Tx Power Limit (dBm)	WCDMA IV Rev E			Tx Power Limit (dBm)	
	9582	9600	9598		1412	1413	1513		
Frequency (MHz)	1692.4	1693	1693.6		1412.4	1413.6	1413.6		
ISPP Rate	21.46	21.50	21.44	23.00	21.42	21.44	21.31	23.00	
ISPP Rate	21.48	21.51	21.51	23.00	21.45	21.45	21.37	23.00	
ISPP Rate	20.85	20.84	20.47	22.00	20.46	20.57	20.32	22.00	
ISPP Rate	20.48	20.51	20.52	22.00	20.42	20.50	20.41	22.00	
ISPP Rate	20.02	20.14	20.10	21.50	19.91	20.02	19.95	21.50	
ISPP Rate	19.56	20.14	20.36	21.50	19.57	20.31	20.54	21.50	
ISPP Rate	20.50	20.70	20.45	22.00	20.46	20.63	20.35	22.00	
ISPP Rate	20.37	20.42	20.36	22.00	20.33	20.29	20.28	22.00	
ISPP Rate	19.00	19.96	19.92	21.50	19.94	19.94	19.86	21.50	
ISPP Rate	19.87	19.84	19.99	21.50	19.82	19.80	19.83	21.50	
ISPP Rate	18.53	18.61	18.52	20.00	18.42	18.53	18.39	20.00	
ISPP Rate	18.53	18.67	18.52	20.00	18.42	18.53	18.39	20.00	
ISPP Rate	18.53	18.67	18.52	20.00	18.42	18.53	18.39	20.00	
ISPP Rate	18.46	18.48	18.44	20.00	18.37	18.45	18.35	20.00	
ISPP Rate	20.59	20.40	20.39	22.00	20.58	20.38	20.33	22.00	



Band 2 Default Ant1										
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (min)	MFR (dB)		
Channel	Frequency (MHz)	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.				
20	QPSK	1	0	20.99	21.00	20.98				
20	QPSK	1	49	20.98	20.99	20.98	22	0		
20	QPSK	1	99	20.96	20.96	20.96				
20	QPSK	50	0	20.99	21.04	20.99				
20	QPSK	50	24	20.97	20.97	20.97	22	0		
20	QPSK	50	50	20.98	20.92	20.98				
20	QPSK	100	0	20.99	20.96	20.87				
20	QPSK	100	24	20.96	20.96	20.97	22	0		
20	QPSK	100	49	20.77	20.83	20.78				
20	HQAM	1	0	20.99	20.96	20.97				
20	HQAM	1	50	20.99	20.73	20.77				
20	HQAM	50	0	20.92	20.98	20.78				
20	HQAM	50	24	20.72	20.85	20.59	21.5	0.5		
20	HQAM	100	0	20.72	20.79	20.69				
20	HQAM	100	24	20.78	20.88	20.77				
20	HQAM	1	0	20.71	20.80	20.71				
20	HQAM	1	49	20.87	20.76	20.72	21.5	0.5		
20	HQAM	50	0	20.86	20.74	20.81				
20	HQAM	50	24	19.77	19.72	19.69	20.5	1.5		
20	HQAM	50	50	19.71	19.72	19.69				
20	HQAM	100	0	19.86	19.83	19.80				
20	HQAM	100	24	19.86	19.83	19.80				
20	HQAM	1	0	17.87	17.89	17.89	18.5	3.5		
20	HQAM	1	49	17.87	17.89	17.89				
20	HQAM	50	0	17.82	17.86	17.81				
20	HQAM	50	24	17.86	17.82	17.82				
20	HQAM	50	50	17.73	17.80	17.80	18.5	3.5		
20	HQAM	50	24	17.73	17.81	17.69				
20	HQAM	100	0	17.67	17.81	17.69				
20	HQAM	100	24	17.67	17.81	17.69				
20	HQAM	1	0	18.07	18.00	19.55	Turn-up (min)	MFR (dB)		
15	QPSK	1	0	20.98	21.02	20.89				
15	QPSK	1	49	20.99	20.97	20.89	22	0		
15	QPSK	1	99	20.73	21.00	20.88				
15	QPSK	50	0	20.93	21.03	20.87				
15	QPSK	50	24	20.78	20.91	20.88	22	0		
15	QPSK	50	50	20.90	20.83	20.73				
15	QPSK	100	0	20.92	20.96	20.87				
15	QPSK	100	24	20.76	20.79	20.81	22	0		
15	HQAM	1	0	20.78	20.73	20.84				
15	HQAM	1	50	20.78	20.73	20.84	22	0		
15	HQAM	50	0	20.82	20.81	20.81				
15	HQAM	50	24	20.64	20.84	20.69	21.5	0.5		
15	HQAM	50	50	20.82	20.84	20.69				
15	HQAM	100	0	20.73	20.83	20.75				
15	HQAM	100	24	20.73	20.83	20.75				
15	HQAM	1	0	19.72	19.88	19.74	20.5	1.5		
15	HQAM	1	49	19.76	19.87	19.83				
15	HQAM	50	0	19.71	19.83	19.81				
15	HQAM	50	24	19.86	19.82	19.78				
15	HQAM	50	50	17.88	17.88	17.88	18.5	3.5		
15	HQAM	50	24	17.73	17.82	17.78				
15	HQAM	50	50	17.73	17.82	17.78	18.5	3.5		
15	HQAM	100	0	17.68	17.74	17.65				
15	HQAM	100	24	17.73	17.84	17.65				
10	QPSK	1	0	20.91	20.95	20.82				
10	QPSK	1	25	20.70	20.95	20.82	22	0		
10	QPSK	1	49	20.71	20.94	20.82				
10	QPSK	50	0	20.94	20.94	20.84				
10	QPSK	50	24	20.84	20.95	20.84	22	0		
10	QPSK	50	50	20.84	20.93	20.76				
10	QPSK	100	0	20.87	20.94	20.73				
10	HQAM	1	0	20.78	20.95	20.74				
10	HQAM	1	25	20.79	20.74	20.85	22	0		
10	HQAM	50	0	20.83	20.89	20.70				
10	HQAM	50	24	20.63	20.84	20.66	21.5	0.5		
10	HQAM	50	50	20.84	20.88	20.64				
10	HQAM	100	0	20.73	20.87	20.77				
10	HQAM	100	24	20.78	20.79	20.71	21.5	0.5		
10	HQAM	1	0	19.49	19.78	19.67	20.5	1.5		
10	HQAM	1	49	19.49	19.69	19.65				
10	HQAM	50	0	19.75	19.87	19.67				
10	HQAM	50	24	19.87	19.87	19.67				
10	HQAM	50	50	19.79	19.77	19.62				
10	HQAM	100	0	17.81	17.82	17.81	18.5	3.5		
10	HQAM	100	24	17.81	17.82	17.81				
10	HQAM	1	0	17.81	17.82	17.81				
10	HQAM	1	49	17.81	17.82	17.81	18.5	3.5		
10	HQAM	50	0	17.82	17.82	17.82				
10	HQAM	50	24	17.82	17.83	17.81				
10	HQAM	50	50	17.85	17.87	17.84	18.5	3.5		
10	HQAM	100	0	17.85	17.84	17.84				
10	HQAM	100	24	17.85	17.84	17.84				
5	QPSK	1	0	20.91	20.95	20.82				
5	QPSK	1	24	20.65	20.90	20.82	22	0		
5	QPSK	1	49	20.72	21.01	20.90				
5	QPSK	50	0	20.94	20.94	20.84				
5	QPSK	50	24	20.87	20.95	20.88	22	0		
5	QPSK	50	50	20.84	20.93	20.73				
5	HQAM	1	0	20.78	20.90	20.78				
5	HQAM	1	25	20.73	20.74	20.73	22	0		
5	HQAM	50	0	20.82	20.87	20.71				
5	HQAM	50	24	20.63	20.83	20.78	21.5	0.5		
5	HQAM	50	50	20.83	20.83	20.78				
5	HQAM	100	0	20.73	20.78	20.74				
5	HQAM	100	24	20.81	20.82	20.71	21.5	0.5		
5	HQAM	1	0	19.71	19.82	19.66	20.5	1.5		
5	HQAM	1	49	19.73	19.85	19.81				
5	HQAM	50	0	19.80	19.72	19.69				
5	HQAM	50	24	19.83	19.70	19.58				
5	HQAM	50	50	19.83	19.80	19.66				
5	HQAM	100	0	17.78	17.78	17.81	18.5	3.5		
5	HQAM	100	24	17.78	17.78	17.81				
5	HQAM	100	50	17.78	17.78	17.81	18.5	3.5		
5	HQAM	100	24	17.78	17.78	17.81				
3	QPSK	1	0	20.91	21.00	20.81				
3	QPSK	1	14	20.76	20.93	20.83	22	0		
3	QPSK	1	29	20.87	20.94	20.84				
3	QPSK	50	0	20.92	21.00	20.88				
3	QPSK	50	7	20.81	20.87	20.76	22	0		
3	HQAM	1	0	20.82	20.84	20.71				
3	HQAM	1	8	20.72	20.75	20.77	22	0		
3	HQAM	50	0	20.85	20.88	20.77				
3	HQAM	50	8	20.74	20.88	20.78	21.5	0.5		
3	HQAM	50	14	20.71	20.76	20.82				
3	HQAM	100	0	20.78	20.80	20.70				
3	HQAM	100	8	20.72	20.79	20.84	21.5	0.5		
3	HQAM	1	0	19.81	19.84	19.69	20.5	1.5		
3	HQAM	1	7	19.81	19.83	19.67				
3	HQAM	50	0	17.84	17.84	17.88	18.5	3.5		
3	HQAM	50	7	17.84	17.84	17.87				
3	HQAM	100	0	17.84	17.84	17.87				
3	HQAM	100	7	17.84	17.84	17.87	18.5	3.5		
3	HQAM	100	14	17.84	17.84	17.87				
3	HQAM	100	21	17.84	17.84	17.87	18.5	3.5		
3	HQAM	100	28	17.84	17.84	17.87				
3	HQAM	100	35	17.84	17.84	17.87	18.5	3.5		
3	HQAM	100	42	17.84	17.84	17.87				
3	HQAM	100	49	17.84	17.84					



Band 12 Default Ant1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Tune-up Int. (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.61	21.73	21.68				
10	QPSK	1	25	21.47	21.49	21.52	23	0		
10	QPSK	1	49	21.47	21.49	21.52				
10	QPSK	25	0	21.60	21.70	21.65				
10	QPSK	25	12	21.55	21.63	21.63	23	0		
10	QPSK	25	25	21.46	21.48	21.48				
10	QPSK	50	0	21.51	21.57	21.45				
10	16QAM	0	0	21.55	21.63	21.51				
10	16QAM	1	25	21.40	21.48	21.38	23	0		
10	16QAM	1	49	21.35	21.48	21.44				
10	16QAM	25	0	21.39	21.59	21.59				
10	16QAM	25	12	21.45	21.49	21.49	22.5	0.5		
10	16QAM	25	25	21.38	21.39	21.41				
10	16QAM	50	0	21.33	21.54	21.49				
10	8QAM	1	0	21.34	21.50	21.36			22.5	0.5
10	8QAM	1	25	21.26	21.32	21.33				
10	8QAM	25	0	20.40	20.53	20.43				
10	8QAM	25	12	20.37	20.43	20.31				
10	8QAM	25	25	20.28	20.34	20.33	21.5	1.5		
10	8QAM	50	0	20.25	20.37	20.31				
10	256QAM	1	25	18.42	18.62	18.49	19.5	3.5		
10	256QAM	1	49	18.41	18.37	18.33				
10	256QAM	25	0	18.36	18.53	18.43				
10	256QAM	25	12	18.28	18.37	18.36	19.5	3.5		
10	256QAM	25	25	18.24	18.32	18.32				
10	256QAM	50	0	18.20	18.30	18.25				
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.56	21.63	21.64				
5	QPSK	1	25	21.37	21.46	21.43	23	0		
5	QPSK	1	49	21.33	21.44	21.40				
5	QPSK	12	0	21.51	21.58	21.44				
5	QPSK	12	7	21.49	21.58	21.59	23	0		
5	QPSK	12	13	21.34	21.39	21.41				
5	QPSK	25	0	21.46	21.49	21.41				
5	16QAM	1	0	21.48	21.51	21.43				
5	16QAM	1	12	21.33	21.37	21.33	23	0		
5	16QAM	1	25	21.24	21.29	21.28				
5	16QAM	12	0	21.31	21.46	21.41				
5	16QAM	12	7	21.23	21.39	21.27	22.5	0.5		
5	16QAM	12	13	21.07	21.22	21.28				
5	16QAM	25	0	21.26	21.43	21.34				
5	8QAM	1	0	21.23	21.38	21.22				
5	8QAM	1	12	21.08	21.23	21.23	22.5	0.5		
5	8QAM	1	24	21.02	21.17	21.17				
5	8QAM	12	0	20.31	20.41	20.30				
5	8QAM	12	7	20.28	20.34	20.29	21.5	1.5		
5	8QAM	12	13	20.17	20.20	20.15				
5	8QAM	25	0	20.15	20.22	20.24				
5	256QAM	1	12	18.31	18.53	18.45	19.5	3.5		
5	256QAM	1	24	18.28	18.31	18.25				
5	256QAM	12	0	18.17	18.24	18.23	19.5	3.5		
5	256QAM	12	13	18.20	18.23	18.28				
5	256QAM	25	0	18.23	18.30	18.17				
Channel										
Frequency (MHz)										
3	QPSK	1	0	21.46	21.56	21.55				
3	QPSK	1	8	21.32	21.54	21.37	23	0		
3	QPSK	1	14	21.42	21.43	21.38				
3	QPSK	8	0	21.56	21.59	21.43				
3	QPSK	8	4	21.48	21.52	21.39	23	0		
3	QPSK	8	7	21.32	21.40	21.38				
3	QPSK	15	0	21.57	21.57	21.35				
3	16QAM	1	0	21.47	21.57	21.37				
3	16QAM	1	8	21.30	21.41	21.33	23	0		
3	16QAM	8	0	21.36	21.42	21.36				
3	16QAM	8	0	21.26	21.40	21.41				
3	16QAM	8	4	21.21	21.38	21.30	22.5	0.5		
3	16QAM	8	7	21.06	21.32	21.27				
3	16QAM	15	0	21.22	21.47	21.38				
3	8QAM	1	0	21.20	21.40	21.29				
3	8QAM	1	8	21.12	21.28	21.13	22.5	0.5		
3	8QAM	1	14	21.12	21.23	21.18				
3	8QAM	8	0	20.37	20.43	20.39				
3	8QAM	8	4	20.23	20.26	20.25	21.5	1.5		
3	8QAM	8	7	20.16	20.19	20.27				
3	8QAM	15	0	20.19	20.25	20.22				
3	256QAM	1	0	18.30	18.47	18.38				
3	256QAM	1	8	18.27	18.49	18.43	19.5	3.5		
3	256QAM	1	14	18.28	18.33	18.28				
3	256QAM	8	0	18.28	18.40	18.31				
3	256QAM	8	4	18.18	18.28	18.30	19.5	3.5		
3	256QAM	8	7	18.20	18.19	18.29				
3	256QAM	15	0	18.23	18.30	18.17				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	21.46	21.56	21.55				
1.4	QPSK	1	3	21.35	21.50	21.40	23	0		
1.4	QPSK	1	5	21.40	21.44	21.45				
1.4	QPSK	3	0	21.57	21.57	21.40				
1.4	QPSK	3	1	21.48	21.59	21.39				
1.4	QPSK	3	3	21.35	21.33	21.35	23	0		
1.4	16QAM	1	0	21.36	21.50	21.35				
1.4	16QAM	1	0	21.50	21.56	21.39				
1.4	16QAM	1	3	21.34	21.40	21.33	23	0		
1.4	16QAM	1	5	21.26	21.42	21.40				
1.4	16QAM	3	0	21.28	21.46	21.39				
1.4	16QAM	3	1	21.26	21.44	21.28				
1.4	16QAM	3	3	21.23	21.37	21.35				
1.4	16QAM	6	0	21.21	21.48	21.34	22.5	0.5		
1.4	8QAM	1	0	21.28	21.41	21.27				
1.4	8QAM	1	3	21.13	21.21	21.19				
1.4	8QAM	1	5	21.19	21.28	21.18	22.5	0.5		
1.4	8QAM	3	0	21.23	21.36	21.32				
1.4	8QAM	3	1	21.23	21.23	21.20				
1.4	8QAM	3	3	21.10	21.22	21.17				
1.4	8QAM	6	0	20.30	20.41	20.29	21.5	1.5		
1.4	256QAM	1	0	18.37	18.49	18.44				
1.4	256QAM	1	3	18.33	18.55	18.44	19.5	3.5		
1.4	256QAM	1	5	18.29	18.28	18.24				
1.4	256QAM	3	0	18.27	18.30	18.30				
1.4	256QAM	3	1	18.14	18.30	18.24				
1.4	256QAM	6	0	18.27	18.30	18.19	19.5	3.5		

Band 13 Default Ant1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Tune-up Int. (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.47						
10	QPSK	1	25	21.43			23	0		
10	QPSK	1	49	21.50						
10	QPSK	25	0	21.63						
10	QPSK	25	12	21.50			23	0		
10	QPSK	25	25	21.39						
10	QPSK	50	0	21.56						
10	16QAM	1	0	21.51						
10	16QAM	1	25	21.45						
10	16QAM	1	49	21.45						
10	16QAM	25	0	21.47			22.5	0.5		
10	16QAM	25	12	21.42						
10	16QAM	25	25	21.40						
10	16QAM	50	0	21.35						
10	8QAM	1	0	21.19					22.5	0.5
10	8QAM	1	25	21.04						
10	8QAM	1	49	21.02						
10	8QAM	25	0	20.21						
10	8QAM	25	12	20.12			21.5	1.5		
10	8QAM	25	25	19.82						
10	8QAM	50	0	19.82						



Band 25 Default Ant1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.00	21.11	21.06				
20	QPSK	1	48	20.83	20.94	20.89			22	0
20	QPSK	1	96	20.67	20.78	20.83				
20	QPSK	50	0	20.92	21.00	20.96				
20	QPSK	50	24	20.84	20.95	20.89				
20	QPSK	50	50	20.76	20.87	20.80			22	0
20	QPSK	100	0	20.89	21.02	20.94				
20	16QAM	50	0	20.87	21.06	20.93				
20	16QAM	1	48	20.83	20.93	20.89			22	0
20	16QAM	1	96	20.76	20.86	20.80				
20	16QAM	50	0	20.84	21.00	20.94				
20	16QAM	50	24	20.77	20.90	20.81			22	0
20	16QAM	50	50	20.74	20.79	20.75				
20	16QAM	100	0	20.82	20.98	20.78				
20	64QAM	1	0	20.88	21.09	20.97				
20	64QAM	1	48	20.82	20.97	20.89			22	0
20	64QAM	1	96	20.89	21.01	20.89				
20	64QAM	50	0	20.81	20.99	20.84				
20	64QAM	50	24	20.81	20.89	20.84				
20	64QAM	50	50	20.76	20.78	20.74			22	0
20	256QAM	1	48	17.82	17.87	17.85			19	3
20	256QAM	1	96	17.77	17.84	17.77				
20	256QAM	50	24	17.80	17.85	17.84			19	3
20	256QAM	50	50	17.71	17.82	17.78				
20	256QAM	100	0	17.82	17.82	17.82				
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.89	21.07	20.98				
15	QPSK	1	32	20.76	20.91	20.83			22	0
15	QPSK	1	74	20.75	20.84	20.78				
15	QPSK	36	0	20.83	20.94	20.91				
15	QPSK	36	20	20.80	20.77	20.77				
15	QPSK	36	39	20.82	20.79	20.74			22	0
15	QPSK	75	0	20.82	20.98	20.88				
15	16QAM	1	0	20.80	20.98	20.88				
15	16QAM	1	32	20.77	20.83	20.79			22	0
15	16QAM	1	74	20.86	20.97	20.91				
15	16QAM	36	0	20.71	20.86	20.74			22	0
15	16QAM	36	20	20.87	20.88	20.87				
15	16QAM	36	39	20.82	20.85	20.81				
15	16QAM	75	0	20.78	20.81	20.81				
15	64QAM	1	0	20.83	21.06	20.88				
15	64QAM	1	32	20.88	20.98	20.97			22	0
15	64QAM	1	74	20.74	20.85	20.75				
15	64QAM	36	0	20.76	20.86	20.75				
15	64QAM	36	20	20.76	20.86	20.75				
15	64QAM	36	39	20.82	20.83	20.80			22	0
15	64QAM	75	0	20.77	20.81	20.88				
15	256QAM	1	48	17.86	17.92	17.88			19	3
15	256QAM	1	96	17.83	17.71	17.73				
15	256QAM	50	24	17.85	17.85	17.85				
15	256QAM	50	50	17.69	17.78	17.77			19	3
15	256QAM	36	39	17.86	17.78	17.87				
15	256QAM	75	0	17.82	17.82	17.82			19	3
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.88	21.00	20.94				
10	QPSK	1	25	20.78	20.93	20.89			22	0
10	QPSK	1	49	20.78	20.80	20.73				
10	QPSK	12	0	20.86	20.97	20.91				
10	QPSK	25	12	20.77	20.77	20.76				
10	QPSK	25	25	20.63	20.78	20.73			22	0
10	16QAM	50	0	20.79	20.88	20.80				
10	16QAM	1	0	20.80	20.97	20.82				
10	16QAM	1	24	20.74	20.78	20.79			22	0
10	16QAM	1	49	20.76	20.87	20.78				
10	16QAM	25	0	20.77	20.91	20.75				
10	16QAM	25	12	20.68	20.85	20.74			22	0
10	16QAM	25	25	20.67	20.84	20.82				
10	16QAM	50	0	20.76	20.81	20.85				
10	64QAM	1	0	20.89	21.00	20.93				
10	64QAM	1	24	20.77	20.85	20.77			22	0
10	64QAM	1	49	20.84	20.80	20.85				
10	64QAM	25	0	20.79	20.88	20.74				
10	64QAM	25	12	20.68	20.87	20.77				
10	64QAM	25	25	20.65	20.86	20.82			22	0
10	64QAM	50	0	20.71	20.91	20.81				
10	256QAM	1	24	17.82	17.97	17.87			19	3
10	256QAM	1	49	17.71	17.75	17.82				
10	256QAM	25	0	17.80	17.85	17.85				
10	256QAM	25	12	17.74	17.71	17.77			19	3
10	256QAM	25	25	17.64	17.74	17.74				
10	256QAM	50	0	17.82	17.86	17.79				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.88	21.00	20.94				
5	QPSK	1	12	20.80	20.84	20.89			22	0
5	QPSK	1	24	20.69	20.81	20.89				
5	QPSK	12	0	20.78	20.82	20.82				
5	QPSK	12	7	20.73	20.83	20.74			22	0
5	QPSK	12	13	20.64	20.80	20.74				
5	16QAM	25	0	20.79	20.88	20.80				
5	16QAM	1	0	20.73	20.92	20.82				
5	16QAM	1	12	20.73	20.81	20.75			22	0
5	16QAM	1	24	20.68	20.74	20.78				
5	16QAM	12	0	20.77	20.90	20.86				
5	16QAM	12	7	20.62	20.78	20.72			22	0
5	16QAM	12	13	20.64	20.74	20.87				
5	16QAM	25	0	20.69	20.84	20.83				
5	64QAM	1	0	20.85	21.04	20.91				
5	64QAM	1	12	20.85	20.88	20.81			22	0
5	64QAM	1	24	20.77	20.79	20.89				
5	64QAM	12	0	20.75	20.92	20.84				
5	64QAM	12	7	20.77	20.74	20.79				
5	64QAM	12	13	20.59	20.68	20.83			22	0
5	64QAM	25	0	20.74	20.84	20.86				
5	256QAM	1	0	17.77	18.09	17.77				
5	256QAM	1	12	17.81	18.02	17.74			19	3
5	256QAM	1	24	17.73	17.79	17.89				
5	256QAM	12	0	17.76	17.81	17.75				
5	256QAM	12	7	17.70	17.71	17.74			19	3
5	256QAM	12	13	17.62	17.70	17.74				
5	256QAM	25	0	17.83	18.04	17.83				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.89	20.99	20.93				
3	QPSK	1	8	20.75	20.83	20.87			22	0
3	QPSK	1	14	20.71	20.87	20.79				
3	QPSK	8	0	20.81	21.02	20.91				
3	QPSK	8	4	20.73	20.83	20.76			22	0
3	QPSK	8	7	20.69	20.79	20.71				
3	QPSK	15	0	20.81	20.84	20.83				
3	16QAM	1	0	20.81	20.99	20.86				
3	16QAM	1	8	20.78	20.84	20.85			22	0
3	16QAM	1	14	20.65	20.79	20.72				
3	16QAM	8	0	20.76	20.86	20.79				
3	16QAM	8	4	20.67	20.84	20.72			22	0
3	16QAM	8	7	20.60	20.66	20.81				
3	16QAM	15	0	20.74	20.88	20.83				
3	64QAM	1	0	20.84	21.00	20.87				
3	64QAM	1	8	20.86	20.93	20.78			22	0
3	64QAM	1	14	20.81	20.79	20.69				
3	64QAM	8	0	20.75	20.84	20.79				
3	64QAM	8	4	20.67	20.84	20.72				
3	64QAM	8	7	20.60	20.66	20.81			22	0
3	64QAM	15	0							



Band 66 Default Ant1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Turn-up (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.03	21.12	20.97				
20	QPSK	1	49	20.91	21.00	20.85	22	0		
20	QPSK	1	99	20.86	20.90	20.79				
20	QPSK	50	0	20.87	21.07	20.96				
20	QPSK	50	24	20.83	20.99	20.84				
20	QPSK	50	50	20.80	20.87	20.88	22	0		
20	QPSK	100	0	20.84	20.95	20.82				
20	16QAM	1	0	20.90	20.92	20.87				
20	16QAM	1	49	20.74	20.80	20.80	22	0		
20	16QAM	1	99	20.78	20.82	20.73				
20	16QAM	50	0	20.71	20.97	20.79				
20	16QAM	50	24	20.84	20.80	20.85	22	0		
20	16QAM	50	50	20.83	20.80	20.80				
20	16QAM	100	0	20.83	20.80	20.80				
20	64QAM	1	0	20.81	20.92	20.74				
20	64QAM	1	49	20.75	20.86	20.77	22	0		
20	64QAM	1	99	20.85	20.80	20.80				
20	64QAM	50	0	20.81	20.79	20.69				
20	64QAM	50	24	20.59	20.70	20.56	22	0		
20	64QAM	50	50	20.82	20.80	20.80				
20	64QAM	100	0	20.74	20.83	20.82				
20	256QAM	1	0	17.67	17.69	17.61				
20	256QAM	1	49	17.93	17.90	17.95	19	3		
20	256QAM	1	99	17.79	17.80	17.85				
20	256QAM	50	0	17.85	17.75	17.80				
20	256QAM	50	24	17.60	17.58	17.52	19	3		
20	256QAM	50	50	17.47	17.58	17.47				
20	256QAM	100	0	17.73	17.50	17.60				
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.92	21.07	20.92				
15	QPSK	1	39	20.78	20.90	20.79	22	0		
15	QPSK	1	74	20.77	20.70	20.71				
15	QPSK	36	0	20.78	21.01	20.83				
15	QPSK	36	20	20.75	20.70	20.70	22	0		
15	QPSK	36	39	20.87	20.83	20.79				
15	QPSK	75	0	20.74	20.82	20.74				
15	16QAM	1	0	20.81	20.80	20.75				
15	16QAM	1	39	20.73	20.83	20.77	22	0		
15	16QAM	1	74	20.89	20.80	20.80				
15	16QAM	36	0	20.99	20.74	20.84				
15	16QAM	36	20	20.54	20.54	20.51	22	0		
15	16QAM	36	39	20.59	20.60	20.60				
15	16QAM	75	0	20.75	20.80	20.70				
15	64QAM	1	0	20.71	20.80	20.69				
15	64QAM	1	39	20.81	20.80	20.80	22	0		
15	64QAM	1	74	20.54	20.55	20.55				
15	64QAM	36	0	20.86	20.70	20.82				
15	64QAM	36	20	20.53	20.60	20.60	22	0		
15	64QAM	36	39	20.48	20.52	20.38				
15	64QAM	75	0	20.87	20.80	20.88				
15	256QAM	1	0	17.76	17.80	17.81				
15	256QAM	1	39	17.78	17.80	17.83	19	3		
15	256QAM	1	74	17.85	17.85	17.81				
15	256QAM	36	0	17.46	17.70	17.60				
15	256QAM	36	20	17.47	17.50	17.41	19	3		
15	256QAM	36	39	17.37	17.50	17.33				
15	256QAM	75	0	17.44	17.81	17.74				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.92	21.07	20.92				
10	QPSK	1	25	20.83	20.80	20.71	22	0		
10	QPSK	1	49	20.82	20.78	20.72				
10	QPSK	25	0	20.78	20.90	20.80				
10	QPSK	25	12	20.68	20.78	20.79	22	0		
10	QPSK	25	25	20.78	20.81	20.74				
10	16QAM	1	0	20.81	20.83	20.74				
10	16QAM	1	25	20.66	20.75	20.74	22	0		
10	16QAM	1	49	20.73	20.80	20.84				
10	16QAM	25	0	20.58	20.81	20.65				
10	16QAM	25	12	20.54	20.58	20.60	22	0		
10	16QAM	25	25	20.66	20.60	20.48				
10	64QAM	1	0	20.80	20.82	20.68				
10	64QAM	1	25	20.81	20.74	20.64	22	0		
10	64QAM	1	49	20.51	20.55	20.58				
10	64QAM	25	0	20.47	20.71	20.57				
10	64QAM	25	12	20.48	20.48	20.43	22	0		
10	64QAM	25	25	20.47	20.46	20.45				
10	64QAM	50	0	20.87	20.79	20.75				
10	256QAM	1	0	17.86	17.82	17.82				
10	256QAM	1	25	17.88	17.86	17.87	19	3		
10	256QAM	1	49	17.85	17.78	17.79				
10	256QAM	25	0	17.53	17.43	17.50				
10	256QAM	25	12	17.57	17.50	17.45	19	3		
10	256QAM	25	25	17.36	17.45	17.43				
10	256QAM	50	0	17.62	17.82	17.78				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.91	20.90	20.85				
5	QPSK	1	12	20.85	20.92	20.79	22	0		
5	QPSK	1	24	20.80	20.82	20.68				
5	QPSK	12	0	20.75	20.80	20.80				
5	QPSK	12	7	20.78	20.70	20.71	22	0		
5	QPSK	12	13	20.87	20.80	20.79				
5	QPSK	25	0	20.73	20.80	20.87				
5	16QAM	1	0	20.81	20.80	20.76				
5	16QAM	1	12	20.84	20.73	20.75	22	0		
5	16QAM	1	24	20.75	20.72	20.60				
5	16QAM	12	0	20.87	20.72	20.84				
5	16QAM	12	7	20.58	20.57	20.60	22	0		
5	16QAM	12	13	20.92	20.82	20.84				
5	16QAM	25	0	20.78	20.88	20.89				
5	64QAM	1	0	20.70	20.83	20.66				
5	64QAM	1	12	20.65	20.77	20.64	22	0		
5	64QAM	1	24	20.82	20.54	20.81				
5	64QAM	12	0	20.53	20.87	20.80				
5	64QAM	12	7	20.48	20.50	20.49	22	0		
5	64QAM	12	13	20.50	20.53	20.39				
5	64QAM	25	0	20.70	20.77	20.70				
5	256QAM	1	0	17.82	18.00	17.89				
5	256QAM	1	12	17.80	17.98	17.82	19	3		
5	256QAM	1	24	17.70	17.76	17.71				
5	256QAM	12	0	17.85	17.82	17.80				
5	256QAM	12	7	17.54	17.50	17.47	19	3		
5	256QAM	12	13	17.39	17.50	17.44				
5	256QAM	25	0	17.44	17.78	17.75				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.91	21.00	20.92				
3	QPSK	1	8	20.85	20.86	20.74	22	0		
3	QPSK	1	14	20.75	20.85	20.66				
3	QPSK	8	0	20.73	20.80	20.86				
3	QPSK	8	4	20.74	20.80	20.80	22	0		
3	QPSK	8	7	20.89	20.82	20.85				
3	QPSK	15	0	20.74	20.84	20.78				
3	16QAM	1	0	20.87	20.82	20.80				
3	16QAM	1	8	20.83	20.77	20.73	22	0		
3	16QAM	1	14	20.70	20.80	20.67				
3	16QAM	8	0	20.80	20.83	20.74				
3	16QAM	8	4	20.55	20.53	20.58	22	0		
3	16QAM	8	7	20.85	20.81	20.80				
3	64QAM	1	0	20.89	20.82	20.84				
3	64QAM	1	8	20.84	20.72	20.84	22	0		
3	64QAM	1	14	20.51	20.57	20.59				
3	64QAM	8	0	20.49	20.80	20.69				
3	64QAM	8	4	20.4						



Band 38 Default Ant1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MFR (dB)		
Channel										
				37850	38000	38150				
Frequency (MHz)										
20	QPSK	1	0	22.41	22.53	22.65	23	0		
20	QPSK	1	49	22.32	22.35	22.39				
20	QPSK	1	99	22.26	22.29	22.30				
20	QPSK	50	0	22.29	22.45	22.50				
20	QPSK	50	24	22.24	22.36	22.52	23	0		
20	QPSK	50	49	22.24	22.38	22.52				
20	QPSK	100	0	22.28	22.45	22.53				
20	HQAM	1	0	22.35	22.51	22.59	23	0		
20	HQAM	1	49	22.31	22.31	22.31				
20	HQAM	1	99	22.27	22.30	22.24				
20	HQAM	50	0	21.97	22.14	21.95				
20	HQAM	50	24	21.91	21.95	21.95	23	0		
20	HQAM	50	49	21.88	21.92	21.80				
20	HQAM	100	0	21.95	22.09	21.99				
20	HQAM	100	0	22.29	22.47	22.35				
20	HQAM	1	49	22.28	22.36	22.28	23	0		
20	HQAM	1	99	22.16	22.24	22.22				
20	HQAM	50	0	21.89	22.03	21.90	22.5	0.5		
20	HQAM	50	50	21.80	21.84	21.85				
20	HQAM	100	0	21.91	22.05	21.96				
20	HQAM	100	0	21.81	22.05	21.96				
20	25GQAM	1	0	18.83	19.00	18.85	20.5	2.5		
20	25GQAM	1	49	18.79	18.90	18.75				
20	25GQAM	1	99	18.76	18.77	18.79				
20	25GQAM	50	0	18.82	18.98	18.87				
20	25GQAM	50	24	18.97	19.06	18.95	20.5	2.5		
20	25GQAM	50	50	18.89	18.95	18.84				
20	25GQAM	100	0	18.90	18.95	18.85				
Channel										
				37850	38000	38175				
Frequency (MHz)										
15	QPSK	1	0	21.73	22.05	22.41	23	0		
15	QPSK	1	37	22.19	22.23	22.30				
15	QPSK	1	74	22.12	22.20	22.21				
15	QPSK	36	0	22.23	22.33	22.34	23	0		
15	QPSK	36	20	22.14	22.22	22.19				
15	QPSK	75	0	22.18	22.28	22.28	23	0		
15	QPSK	75	0	22.18	22.29	22.23				
15	HQAM	1	0	22.26	22.39	22.27	23	0		
15	HQAM	1	37	22.21	22.24	22.24				
15	HQAM	1	74	22.15	22.25	22.15				
15	HQAM	36	0	21.94	22.08	21.82	23	0		
15	HQAM	36	20	21.83	21.84	21.85				
15	HQAM	36	39	21.78	21.84	21.88				
15	HQAM	75	0	21.81	22.06	21.94				
15	HQAM	75	0	22.15	22.27	22.26				
15	HQAM	1	37	22.17	22.28	22.23	23	0		
15	HQAM	1	74	22.08	22.11	22.15				
15	HQAM	36	0	21.85	21.96	21.85	22.5	0.5		
15	HQAM	36	20	21.83	21.92	21.79				
15	HQAM	36	39	21.85	21.91	21.86				
15	HQAM	75	0	21.82	21.91	21.85				
15	25GQAM	1	0	18.77	18.90	18.81	20.5	2.5		
15	25GQAM	1	37	18.70	18.81	18.75				
15	25GQAM	1	74	18.67	18.74	18.74				
15	25GQAM	36	0	18.86	19.11	18.92	20.5	2.5		
15	25GQAM	36	20	18.93	19.04	18.93				
15	25GQAM	36	39	18.85	18.88	18.84				
15	25GQAM	75	0	18.89	19.00	18.95				
Channel										
				37875	38000	38175				
Frequency (MHz)										
10	QPSK	1	0	21.75	22.05	22.15	23	0		
10	QPSK	1	25	22.23	22.30	22.27				
10	QPSK	1	49	22.19	22.21	22.25				
10	QPSK	12	0	22.31	22.36	22.36	23	0		
10	QPSK	25	12	22.21	22.29	22.32				
10	QPSK	25	25	22.14	22.20	22.22				
10	QPSK	50	0	22.14	22.27	22.26	23	0		
10	HQAM	1	0	22.25	22.38	22.31				
10	HQAM	1	25	22.27	22.33	22.18				
10	HQAM	1	49	22.15	22.16	22.12				
10	HQAM	25	0	21.85	22.03	21.80	23	0		
10	HQAM	25	12	21.87	21.91	21.86				
10	HQAM	25	25	21.78	21.85	21.77				
10	HQAM	50	0	21.87	22.00	21.80				
10	HQAM	50	0	22.16	22.33	22.27				
10	HQAM	1	25	22.21	22.31	22.23	23	0		
10	HQAM	1	49	22.03	22.10	22.12				
10	HQAM	25	0	21.78	22.07	21.87	22.5	0.5		
10	HQAM	25	12	21.78	21.97	21.78				
10	HQAM	25	25	21.77	21.87	21.71				
10	HQAM	50	0	21.77	21.95	21.81				
10	25GQAM	1	0	18.76	18.92	18.70	20.5	2.5		
10	25GQAM	1	25	18.64	18.91	18.72				
10	25GQAM	1	49	18.62	18.73	18.68				
10	25GQAM	25	0	18.83	19.11	18.89	20.5	2.5		
10	25GQAM	25	12	18.90	19.03	18.90				
10	25GQAM	25	25	18.77	18.84	18.87				
10	25GQAM	50	0	18.91	19.04	18.85				
Channel										
				2572.5	2585	2617.5				
Frequency (MHz)										
5	QPSK	1	0	22.26	22.40	22.42	23	0		
5	QPSK	1	12	22.27	22.21	22.24				
5	QPSK	1	24	22.17	22.17	22.21				
5	QPSK	12	0	22.16	22.26	22.26	23	0		
5	QPSK	12	7	22.12	22.26	22.20				
5	QPSK	12	13	22.21	22.21	22.17				
5	QPSK	25	0	22.21	22.31	22.20	23	0		
5	HQAM	1	0	22.31	22.41	22.34				
5	HQAM	1	12	22.21	22.24	22.13				
5	HQAM	1	24	22.15	22.17	22.18				
5	HQAM	12	0	21.89	22.08	21.90	23	0		
5	HQAM	12	7	21.81	21.89	21.88				
5	HQAM	12	13	21.80	21.88	21.85				
5	HQAM	25	0	21.85	22.04	21.95				
5	HQAM	25	0	22.20	22.35	22.24				
5	HQAM	25	12	22.14	22.25	22.20				
5	HQAM	25	24	22.04	22.14	22.09				
5	HQAM	12	0	21.86	22.08	21.86	22.5	0.5		
5	HQAM	12	7	21.78	21.88	21.85				
5	HQAM	12	13	21.76	21.79	21.73				
5	HQAM	25	0	21.76	21.98	21.87				
5	25GQAM	1	0	18.73	18.89	18.71	20.5	2.5		
5	25GQAM	1	12	18.72	18.87	18.66				
5	25GQAM	1	24	18.64	18.73	18.70				
5	25GQAM	12	0	18.82	19.01	18.84	20.5	2.5		
5	25GQAM	12	13	18.85	18.88	18.90				
5	25GQAM	25	0	18.95	19.08	18.91				

Band 41 FCC&IC Ant1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MFR (dB)		
Channel										
				39750	40185	40620				
Frequency (MHz)										
20	QPSK	1	0	23.07	23.13	23.13	24	0		
20	QPSK	1	49	23.05	23.02	23.05				
20	QPSK	1	99	23.08	23.06	23.06				
20	QPSK	50	0	22.95	22.96	22.72				
20	QPSK	50	24	22.90	22.91	22.94	23	1		
20	QPSK	50	49	22.95	22.92	22.92				
20	QPSK	100	0	22.80	22.98	22.80				
20	HQAM	1	0	22.85	22.87	22.88	23	1		
20	HQAM	1	49	22.82	22.82	22.79				
20	HQAM	1	99	22.67	22.58	22.72				
20	HQAM	50	0	21.87	21.89	21.88	22	2		
20	HQAM									



Band 41 PC2 FCC&IC Ant1											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int (dBm)	MPR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	25.50	25.47	25.44	25.41	25.38	25.35	27	0
20	QPSK	1	49	25.33	25.40	25.48	25.56	25.65	25.73		
20	QPSK	1	99	25.20	25.33	25.51	25.71	25.91	26.11		
20	QPSK	50	0	25.33	25.30	25.45	25.20	25.37			
20	QPSK	50	24	25.27	25.29	25.48	25.27	25.33			
20	QPSK	50	49	25.15	25.15	25.25	25.15	25.17			
20	QPSK	100	0	25.19	25.19	25.38	25.22	25.28			
20	HQAM	1	0	25.18	25.28	25.42	25.23	25.34			
20	HQAM	1	49	25.20	25.14	25.30	25.16	25.28			
20	HQAM	1	99	25.16	25.13	25.30	25.12	25.27			
20	HQAM	50	0	24.29	24.40	24.36	24.34	24.44			
20	HQAM	50	24	24.32	24.28	24.50	24.27	24.42			
20	HQAM	50	49	24.21	24.24	24.40	24.22	24.39			
20	HQAM	100	0	24.25	24.23	24.40	24.19	24.36			
20	HQAM	100	1	24.57	24.55	24.55	24.57	24.75			
20	HQAM	1	49	24.55	24.53	24.74	24.54	24.66			
20	HQAM	1	99	24.52	24.55	24.70	24.50	24.55			
20	HQAM	50	0	23.37	23.35	23.55	23.30	23.46			
20	HQAM	50	24	23.33	23.33	23.53	23.31	23.45			
20	HQAM	50	49	23.35	23.25	23.49	23.33	23.44			
20	HQAM	100	0	23.23	23.29	23.44	23.31	23.33			
20	SSBQAM	1	0	21.51	21.49	21.65	21.44	21.58			
20	SSBQAM	1	49	21.43	21.41	21.65	21.42	21.52			
20	SSBQAM	1	99	21.30	21.36	21.56	21.41	21.51			
20	SSBQAM	50	0	21.37	21.34	21.56	21.34	21.45			
20	SSBQAM	50	24	21.27	21.23	21.48	21.24	21.39			
20	SSBQAM	50	49	21.23	21.26	21.41	21.20	21.35			
20	SSBQAM	100	0	21.10	21.10	21.15	21.10	21.14			
Channel											
Frequency (MHz)											
15	QPSK	1	0	25.47	25.39	25.31	25.30	25.50			
15	QPSK	1	37	25.29	25.33	25.48	25.29	25.46			
15	QPSK	1	74	25.16	25.26	25.36	25.24	25.30			
15	QPSK	38	0	25.25	25.24	25.46	25.24	25.42			
15	QPSK	38	20	25.13	25.15	25.43	25.21	25.21			
15	QPSK	75	0	25.04	25.06	25.28	25.17	25.24			
15	HQAM	1	0	25.05	25.14	25.30	25.18	25.28			
15	HQAM	1	37	25.06	25.11	25.29	25.15	25.26			
15	HQAM	1	74	25.10	25.00	25.38	25.07	25.21			
15	HQAM	38	0	24.17	24.33	24.29	24.24	24.35			
15	HQAM	38	20	24.25	24.18	24.45	24.15	24.31			
15	HQAM	38	39	24.11	24.09	24.37	24.10	24.28			
15	HQAM	75	0	24.20	24.08	24.35	24.05	24.17			
15	HQAM	75	0	24.44	24.57	24.72	24.47	24.70			
15	HQAM	1	37	24.49	24.48	24.63	24.46	24.55			
15	HQAM	1	74	24.42	24.42	24.62	24.38	24.51			
15	HQAM	38	0	23.26	23.22	23.45	23.28	23.33			
15	HQAM	38	20	23.23	23.28	23.49	23.19	23.34			
15	HQAM	38	39	23.22	23.21	23.34	23.15	23.24			
15	HQAM	75	0	23.19	23.25	23.32	23.15	23.23			
15	SSBQAM	1	0	21.44	21.44	21.54	21.33	21.45			
15	SSBQAM	1	37	21.39	21.39	21.50	21.29	21.40			
15	SSBQAM	1	74	21.25	21.29	21.52	21.31	21.41			
15	SSBQAM	38	0	21.28	21.27	21.39	21.26	21.30			
15	SSBQAM	38	20	21.12	21.14	21.35	21.18	21.27			
15	SSBQAM	38	39	21.14	21.22	21.37	21.12	21.30			
15	SSBQAM	75	0	21.08	21.10	21.21	21.00	21.10			
Channel											
Frequency (MHz)											
10	QPSK	1	0	25.43	25.43	25.43	25.43	25.43			
10	QPSK	1	25	25.25	25.31	25.48	25.25	25.42			
10	QPSK	1	49	25.21	25.18	25.38	25.17	25.37			
10	QPSK	1	74	25.32	25.38	25.46	25.22	25.30			
10	QPSK	25	12	25.17	25.21	25.43	25.22	25.28			
10	QPSK	25	25	25.04	25.13	25.35	25.10	25.14			
10	QPSK	50	0	25.15	25.16	25.31	25.14	25.14			
10	HQAM	1	0	25.06	25.09	25.30	25.17	25.24			
10	HQAM	1	25	25.08	25.05	25.33	25.12	25.20			
10	HQAM	1	49	25.09	25.07	25.30	25.17	25.24			
10	HQAM	25	0	24.21	24.28	24.44	24.25	24.39			
10	HQAM	25	12	24.23	24.19	24.46	24.19	24.29			
10	HQAM	25	25	24.13	24.11	24.43	24.12	24.26			
10	HQAM	50	0	24.17	24.12	24.31	24.16	24.22			
10	HQAM	50	1	24.44	24.08	24.70	24.06	24.60			
10	HQAM	1	25	24.43	24.45	24.80	24.49	24.61			
10	HQAM	1	49	24.38	24.51	24.69	24.41	24.56			
10	HQAM	25	0	23.23	23.28	23.51	23.31	23.36			
10	HQAM	25	12	23.29	23.27	23.41	23.17	23.32			
10	HQAM	25	25	23.25	23.12	23.45	23.19	23.38			
10	HQAM	50	0	23.14	23.16	23.35	23.25	23.25			
10	SSBQAM	1	0	21.45	21.46	21.56	21.35	21.48			
10	SSBQAM	1	25	21.29	21.34	21.51	21.37	21.46			
10	SSBQAM	1	49	21.28	21.25	21.45	21.33	21.42			
10	SSBQAM	25	0	21.33	21.29	21.44	21.25	21.41			
10	SSBQAM	25	12	21.21	21.11	21.30	21.16	21.30			
10	SSBQAM	25	25	21.11	21.14	21.27	21.11	21.29			
10	SSBQAM	50	0	21.04	21.04	21.14	21.09	21.18			
Channel											
Frequency (MHz)											
5	QPSK	1	0	25.37	25.39	25.54	25.38	25.47			
5	QPSK	1	12	25.22	25.27	25.41	25.20	25.43			
5	QPSK	1	24	25.15	25.21	25.39	25.19	25.29			
5	QPSK	12	0	25.20	25.27	25.38	25.21	25.32			
5	QPSK	12	7	25.17	25.25	25.35	25.23	25.22			
5	QPSK	12	13	25.09	25.17	25.28	25.07	25.23			
5	QPSK	25	0	25.10	25.04	25.25	25.12	25.17			
5	HQAM	1	0	25.09	25.19	25.32	25.18	25.23			
5	HQAM	1	12	25.15	25.06	25.27	25.05	25.22			
5	HQAM	1	24	25.07	25.00	25.20	25.04	25.16			
5	HQAM	12	0	24.22	24.35	24.43	24.28	24.41			
5	HQAM	12	7	24.24	24.18	24.44	24.12	24.36			
5	HQAM	12	13	24.11	24.13	24.32	24.16	24.35			
5	HQAM	25	0	24.18	24.16	24.30	24.05	24.18			
5	HQAM	1	0	24.50	24.63	24.72	24.40	24.72			
5	HQAM	1	12	24.46	24.63	24.86	24.36	24.60			
5	HQAM	1	24	24.45	24.41	24.56	24.42	24.53			
5	HQAM	12	0	23.24	23.21	23.46	23.21	23.31			
5	HQAM	12	7	23.20	23.25	23.45	23.24	23.42			
5	HQAM	12	13	23.31	23.11	23.45	23.25	23.37			
5	HQAM	25	0	23.11	23.21	23.33	23.19	23.30			
5	SSBQAM	1	0	21.38	21.34	21.57	21.30	21.48			
5	SSBQAM	1	12	21.33	21.36	21.50	21.28	21.49			
5	SSBQAM	1	24	21.23	21.29	21.49	21.27	21.39			
5	SSBQAM	12	0	21.34	21.29	21.40	21.28	21.32			
5	SSBQAM	12	7	21.16	21.18	21.35	21.11	21.33			
5	SSBQAM	12	13	21.14	21.13	21.30	21.12	21.31			
5	SSBQ										



COM1900 Avc2									
Channel	Band Average Power (dBm)			Tune-up	Frame Average Power (dBm)			Tune-up	
Tx Channel	812	861	810	Limit	812	861	810	Limit	
Received (dBm)	180.2	180.3	180.8	(dBm)	180.2	180.0	180.8	(dBm)	
COM 1 Tx Wd	28.25	28.33	28.19	29.00	19.25	19.33	19.19	20.00	
OPNS 1 Tx Wd	28.23	28.20	28.13	29.00	19.23	19.20	19.13	20.00	
OPNS 2 Tx Wd	25.46	25.52	25.40	26.00	17.46	17.52	17.40	20.00	
OPNS 3 Tx Wd	23.98	24.13	24.00	25.00	15.72	15.87	15.74	20.74	
OPNS 4 Tx Wd	21.92	22.00	21.98	23.00	13.92	13.99	13.98	20.00	
EDGE 1 Tx Wd	23.59	23.64	23.61	24.50	14.59	14.64	14.61	15.50	
EDGE 2 Tx Wd	21.56	21.60	21.62	22.50	12.56	12.60	12.62	17.50	
EDGE 3 Tx Wd	20.78	20.85	20.70	21.50	11.62	11.69	11.44	17.34	
EDGE 4 Tx Wd	18.71	18.74	18.68	19.50	10.71	10.74	10.68	16.50	

WCCMA I Avc2									
Band	WCCMA II			Tune-up	WCCMA IV			Tune-up	
Tx Channel	9882	9900	9938	Limit	1512	1513	1513	Limit	
Received (dBm)	89.4	89.8	89.8	(dBm)	172.4	172.9	172.4	(dBm)	
SOPP Rel 50	21.50	21.55	21.46	22.50	21.42	21.44	21.37	23.00	
SOPP Rel 50	21.54	21.52	21.49	22.50	21.47	21.53	21.44	23.00	
SOPP Rate 1	20.93	20.74	20.49	21.50	20.97	20.68	20.52	22.00	
SOPP Rate 2	20.58	20.65	20.53	21.50	20.47	20.61	20.43	22.00	
SOPP Rate 3	20.11	20.27	20.14	21.40	19.91	20.24	19.89	21.00	
SOPP Rate 4	20.02	20.18	20.09	21.40	19.98	20.06	20.02	21.50	
SOPP Rate 5	20.55	20.73	20.51	21.50	20.40	20.50	20.39	22.00	
SOPP Rate 6	20.34	20.41	20.40	21.50	20.25	20.37	20.31	22.00	
SOPP Rate 7	19.88	19.98	19.84	21.40	19.80	19.87	19.83	21.50	
SOPP Rate 8	19.93	19.90	19.92	21.50	19.78	19.90	19.84	21.00	
SOPP Rate 9	20.59	20.72	20.71	21.50	20.49	20.65	20.60	22.00	
SOPP Rate 10	19.52	19.60	19.45	20.50	19.44	19.49	19.29	20.50	
SOPP Rate 11	19.58	19.62	19.60	20.50	19.49	19.51	19.48	21.00	
SOPP Rate 12	18.43	18.27	18.41	19.50	18.38	18.44	18.33	20.00	
SOPP Rate 13	20.92	20.92	20.92	21.50	20.49	20.53	20.49	22.00	



Band 2 Ant2										
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (min)	MPR (dB)		
Channel				Ch. 1 (Freq)	Ch. 2 (Freq)	Ch. 3 (Freq)				
20	QPSK	1	0	21.12	21.24	21.07				
20	QPSK	1	49	20.92	21.04	20.92				
20	QPSK	1	99	20.72	21.04	20.92				
20	QPSK	50	0	21.06	21.20	21.10				
20	QPSK	50	24	21.04	21.20	21.04				
20	QPSK	50	50	20.88	21.07	20.96				
20	QPSK	100	0	21.01	21.12	21.03				
20	QPSK	100	24	21.06	21.12	21.06				
20	QPSK	100	49	20.84	21.03	20.99				
20	QPSK	150	0	20.96	21.09	20.94				
20	QPSK	150	24	20.80	21.00	20.94				
20	QPSK	150	50	20.76	20.86	20.81				
20	QPSK	150	75	20.92	21.00	20.90				
20	QPSK	150	100	20.97	21.18	21.10				
20	QPSK	1	49	21.01	21.07	21.04				
20	QPSK	50	0	19.87	19.87	19.84				
20	QPSK	50	24	19.79	19.84	19.73				
20	QPSK	50	50	19.92	19.84	19.84				
20	QPSK	100	0	19.79	19.84	19.73				
20	QPSK	100	24	19.83	19.84	19.84				
20	QPSK	100	50	19.83	19.84	19.84				
20	QPSK	150	0	19.79	19.84	19.73				
20	QPSK	150	24	19.83	19.84	19.84				
20	QPSK	150	50	19.83	19.84	19.84				
20	QPSK	150	75	19.83	19.84	19.84				
20	QPSK	150	100	19.83	19.84	19.84				
20	QPSK	150	125	19.83	19.84	19.84				
20	QPSK	150	150	19.83	19.84	19.84				
20	QPSK	150	175	19.83	19.84	19.84				
20	QPSK	150	200	19.83	19.84	19.84				
20	QPSK	150	225	19.83	19.84	19.84				
20	QPSK	150	250	19.83	19.84	19.84				
20	QPSK	150	275	19.83	19.84	19.84				
20	QPSK	150	300	19.83	19.84	19.84				
20	QPSK	150	325	19.83	19.84	19.84				
20	QPSK	150	350	19.83	19.84	19.84				
20	QPSK	150	375	19.83	19.84	19.84				
20	QPSK	150	400	19.83	19.84	19.84				
20	QPSK	150	425	19.83	19.84	19.84				
20	QPSK	150	450	19.83	19.84	19.84				
20	QPSK	150	475	19.83	19.84	19.84				
20	QPSK	150	500	19.83	19.84	19.84				
20	QPSK	150	525	19.83	19.84	19.84				
20	QPSK	150	550	19.83	19.84	19.84				
20	QPSK	150	575	19.83	19.84	19.84				
20	QPSK	150	600	19.83	19.84	19.84				
20	QPSK	150	625	19.83	19.84	19.84				
20	QPSK	150	650	19.83	19.84	19.84				
20	QPSK	150	675	19.83	19.84	19.84				
20	QPSK	150	700	19.83	19.84	19.84				
20	QPSK	150	725	19.83	19.84	19.84				
20	QPSK	150	750	19.83	19.84	19.84				
20	QPSK	150	775	19.83	19.84	19.84				
20	QPSK	150	800	19.83	19.84	19.84				
20	QPSK	150	825	19.83	19.84	19.84				
20	QPSK	150	850	19.83	19.84	19.84				
20	QPSK	150	875	19.83	19.84	19.84				
20	QPSK	150	900	19.83	19.84	19.84				
20	QPSK	150	925	19.83	19.84	19.84				
20	QPSK	150	950	19.83	19.84	19.84				
20	QPSK	150	975	19.83	19.84	19.84				
20	QPSK	150	1000	19.83	19.84	19.84				
20	QPSK	150	1025	19.83	19.84	19.84				
20	QPSK	150	1050	19.83	19.84	19.84				
20	QPSK	150	1075	19.83	19.84	19.84				
20	QPSK	150	1100	19.83	19.84	19.84				
20	QPSK	150	1125	19.83	19.84	19.84				
20	QPSK	150	1150	19.83	19.84	19.84				
20	QPSK	150	1175	19.83	19.84	19.84				
20	QPSK	150	1200	19.83	19.84	19.84				
20	QPSK	150	1225	19.83	19.84	19.84				
20	QPSK	150	1250	19.83	19.84	19.84				
20	QPSK	150	1275	19.83	19.84	19.84				
20	QPSK	150	1300	19.83	19.84	19.84				
20	QPSK	150	1325	19.83	19.84	19.84				
20	QPSK	150	1350	19.83	19.84	19.84				
20	QPSK	150	1375	19.83	19.84	19.84				
20	QPSK	150	1400	19.83	19.84	19.84				
20	QPSK	150	1425	19.83	19.84	19.84				
20	QPSK	150	1450	19.83	19.84	19.84				
20	QPSK	150	1475	19.83	19.84	19.84				
20	QPSK	150	1500	19.83	19.84	19.84				
20	QPSK	150	1525	19.83	19.84	19.84				
20	QPSK	150	1550	19.83	19.84	19.84				
20	QPSK	150	1575	19.83	19.84	19.84				
20	QPSK	150	1600	19.83	19.84	19.84				
20	QPSK	150	1625	19.83	19.84	19.84				
20	QPSK	150	1650	19.83	19.84	19.84				
20	QPSK	150	1675	19.83	19.84	19.84				
20	QPSK	150	1700	19.83	19.84	19.84				
20	QPSK	150	1725	19.83	19.84	19.84				
20	QPSK	150	1750	19.83	19.84	19.84				
20	QPSK	150	1775	19.83	19.84	19.84				
20	QPSK	150	1800	19.83	19.84	19.84				
20	QPSK	150	1825	19.83	19.84	19.84				
20	QPSK	150	1850	19.83	19.84	19.84				
20	QPSK	150	1875	19.83	19.84	19.84				
20	QPSK	150	1900	19.83	19.84	19.84				
20	QPSK	150	1925	19.83	19.84	19.84				
20	QPSK	150	1950	19.83	19.84	19.84				
20	QPSK	150	1975	19.83	19.84	19.84				
20	QPSK	150	2000	19.83	19.84	19.84				
20	QPSK	150	2025	19.83	19.84	19.84				
20	QPSK	150	2050	19.83	19.84	19.84				
20	QPSK	150	2075	19.83	19.84	19.84				
20	QPSK	150	2100	19.83	19.84	19.84				
20	QPSK	150	2125	19.83	19.84	19.84				
20	QPSK	150	2150	19.83	19.84	19.84				
20	QPSK	150	2175	19.83	19.84	19.84				
20	QPSK	150	2200	19.83	19.84	19.84				
20	QPSK	150	2225	19.83	19.84	19.84				
20	QPSK	150	2250	19.83	19.84	19.84				
20	QPSK	150	2275	19.83	19.84	19.84				
20	QPSK	150	2300	19.83	19.84	19.84				
20	QPSK	150	2325	19.83	19.84	19.84				
20	QPSK	150	2350	19.83	19.84	19.84				
20	QPSK	150	2375	19.83	19.84	19.84				
20	QPSK	150	2400	19.83	19.84	19.84				
20	QPSK	150	2425	19.83	19.84	19.84				
20	QPSK	150	2450	19.83	19.84	19.84				
20	QPSK	150	2475	19.83	19.84	19.84				
20	QPSK	150	2500	19.83	19.84	19.84				
20	QPSK	150	2525	19.83	19.84	19.84				
20	QPSK	150	2550	19.83	19.84	19.84				
20	QPSK	150	2575	19.83	19.84	19.84				
20	QPSK	150	2600	19.83	19.84	19.84				
20	QPSK	150	2625	19.83	19.84	19.84				
20										



Band 12 Ant2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.51	22.62	22.50				
10	QPSK	1	25	22.40	22.42	22.48				
10	QPSK	1	49	22.26	22.48	22.18				
10	QPSK	25	0	22.40	22.62	22.40				
10	16QAM	25	0	22.30	22.62	22.30				
10	QPSK	25	25	22.29	22.32	22.24				
10	QPSK	50	0	22.34	22.41	22.37				
10	16QAM	50	0	22.41	22.51	22.33				
10	16QAM	1	25	22.39	22.52	22.38				
10	16QAM	1	49	22.18	22.40	22.39				
10	16QAM	25	0	22.51	22.52	22.54				
10	16QAM	25	12	22.29	22.41	22.35				
10	16QAM	25	25	22.27	22.36	22.36				
10	16QAM	50	0	22.40	22.51	22.38				
10	16QAM	1	0	22.40	22.44	22.34				
10	8QAM	1	25	22.39	22.41	22.52				
10	8QAM	1	49	22.14	22.41	22.29				
10	8QAM	25	0	21.24	21.36	21.17				
10	8QAM	25	12	21.13	21.24	21.08				
10	8QAM	25	25	21.03	21.36	21.04				
10	8QAM	50	0	21.25	21.30	21.19				
10	256QAM	1	25	19.32	19.36	19.46				
10	256QAM	1	49	19.32	19.36	19.46				
10	256QAM	25	12	19.34	19.28	19.32				
10	256QAM	25	25	19.12	19.28	19.19				
10	256QAM	50	0	19.26	19.27	19.20				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.43	22.48	22.39				
5	QPSK	1	24	22.30	22.43	22.29				
5	QPSK	1	24	22.14	22.40	22.04				
5	QPSK	12	0	22.29	22.50	22.37				
5	QPSK	12	7	22.15	22.39	22.15				
5	QPSK	12	13	22.24	22.28	22.17				
5	QPSK	25	0	22.22	22.47	22.12				
5	16QAM	1	0	22.35	22.48	22.38				
5	16QAM	1	12	22.25	22.45	22.27				
5	16QAM	1	24	22.09	22.39	22.10				
5	16QAM	12	0	22.47	22.43	22.51				
5	16QAM	12	7	22.18	22.28	22.25				
5	16QAM	12	13	22.15	22.29	22.14				
5	16QAM	25	0	22.37	22.43	22.23				
5	8QAM	1	0	22.25	22.39	22.28				
5	8QAM	1	12	22.10	22.39	22.18				
5	8QAM	1	24	22.02	22.39	22.09				
5	8QAM	12	0	22.35	22.32	22.21				
5	8QAM	12	0	21.17	21.31	21.05				
5	8QAM	12	7	21.02	21.36	21.07				
5	8QAM	12	13	21.02	20.92	20.89				
5	8QAM	25	0	21.13	21.16	21.16				
5	256QAM	1	12	19.20	19.43	19.48				
5	256QAM	1	24	19.25	19.28	19.33				
5	256QAM	12	0	19.20	19.15	19.26				
5	256QAM	12	13	19.02	19.20	19.12				
5	256QAM	25	0	19.20	19.22	19.10				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.41	22.54	22.18				
3	QPSK	1	14	22.11	22.43	22.08				
3	QPSK	1	14	22.30	22.48	22.04				
3	QPSK	8	7	22.19	22.34	22.21				
3	QPSK	8	7	22.21	22.18	22.11				
3	QPSK	12	0	22.30	22.37	22.27				
3	16QAM	1	0	22.26	22.39	22.48				
3	16QAM	1	8	22.31	22.38	22.32				
3	16QAM	8	7	22.13	22.39	22.18				
3	16QAM	8	0	22.37	22.41	22.40				
3	16QAM	8	4	22.18	22.35	22.29				
3	16QAM	15	0	22.36	22.39	22.25				
3	8QAM	1	0	22.27	22.31	22.21				
3	8QAM	1	8	22.34	22.38	22.28				
3	8QAM	1	14	22.06	22.38	22.20				
3	8QAM	8	0	21.32	21.27	21.02				
3	8QAM	8	4	21.04	21.42	20.95				
3	8QAM	8	7	20.98	21.00	20.99				
3	8QAM	15	0	21.19	21.24	21.12				
3	256QAM	1	0	19.20	19.45	19.41				
3	256QAM	1	8	19.27	19.51	19.37				
3	256QAM	1	14	19.24	19.31	19.35				
3	256QAM	8	0	19.10	19.31	19.36				
3	256QAM	8	4	19.24	19.15	19.17				
3	256QAM	8	7	19.09	19.23	19.09				
3	256QAM	15	0	19.20	19.28	19.12				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.41	22.54	22.18				
1.4	QPSK	1	3	22.35	22.28	22.27				
1.4	QPSK	1	5	22.20	22.42	22.04				
1.4	QPSK	3	0	22.34	22.50	22.27				
1.4	QPSK	3	1	22.20	22.50	22.23				
1.4	QPSK	3	3	22.17	22.20	22.20				
1.4	16QAM	1	0	22.33	22.34	22.32				
1.4	16QAM	1	3	22.32	22.40	22.40				
1.4	16QAM	1	5	22.28	22.47	22.25				
1.4	16QAM	3	0	22.44	22.37	22.33				
1.4	16QAM	3	1	22.47	22.47	22.40				
1.4	16QAM	3	1	22.26	22.31	22.25				
1.4	16QAM	6	0	22.33	22.34	22.32				
1.4	16QAM	6	0	22.26	22.43	22.38				
1.4	8QAM	1	0	22.35	22.37	22.29				
1.4	8QAM	1	3	22.25	22.29	22.28				
1.4	8QAM	1	5	22.01	22.33	22.19				
1.4	8QAM	3	0	22.38	22.36	22.40				
1.4	8QAM	3	0	22.16	22.32	22.22				
1.4	8QAM	3	3	22.15	22.29	22.21				
1.4	256QAM	1	0	21.19	21.20	21.11				
1.4	256QAM	1	0	19.26	19.57	19.36				
1.4	256QAM	1	3	19.22	19.56	19.47				
1.4	256QAM	3	5	19.26	19.22	19.35				
1.4	256QAM	3	5	19.10	19.34	19.30				
1.4	256QAM	3	1	19.21	19.18	19.19				
1.4	256QAM	3	0	19.08	19.20	19.14				
1.4	256QAM	3	0	19.17	19.25	19.09				

Band 13 Ant2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.53	22.53	22.53				
10	QPSK	1	25	22.41	22.41	22.41				
10	QPSK	1	49	22.43	22.43	22.43				
10	QPSK	25	0	22.45	22.45	22.45				
10	QPSK	25	12	22.40	22.40	22.40				
10	QPSK	25	25	22.26	22.26	22.26				
10	QPSK	50	0	22.32	22.32	22.32				
10	16QAM	1	0	22.45	22.45	22.45				
10	16QAM	1	25	22.47	22.47	22.47				
10	16QAM	1	49	22.40	22.40	22.40				
10	16QAM	25	0	22.54	22.54	22.54				
10	16QAM	25	12	22.35	22.35	22.35				
10	16QAM	25	25	22.28	22.28	22.28				
10	16QAM	50	0	22.45	22.45	22.45				
10	8QAM	1	0	22.42	22.42	22.42				
10	8QAM	1	25	22.42	22.42	22.42				
10	8QAM	1	49	22.41	22.41	22.41				
10	8QAM	25	0	21.30	21.30	21.30				
10	8QAM	25	12	21.20	21.20	21.20				
10	8QAM	25	25	21.04	21.04	21.04				
10	8QAM	50	0	21.26	21.26	21.26				



Band 25 Ant2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power Hsp./F.Freq.	Power Pwr./F.Freq.	Turn-up (dB)	MPR (dB)		
Channel	Frequency (MHz)	RB Size	RB Offset	Power Ch./F.Freq.	Power Hsp./F.Freq.	Power Pwr./F.Freq.	Turn-up (dB)	MPR (dB)		
20	QPSK	1	0	23.18	23.22	23.31				
20	QPSK	1	49	23.00	23.13	23.03			24	0
20	QPSK	1	99	23.18	23.22	23.19				
20	QPSK	1	149	23.00	23.13	23.04			24	0
20	QPSK	50	0	23.11	23.22	23.15				
20	QPSK	100	0	23.13	23.22	23.14				
20	QPSK	1	49	23.05	23.14	23.07			24	0
20	QPSK	1	99	23.09	23.09	23.07				
20	QPSK	1	149	23.05	23.09	23.06			24	0
20	QPSK	50	24	22.84	22.89	22.90				
20	QPSK	50	74	22.77	22.84	22.87				
20	QPSK	50	119	22.84	22.85	22.91				
20	QPSK	1	0	22.96	23.15	22.96				
20	QPSK	1	49	22.98	23.02	22.95			24	0
20	QPSK	1	99	22.98	23.00	22.90				
20	QPSK	1	149	22.98	23.04	22.90				
20	QPSK	50	0	22.92	22.94	22.95				
20	QPSK	50	24	21.92	22.04	21.97				
20	QPSK	50	74	21.92	22.04	21.95				
20	QPSK	50	119	21.92	22.04	21.95				
20	QPSK	1	0	21.97	22.02	22.07				
20	QPSK	1	49	21.97	22.02	22.07			23	0
20	QPSK	1	99	21.97	22.02	22.04				
20	QPSK	1	149	21.97	22.02	22.07				
20	QPSK	50	0	20.76	20.88	20.87				
20	QPSK	50	24	20.65	20.78	20.80				
20	QPSK	50	74	20.65	20.78	20.79				
20	QPSK	50	119	20.65	20.78	20.79				
20	QPSK	1	0	19.28	19.25	19.25				
20	QPSK	1	49	19.18	19.14	19.06				
20	QPSK	1	99	19.18	19.14	19.06				
20	QPSK	1	149	19.18	19.14	19.06				
20	QPSK	50	0	18.91	18.99	19.02				
20	QPSK	50	24	18.88	18.87	18.89				
20	QPSK	50	74	18.88	18.87	18.89				
20	QPSK	50	119	18.88	18.87	18.89				
20	QPSK	1	0	17.45	17.45	17.45				
20	QPSK	1	49	17.45	17.45	17.45				
20	QPSK	1	99	17.45	17.45	17.45				
20	QPSK	1	149	17.45	17.45	17.45				
20	QPSK	50	0	17.25	17.25	17.25				
20	QPSK	50	24	17.25	17.25	17.25				
20	QPSK	50	74	17.25	17.25	17.25				
20	QPSK	50	119	17.25	17.25	17.25				
20	QPSK	1	0	15.84	15.84	15.84				
20	QPSK	1	49	15.84	15.84	15.84				
20	QPSK	1	99	15.84	15.84	15.84				
20	QPSK	1	149	15.84	15.84	15.84				
20	QPSK	50	0	15.84	15.84	15.84				
20	QPSK	50	24	15.84	15.84	15.84				
20	QPSK	50	74	15.84	15.84	15.84				
20	QPSK	50	119	15.84	15.84	15.84				
20	QPSK	1	0	13.91	13.91	13.91				
20	QPSK	1	49	13.91	13.91	13.91				
20	QPSK	1	99	13.91	13.91	13.91				
20	QPSK	1	149	13.91	13.91	13.91				
20	QPSK	50	0	13.91	13.91	13.91				
20	QPSK	50	24	13.91	13.91	13.91				
20	QPSK	50	74	13.91	13.91	13.91				
20	QPSK	50	119	13.91	13.91	13.91				
20	QPSK	1	0	12.21	12.21	12.21				
20	QPSK	1	49	12.21	12.21	12.21				
20	QPSK	1	99	12.21	12.21	12.21				
20	QPSK	1	149	12.21	12.21	12.21				
20	QPSK	50	0	12.21	12.21	12.21				
20	QPSK	50	24	12.21	12.21	12.21				
20	QPSK	50	74	12.21	12.21	12.21				
20	QPSK	50	119	12.21	12.21	12.21				
20	QPSK	1	0	11.24	11.24	11.24				
20	QPSK	1	49	11.24	11.24	11.24				
20	QPSK	1	99	11.24	11.24	11.24				
20	QPSK	1	149	11.24	11.24	11.24				
20	QPSK	50	0	11.24	11.24	11.24				
20	QPSK	50	24	11.24	11.24	11.24				
20	QPSK	50	74	11.24	11.24	11.24				
20	QPSK	50	119	11.24	11.24	11.24				
20	QPSK	1	0	10.27	10.27	10.27				
20	QPSK	1	49	10.27	10.27	10.27				
20	QPSK	1	99	10.27	10.27	10.27				
20	QPSK	1	149	10.27	10.27	10.27				
20	QPSK	50	0	10.27	10.27	10.27				
20	QPSK	50	24	10.27	10.27	10.27				
20	QPSK	50	74	10.27	10.27	10.27				
20	QPSK	50	119	10.27	10.27	10.27				
20	QPSK	1	0	9.30	9.30	9.30				
20	QPSK	1	49	9.30	9.30	9.30				
20	QPSK	1	99	9.30	9.30	9.30				
20	QPSK	1	149	9.30	9.30	9.30				
20	QPSK	50	0	9.30	9.30	9.30				
20	QPSK	50	24	9.30	9.30	9.30				
20	QPSK	50	74	9.30	9.30	9.30				
20	QPSK	50	119	9.30	9.30	9.30				
20	QPSK	1	0	8.33	8.33	8.33				
20	QPSK	1	49	8.33	8.33	8.33				
20	QPSK	1	99	8.33	8.33	8.33				
20	QPSK	1	149	8.33	8.33	8.33				
20	QPSK	50	0	8.33	8.33	8.33				
20	QPSK	50	24	8.33	8.33	8.33				
20	QPSK	50	74	8.33	8.33	8.33				
20	QPSK	50	119	8.33	8.33	8.33				
20	QPSK	1	0	7.36	7.36	7.36				
20	QPSK	1	49	7.36	7.36	7.36				
20	QPSK	1	99	7.36	7.36	7.36				
20	QPSK	1	149	7.36	7.36	7.36				
20	QPSK	50	0	7.36	7.36	7.36				
20	QPSK	50	24	7.36	7.36	7.36				
20	QPSK	50	74	7.36	7.36	7.36				
20	QPSK	50	119	7.36	7.36	7.36				
20	QPSK	1	0	6.39	6.39	6.39				
20	QPSK	1	49	6.39	6.39	6.39				
20	QPSK	1	99	6.39	6.39	6.39				
20	QPSK	1	149	6.39	6.39	6.39				
20	QPSK	50	0	6.39	6.39	6.39				
20	QPSK	50	24	6.39	6.39	6.39				
20	QPSK	50	74	6.39	6.39	6.39				
20	QPSK	50	119	6.39	6.39	6.39				
20	QPSK	1	0	5.42	5.42	5.42				
20	QPSK	1	49	5.42	5.42	5.42				
20	QPSK	1	99	5.42	5.42	5.42				
20	QPSK	1	149	5.42	5.42	5.42				
20	QPSK	50	0	5.42	5.42	5.42				
20	QPSK	50	24	5.42	5.42	5.42				
20	QPSK	50	74	5.42	5.42	5.42				
20	QPSK	50	119	5.42	5.42	5.42				
20	QPSK	1	0	4.45	4.45	4.45				
20	QPSK	1	49	4.45	4.45	4.45				
20	QPSK	1	99	4.45	4.45	4.45				
20	QPSK	1	149	4.45	4.45	4.45				
20	QPSK	50	0	4.45	4.45	4.45				
20	QPSK	50	24	4.45	4.45	4.45				
20	QPSK	50	74	4.45	4.45	4.45				
20	QPSK	50	119	4.45	4.45	4.45				
20	QPSK	1	0	3.48	3.48	3.48				
20	QPSK	1	49	3.48	3.48	3.48				
20	QPSK	1	99	3.48	3.48	3.48				
20	QPSK	1	149	3.48	3.48	3.48				
20	QPSK	50	0	3.48	3.48	3.48				
20	QPSK	50	24	3.48	3.48	3.48				
20	QPSK	50	74	3.48	3.48	3.48				
20	QPSK	50	119	3.48	3.48	3.48				
20	QPSK	1	0	2.51	2.51	2.51				
20	QPSK	1	49	2.51	2.51	2.51				
20	QPSK	1	99	2.51	2.51	2.51				
20	QPSK	1	149	2.51	2.51	2.51				
20	QPSK	50	0	2.51	2.51	2.51				
20	QPSK	50	24	2.51	2.51	2.51				
20	QPSK	50	74	2.51	2.51	2.51				
20	QPSK	50	119	2.51	2.51	2.51				
20	QPSK	1	0	1.54	1.54	1.54				
20	QPSK	1	49	1.54	1.54	1.54				
20	QPSK	1	99	1.54	1.54	1.54				
20	QPSK	1	149	1.54	1.54	1.54				
20	QPSK	50	0	1.54	1.54	1.54				
20	QPSK	50	24	1.54	1.54	1.54				
20</										



Band 38 Ant2										
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)										
30	QPSK	1	0	21.68	21.70	21.81	22.4	0		
30	QPSK	1	49	21.47	21.50	21.47	22.4	0		
30	QPSK	1	99	21.41	21.43	21.50	22.4	0		
30	QPSK	50	0	21.54	21.50	21.50	22.4	0		
30	QPSK	50	24	21.45	21.54	21.48	22.4	0		
30	QPSK	50	49	21.54	21.54	21.48	22.4	0		
30	QPSK	100	0	21.44	21.53	21.38	22.4	0		
30	HQAM	1	0	21.52	21.66	21.49	22.4	0		
30	HQAM	1	49	21.30	21.46	21.30	22.4	0		
30	HQAM	1	99	21.22	21.38	21.43	22.4	0		
30	HQAM	50	0	21.54	21.72	21.54	22.4	0		
30	HQAM	50	24	21.51	21.58	21.50	22.4	0		
30	HQAM	50	49	21.50	21.50	21.40	22.4	0		
30	HQAM	100	0	21.52	21.67	21.50	22.4	0		
30	HQAM	100	0	21.62	21.50	21.50	22.4	0		
30	HQAM	1	49	21.52	21.64	21.52	22.4	0		
30	HQAM	1	99	21.51	21.63	21.51	22.4	0		
30	HQAM	50	0	20.53	20.75	20.52	21.5	0.9		
30	HQAM	50	24	20.49	20.58	20.59	21.5	0.9		
30	HQAM	50	49	20.45	20.51	20.45	21.5	0.9		
30	HQAM	100	0	20.52	20.58	20.48	21.5	0.9		
30	25QAM	1	0	18.57	18.78	18.56	19.5	2.9		
30	25QAM	1	49	18.54	18.78	18.50	19.5	2.9		
30	25QAM	1	99	18.46	18.58	18.50	19.5	2.9		
30	25QAM	50	0	18.52	18.67	18.50	19.5	2.9		
30	25QAM	50	24	18.58	18.62	18.54	19.5	2.9		
30	25QAM	50	49	18.45	18.56	18.48	19.5	2.9		
30	25QAM	100	0	18.51	18.72	18.50	19.5	2.9		
Channel										
Frequency (MHz)										
15	QPSK	1	0	21.73	21.75	21.75	22.4	0		
15	QPSK	1	37	21.23	21.32	21.33	22.4	0		
15	QPSK	1	74	21.20	21.34	21.22	22.4	0		
15	QPSK	36	0	21.31	21.31	21.37	22.4	0		
15	QPSK	36	20	21.28	21.38	21.30	22.4	0		
15	QPSK	36	39	21.38	21.38	21.41	22.4	0		
15	QPSK	75	0	21.25	21.48	21.32	22.4	0		
15	HQAM	1	0	21.45	21.45	21.20	22.4	0		
15	HQAM	1	37	21.27	21.27	21.41	22.4	0		
15	HQAM	1	74	21.15	21.30	21.10	22.4	0		
15	HQAM	36	0	21.40	21.61	21.41	22.4	0		
15	HQAM	36	20	21.32	21.63	21.38	22.4	0		
15	HQAM	36	39	21.38	21.38	21.38	22.4	0		
15	HQAM	75	0	21.48	21.68	21.41	22.4	0		
15	HQAM	1	0	21.52	21.63	21.60	22.4	0		
15	HQAM	1	37	21.38	21.81	21.40	22.4	0		
15	HQAM	1	74	21.41	21.49	21.44	22.4	0		
15	HQAM	36	0	20.55	20.59	20.55	21.5	0.9		
15	HQAM	36	20	20.45	20.47	20.49	21.5	0.9		
15	HQAM	36	39	20.48	20.45	20.43	21.5	0.9		
15	HQAM	75	0	20.48	20.45	20.43	21.5	0.9		
15	25QAM	1	0	18.45	18.70	18.53	19.5	2.9		
15	25QAM	1	37	18.45	18.66	18.53	19.5	2.9		
15	25QAM	1	74	18.39	18.44	18.41	19.5	2.9		
15	25QAM	36	0	18.58	18.72	18.59	19.5	2.9		
15	25QAM	36	20	18.50	18.71	18.44	19.5	2.9		
15	25QAM	36	39	18.33	18.46	18.43	19.5	2.9		
15	25QAM	75	0	18.50	18.62	18.47	19.5	2.9		
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.75	21.75	21.75	22.4	0		
10	QPSK	1	25	21.39	21.40	21.40	22.4	0		
10	QPSK	1	49	21.33	21.27	21.18	22.4	0		
10	QPSK	12	0	21.36	21.36	21.36	22.4	0		
10	QPSK	25	12	21.39	21.25	21.19	22.4	0		
10	QPSK	25	25	21.23	21.44	21.03	22.4	0		
10	HQAM	1	0	21.33	21.48	21.31	22.4	0		
10	HQAM	1	0	21.33	21.41	21.40	22.4	0		
10	HQAM	1	25	21.34	21.33	21.27	22.4	0		
10	HQAM	1	49	21.04	21.09	21.37	22.4	0		
10	HQAM	25	0	21.41	21.84	21.44	22.4	0		
10	HQAM	25	12	21.43	21.41	21.44	22.4	0		
10	HQAM	25	25	21.44	21.40	21.38	22.4	0		
10	HQAM	50	0	21.42	21.62	21.40	22.4	0		
10	HQAM	1	0	21.56	21.68	21.50	22.4	0		
10	HQAM	1	25	21.38	21.55	21.43	22.4	0		
10	HQAM	1	49	21.36	21.49	21.44	22.4	0		
10	HQAM	25	0	20.54	20.66	20.51	21.5	0.9		
10	HQAM	25	12	20.38	20.48	20.52	21.5	0.9		
10	HQAM	25	25	20.37	20.39	20.47	21.5	0.9		
10	HQAM	50	0	20.41	20.48	20.36	21.5	0.9		
10	25QAM	1	0	18.50	18.67	18.51	19.5	2.9		
10	25QAM	1	25	18.50	18.72	18.45	19.5	2.9		
10	25QAM	1	49	18.34	18.51	18.45	19.5	2.9		
10	25QAM	12	0	18.51	18.67	18.57	19.5	2.9		
10	25QAM	25	12	18.46	18.57	18.44	19.5	2.9		
10	25QAM	25	25	18.52	18.50	18.38	19.5	2.9		
10	25QAM	50	0	18.49	18.67	18.40	19.5	2.9		
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.75	21.75	21.75	22.4	0		
5	QPSK	1	12	21.21	21.33	21.43	22.4	0		
5	QPSK	1	24	21.25	21.39	21.14	22.4	0		
5	QPSK	12	0	21.39	21.41	21.38	22.4	0		
5	QPSK	12	7	21.35	21.06	21.41	22.4	0		
5	QPSK	12	13	21.38	21.31	21.23	22.4	0		
5	HQAM	1	0	21.36	21.51	21.41	22.4	0		
5	HQAM	1	12	21.47	21.57	21.23	22.4	0		
5	HQAM	1	24	21.16	21.28	21.10	22.4	0		
5	HQAM	12	0	21.42	21.67	21.42	22.4	0		
5	HQAM	12	7	21.40	21.41	21.39	22.4	0		
5	HQAM	12	13	21.38	21.37	21.31	22.4	0		
5	HQAM	25	0	21.39	21.89	21.44	22.4	0		
5	HQAM	1	0	21.48	21.73	21.50	22.4	0		
5	HQAM	1	12	21.42	21.67	21.46	22.4	0		
5	HQAM	1	24	21.39	21.48	21.40	22.4	0		
5	HQAM	12	0	20.51	20.68	20.50	21.5	0.9		
5	HQAM	12	7	20.42	20.34	20.35	21.5	0.9		
5	HQAM	12	13	20.40	20.40	20.44	21.5	0.9		
5	HQAM	25	0	20.40	20.30	20.44	21.5	0.9		
5	25QAM	1	0	18.53	18.74	18.53	19.5	2.9		
5	25QAM	1	12	18.41	18.74	18.51	19.5	2.9		
5	25QAM	1	24	18.41	18.67	18.40	19.5	2.9		
5	25QAM	12	0	18.50	18.40	18.45	19.5	2.9		
5	25QAM	12	13	18.39	18.53	18.41	19.5	2.9		
5	25QAM	25	0	18.46	18.51	18.40	19.5	2.9		

Band 41 FCC&IC Ant2										
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)										
20	QPSK	1	0	21.60	21.61	21.63	22.4	0		
20	QPSK	1	49	21.18	21.31	21.56	22.4	0		
20	QPSK	1	99	21.40	21.50	21.56	22.4	0		
20	QPSK	50	0	21.20	21.22	21.04	22.4	0		
20	QPSK	50	24	21.41	21.28	21.27	22.4	0		
20	QPSK	50	49	21.28	21.22	21.48	22.4	0		
20	QPSK	100	0	21.26	21.06	21.03	22.4	0		
20	HQAM	1	0	21.28	21.32	21.33	22.4	0		
20	HQAM	1	49	21.17	21.26	21.27	22.4	0		
20	HQAM	1	99	21.12	21.25	21.35	22.4	0		
20	HQAM	50	0	21.31	21.34	21.32	22.4	0		
20	HQAM									



Band 41 PC2 FCC&IC Ant2											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up Int (dBm)	MPE (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	23.15	23.15	23.15	23.15	23.15	23.15	24	0
20	QPSK	1	49	23.12	23.10	23.07	23.25	23.25	23.38		
20	QPSK	1	99	23.07	23.11	23.10	23.09	23.34			
20	QPSK	50	0	23.04	23.02	23.05	23.05	23.19			
20	QPSK	50	24	23.07	23.10	23.18	22.89	23.11			
20	QPSK	50	49	22.90	22.88	22.89	22.90	23.03			
20	QPSK	100	0	22.88	23.09	23.10	23.09	23.08			
20	HQAM	1	0	22.95	23.28	23.31	23.24	23.13			
20	HQAM	1	49	22.99	23.31	23.30	23.07	23.22			
20	HQAM	1	99	23.02	23.09	23.23	23.02	23.11			
20	HQAM	50	0	22.94	22.88	23.10	22.92	22.99			
20	HQAM	50	24	22.85	23.04	23.30	22.87	23.00			
20	HQAM	50	49	22.92	22.78	23.01	22.86	22.90			
20	HQAM	100	0	22.84	22.84	22.99	22.85	23.06			
20	HQAM	100	0	23.13	23.35	23.34	23.41	23.42			
20	HQAM	100	49	23.20	23.24	23.24	23.35	23.29			
20	HQAM	100	99	23.15	23.45	23.45	23.29	23.20			
20	HQAM	100	0	22.92	22.94	23.10	22.91	22.97			
20	HQAM	100	24	22.81	22.92	22.94	22.85	22.99			
20	HQAM	100	49	22.88	22.85	22.81	22.82	22.91			
20	HQAM	100	99	22.99	22.94	23.10	22.19	22.97			
20	256QAM	1	0	21.69	21.81	21.95	21.76	21.81			
20	256QAM	1	49	21.72	21.79	21.81	21.71	21.81			
20	256QAM	1	99	21.62	21.68	21.73	21.75	21.64			
20	256QAM	50	0	21.55	21.68	21.74	21.63	21.67			
20	256QAM	50	24	21.38	21.53	21.59	21.50	21.52			
20	256QAM	50	49	21.38	21.51	21.54	21.48	21.43			
20	256QAM	100	0	21.60	21.63	21.63	21.63	21.63			
Channel											
Frequency (MHz)											
15	QPSK	1	0	23.11	23.17	23.13	23.10	23.12		24.00	0
15	QPSK	1	37	22.89	23.11	23.10	22.98	23.08			
15	QPSK	1	74	22.92	23.19	23.10	23.02	23.07			
15	QPSK	38	0	23.02	23.18	23.18	23.07	23.27			
15	QPSK	38	20	22.83	22.95	22.95	23.09	22.92			
15	QPSK	38	37	22.83	22.88	22.88	23.17	22.88			
15	QPSK	75	0	23.01	22.89	23.22	23.19	23.10			
15	HQAM	1	0	23.02	23.17	23.30	23.31	23.17			
15	HQAM	1	37	22.90	23.06	23.30	23.29	23.00			
15	HQAM	1	74	22.89	23.07	22.95	22.94	22.89			
15	HQAM	38	0	22.78	22.85	23.12	22.99	23.04			
15	HQAM	38	20	22.74	22.79	23.06	22.98	23.11			
15	HQAM	38	37	22.78	22.73	23.00	22.85	22.85			
15	HQAM	75	0	22.95	23.01	23.16	22.82	22.83			
15	HQAM	1	0	23.39	23.39	23.39	23.39	23.40			
15	HQAM	1	37	23.05	23.18	23.12	23.34	23.28			
15	HQAM	1	74	22.99	23.18	23.22	23.18	23.21			
15	HQAM	38	0	22.80	22.83	22.86	22.87	22.87			
15	HQAM	38	20	22.76	22.87	22.89	22.80	22.74			
15	HQAM	38	37	22.80	22.80	22.80	22.80	22.80			
15	HQAM	75	0	22.80	22.85	23.15	23.13	23.02			
15	256QAM	1	0	21.64	21.69	21.82	21.70	21.68			
15	256QAM	1	37	21.63	21.64	21.63	21.63	21.63			
15	256QAM	1	74	21.48	21.61	21.62	21.60	21.61			
15	256QAM	38	0	21.50	21.54	21.68	21.59	21.52			
15	256QAM	38	20	21.31	21.44	21.48	21.46	21.38			
15	256QAM	38	37	21.30	21.44	21.51	21.44	21.38			
15	256QAM	75	0	21.40	21.52	21.61	21.50	21.48			
Channel											
Frequency (MHz)											
10	QPSK	1	0	23.14	23.27	23.26	23.26	23.29		24.00	0
10	QPSK	1	25	23.17	23.17	23.28	23.25	22.99			
10	QPSK	1	49	22.99	22.99	23.18	22.84	23.18			
10	QPSK	12	0	23.16	23.16	23.16	23.16	23.16			
10	QPSK	25	12	22.92	22.83	23.12	22.84	22.99			
10	QPSK	25	25	23.07	22.81	22.85	22.88	22.97			
10	HQAM	1	0	22.73	22.89	22.87	22.89	23.02			
10	HQAM	1	0	22.88	23.24	23.10	23.10	23.31			
10	HQAM	1	25	23.08	22.89	23.11	23.08	23.00			
10	HQAM	1	49	23.05	22.83	23.02	23.01	22.82			
10	HQAM	25	0	22.84	23.04	23.14	23.04	23.04			
10	HQAM	25	12	22.74	22.72	22.94	22.80	22.85			
10	HQAM	25	25	22.84	22.84	22.96	22.84	22.86			
10	HQAM	50	0	22.85	22.91	22.80	22.89	22.91			
10	HQAM	1	0	23.06	23.03	23.29	23.26	23.36			
10	HQAM	1	25	23.17	23.17	23.10	23.24	23.22			
10	HQAM	1	49	23.11	23.18	23.19	23.12	23.20			
10	HQAM	25	0	22.85	23.03	22.80	22.85	23.08			
10	HQAM	25	12	22.79	22.84	22.91	22.98	22.85			
10	HQAM	25	25	22.76	22.83	22.86	22.88	22.72			
10	HQAM	50	0	22.87	22.79	23.06	23.02	22.93			
10	256QAM	1	0	21.58	21.70	21.81	21.68	21.69			
10	256QAM	1	25	21.68	21.63	21.86	21.75	21.67			
10	256QAM	1	49	21.48	21.64	21.69	21.69	21.58			
10	256QAM	25	0	21.43	21.50	21.81	21.60	21.50			
10	256QAM	25	12	21.35	21.43	21.47	21.57	21.45			
10	256QAM	25	25	21.29	21.37	21.41	21.43	21.38			
10	256QAM	50	0	21.35	21.48	21.60	21.58	21.55			
Channel											
Frequency (MHz)											
5	QPSK	1	0	22.92	23.16	23.21	23.22	23.34		24.00	0
5	QPSK	1	12	23.15	23.34	23.07	23.06	23.16			
5	QPSK	1	24	23.08	23.14	23.27	22.92	23.13			
5	QPSK	12	0	22.88	23.33	23.34	22.89	23.12			
5	QPSK	12	7	22.91	22.85	22.83	23.07	23.05			
5	QPSK	12	13	22.98	23.08	23.04	22.87	22.83			
5	QPSK	25	0	23.04	22.89	22.96	23.09	22.90			
5	HQAM	1	0	23.05	23.01	23.08	23.28	23.25			
5	HQAM	1	12	23.04	23.01	23.13	23.08	22.89			
5	HQAM	1	24	22.76	23.08	23.24	22.94	23.06			
5	HQAM	12	0	22.85	22.81	23.00	22.80	22.91			
5	HQAM	12	7	22.90	22.78	22.92	22.87	22.89			
5	HQAM	12	13	22.80	22.72	22.91	22.85	22.73			
5	HQAM	25	0	22.81	22.84	23.08	22.79	22.82			
5	HQAM	1	0	23.20	23.24	23.26	23.28	23.30			
5	HQAM	1	12	23.33	23.05	23.26	23.31	23.27			
5	HQAM	1	24	23.23	23.06	23.19	23.02	23.24			
5	HQAM	12	0	22.78	22.88	22.91	22.74	22.83			
5	HQAM	12	7	22.85	22.96	22.91	22.92	22.83			
5	HQAM	12	13	22.67	22.78	22.87	22.87	22.67			
5	HQAM	25	0	22.82	22.89	22.99	22.90	22.90			
5	256QAM	1	0	21.57	21.77	21.81	21.62	21.67			
5	256QAM	1	12	21.58	21.69	21.91	21.67	21.67			
5	256QAM	1	24	21.44	21.69	21.66	21.71	21.55			
5	256QAM	12	0	21.43	21.47	21.69	21.59	21.64			
5	256QAM	12	7	21.35	21.41	21.45	21.38</				



SN	GSN/500 Awt	Best Average Power (dBm)			Tuneup Limit	Frame-Average Power (dBm)			Tuneup Limit
		812	861	810		812	861	810	
WCDMA I Awt									
TX Channel		812	861	810	Limit	812	861	810	Limit
Frequency (MHz)		1812.2	1862	1812.2	(dBm)	1812.2	1862	1812.2	(dBm)
DRM 1 Tx Wrt		29.56	29.68	29.63	30.00	29.56	29.68	29.63	29.00
DRM 1 Tx Wrt		29.52	29.61	29.49	30.00	29.52	29.61	29.49	29.00
DRM 2 Tx Wrt		27.05	27.12	26.97	28.00	27.05	27.12	26.97	27.00
DRM 3 Tx Wrt		28.70	28.78	28.86	29.50	28.74	28.82	28.90	29.24
DRM 4 Tx Wrt		25.14	25.21	25.14	24.00	25.14	25.21	25.14	25.00
EDGE 1 Tx Wrt		29.06	29.13	24.99	28.00	18.06	18.13	18.09	17.00
EDGE 2 Tx Wrt		25.33	25.43	25.49	24.00	17.33	17.43	17.48	18.00
EDGE 3 Tx Wrt		22.21	22.25	22.25	23.50	17.95	18.00	17.95	19.24
EDGE 4 Tx Wrt		20.13	20.18	20.08	21.00	17.13	17.18	17.08	18.00
WCDMA II Awt									
Best		WCDMA II			WCDMA IV			Tuneup	
TX Channel		882	960	858	Limit	812	861	810	Limit
Frequency (MHz)		882	960	858	(dBm)	812	861	810	(dBm)
SOPP Rel (g)		22.56	23.02	23.00	24.00	22.54	22.60	22.51	24.00
SOPP Rel (g)	RMC 12 2Mbps	23.05	23.07	22.92	24.00	22.89	23.03	22.84	24.00
SOPP Rate	HS-PA Subclass 1	21.95	22.14	22.11	23.00	21.81	22.04	21.94	23.00
SOPP Rate	HS-PA Subclass 2	22.84	22.17	21.92	23.00	21.83	22.07	21.84	23.00
SOPP Rate	HS-PA Subclass 3	21.54	21.59	21.57	22.00	21.58	21.59	21.44	22.00
SOPP Rate	HS-PA Subclass 4	21.48	21.60	21.60	22.00	21.43	21.60	21.50	22.00
SOPP Rate	DC-HSPA Subclass 1	22.08	22.17	21.98	23.00	21.90	22.00	21.90	23.00
SOPP Rate	DC-HSPA Subclass 2	21.99	22.13	22.18	23.00	21.91	22.07	22.07	23.00
SOPP Rate	DC-HSPA Subclass 3	21.37	21.57	21.48	22.00	21.28	21.46	21.34	22.00
SOPP Rate	DC-HSPA Subclass 4	21.61	21.56	21.44	22.00	21.50	21.45	21.51	22.00
SOPP Rate	HSPA Subclass 1	22.88	22.31	21.97	23.00	22.04	22.24	21.84	23.00
SOPP Rate	HSPA Subclass 2	22.22	22.14	22.17	23.00	22.28	22.07	22.04	23.00
SOPP Rate	HSPA Subclass 3	21.20	21.08	21.03	22.00	21.10	20.98	20.90	22.00
SOPP Rate	HSPA Subclass 4	18.98	20.25	20.22	21.00	19.84	20.10	20.08	21.00
SOPP Rate	HSPA Subclass 5	22.03	22.04	21.94	23.00	21.90	21.90	21.80	23.00



Band 2 Default Ant3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPE (dB)		
Channel										
	Frequency (MHz)			1860	1880	1900				
20	QPSK	1	0	22.65	22.72	22.70				
20	QPSK	1	49	22.63	22.70	22.68	24	0		
20	QPSK	1	99	22.45	22.58	22.53				
20	QPSK	50	0	22.49	22.57	22.53				
20	QPSK	50	24	22.41	22.50	22.49				
20	QPSK	50	50	22.38	22.47	22.38	24	0		
20	QPSK	100	0	22.45	22.50	22.41				
20	QPSK	100	0	22.49	22.58	22.50				
20	HQAM	1	49	22.36	22.45	22.41	24	0		
20	HQAM	1	99	22.33	22.44	22.37				
20	HQAM	50	0	22.38	22.44	22.44				
20	HQAM	50	24	22.38	22.37	22.31				
20	HQAM	50	50	22.32	22.39	22.31	24	0		
20	HQAM	100	0	22.38	22.49	22.32				
20	HQAM	1	0	22.29	22.47	22.31				
20	HQAM	1	49	22.29	22.29	22.29	24	0		
20	HQAM	50	0	22.28	22.32	22.27				
20	HQAM	50	24	22.28	22.34	22.28				
20	HQAM	50	50	22.42	22.46	22.34	24	0		
20	HQAM	100	0	22.42	22.46	22.38				
20	HQAM	1	49	19.51	19.83	19.45	21	3		
20	HQAM	1	99	19.38	19.43	19.33				
20	HQAM	50	0	19.23	19.36	19.26				
20	HQAM	50	24	19.33	19.39	19.36				
20	HQAM	50	50	19.25	19.35	19.32	21	3		
20	HQAM	100	0	19.38	19.41	19.32				
Channel										
	Frequency (MHz)			1867.5	1890	1912.5	Turn-up time (min)	MPE (dB)		
15	QPSK	1	0	22.80	22.88	22.81				
15	QPSK	1	37	22.42	22.58	22.48	24	0		
15	QPSK	1	74	22.40	22.49	22.46				
15	QPSK	36	0	22.42	22.59	22.47				
15	QPSK	36	20	22.30	22.51	22.38	24	0		
15	QPSK	36	36	22.31	22.39	22.29				
15	QPSK	75	0	22.34	22.59	22.34				
15	QPSK	75	0	22.30	22.53	22.42				
15	HQAM	1	37	22.24	22.41	22.29	24	0		
15	HQAM	1	74	22.24	22.38	22.31				
15	HQAM	36	0	22.29	22.42	22.34				
15	HQAM	36	20	22.32	22.27	22.28	24	0		
15	HQAM	36	36	22.27	22.37	22.28				
15	HQAM	75	0	22.26	22.44	22.27				
15	HQAM	1	0	22.17	22.37	22.21	24	0		
15	HQAM	1	37	22.14	22.37	22.21				
15	HQAM	36	0	22.14	22.39	22.21				
15	HQAM	36	20	22.20	22.30	22.17	24	0		
15	HQAM	36	36	22.20	22.30	22.17				
15	HQAM	75	0	22.28	22.34	22.29				
15	HQAM	1	37	19.35	19.58	19.46	21	3		
15	HQAM	1	74	19.39	19.50	19.40				
15	HQAM	36	0	19.27	19.39	19.26				
15	HQAM	36	20	19.23	19.25	19.26				
15	HQAM	36	36	19.14	19.23	19.20	21	3		
15	HQAM	75	0	19.38	19.41	19.32				
Channel										
	Frequency (MHz)			1865	1890	1915	Turn-up time (min)	MPE (dB)		
10	QPSK	1	0	22.60	22.67	22.64				
10	QPSK	1	25	22.46	22.54	22.50	24	0		
10	QPSK	1	49	22.34	22.52	22.43				
10	QPSK	25	0	22.37	22.50	22.43				
10	QPSK	25	12	22.37	22.50	22.43	24	0		
10	QPSK	25	25	22.27	22.33	22.27				
10	QPSK	75	0	22.30	22.53	22.42				
10	HQAM	1	0	22.29	22.49	22.37	24	0		
10	HQAM	1	25	22.24	22.33	22.30				
10	HQAM	1	49	22.24	22.38	22.31				
10	HQAM	25	0	22.27	22.40	22.34				
10	HQAM	25	12	22.32	22.33	22.22	24	0		
10	HQAM	25	25	22.21	22.35	22.24				
10	HQAM	50	0	22.25	22.43	22.28				
10	HQAM	1	0	22.21	22.43	22.16	24	0		
10	HQAM	1	25	22.17	22.58	22.21				
10	HQAM	1	49	22.13	22.32	22.13				
10	HQAM	25	0	22.23	22.45	22.21				
10	HQAM	25	12	22.18	22.38	22.20				
10	HQAM	25	25	22.20	22.29	22.20	24	0		
10	HQAM	50	0	22.37	22.34	22.25				
10	HQAM	1	25	19.36	19.51	19.41	21	3		
10	HQAM	1	49	19.27	19.31	19.27				
10	HQAM	25	0	19.25	19.46	19.26				
10	HQAM	25	12	19.28	19.30	19.28				
10	HQAM	25	25	19.14	19.28	19.19	21	3		
10	HQAM	50	0	19.33	19.54	19.39				
Channel										
	Frequency (MHz)			1862.5	1880	1917.5	Turn-up time (min)	MPE (dB)		
5	QPSK	1	0	22.62	22.67	22.64				
5	QPSK	1	12	22.39	22.54	22.46	24	0		
5	QPSK	1	24	22.38	22.51	22.49				
5	QPSK	12	0	22.41	22.51	22.45				
5	QPSK	12	7	22.34	22.45	22.41	24	0		
5	QPSK	12	13	22.30	22.39	22.33				
5	QPSK	25	0	22.34	22.53	22.42				
5	HQAM	1	0	22.31	22.45	22.33	24	0		
5	HQAM	1	12	22.31	22.42	22.28				
5	HQAM	1	24	22.19	22.38	22.21				
5	HQAM	12	0	22.33	22.46	22.39				
5	HQAM	12	7	22.24	22.33	22.28	24	0		
5	HQAM	12	13	22.23	22.28	22.20				
5	HQAM	25	0	22.29	22.46	22.23				
5	HQAM	1	0	22.20	22.41	22.22	24	0		
5	HQAM	1	12	22.17	22.25	22.21				
5	HQAM	1	24	22.20	22.24	22.23				
5	HQAM	12	0	22.14	22.40	22.16				
5	HQAM	12	7	22.03	22.23	22.08	24	0		
5	HQAM	12	13	22.14	22.20	22.15				
5	HQAM	25	0	22.28	22.38	22.27				
5	HQAM	1	0	19.37	19.59	19.39	21	3		
5	HQAM	1	12	19.43	19.52	19.42				
5	HQAM	1	24	19.26	19.38	19.29				
5	HQAM	12	0	19.28	19.42	19.33				
5	HQAM	12	7	19.28	19.33	19.26				
5	HQAM	12	13	19.13	19.29	19.28	21	3		
5	HQAM	25	0	19.29	19.58	19.48				
Channel										
	Frequency (MHz)			1861.5	1880	1918.5	Turn-up time (min)	MPE (dB)		
3	QPSK	1	0	22.51	22.66	22.59				
3	QPSK	1	8	22.37	22.51	22.45	24	0		
3	QPSK	1	14	22.39	22.51	22.41				
3	QPSK	8	0	22.43	22.58	22.44				
3	QPSK	8	4	22.39	22.42	22.43	24	0		
3	QPSK	8	7	22.35	22.33	22.34				
3	QPSK	15	0	22.34	22.46	22.37				
3	HQAM	1	0	22.32	22.53	22.41	24	0		
3	HQAM	1	8	22.26	22.36	22.29				
3	HQAM	1	14	22.18	22.30	22.20				
3	HQAM	8	0	22.28	22.43	22.34	24	0		
3	HQAM	8	4	22.31	22.31	22.27				
3	HQAM	8	7	22.02	22.27	22.20				
3	HQAM	15	0	22.34	22.44	22.28				
3	HQAM	1	0	22.23	22.40	22.20	24	0		
3	HQAM	1	8	22.22	22.38	22.21				
3	HQAM	1	14	22.19	22.22	22.22				
3	HQAM	8	0	22.23	22.41	22.16				
3	HQAM	8	4	22.22	22.23	22.22	24			



Band 25 Default Ant3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.60	22.70	22.72				
10	QPSK	1	0	22.60	22.68	22.68				
10	QPSK	1	99	22.36	22.55	22.55				
20	QPSK	50	0	22.50	22.60	22.47				
20	QPSK	50	24	22.39	22.49	22.47				
20	QPSK	50	50	22.39	22.49	22.45				
20	QPSK	100	0	22.49	22.52	22.53				
20	16QAM	1	0	22.45	22.50	22.47				
20	16QAM	1	49	22.35	22.42	22.38				
20	16QAM	1	99	22.39	22.44	22.38				
20	16QAM	50	0	22.37	22.38	22.37				
20	16QAM	50	24	22.40	22.46	22.42				
20	16QAM	50	50	22.34	22.38	22.34				
20	16QAM	100	0	22.47	22.51	22.46				
20	84QAM	1	0	22.39	22.52	22.46				
20	84QAM	1	49	22.35	22.40	22.32				
20	84QAM	1	99	22.39	22.33	22.38				
20	84QAM	50	0	21.45	21.56	21.45				
20	84QAM	50	24	21.38	21.38	21.38				
20	84QAM	50	50	21.38	21.38	21.34				
20	84QAM	100	0	21.59	21.64	21.57				
20	256QAM	1	0	18.61	18.65	18.63				
20	256QAM	1	49	18.43	18.55	18.47				
20	256QAM	1	99	18.44	18.42	18.40				
20	256QAM	50	0	18.38	18.48	18.41				
20	256QAM	50	24	18.38	18.48	18.41				
20	256QAM	50	50	18.42	18.42	18.39				
20	256QAM	100	0	18.44	18.50	18.44				
Channel										
Frequency (MHz)										
18	QPSK	1	0	22.50	22.59	22.49				
15	QPSK	1	37	22.45	22.48	22.47				
15	QPSK	1	74	22.27	22.48	22.42				
15	QPSK	36	0	22.38	22.62	22.37				
15	QPSK	36	25	22.30	22.31	22.41				
15	QPSK	36	39	22.35	22.43	22.42				
15	QPSK	75	0	22.44	22.51	22.41				
15	16QAM	1	0	22.36	22.31	22.34				
15	16QAM	1	37	22.25	22.39	22.31				
15	16QAM	1	74	22.16	22.29	22.23				
15	16QAM	36	0	22.26	22.53	22.29				
15	16QAM	36	25	22.32	22.33	22.33				
15	16QAM	36	39	22.28	22.38	22.38				
15	16QAM	75	0	22.34	22.58	22.43				
15	84QAM	1	0	22.30	22.42	22.38				
15	84QAM	1	37	22.29	22.39	22.32				
15	84QAM	1	74	22.22	22.24	22.13				
15	84QAM	36	0	21.34	21.52	21.34				
15	84QAM	36	25	21.36	21.38	21.38				
15	84QAM	36	39	21.18	21.13	21.21				
15	84QAM	75	0	21.62	21.68	21.54				
15	256QAM	1	0	18.37	18.38	18.38				
15	256QAM	1	37	18.40	18.51	18.37				
15	256QAM	1	74	18.30	18.38	18.38				
15	256QAM	36	0	18.35	18.45	18.41				
15	256QAM	36	25	18.29	18.43	18.29				
15	256QAM	36	39	18.34	18.35	18.28				
15	256QAM	75	0	18.41	18.43	18.41				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.60	22.68	22.68				
10	QPSK	1	25	22.35	22.52	22.44				
10	QPSK	1	49	22.26	22.47	22.47				
10	QPSK	12	0	22.48	22.53	22.44				
10	QPSK	25	12	22.26	22.37	22.40				
10	QPSK	25	25	22.30	22.35	22.38				
10	16QAM	1	0	22.39	22.45	22.39				
10	16QAM	1	24	22.25	22.37	22.29				
10	16QAM	25	0	22.34	22.52	22.29				
10	16QAM	25	12	22.26	22.36	22.38				
10	16QAM	25	25	22.28	22.38	22.38				
10	84QAM	1	0	22.33	22.42	22.33				
10	84QAM	1	24	22.23	22.33	22.21				
10	84QAM	1	49	22.15	22.23	22.14				
10	84QAM	25	0	21.37	21.45	21.35				
10	84QAM	25	12	21.34	21.40	21.29				
10	84QAM	25	25	21.52	21.20	21.45				
10	84QAM	50	0	21.54	21.54	21.45				
10	256QAM	1	0	18.48	18.48	18.43				
10	256QAM	1	24	18.38	18.59	18.44				
10	256QAM	1	49	18.35	18.35	18.35				
10	256QAM	12	0	18.32	18.35	18.35				
10	256QAM	25	12	18.32	18.33	18.33				
10	256QAM	25	25	18.37	18.28	18.25				
10	256QAM	50	0	18.41	18.47	18.47				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.60	22.68	22.68				
5	QPSK	1	12	22.42	22.57	22.40				
5	QPSK	1	24	22.25	22.46	22.41				
5	QPSK	12	0	22.30	22.44	22.34				
5	QPSK	12	7	22.26	22.46	22.38				
5	QPSK	12	13	22.48	22.53	22.48				
5	16QAM	1	0	22.29	22.48	22.40				
5	16QAM	1	12	22.32	22.39	22.24				
5	16QAM	12	0	22.24	22.45	22.23				
5	16QAM	12	7	22.33	22.39	22.36				
5	16QAM	12	13	22.26	22.39	22.29				
5	84QAM	1	0	22.36	22.49	22.35				
5	84QAM	1	24	22.14	22.24	22.25				
5	84QAM	12	0	21.34	21.47	21.36				
5	84QAM	12	7	21.28	21.40	21.29				
5	84QAM	12	13	21.12	21.27	21.24				
5	84QAM	25	0	21.46	21.59	21.49				
5	256QAM	1	0	18.47	18.58	18.38				
5	256QAM	1	12	18.38	18.52	18.33				
5	256QAM	1	24	18.31	18.39	18.28				
5	256QAM	12	0	18.37	18.37	18.42				
5	256QAM	12	7	18.32	18.41	18.28				
5	256QAM	12	13	18.38	18.39	18.25				
5	256QAM	25	0	18.31	18.40	18.40				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.47	22.65	22.59				
3	QPSK	1	8	22.45	22.55	22.44				
3	QPSK	1	14	22.28	22.45	22.42				
3	QPSK	8	0	22.35	22.65	22.38				
3	QPSK	8	4	22.32	22.43	22.39				
3	QPSK	8	7	22.26	22.39	22.38				
3	QPSK	15	0	22.39	22.49	22.45				
3	16QAM	1	0	22.29	22.47	22.34				
3	16QAM	1	8	22.25	22.35	22.25				
3	16QAM	1	14	22.32	22.40	22.33				
3	16QAM	8	0	22.32	22.42	22.22				
3	16QAM	8	4	22.32	22.39	22.38				
3	16QAM	8	7	22.27	22.39	22.27				
3	16QAM	15	0	22.33	22.58	22.39				
3	84QAM	1	0	22.28	22.49	22.40				
3	84QAM	1	8	22.22	22.25	22.28				
3	84QAM	1	14	22.24	22.27	22.16				
3	84QAM	8	0	21.38	21.48	21.38				
3	84QAM	8	4	21.26	21.28	21.32				
3	84QAM	8	7	21.13	21.22	21.21				
3	84QAM	15	0	21.52	21.59	21.45				
3	256QAM	1	0	18.47	18.54	18.40				
3	256QAM	1	8	18.37	18.61	18.37				
3	256QAM	1	14	18.39	18.39	18.27				
3	256QAM	8	0	18.37						



Band 38 Ant3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
30	QPSK	1	0	22.37	22.40	22.43	23.7	0		
30	QPSK	1	49	22.05	22.28	22.22	23.7	0		
30	QPSK	1	99	21.90	22.04	22.10	23.7	0		
30	QPSK	50	0	22.19	22.43	22.23	23.7	0		
30	QPSK	50	24	21.96	22.14	22.13	23.7	0		
30	QPSK	50	49	21.91	22.05	22.01	23.7	0		
30	QPSK	100	0	22.07	22.48	22.27	23.7	0		
30	HQAM	1	0	21.90	22.08	21.80	23.7	0		
30	HQAM	1	49	21.99	22.04	21.92	23.7	0		
30	HQAM	50	0	22.14	22.37	22.20	23.6	0.1		
30	HQAM	50	24	22.04	22.29	22.16	23.6	0.1		
30	HQAM	50	49	21.92	21.99	22.07	23.6	0.1		
30	HQAM	100	0	22.14	22.15	22.22	23.6	0.1		
30	HQAM	100	49	22.17	22.08	22.04	23.6	0.1		
30	HQAM	1	99	21.80	22.08	21.80	22.6	1.1		
30	HQAM	50	0	21.80	22.01	21.90	22.6	1.1		
30	HQAM	50	24	21.82	21.80	21.80	22.6	1.1		
30	HQAM	50	49	21.72	21.88	21.78	22.6	1.1		
30	HQAM	100	0	21.97	22.01	21.91	22.6	1.1		
30	25QAM	1	0	19.81	20.02	19.87	20.6	3.1		
30	25QAM	1	49	19.81	20.02	19.85	20.6	3.1		
30	25QAM	1	99	19.80	19.77	19.79	20.6	3.1		
30	25QAM	50	0	19.80	19.85	19.80	20.6	3.1		
30	25QAM	50	24	19.88	19.85	19.87	20.6	3.1		
30	25QAM	50	49	19.82	19.85	19.77	20.6	3.1		
30	25QAM	100	0	19.81	19.86	19.80	20.6	3.1		
Channel										
Frequency (MHz)										
15	QPSK	1	0	21.73	21.95	21.75	23.7	0		
15	QPSK	1	37	21.84	22.08	22.04	23.7	0		
15	QPSK	1	74	22.00	21.98	22.02	23.7	0		
15	QPSK	36	0	22.13	22.28	22.20	23.7	0		
15	QPSK	36	20	21.89	22.13	22.13	23.7	0		
15	QPSK	36	39	21.89	22.08	22.08	23.7	0		
15	QPSK	75	0	21.98	22.08	22.08	23.7	0		
15	HQAM	1	0	21.83	21.94	21.80	23.7	0		
15	HQAM	1	37	21.80	21.93	21.80	23.7	0		
15	HQAM	1	74	21.87	22.05	21.93	23.7	0		
15	HQAM	36	0	22.12	22.19	22.17	23.6	0.1		
15	HQAM	36	20	21.86	22.18	22.18	23.6	0.1		
15	HQAM	36	39	21.88	21.97	21.85	23.6	0.1		
15	HQAM	75	0	22.33	22.40	22.36	23.6	0.1		
15	HQAM	75	0	22.03	22.09	22.09	23.6	0.1		
15	HQAM	1	37	21.99	22.03	22.07	23.6	0.1		
15	HQAM	1	74	21.92	22.00	21.86	23.6	0.1		
15	HQAM	36	0	21.76	21.87	21.80	22.6	1.1		
15	HQAM	36	20	21.84	21.81	21.87	22.6	1.1		
15	HQAM	36	39	21.84	21.83	21.80	22.6	1.1		
15	HQAM	75	0	21.83	21.95	21.78	22.6	1.1		
15	25QAM	1	0	19.75	19.85	19.75	20.6	3.1		
15	25QAM	1	37	19.88	19.88	19.78	20.6	3.1		
15	25QAM	1	74	19.80	19.83	19.80	20.6	3.1		
15	25QAM	36	0	19.80	19.89	19.75	20.6	3.1		
15	25QAM	36	20	19.82	19.73	19.82	20.6	3.1		
15	25QAM	36	39	19.77	19.77	19.66	20.6	3.1		
15	25QAM	75	0	19.88	20.00	19.85	20.6	3.1		
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.75	21.95	21.75	23.7	0		
10	QPSK	1	25	22.00	22.08	22.07	23.7	0		
10	QPSK	1	49	21.90	21.95	21.90	23.7	0		
10	QPSK	12	0	21.80	22.03	22.03	23.7	0		
10	QPSK	25	12	21.85	22.04	21.85	23.7	0		
10	QPSK	25	25	21.80	22.13	21.80	23.7	0		
10	HQAM	1	0	21.85	21.83	21.84	23.7	0		
10	HQAM	1	25	22.02	21.86	22.06	23.7	0		
10	HQAM	1	49	22.00	21.88	21.80	23.7	0		
10	HQAM	25	0	21.93	22.18	22.17	23.6	0.1		
10	HQAM	25	12	22.08	22.08	22.00	23.6	0.1		
10	HQAM	25	25	21.73	22.01	21.88	23.6	0.1		
10	HQAM	50	0	22.25	22.40	22.18	23.6	0.1		
10	HQAM	1	0	22.00	22.01	22.14	23.6	0.1		
10	HQAM	1	25	22.19	21.93	22.03	23.6	0.1		
10	HQAM	1	49	21.84	22.04	21.91	23.6	0.1		
10	HQAM	25	0	21.70	21.81	21.80	22.6	1.1		
10	HQAM	25	12	21.78	21.81	21.87	22.6	1.1		
10	HQAM	25	25	21.84	21.75	21.84	22.6	1.1		
10	HQAM	50	0	21.86	21.91	21.88	22.6	1.1		
10	25QAM	1	0	19.73	19.91	19.75	20.6	3.1		
10	25QAM	1	25	19.74	19.88	19.72	20.6	3.1		
10	25QAM	1	49	19.87	19.84	19.75	20.6	3.1		
10	25QAM	25	0	19.76	19.85	19.73	20.6	3.1		
10	25QAM	25	12	19.85	19.70	19.80	20.6	3.1		
10	25QAM	25	25	19.78	19.81	19.85	20.6	3.1		
10	25QAM	50	0	19.84	20.05	19.85	20.6	3.1		
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.18	22.22	22.20	23.7	0		
5	QPSK	1	12	21.98	22.15	22.01	23.7	0		
5	QPSK	1	24	21.81	21.91	22.10	23.7	0		
5	QPSK	12	0	22.20	22.48	22.21	23.7	0		
5	QPSK	12	7	21.88	21.94	22.01	23.7	0		
5	QPSK	12	13	21.84	22.22	22.03	23.7	0		
5	HQAM	1	0	21.81	21.81	21.81	23.7	0		
5	HQAM	1	12	21.89	21.73	21.88	23.7	0		
5	HQAM	1	24	21.80	22.00	21.80	23.7	0		
5	HQAM	12	0	21.97	22.29	22.21	23.6	0.1		
5	HQAM	12	7	21.88	22.01	22.02	23.6	0.1		
5	HQAM	12	13	21.79	21.84	21.80	23.6	0.1		
5	HQAM	25	0	22.17	22.40	22.07	23.6	0.1		
5	HQAM	1	0	21.94	21.87	22.18	23.6	0.1		
5	HQAM	1	12	22.06	21.87	21.91	23.6	0.1		
5	HQAM	1	24	21.78	21.99	21.84	23.6	0.1		
5	HQAM	12	0	21.71	21.87	21.78	22.6	1.1		
5	HQAM	12	7	21.71	21.80	21.86	22.6	1.1		
5	HQAM	12	13	21.59	21.78	21.73	22.6	1.1		
5	HQAM	25	0	21.85	21.98	21.78	22.6	1.1		
5	25QAM	1	0	19.87	19.80	19.87	20.6	3.1		
5	25QAM	1	12	19.88	19.83	19.77	20.6	3.1		
5	25QAM	1	24	19.80	19.91	19.73	20.6	3.1		
5	25QAM	12	0	19.80	19.87	19.82	20.6	3.1		
5	25QAM	12	7	19.75	19.76	19.84	20.6	3.1		
5	25QAM	12	13	19.79	19.78	19.70	20.6	3.1		
5	25QAM	25	0	19.88	20.05	19.88	20.6	3.1		

Band 41_ Standalone FCC&C Ant3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.40	22.43	22.43	23.7	0		
20	QPSK	1	49	22.34	22.38	22.55	23.7	0		
20	QPSK	1	99	22.35	22.38	22.38	23.7	0		
20	QPSK	50	0	22.40	22.20	22.41	23.7	0		
20	QPSK	50	24	22.31	22.24	22.38	23.7	0		
20	QPSK	50	49	22.28	22.22	22.32	23.7	0		
20	QPSK	100	0	22.33	22.22	22.43	23.7	0		
20	HQAM	1	0	22.37	22.30	22.44	23.7	0		
20	HQAM	1	49	22.28	22.24	22.28	23.7	0		
20	HQAM	1	99	22.25	22.17	22.34	23.7	0		
20	HQAM	50	0	21.97	21.91	21.86	23.7	0		
20	HQAM	50	24	21.98	21.40	21.45	23.7	0		
20	HQAM	50	49	21.96	21.41	21.48	23.7	0		
20	HQAM	100	0	21.95	21.57	21.67	23.7	0		
20	HQAM	100	49	21.83	21.55	21.68	23.7	0		
20	HQAM	1	49	21.80	21.80	21.87	23.7	0		
20	HQAM	1	99	21.48	21.46	21.56	23.7	0		
20	HQAM	50	0	20.84	20.70	20.86	23.7	0		
20	HQAM	50	24	20.98	20.60	20.76	23.7	0		
20	HQAM	50	49	20.84	20.60	20.71	23.7	0		
20	HQAM	100	0	20.87	20.71	20.81	23.7	0		
20	25QAM	1	0	18.42	18.31	18.52	18.40	18.47		
20	25QAM	1	49	18.38	18.35	18.52	18.31	18.41		
20	25QAM	1	99	18.22	18.31	18.28	18.31	18.14		
20	25QAM	50	0	18.48	18.48	18.66	18.34	18.54		
20	25QAM	50	24	18.41	18.48	18.51	18.43	18.38		
20	25QAM	50	49	18.43	18.35	18.48	18.38	18.42		
20	25QAM	100	0	18.50	18.46	18.50	18.35	18.45		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.41	22.43	22.43	23.7	0		



Band 41 PC2_Standalone FCC&IC Ant3											
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel											
Frequency (MHz)											
50	QPSK	1	0	23.97	23.84	23.71	23.97	23.84	23.71	25.3	0
50	QPSK	1	45	23.79	23.65	23.51	23.89	23.75	23.61	25.3	0
50	QPSK	1	90	23.70	23.56	23.42	23.69	23.55	23.41	25.3	0
50	QPSK	50	0	23.58	23.45	23.32	23.64	23.51	23.38	25.3	0
50	QPSK	50	24	23.52	23.47	23.64	23.62	23.45	23.45	25.3	0
50	QPSK	50	48	23.57	23.57	23.57	23.57	23.57	23.57	25.3	0
50	QPSK	100	0	23.47	23.37	23.27	23.52	23.44	23.34	25.3	0
50	HQAM	1	0	23.74	23.64	23.54	23.82	23.72	23.62	25.3	0
50	HQAM	1	45	23.71	23.61	23.51	23.73	23.63	23.53	25.3	0
50	HQAM	1	90	23.82	23.69	23.57	23.71	23.59	23.47	25.3	0
50	HQAM	50	0	23.55	23.51	23.48	23.78	23.69	23.60	25.3	0
50	HQAM	50	24	23.49	23.54	23.59	23.62	23.45	23.45	25.3	0
50	HQAM	50	48	23.42	23.59	23.62	23.48	23.42	23.42	25.3	0
50	HQAM	100	0	23.54	23.54	23.54	23.55	23.49	23.49	25.3	0
50	HQAM	1	0	23.51	23.57	23.57	23.71	23.65	23.59	25.3	0
50	HQAM	1	45	23.68	23.73	23.86	23.75	23.58	23.58	25.3	0
50	HQAM	1	90	23.85	23.84	23.83	23.66	23.46	23.46	25.3	0
50	HQAM	50	0	23.75	23.87	23.92	23.79	23.70	23.70	25.3	0
50	HQAM	50	24	23.66	23.79	23.82	23.71	23.62	23.62	25.3	0
50	HQAM	50	48	23.50	23.60	23.70	23.67	23.61	23.61	25.3	0
50	HQAM	100	0	23.72	23.84	23.83	23.77	23.64	23.64	25.3	0
50	256QAM	1	0	22.23	22.32	22.45	22.29	22.23	22.23	23	2.3
50	256QAM	1	45	22.22	22.24	22.24	22.29	22.21	22.21	23	2.3
50	256QAM	1	90	22.06	22.17	22.21	22.21	22.17	22.17	23	2.3
50	256QAM	50	0	22.11	22.11	22.22	22.16	22.07	22.07	23	2.3
50	256QAM	50	24	22.05	22.06	22.06	22.12	22.09	22.09	23	2.3
50	256QAM	50	48	21.91	22.04	22.11	22.02	21.99	21.99	23	2.3
50	256QAM	100	0	22.02	22.02	22.02	22.02	22.02	22.02	23	2.3
Channel											
Frequency (MHz)											
15	QPSK	1	0	23.73	23.73	23.73	23.73	23.73	23.73	25	0
15	QPSK	1	37	23.74	23.81	23.81	23.80	23.81	23.81	25	0
15	QPSK	1	74	23.80	23.85	23.87	23.81	23.81	23.81	25	0
15	QPSK	36	0	23.49	23.87	23.87	23.58	23.48	23.48	25	0
15	QPSK	36	20	23.48	23.35	23.50	23.59	23.38	23.38	25	0
15	QPSK	36	40	23.45	23.45	23.45	23.45	23.45	23.45	25	0
15	QPSK	75	0	23.45	23.46	23.37	23.51	23.42	23.42	25	0
15	HQAM	1	0	23.68	23.82	23.89	23.77	23.69	23.69	25	0
15	HQAM	1	37	23.57	23.68	23.68	23.76	23.66	23.66	25	0
15	HQAM	1	74	23.51	23.61	23.63	23.62	23.47	23.47	25	0
15	HQAM	36	0	23.51	23.63	23.68	23.35	23.49	23.49	25	0
15	HQAM	36	20	23.44	23.47	23.47	23.62	23.33	23.33	25	0
15	HQAM	36	40	23.31	23.44	23.50	23.40	23.39	23.39	25	0
15	HQAM	75	0	23.40	23.60	23.75	23.51	23.37	23.37	25	0
15	HQAM	1	0	23.50	23.63	23.69	23.60	23.41	23.41	25	0
15	HQAM	1	37	23.59	23.82	23.84	23.65	23.55	23.55	25	0
15	HQAM	1	74	23.39	23.52	23.52	23.38	23.35	23.35	25	0
15	HQAM	36	0	23.67	23.57	23.62	23.76	23.67	23.67	25	0
15	HQAM	36	20	23.55	23.68	23.79	23.83	23.54	23.54	25	0.3
15	HQAM	36	40	23.46	23.60	23.60	23.56	23.47	23.47	25	0.3
15	HQAM	75	0	23.66	23.80	23.70	23.69	23.51	23.51	25	0.3
15	256QAM	1	0	22.13	22.20	22.31	22.16	22.12	22.12	23	2.3
15	256QAM	1	37	22.15	22.12	22.12	22.16	22.14	22.14	23	2.3
15	256QAM	1	74	22.00	22.00	22.18	22.18	22.06	22.06	23	2.3
15	256QAM	36	0	21.97	22.00	22.17	22.11	21.93	21.93	23	2.3
15	256QAM	36	20	21.84	22.05	22.16	22.06	21.85	21.85	23	2.3
15	256QAM	36	40	21.83	21.90	22.07	21.93	21.83	21.83	23	2.3
15	256QAM	75	0	21.88	22.08	22.22	22.01	21.85	21.85	23	2.3
Channel											
Frequency (MHz)											
10	QPSK	1	0	23.71	23.71	23.71	23.71	23.71	23.71	25	0
10	QPSK	1	25	23.71	23.81	23.77	23.81	23.61	23.61	25	0
10	QPSK	1	49	23.59	23.54	23.89	23.89	23.70	23.70	25	0
10	QPSK	25	0	23.40	23.51	23.51	23.51	23.48	23.48	25	0
10	QPSK	25	12	23.42	23.44	23.54	23.59	23.35	23.35	25	0
10	QPSK	25	25	23.31	23.40	23.51	23.42	23.30	23.30	25	0
10	QPSK	50	0	23.33	23.43	23.43	23.63	23.37	23.37	25	0
10	HQAM	1	0	23.66	23.71	23.93	23.71	23.66	23.66	25	0
10	HQAM	1	25	23.64	23.68	23.86	23.61	23.66	23.66	25	0
10	HQAM	1	49	23.56	23.60	23.70	23.57	23.48	23.48	25	0
10	HQAM	25	0	23.41	23.47	23.72	23.54	23.51	23.51	25	0
10	HQAM	25	12	23.41	23.48	23.56	23.36	23.31	23.31	25	0
10	HQAM	25	25	23.32	23.40	23.55	23.39	23.33	23.33	25	0
10	HQAM	50	0	23.44	23.48	23.78	23.53	23.41	23.41	25	0
10	HQAM	1	0	23.51	23.64	23.70	23.60	23.57	23.57	25	0
10	HQAM	1	25	23.64	23.68	23.86	23.61	23.66	23.66	25	0
10	HQAM	1	49	23.56	23.60	23.70	23.57	23.48	23.48	25	0
10	HQAM	25	0	23.41	23.47	23.72	23.54	23.51	23.51	25	0
10	HQAM	25	12	23.41	23.48	23.56	23.36	23.31	23.31	25	0
10	HQAM	25	25	23.32	23.40	23.55	23.39	23.33	23.33	25	0
10	HQAM	50	0	23.44	23.48	23.78	23.53	23.41	23.41	25	0
10	HQAM	1	0	23.51	23.64	23.70	23.60	23.57	23.57	25	0
10	HQAM	1	25	23.64	23.68	23.86	23.61	23.66	23.66	25	0
10	HQAM	1	49	23.56	23.60	23.70	23.57	23.48	23.48	25	0
10	HQAM	25	0	23.41	23.47	23.72	23.54	23.51	23.51	25	0
10	HQAM	25	12	23.41	23.48	23.56	23.36	23.31	23.31	25	0
10	HQAM	25	25	23.32	23.40	23.55	23.39	23.33	23.33	25	0
10	HQAM	50	0	23.44	23.48	23.78	23.53	23.41	23.41	25	0
10	HQAM	1	0	23.51	23.64	23.70	23.60	23.57	23.57	25	0
10	HQAM	1	25	23.64	23.68	23.86	23.61	23.66	23.66	25	0
10	HQAM	1	49	23.56	23.60	23.70	23.57	23.48	23.48	25	0
10	HQAM	25	0	23.41	23.47	23.72	23.54	23.51	23.51	25	0
10	HQAM	25	12	23.41	23.48	23.56	23.36	23.31	23.31	25	0
10	HQAM	25	25	23.32	23.40	23.55	23.39	23.33	23.33	25	0
10	HQAM	50	0	23.44	23.48	23.78	23.53	23.41	23.41	25	0
10	HQAM	1	0	23.51	23.64	23.70	23.60	23.57	23.57	25	0
10	HQAM	1	25	23.64	23.68	23.86	23.61	23.66	23.66	25	0
10	HQAM	1	49	23.56	23.60	23.70	23.57	23.48	23.48	25	0
10	HQAM	25	0	23.41	23.47	23.72	23.54	23.51	23.51	25	0
10	HQAM	25	12	23.41	23.48	23.56	23.36	23.31	23.31	25	0
10	HQAM	25	25	23.32	23.40	23.55	23.39	23.33	23.33	25	0
10	HQAM	50	0	23.44	23.48	23.78	23.53	23.41	23.41	25	0
10	HQAM	1	0	23.51	23.64	23.70	23.60	23.57	23.57	25	0
10	HQAM	1	25	23.64	23.68	23.86	23.61	23.66			



Reduced Power Mode for DS16-Simultaneous

CDMA2000 2B									
Mode	Burst Average Power (dBm)			Frame Average Power (dBm)					
TX Channel	198	199	201	198	199	201			
Frequency (MHz)	895.2	895.4	895.6	895.2	895.4	895.6			
OPRS-1 Tx (dB)	32.96	32.57	32.84	33.50	23.90	23.97	23.84		
OPRS-2 Tx (dB)	25.50	25.41	25.26	30.50	23.30	23.41	23.26		
OPRS-3 Tx (dB)	28.01	28.50	28.86	30.00	24.65	24.72	24.60		
EDGE-1 Tx (dB)	25.42	25.40	25.37	28.00	18.42	18.40	18.37		
EDGE-2 Tx (dB)	22.77	22.80	22.70	25.00	17.77	17.80	17.70		
EDGE-3 Tx (dB)	22.86	22.60	22.62	23.50	18.40	18.43	18.38		
EDGE-4 Tx (dB)	20.50	20.63	20.60	21.50	17.59	17.63	17.60		
CDMA2000 1X									
Mode	Burst Average Power (dBm)			Frame Average Power (dBm)					
TX Channel	199.2	199.0	199.8	199.2	199.0	199.8			
Frequency (MHz)	915.2	915.0	915.8	915.2	915.0	915.8			
OPRS-1 Tx (dB)	27.54	27.63	27.58	28.50	18.54	18.63	18.58		
OPRS-2 Tx (dB)	24.84	24.84	24.83	28.00	18.84	18.84	18.83		
OPRS-3 Tx (dB)	23.30	23.30	23.30	24.50	19.07	19.07	19.07		
OPRS-4 Tx (dB)	20.70	20.70	20.68	21.50	17.70	17.75	17.68		
EDGE-1 Tx (dB)	22.76	22.61	22.73	25.50	18.70	18.87	18.73		
EDGE-2 Tx (dB)	21.00	21.10	21.11	22.00	15.00	15.10	15.00		
EDGE-3 Tx (dB)	24.00	24.12	24.04	21.00	18.41	18.56	18.38		
EDGE-4 Tx (dB)	17.06	18.00	18.04	19.00	14.96	15.00	15.04		
WCDMA 2B (Rev. 3)									
Mode	MCDMA 2B			WCDMA 4B (Rev. 3)			WCDMA 5B (Rev. 3)		
TX Channel	9582	9600	9598	14192	14193	14193	14192	14192	14193
Frequency (MHz)	1852.4	1860	1867.6	14192.4	14192.6	14192.8	14192.4	14192.6	14192.8
OPRS-1 (dB)	20.57	20.65	20.53	22.00	20.30	20.47	20.30	22.00	22.43
OPRS-2 (dB)	19.72	19.76	19.70	21.00	19.59	19.68	19.50	21.00	21.55
OPRS-3 (dB)	19.06	19.71	19.65	21.00	19.00	19.50	19.52	21.00	21.46
OPRS-4 (dB)	19.19	19.25	19.23	20.50	19.00	19.11	19.08	20.50	21.01
OPRS-5 (dB)	19.15	19.20	19.21	20.50	18.96	19.10	19.05	20.50	20.98
OPRS-6 (dB)	19.70	19.65	19.64	21.00	19.54	19.68	19.48	21.00	21.55
OPRS-7 (dB)	19.06	19.50	19.41	21.00	19.38	19.40	19.32	21.00	21.34
OPRS-8 (dB)	19.08	19.12	19.05	20.50	19.92	19.93	19.89	20.50	20.95
OPRS-9 (dB)	19.02	19.15	19.12	20.50	18.90	18.99	19.61	20.50	20.89
OPRS-10 (dB)	19.86	19.71	19.70	21.00	19.93	19.83	19.81	21.00	21.63
OPRS-11 (dB)	17.71	17.73	17.84	19.00	17.54	17.60	17.51	19.00	19.67
OPRS-12 (dB)	18.66	18.24	18.70	21.00	18.52	18.80	18.58	21.00	21.52
OPRS-13 (dB)	17.61	17.60	17.57	19.00	17.44	17.51	17.48	19.00	19.45
OPRS-14 (dB)	19.84	19.60	19.52	21.00	19.63	19.48	19.38	21.00	21.55



Band 2 Default Ant0										
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Time-up (min)	MPR (dB)		
Channel	Ch. 1 (Freq)	Ch. 2 (Freq)	Ch. 3 (Freq)	Ch. 4 (Freq)	Ch. 5 (Freq)	Ch. 6 (Freq)				
Frequency (MHz)										
20	QPSK	1	0	23.11	23.16	23.07				
20	QPSK	1	0	23.03	23.08	22.99				
20	QPSK	1	99	22.99	23.07	22.97			24	0
20	QPSK	50	0	22.98	23.13	23.05				
20	QPSK	50	24	23.24	23.08	23.02				
20	QPSK	50	99	22.92	23.04	22.96			24	0
20	QPSK	100	0	22.99	23.05	22.91				
20	QPSK	100	24	22.95	23.02	22.88				
20	16QAM	1	49	22.85	22.98	22.90			24	0
20	16QAM	1	99	22.70	22.85	22.80				
20	16QAM	50	0	22.82	22.92	22.84				
20	16QAM	50	24	22.34	22.48	22.34			23.5	0.5
20	16QAM	50	99	22.36	22.42	22.27				
20	16QAM	100	0	22.39	22.47	22.27				
20	16QAM	100	24	22.72	22.82	22.72				
20	16QAM	1	49	22.68	22.76	22.67			23.5	0.5
20	16QAM	1	99	22.58	22.68	22.58				
20	16QAM	50	0	21.84	21.71	21.67				
20	16QAM	50	24	21.46	21.56	21.50			22.5	1.5
20	16QAM	50	99	21.42	21.48	21.33				
20	16QAM	100	0	21.43	21.52	21.38				
20	16QAM	100	24	19.87	19.89	19.85				
20	16QAM	1	49	19.82	19.88	19.80			20.5	3.5
20	256QAM	1	99	19.86	19.82	19.57				
20	256QAM	50	24	19.85	19.86	19.85				
20	256QAM	50	99	19.80	19.73	19.63			20.5	3.5
20	256QAM	50	24	19.70	19.81	19.78				
20	256QAM	100	0	19.70	19.87	19.87				
Channel										
15	QPSK	1	0	18.97	18.90	18.95				
15	QPSK	1	99	18.97	18.90	18.95				
15	QPSK	50	0	23.03	23.14	23.06				
15	QPSK	50	24	22.79	22.96	22.91			24	0
15	QPSK	96	0	22.87	23.05	23.01				
15	QPSK	96	24	22.81	23.06	22.97				
15	QPSK	36	39	22.87	22.98	22.82			24	0
15	QPSK	75	0	22.91	23.00	22.91				
15	16QAM	1	49	22.90	22.79	22.79				
15	16QAM	1	99	22.77	22.88	22.83			24	0
15	16QAM	1	74	22.80	22.85	22.85				
15	16QAM	50	0	22.90	22.95	22.46				
15	16QAM	50	24	22.20	22.37	22.28			23.5	0.5
15	16QAM	50	99	22.22	22.31	22.26				
15	16QAM	100	0	22.21	22.37	22.28				
15	16QAM	100	24	21.76	21.91	21.76			22.5	1.5
15	16QAM	100	99	21.75	21.73	21.50				
15	16QAM	1	49	19.74	19.88	19.85			20.5	3.5
15	256QAM	1	99	19.77	19.78	19.72				
15	256QAM	50	24	19.78	19.80	19.73			20.5	3.5
15	256QAM	50	99	19.72	19.74	19.74				
15	256QAM	100	0	19.70	19.83	19.83				
Channel										
10	QPSK	1	0	20.05	20.17	20.05				
10	QPSK	1	99	17.75	17.92	17.47				
10	QPSK	1	0	23.02	23.14	23.06				
10	QPSK	1	74	22.86	22.96	22.86			24	0
10	QPSK	36	0	22.87	23.05	23.01				
10	QPSK	36	39	22.81	23.05	22.82				
10	QPSK	75	0	22.95	23.04	22.92			24	0
10	16QAM	1	49	22.83	23.14	22.72				
10	16QAM	1	99	22.72	22.87	22.82			24	0
10	16QAM	50	0	22.84	22.97	22.84				
10	16QAM	50	24	22.62	22.84	22.67			23.5	0.5
10	16QAM	50	99	22.59	22.70	22.68				
10	16QAM	100	0	22.62	22.96	22.68			23.5	0.5
10	16QAM	100	24	22.62	22.81	22.68				
10	16QAM	1	49	22.59	22.84	22.66			23.5	0.5
10	16QAM	1	99	22.57	22.90	22.68				
10	16QAM	50	0	22.50	22.73	22.57			22.5	1.5
10	16QAM	50	24	21.71	21.91	21.66				
10	16QAM	50	99	21.74	21.78	21.63				
10	16QAM	100	0	21.68	21.84	21.63			22.5	1.5
10	16QAM	100	24	19.87	19.89	19.87				
10	16QAM	1	49	19.74	19.81	19.79			20.5	3.5
10	256QAM	1	74	19.65	19.73	19.63				
10	256QAM	50	24	19.66	19.67	19.66			20.5	3.5
10	256QAM	50	99	19.61	19.64	19.71				
10	256QAM	100	0	19.62	19.64	19.64				
Channel										
5	QPSK	1	0	17.15	17.23	17.20				
5	QPSK	1	99	22.82	22.98	23.01			24	0
5	QPSK	15	25	22.82	22.98	23.01				
5	QPSK	1	49	22.76	22.96	22.92				
5	QPSK	25	12	22.89	23.04	22.94			24	0
5	QPSK	25	25	22.86	22.90	22.89				
5	QPSK	75	0	22.91	23.00	22.91				
5	16QAM	1	49	22.80	22.90	22.80			24	0
5	16QAM	1	99	22.62	22.87	22.85				
5	16QAM	50	0	22.59	22.78	22.68			23.5	0.5
5	16QAM	50	24	22.57	22.69	22.66				
5	16QAM	50	99	22.52	22.65	22.62				
5	16QAM	100	0	22.52	22.73	22.74			23.5	0.5
5	16QAM	100	24	21.76	21.88	21.72				
5	16QAM	1	49	21.50	21.75	21.63			22.5	1.5
5	16QAM	1	99	21.54	21.80	21.68				
5	16QAM	50	0	21.60	21.84	21.61				
5	16QAM	50	24	19.81	19.84	19.62			20.5	3.5
5	16QAM	50	99	19.82	19.87	19.86				
5	16QAM	100	0	19.86	19.89	19.64			20.5	3.5
5	16QAM	100	24	19.85	19.81	19.64				
5	256QAM	1	24	19.72	19.83	19.66			20.5	3.5
5	256QAM	50	24	19.88	19.79	19.61				
5	256QAM	50	99	19.72	19.74	19.67			20.5	3.5
5	256QAM	100	0	19.84	19.77	19.63				
Channel										
3	QPSK	1	0	16.65	16.73	16.66				
3	QPSK	1	99	17.15	17.23	17.23				
3	QPSK	1	0	22.80	23.04	23.07			24	0
3	QPSK	1	14	22.80	23.01	22.95				
3	QPSK	15	25	22.86	23.02	22.90			24	0
3	QPSK	8	7	22.92	22.98	22.81				
3	QPSK	12	7	22.87	23.05	23.04			24	0
3	QPSK	12	13	22.88	22.83	22.80				
3	QPSK	75	0	22.91	23.08	22.92				
3	16QAM	1	49	22.90	23.01	22.74			24	0
3	16QAM	1	99	22.72	22.84	22.78				
3	16QAM	50	0	22.73	22.78	22.72				
3	16QAM	50	24	22.52	22.85	22.66			23.5	0.5
3	16QAM	50	99	22.52	22.71	22.68				
3	16QAM	100	0	22.73	22.83	22.68			23.5	0.5
3	16QAM	100	24	22.75	22.79	22.73				
3	16QAM	1	49	22.50	22.68	22.59			22.5	1.5
3	16QAM	1	99	22.48	22.67	22.61				
3	16QAM	50	0	22.42	22.64	22.54				
3	16QAM	50	24	21.78	21.97	21.73			22.5	1.5
3	16QAM	50	99	21.77	21.84	21.61				
3	16QAM	100	0	21.67	21.88	21.70			20.5	3.5
3	16QAM	100	24	19.82	19.74	19.61				
3	256QAM	1	24	19.72	19.83	19.66			20.5	3.5
3	256QAM	50	24	19.88	19.79	19.61				
3	256QAM	50	99	19.72	19.74	19.67			20.5	3.5
3	256QAM	100	0	19.84	19.77	19.63				
Channel										
1.4	QPSK	1	0	22.15	22.22	22.15				
1.4	QPSK	1	99	22.89	23.02	22.92			24	0
1.4	QPSK	3	0	22.89	23.05	22.94				
1.4	QPSK	3	1	22.85	23.01	22.94			24	0
1.4	QPSK	3	1	22.85	23.04	22.84				
1.4	QPSK	3	7	22.76	22.96	22.86			24	0
1.4	QPSK	3	14	22.84	23.02	22.90				
1.4	16QAM	1	0	22.80	22.90	22.87				
1.4	16QAM	1	99	22.65	22.83	22.80			24	0
1.4	16QAM	3	0	22.83	22.96	22.79				
1.4	16QAM	3	1	22.81	22.77	22.73			23.5	0.5
1.4	16QAM	3	7	22.51	22.72	22.75				
1.4	16QAM	3	14	22.52	22.80	22.71			23.5	0.5
1.4	16QAM	15	0	22.59	22.74	22.65				
1.4	16QAM	15	1	22.51	22.62	22.58			23.5	0.5
1.4	16QAM	3	0	22.35	22.45	22.40				
1.4	16QAM	3	1	22.35	22.40	22.40		</		



Band 25 Default Ant0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Time-up limit (sec)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.16	23.21	23.18				
20	QPSK	1	49	23.03	23.03	23.03	24	0		
20	QPSK	1	99	22.97	23.01	23.03				
20	QPSK	50	0	23.00	23.15	23.05				
20	QPSK	24	0	22.85	23.03	22.95				
20	QPSK	50	50	22.88	22.99	22.88	24	0		
20	QPSK	100	0	22.91	23.01	22.92				
20	HQAM	1	0	22.86	22.99	22.91				
20	HQAM	1	49	22.94	22.99	22.95	24	0		
20	HQAM	1	99	22.81	22.87	22.80				
20	HQAM	50	0	22.79	22.93	22.83				
20	HQAM	50	24	22.75	22.80	22.75	23.5	0.5		
20	HQAM	50	50	22.81	22.72	22.70				
20	HQAM	100	0	22.82	22.89	22.81				
20	HQAM	1	0	22.86	23.05	22.91				
20	HQAM	1	49	22.79	22.96	22.87	23.5	0.5		
20	HQAM	50	0	21.82	21.95	21.79				
20	HQAM	50	24	21.78	21.79	21.74	22.5	1.5		
20	HQAM	100	0	21.73	21.92	21.75				
20	HQAM	1	0	19.69	19.64	19.69				
20	HQAM	1	49	19.79	19.90	19.83	20.5	3.5		
20	HQAM	1	99	19.77	19.85	19.78				
20	HQAM	50	0	19.78	19.87	19.87				
20	HQAM	50	24	19.77	19.90	19.74	20.5	3.5		
20	HQAM	100	0	19.70	19.74	19.71				
20	HQAM	100	0	19.62	19.74	19.62				
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.05	23.13	23.04				
15	QPSK	1	37	22.99	23.00	22.97	24	0		
15	QPSK	1	74	22.84	22.90	22.87				
15	QPSK	36	0	22.84	23.01	22.85				
15	QPSK	20	0	22.82	22.98	22.88	24	0		
15	QPSK	36	36	22.84	22.95	22.76				
15	QPSK	75	0	22.81	22.98	22.79				
15	HQAM	1	0	22.82	22.98	22.84				
15	HQAM	1	37	22.81	22.87	22.85	24	0		
15	HQAM	1	74	22.66	22.76	22.67				
15	HQAM	36	0	22.70	22.81	22.75	23.5	0.5		
15	HQAM	36	20	22.68	22.66	22.62				
15	HQAM	36	50	22.73	22.85	22.72				
15	HQAM	75	0	22.49	22.83	22.55				
15	HQAM	1	0	22.74	22.80	22.77	23.5	0.5		
15	HQAM	1	37	22.73	22.82	22.75				
15	HQAM	1	74	22.70	22.85	22.75				
15	HQAM	36	0	21.74	21.85	21.65				
15	HQAM	36	20	21.73	21.68	21.67	22.5	1.5		
15	HQAM	36	50	21.69	21.70	21.59				
15	HQAM	75	0	19.76	19.86	19.66				
15	HQAM	1	0	19.75	19.79	19.79	20.5	3.5		
15	HQAM	1	37	19.67	19.70	19.73				
15	HQAM	50	0	19.78	19.83	19.83				
15	HQAM	50	24	19.69	19.87	19.60	20.5	3.5		
15	HQAM	100	0	19.67	19.70	19.61				
15	HQAM	100	0	19.65	19.65	19.65				
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.03	23.09	23.07				
10	QPSK	1	25	22.94	22.92	22.98	24	0		
10	QPSK	1	49	22.90	22.95	22.90				
10	QPSK	25	0	22.87	22.90	22.83	24	0		
10	QPSK	25	12	22.87	22.80	22.83				
10	QPSK	25	25	22.84	22.85	22.71				
10	HQAM	1	0	22.80	22.95	22.83				
10	HQAM	1	25	22.81	22.91	22.88	24	0		
10	HQAM	1	49	22.66	22.76	22.67				
10	HQAM	25	0	22.74	22.80	22.75				
10	HQAM	25	12	22.62	22.68	22.67	23.5	0.5		
10	HQAM	25	25	22.62	22.62	22.62				
10	HQAM	50	0	22.57	22.60	22.54				
10	HQAM	1	0	22.62	22.91	22.85	23.5	0.5		
10	HQAM	1	25	22.61	22.88	22.80				
10	HQAM	1	49	22.72	22.76	22.71				
10	HQAM	25	0	21.79	21.84	21.88				
10	HQAM	25	12	21.79	21.78	21.67	22.5	1.5		
10	HQAM	25	25	21.66	21.77	21.61				
10	HQAM	50	0	21.62	21.56	21.52				
10	HQAM	1	0	19.68	19.73	19.68	20.5	3.5		
10	HQAM	1	49	19.74	19.79	19.68				
10	HQAM	25	0	19.83	19.81	19.87				
10	HQAM	25	12	19.71	19.83	19.68	20.5	3.5		
10	HQAM	25	25	19.65	19.61	19.60				
10	HQAM	50	0	19.65	19.67	19.63				
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.02	23.07	23.05				
5	QPSK	1	12	22.95	22.92	23.03	24	0		
5	QPSK	1	24	22.88	22.90	22.95				
5	QPSK	12	0	22.86	23.04	22.95				
5	QPSK	12	7	22.88	23.00	22.84	24	0		
5	QPSK	12	13	22.77	22.88	22.79				
5	QPSK	25	0	22.77	22.81	22.76				
5	HQAM	1	0	22.88	23.04	22.88				
5	HQAM	1	12	22.88	22.90	22.87	24	0		
5	HQAM	1	24	22.67	22.77	22.53				
5	HQAM	12	0	22.70	22.84	22.73				
5	HQAM	12	7	22.71	22.70	22.63	23.5	0.5		
5	HQAM	12	13	22.61	22.60	22.66				
5	HQAM	25	0	22.85	22.62	22.61				
5	HQAM	1	0	22.78	22.98	22.88	23.5	0.5		
5	HQAM	1	12	22.71	22.82	22.81				
5	HQAM	1	24	22.85	22.69	22.78				
5	HQAM	12	0	21.78	21.84	21.70				
5	HQAM	12	7	21.79	21.65	21.70	22.5	1.5		
5	HQAM	12	13	21.68	21.79	21.68				
5	HQAM	25	0	21.60	21.54	21.60				
5	HQAM	1	0	19.75	19.86	19.86	20.5	3.5		
5	HQAM	1	12	19.71	19.82	19.75				
5	HQAM	1	24	19.68	19.76	19.74				
5	HQAM	12	0	19.78	19.85	19.84				
5	HQAM	12	7	19.68	19.78	19.59	20.5	3.5		
5	HQAM	12	13	19.61	19.64	19.64				
5	HQAM	25	0	19.57	19.64	19.54				
Channel										
Frequency (MHz)										
3	QPSK	1	0	23.02	23.15	23.13				
3	QPSK	1	8	22.86	22.95	22.86	24	0		
3	QPSK	1	14	22.94	22.93	22.90				
3	QPSK	8	0	22.84	23.05	22.95				
3	QPSK	8	4	22.80	22.97	22.81	24	0		
3	QPSK	8	7	22.75	22.86	22.78				
3	QPSK	15	0	22.83	22.96	22.80				
3	HQAM	1	0	22.84	23.02	22.85				
3	HQAM	1	8	22.89	22.86	22.87	24	0		
3	HQAM	1	14	22.77	22.75	22.66				
3	HQAM	8	0	22.66	22.87	22.79	23.5	0.5		
3	HQAM	8	4	22.65	22.65	22.67				
3	HQAM	8	7	22.67	22.68	22.60				
3	HQAM	15	0	22.48	22.60	22.53				
3	HQAM	1	0	22.75	22.92	22.84	23.5	0.5		
3	HQAM	1	8	22.66	22.91	22.76				
3	HQAM	1	14	22.65	22.72	22.69				
3	HQAM	8	0	21.68	21.87	21.64				
3	HQAM	8	4	21.67	21.68	21.62	22.5	1.5		
3	HQAM	8	7	21.61	21.74	21.57				
3	HQAM	15	0	19.76	19.96	19.83				
3	HQAM	1	0	19.69	19.85	19.77	20.5	3.5		
3	HQAM	1	8	19.63	19.72	19.69				
3	HQAM	8	0	19.76	19.83	19.81				
3	HQAM	8	4	19.68	19.83	19.60	20.5	3.5		
3	HQAM	8	7	19.63	19.71	19.68				
3	HQAM	15	0	19.50	19.61	19.51				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	23.12	23.12	23.15				
1.4	QPSK	1	3	22.86	22.97	23.05	24	0		
1.4	QPSK	1	5	22.92	22.93	22.96				
1.4	QPSK	3	0	22.85	23.00	22.87				
1.4	QPSK	3	1	22.81	22.87	22.82				
1.4	QPSK	3	2	22.81	22.84	22.71	24	0		
1.4	QPSK	8	0	22.80	22.86	22.80				
1.4	HQAM	1	0	22.92	23.04	22.83				
1.4	HQAM	1	3	22.87	22.97	22.87	24	0		
1.4	HQAM	1	5	22.84	23.00	22.81				
1.4	HQAM	3	0	22.78	22.89	22.78				
1.4	HQAM	3	1	22.85	22.96	22.86				
1.4	HQAM	3	3	22.80	23.03	22.79				
1.4	HQAM	8	0	22.70	22.67	22.69	23.5	0.5		
1.4	HQAM	1	0	22.67	22.62	22.67				
1.4	HQAM	1	3	22.57	22.60	22.55				
1.4	HQAM	1	5	22.70	22.76	22.67	23.5	0.5		
1.4	HQAM	3	0	22.67	22.66	22.64				



Band 66 Default Ant0										
BM [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-up limit (dB)	MPE (dB)		
Channel										
	Frequency (MHz)			1790	1745	1770				
20	QPSK	1	0	23.17	23.22	23.14				
20	QPSK	1	49	22.98	23.11	22.93	24	0		
20	QPSK	1	99	23.02	23.02	22.90				
20	QPSK	50	0	22.96	23.18	23.07				
20	QPSK	50	24	22.92	23.08	22.99	24	0		
20	QPSK	50	50	22.85	22.98	22.92				
20	QPSK	100	0	22.88	23.01	22.91				
20	HQAM	1	0	22.80	23.10	22.96				
20	HQAM	1	49	22.87	23.01	22.91	24	0		
20	HQAM	1	99	22.83	22.89	22.86				
20	HQAM	50	0	22.81	22.97	22.92				
20	HQAM	50	24	22.80	22.85	22.83	23.5	0.5		
20	HQAM	50	50	22.86	22.87	22.87				
20	HQAM	100	0	22.48	22.99	22.84				
20	HQAM	1	0	22.85	22.78	22.84				
20	HQAM	1	49	22.49	22.87	22.84	23.5	0.5		
20	HQAM	1	99	22.81	22.89	22.80				
20	HQAM	50	0	21.89	21.90	21.71				
20	HQAM	50	24	21.83	21.77	21.77	22.5	1.5		
20	HQAM	50	50	21.83	21.78	21.81				
20	HQAM	100	0	21.57	21.82	21.58				
20	HQAM	1	0	18.86	18.87	18.83				
20	HQAM	1	49	18.89	18.92	18.84	20.5	3.5		
20	HQAM	1	99	18.81	18.84	18.83				
20	HQAM	50	0	18.78	18.86	18.80				
20	HQAM	50	24	18.78	18.86	18.74	20.5	3.5		
20	HQAM	50	50	18.89	18.77	18.73				
20	HQAM	100	0	18.77	18.76	18.78				
Channel										
	Frequency (MHz)			13297	13222	13297	Turn-up limit (dB)	MPE (dB)		
15	QPSK	1	0	23.08	23.18	23.02				
15	QPSK	1	37	22.95	23.05	22.94	24	0		
15	QPSK	1	74	22.89	22.87	22.84				
15	QPSK	36	0	22.87	23.10	23.02				
15	QPSK	36	24	22.82	23.00	22.82	24	0		
15	QPSK	36	39	22.78	22.87	22.78				
15	HQAM	1	0	22.82	22.91	22.82				
15	HQAM	1	37	22.75	22.74	22.85	24	0		
15	HQAM	36	0	22.49	22.71	22.60				
15	HQAM	36	20	22.57	22.60	22.60	23.5	0.5		
15	HQAM	36	39	22.44	22.45	22.44				
15	HQAM	75	0	22.41	22.45	22.44				
15	HQAM	1	0	22.47	22.82	22.57	23.5	0.5		
15	HQAM	1	37	22.51	22.89	22.84				
15	HQAM	1	74	22.45	22.52	22.38				
15	HQAM	36	0	21.59	21.88	21.61	22.5	1.5		
15	HQAM	36	24	21.51	21.68	21.67				
15	HQAM	36	39	21.50	21.60	21.52				
15	HQAM	75	0	21.48	21.50	21.51				
15	HQAM	1	0	18.78	18.86	18.80				
15	HQAM	1	37	18.82	18.89	18.78	20.5	3.5		
15	HQAM	1	74	18.75	18.76	18.77				
15	HQAM	36	0	18.86	18.86	18.80				
15	HQAM	36	20	18.73	18.73	18.60	20.5	3.5		
15	HQAM	36	39	18.58	18.89	18.63				
15	HQAM	75	0	18.63	18.61	18.58				
Channel										
	Frequency (MHz)			13292	13222	13292	Turn-up limit (dB)	MPE (dB)		
10	QPSK	1	0	23.05	23.10	23.03				
10	QPSK	1	25	22.94	23.02	22.89	24	0		
10	QPSK	1	49	22.88	22.96	22.82				
10	QPSK	36	0	22.84	23.07	22.91				
10	QPSK	36	12	22.80	23.01	22.85	24	0		
10	QPSK	36	25	22.81	22.87	22.86				
10	HQAM	1	0	22.74	22.86	22.84				
10	HQAM	1	25	22.68	23.07	22.85	24	0		
10	HQAM	36	0	22.81	22.83	22.80				
10	HQAM	36	12	22.76	22.76	22.85	23.5	0.5		
10	HQAM	36	25	22.57	22.76	22.55				
10	HQAM	75	0	22.51	22.59	22.59				
10	HQAM	25	0	22.52	22.56	22.44				
10	HQAM	50	0	22.35	22.53	22.41				
10	HQAM	1	0	22.45	22.88	22.67	23.5	0.5		
10	HQAM	1	25	22.41	22.52	22.42				
10	HQAM	1	49	22.43	22.52	22.43				
10	HQAM	25	0	21.56	21.75	21.61	22.5	1.5		
10	HQAM	25	12	21.57	21.68	21.67				
10	HQAM	25	25	21.54	21.57	21.57				
10	HQAM	50	0	21.42	21.52	21.44				
10	HQAM	1	0	18.78	18.86	18.81				
10	HQAM	1	25	18.79	18.82	18.80	20.5	3.5		
10	HQAM	1	49	18.73	18.76	18.77				
10	HQAM	25	0	18.71	18.87	18.74				
10	HQAM	25	12	18.75	18.81	18.63	20.5	3.5		
10	HQAM	25	25	18.50	18.85	18.63				
10	HQAM	50	0	18.63	18.67	18.63				
Channel										
	Frequency (MHz)			13197	13222	13297	Turn-up limit (dB)	MPE (dB)		
5	QPSK	1	0	23.03	23.14	23.03				
5	QPSK	1	12	22.89	23.01	22.84	24	0		
5	QPSK	1	24	22.91	22.99	22.81				
5	QPSK	12	0	22.85	23.11	23.05				
5	QPSK	12	7	22.79	22.98	22.85	24	0		
5	QPSK	12	13	22.76	22.89	22.83				
5	QPSK	25	0	22.84	22.98	22.87				
5	HQAM	1	0	22.72	22.98	22.82	24	0		
5	HQAM	1	12	22.80	22.90	22.76				
5	HQAM	1	24	22.75	22.96	22.85				
5	HQAM	12	0	22.47	22.74	22.63	23.5	0.5		
5	HQAM	12	7	22.57	22.81	22.59				
5	HQAM	12	13	22.43	22.52	22.51				
5	HQAM	25	0	22.37	22.53	22.48				
5	HQAM	1	0	22.48	22.72	22.67	23.5	0.5		
5	HQAM	1	12	22.45	22.44	22.46				
5	HQAM	1	24	22.39	22.51	22.44				
5	HQAM	12	0	21.63	21.80	21.61	22.5	1.5		
5	HQAM	12	7	21.51	21.67	21.59				
5	HQAM	12	13	21.58	21.67	21.58				
5	HQAM	25	0	21.51	21.63	21.60				
5	HQAM	1	0	18.78	18.91	18.86				
5	HQAM	1	12	18.77	18.84	18.80	20.5	3.5		
5	HQAM	1	24	18.71	18.76	18.76				
5	HQAM	12	0	18.72	18.83	18.71				
5	HQAM	12	7	18.71	18.72	18.68	20.5	3.5		
5	HQAM	12	13	18.65	18.86	18.61				
5	HQAM	25	0	18.62	18.61	18.61				
Channel										
	Frequency (MHz)			13187	13222	13297	Turn-up limit (dB)	MPE (dB)		
3	QPSK	1	0	23.03	23.14	23.03				
3	QPSK	1	8	22.89	23.00	22.83	24	0		
3	QPSK	1	14	22.98	22.89	22.75				
3	QPSK	8	0	22.87	23.02	23.03				
3	QPSK	8	4	22.89	23.04	22.85	24	0		
3	QPSK	8	7	22.78	22.83	22.83				
3	QPSK	15	0	22.78	22.90	22.85				
3	HQAM	1	0	22.78	23.07	22.84	24	0		
3	HQAM	1	8	22.82	22.98	22.87				
3	HQAM	1	14	22.78	22.85	22.82				
3	HQAM	8	0	22.56	22.73	22.63	23.5	0.5		
3	HQAM	8	4	22.54	22.52	22.49				
3	HQAM	8	7	22.42	22.47	22.52				
3	HQAM	15	0	22.43	22.48	22.51				
3	HQAM	1	0	22.47	22.69	22.60	23.5	0.5		



Band 38 Ant0										
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)										
30	QPSK	1	0	20.97	20.95	20.93	22	0		
30	QPSK	1	49	20.48	20.43	20.40	22	0		
30	QPSK	1	99	20.47	20.43	20.40	22	0		
30	QPSK	50	0	20.47	20.50	20.53	22	0		
30	QPSK	50	24	20.38	20.50	20.42	22	0		
30	QPSK	50	49	20.38	20.50	20.42	22	0		
30	QPSK	100	0	20.37	20.52	20.53	22	0		
30	HQAM	1	0	20.46	20.57	20.59	22	0		
30	HQAM	1	49	20.36	20.56	20.53	22	0		
30	HQAM	1	99	20.29	20.53	20.40	22	0		
30	HQAM	50	0	20.08	20.52	20.04	21.5	0.5		
30	HQAM	50	24	20.10	20.56	20.46	21.5	0.5		
30	HQAM	50	49	19.97	20.53	19.96	21.5	0.5		
30	HQAM	100	0	19.92	20.51	20.50	21.5	0.5		
30	HQAM	100	0	20.03	20.55	20.55	21.5	0.5		
30	HQAM	1	49	19.94	20.04	20.10	20.5	1.5		
30	HQAM	1	99	20.10	20.01	20.00	20.5	1.5		
30	HQAM	50	0	19.88	20.04	19.95	20.5	1.5		
30	HQAM	50	24	19.83	19.90	19.89	20.5	1.5		
30	HQAM	50	49	19.82	19.89	19.83	20.5	1.5		
30	HQAM	100	0	19.85	19.88	19.79	20.5	1.5		
30	25QAM	1	0	17.91	18.08	17.94	18.5	3.5		
30	25QAM	1	49	17.82	17.93	17.92	18.5	3.5		
30	25QAM	1	99	17.86	17.86	17.87	18.5	3.5		
30	25QAM	50	0	17.84	17.89	17.87	18.5	3.5		
30	25QAM	50	24	17.80	17.85	17.80	18.5	3.5		
30	25QAM	50	49	17.77	17.87	17.81	18.5	3.5		
30	25QAM	100	0	17.80	17.83	17.81	18.5	3.5		
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.50	20.50	20.43	22	0		
15	QPSK	1	37	20.29	20.36	20.42	22	0		
15	QPSK	1	74	20.40	20.36	20.23	22	0		
15	QPSK	36	0	20.30	20.30	20.27	22	0		
15	QPSK	36	20	20.24	20.39	20.31	22	0		
15	QPSK	75	0	20.31	20.39	20.28	22	0		
15	HQAM	1	0	20.31	20.44	20.29	22	0		
15	HQAM	1	37	20.37	20.37	20.33	22	0		
15	HQAM	1	74	20.25	20.23	20.33	22	0		
15	HQAM	36	0	19.95	20.20	19.88	21.5	0.5		
15	HQAM	36	20	19.82	19.85	19.80	21.5	0.5		
15	HQAM	36	39	19.79	19.83	19.83	21.5	0.5		
15	HQAM	75	0	19.85	19.89	19.86	21.5	0.5		
15	HQAM	1	0	19.94	20.23	19.89	21.5	0.5		
15	HQAM	1	37	19.77	19.97	20.07	21.5	0.5		
15	HQAM	1	74	20.01	19.95	19.95	21.5	0.5		
15	HQAM	36	0	19.77	20.01	19.91	21.5	0.5		
15	HQAM	36	20	19.73	19.86	19.89	21.5	1.5		
15	HQAM	36	39	19.74	19.83	19.81	21.5	1.5		
15	HQAM	75	0	19.75	19.85	19.85	21.5	1.5		
15	25QAM	1	0	17.78	17.87	17.88	18.5	3.5		
15	25QAM	1	37	17.70	17.83	17.82	18.5	3.5		
15	25QAM	1	74	17.73	17.82	17.72	18.5	3.5		
15	25QAM	36	0	17.83	18.00	17.82	18.5	3.5		
15	25QAM	36	20	17.86	17.89	17.82	18.5	3.5		
15	25QAM	36	39	17.84	17.77	17.71	18.5	3.5		
15	25QAM	75	0	17.79	17.80	17.81	18.5	3.5		
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.48	20.48	20.40	22	0		
10	QPSK	1	25	20.31	20.39	20.41	22	0		
10	QPSK	1	49	20.35	20.28	20.34	22	0		
10	QPSK	12	0	20.32	20.40	20.30	22	0		
10	QPSK	25	12	20.24	20.46	20.38	22	0		
10	QPSK	25	25	20.17	20.25	20.22	22	0		
10	HQAM	1	0	20.34	20.42	20.30	22	0		
10	HQAM	1	0	20.32	20.41	20.25	22	0		
10	HQAM	1	25	20.22	20.33	20.20	22	0		
10	HQAM	1	49	20.16	20.17	20.31	22	0		
10	HQAM	25	0	20.04	20.20	19.98	21.5	0.5		
10	HQAM	25	12	20.04	19.95	19.90	21.5	0.5		
10	HQAM	25	25	19.81	19.86	19.87	21.5	0.5		
10	HQAM	50	0	19.86	20.04	19.84	21.5	0.5		
10	HQAM	1	0	19.80	20.09	20.01	21.5	0.5		
10	HQAM	1	25	19.82	20.01	20.01	21.5	0.5		
10	HQAM	1	49	20.06	19.83	20.04	21.5	0.5		
10	HQAM	25	0	19.81	20.00	19.81	21.5	0.5		
10	HQAM	25	12	19.71	19.85	19.78	20.5	1.5		
10	HQAM	25	25	19.74	19.71	19.75	20.5	1.5		
10	HQAM	50	0	19.80	19.83	19.72	20.5	1.5		
10	25QAM	1	0	17.81	18.03	17.84	18.5	3.5		
10	25QAM	1	25	17.73	17.87	17.86	18.5	3.5		
10	25QAM	1	49	17.71	17.75	17.76	18.5	3.5		
10	25QAM	25	0	17.84	17.83	17.84	18.5	3.5		
10	25QAM	25	12	17.80	17.81	17.86	18.5	3.5		
10	25QAM	25	25	17.69	17.82	17.85	18.5	3.5		
10	25QAM	50	0	17.85	17.88	17.84	18.5	3.5		

Band 41 FCC&IC Ant0										
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)										
20	QPSK	1	0	22.40	22.42	22.41	24	0		
20	QPSK	1	49	22.33	22.54	22.52	24	0		
20	QPSK	1	99	22.31	22.41	22.39	24	0		
20	QPSK	50	0	22.27	22.18	22.34	24	0		
20	QPSK	50	24	22.05	22.15	22.18	24	0		
20	QPSK	50	49	22.05	22.15	22.18	24	0		
20	QPSK	100	0	22.25	22.10	22.30	24	0		
20	HQAM	1	0	22.15	22.13	22.28	24	0		
20	HQAM	1	49	22.07	22.04	22.10	24	0		
20	HQAM	1	99	22.02	22.03	22.13	24	0		
20	HQAM	50	0	21.30	21.18	21.38	24	0		
20	HQAM	50	24	21.10	21.17	21.20	24	0		
20	HQAM	50	49	21.01	21.08	21.16	24	0		
20	HQAM	100	0	21.06	21.21	21.35	24	0		
20	HQAM	100	0	21.41	21.33	21.49	24	0		
20	HQAM	1	49	21.30	21.27	21.37	24	0		
20	HQAM	1	99	21.18	21.04	21.30	24	0		
20	HQAM	50	0	20.27	20.27	20.40	24	0		
20	HQAM	50	24	20.23	20.24	20.32	24	0		
20	HQAM	50	49	20.10	20.18	20.24	24	0		
20	HQAM	100	0	20.16	20.14	20.22	24	0		
20	25QAM	1	0	18.24	18.20	18.37	18.24	18.24		
20	25QAM	1	49	18.27	18.18	18.37	18.18	18.24		
20	25QAM	1	99	18.10	18.08	18.23	18.15	18.18		
20	25QAM	50	0	18.14	18.14	18.24	18.09	18.18		
20	25QAM	50	24	18.18	18.14	18.24	18.10	18.14		
20	25QAM	50	49	18.12	18.05	18.20	18.09	18.14		
20	25QAM	100	0	18.14	18.16	18.28	18.10	18.14		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.37	22.62	22.56	24	0		
15	QPSK	1	37	22.17	22.37	22.46	24	0		
15	QPSK	1	74	22.14	22.26	22.26	24	0		
15	QPSK	36	0	22.29	22.08	22.24	24	0		
15	QPSK	36	20	21.99	22.01	22.09	24	0		
15	QPSK	75	0	22.12	22.08	22.09	24	0		
15	QPSK	75	0	22.13	21.96	22.15	24	0		
15	HQAM	1	0	22.09	21.88	22.16	24	0		
15	HQAM	1	37	21.99	22.07	22.15	24	0		
15	HQAM	1	74	21.99	21.91	22.04	24	0		
15	HQAM	36	0	21.28	21.04	21.28	24	0		
15	HQAM	36	20	20.88	21.03	21.05	24	0		
15	HQAM	36	39	20.88	21.03	21.01	24	0		
15	HQAM	75	0	21.17	21.17	21.20	24	0		
15	HQAM	75	0	21.30	21.29	21.35	24	0		
15	HQAM	1	37	21.27	21.18	21.22	24	0		
15	HQAM	1	74	21.32	21.09	21.22	24	0		
15	HQAM	36	0	20.36	20.19	20.36	24	0		
15	HQAM	36	20	20.09	20.09	20.26	24	0		
15	HQAM	36	39	19.78	19.78	19.78	24	0		
15	HQAM	75	0	19.95	20.05	20.08	24	0		
15	25QAM	1	0	18.15	18.14	18.29	18.13	18.19		
15	25QAM	1	37	18.10	18.04	18.16	18.02	18.12		
15	25QAM	1	74	18.04	18.02	18.12	18.11	18.08		
15	25QAM	36	0	18.07	18.07	18.21	18.13	18.15		
15	25QAM	36	20	18.03	18.03	18.16	18.05	18.12		
15	25QAM	36	39	18.08	17.93	18.11	18.02	18.01		
15	25QAM	75	0	18.10	18.11	18.16				



Band 41 PC2 FCC&IC Ant0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	25.50	25.50	25.50	25.50	25.50	26.00	0
20	QPSK	1	49	25.46	25.53	25.59	25.40	25.36		
20	QPSK	1	99	25.33	25.38	25.43	25.26	25.31		
20	QPSK	50	0	25.42	25.34	25.45	25.21	25.08		
20	QPSK	50	24	25.32	25.43	25.38	25.20	25.10		
20	QPSK	50	49	25.07	25.12	25.17	24.98	24.87		
20	QPSK	100	0	25.32	25.40	25.35	25.28	25.13		
20	HQAM	1	0	25.55	25.46	25.60	25.48	25.41		
20	HQAM	1	49	25.35	25.39	25.43	25.49	25.37		
20	HQAM	1	99	25.30	25.34	25.42	25.44	25.22		
20	HQAM	50	0	24.26	24.15	24.36	24.27	24.10		
20	HQAM	50	24	24.19	24.20	24.30	24.13	24.07		
20	HQAM	50	49	24.11	24.05	24.17	24.11	23.97		
20	HQAM	100	0	24.25	24.21	24.30	24.15	24.07		
20	HQAM	100	1	24.18	24.15	24.23	24.10	24.10		
20	HQAM	100	49	24.02	24.11	24.10	24.10	23.96		
20	HQAM	1	99	24.05	24.03	24.10	24.03	23.95		
20	HQAM	50	0	23.28	23.22	23.38	23.20	23.14		
20	HQAM	50	24	23.15	23.14	23.27	23.19	23.03		
20	HQAM	50	49	23.14	23.10	23.21	23.15	23.06		
20	HQAM	100	0	23.11	23.17	23.23	23.22	23.02		
20	SSBQAM	1	0	21.51	21.42	21.55	21.46	21.20		
20	SSBQAM	1	49	21.54	21.49	21.53	21.45	21.30		
20	SSBQAM	1	99	21.24	21.37	21.38	21.38	21.28		
20	SSBQAM	50	0	21.36	21.21	21.42	21.37	21.24		
20	SSBQAM	50	24	21.22	21.16	21.29	21.24	21.04		
20	SSBQAM	50	49	21.14	21.12	21.21	21.20	21.05		
20	SSBQAM	100	0	21.32	21.19	21.38	21.33	21.16		
Channel										
Frequency (MHz)										
15	QPSK	1	0	25.52	25.47	25.50	25.50	25.52	26.00	0
15	QPSK	1	37	25.39	25.12	25.50	25.28	25.20		
15	QPSK	1	74	25.13	25.30	25.35	25.24	25.21		
15	QPSK	38	0	25.39	25.21	25.30	25.10	24.91		
15	QPSK	38	20	25.20	25.08	25.34	25.19	24.95		
15	QPSK	38	39	24.83	24.93	25.01	25.24	25.04		
15	QPSK	75	0	25.24	25.15	25.23	25.15	25.00		
15	HQAM	1	0	25.43	25.36	25.51	25.38	25.36		
15	HQAM	1	37	25.35	25.30	25.35	25.42	25.29		
15	HQAM	1	74	25.16	25.21	25.28	25.38	25.10		
15	HQAM	38	0	24.22	24.02	24.24	24.16	23.97		
15	HQAM	38	20	24.05	24.05	24.15	24.05	23.86		
15	HQAM	38	39	24.08	23.99	24.08	24.06	23.88		
15	HQAM	75	0	24.19	24.08	24.27	24.04	24.02		
15	HQAM	1	49	24.04	24.10	24.16	24.16	24.00		
15	HQAM	1	37	23.89	24.04	23.97	23.98	23.88		
15	HQAM	1	74	24.03	23.89	24.10	23.94	23.92		
15	HQAM	38	0	23.18	23.18	23.35	23.05	23.05		
15	HQAM	38	20	23.05	23.09	23.22	23.15	22.97		
15	HQAM	38	39	23.21	23.21	23.30	23.25	23.06		
15	HQAM	75	0	23.04	23.03	23.15	23.15	22.92		
15	SSBQAM	1	0	21.43	21.30	21.51	21.39	21.20		
15	SSBQAM	1	37	21.47	21.37	21.40	21.40	21.27		
15	SSBQAM	1	74	21.20	21.25	21.32	21.23	21.10		
15	SSBQAM	38	0	21.24	21.17	21.34	21.25	21.11		
15	SSBQAM	38	20	21.08	21.12	21.21	21.15	20.99		
15	SSBQAM	38	39	21.10	21.08	21.07	21.09	20.98		
15	SSBQAM	75	0	21.21	21.12	21.31	21.16	21.07		
Channel										
Frequency (MHz)										
10	QPSK	1	0	25.51	25.47	25.50	25.50	25.51	26.00	0
10	QPSK	1	25	25.35	25.11	25.51	25.24	25.28		
10	QPSK	1	49	25.06	25.30	25.30	25.31	25.16		
10	QPSK	12	0	25.34	25.25	25.35	25.25	25.05		
10	QPSK	25	12	25.28	25.05	25.32	25.14	25.03		
10	QPSK	25	25	24.92	25.06	25.09	25.14	24.97		
10	QPSK	50	0	25.30	25.30	25.30	25.34	25.06		
10	HQAM	1	0	25.47	25.40	25.60	25.41	25.36		
10	HQAM	1	25	25.20	25.34	25.40	25.38	25.12		
10	HQAM	1	49	25.21	25.21	25.29	25.36	25.17		
10	HQAM	25	0	24.23	24.09	24.31	24.12	24.03		
10	HQAM	25	12	24.02	24.16	24.22	24.06	23.91		
10	HQAM	25	25	24.04	23.98	24.14	24.04	23.85		
10	HQAM	50	0	24.18	24.14	24.28	24.08	24.13		
10	HQAM	1	9	24.09	24.09	24.20	24.06	23.97		
10	HQAM	1	25	23.94	23.98	24.02	23.92	23.88		
10	HQAM	25	0	23.21	23.08	23.20	23.15	23.03		
10	HQAM	25	12	23.05	23.10	23.24	23.09	22.89		
10	HQAM	25	25	23.02	22.97	23.20	23.08	22.96		
10	HQAM	50	0	22.97	23.07	23.15	23.19	22.98		
10	SSBQAM	1	0	21.47	21.39	21.54	21.36	21.18		
10	SSBQAM	1	25	21.51	21.46	21.47	21.39	21.25		
10	SSBQAM	1	49	21.14	21.20	21.25	21.30	21.22		
10	SSBQAM	25	0	21.28	21.21	21.30	21.32	21.20		
10	SSBQAM	25	12	21.00	21.04	21.20	21.17	20.94		
10	SSBQAM	25	25	20.99	21.07	21.13	21.15	20.98		
10	SSBQAM	50	0	21.28	21.16	21.27	21.11	21.02		
Channel										
Frequency (MHz)										
5	QPSK	1	0	25.51	25.43	25.45	25.38	25.40	26.00	0
5	QPSK	1	12	25.43	25.07	25.45	25.33	25.31		
5	QPSK	1	24	25.15	25.24	25.30	25.21	25.25		
5	QPSK	12	0	25.39	25.32	25.41	25.39	24.81		
5	QPSK	12	7	25.24	25.15	25.30	25.12	25.03		
5	QPSK	12	13	24.93	25.06	25.02	25.17	25.05		
5	QPSK	25	0	25.21	25.05	25.29	25.22	25.09		
5	HQAM	1	0	25.47	25.42	25.52	25.38	25.27		
5	HQAM	1	12	25.29	25.29	25.33	25.35	25.24		
5	HQAM	1	24	25.10	25.21	25.30	25.24	25.16		
5	HQAM	12	0	24.20	24.02	24.31	24.20	24.02		
5	HQAM	12	7	24.15	24.14	24.19	24.08	23.97		
5	HQAM	12	13	24.06	23.98	24.03	24.07	23.89		
5	HQAM	25	0	24.12	24.15	24.20	24.06	24.07		
5	HQAM	1	0	24.07	24.10	24.21	24.09	24.00		
5	HQAM	1	12	23.91	23.97	24.02	24.07	23.92		
5	HQAM	1	24	23.97	23.99	24.11	23.99	23.89		
5	HQAM	12	0	23.18	23.15	23.27	23.07	23.06		
5	HQAM	12	7	23.08	23.08	23.15	23.10	22.99		
5	HQAM	12	13	23.00	22.98	23.10	23.05	22.91		
5	HQAM	25	0	23.06	23.11	23.11	23.16	22.96		
5	SSBQAM	1	0	21.45	21.34	21.40	21.41	21.22		
5	SSBQAM	1	12	21.48	21.25	21.46	21.37	21.17		
5	SSBQAM	1	24	21.19	21.20	21.32	21.28	21.22		
5	SSBQAM	12	0	21.28	21.25	21.33	21.22	21.19		
5	SSBQAM	12	7	21.19	21.07	21.22	21.20	20.93		
5	SSBQAM	12	13	21.08	21.06	21.15	21.19	20.96		
5	SSBQAM	25	0	21.24	21.16	21.25	21.12	21.04		

Band 48 Ant0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.28	21.44	21.41	21.40	21.39	23	0
20	QPSK	1	49	21.23	21.39	21.34	21.34	21.25		
20	QPSK	1	99	21.16	21.31	21.29	21.29	21.20		
20	QPSK	50	0	21.25	21.37	21.32	21.32	21.23		
20	QPSK	50	24	21.24	21.36	21.30	21.31	21.21		
20	QPSK	50	49	21.08	21.29	21.26	21.23	21.13		
20	QPSK	100	0	21.15	21.28	21.14	21.14	21.22		
20	HQAM	1	0	21.31	21.34	21.50	21.50	21.24		
20	HQAM	1	49	21.19	21.31	21.29	21.29	21.23		
20	HQAM	1	99	21.16	21.29	21.15	21.15	21.20		
20	HQAM	50	0	21.16	21.26	21.19	21.19	21.15		
20	HQAM	50	24	21.14	21.20	21.17	21.17	21.11		
20	HQAM	50	49	21.10	21.23	21.14	21.19	21.10		
20	HQAM	100	0	21.16	21.21	21.15	21.15	21.13		
20	HQAM	100	1	21.09	21.15	21.10	21.10	21.01		
20	HQAM	1	49	20.98	21.07	20.96	21.04	20.94		
20	HQAM	1	99	21.08	21.13	20.96	21.00	21.00		
20	HQAM	50	0	19.96	20.09	20.04	20.04	19.88		
20	HQAM	50	24	20.18	20.22					



CDMA2000 1X

TX Channel	Burst Average Power (dBm)			Tx Power Limit (dBm)	Frame Average Power (dBm)			Tx Power Limit (dBm)
	198.2	199.1	201.6		198.2	199.1	201.6	
Frequency (MHz)	893.2	893.4	893.6		893.2	893.4	893.6	
CDMA 1 Tx Watt	31.42	31.48	31.36	32.00	22.42	22.48	22.36	23.00
OPRS 1 Tx Watt	31.38	31.44	31.33	32.00	22.39	22.44	22.33	23.00
OPRS 2 Tx Watt	25.27	25.29	25.32	26.00	22.27	22.29	22.30	23.00
OPRS 3 Tx Watt	26.80	26.91	26.80	28.00	22.34	22.55	22.44	23.74
OPRS 4 Tx Watt	25.16	25.22	25.17	26.00	22.16	22.22	22.17	23.00
EDGE 1 Tx Watt	24.00	24.17	24.05	26.00	18.03	18.17	18.05	18.00
EDGE 2 Tx Watt	22.20	22.41	22.34	23.00	18.20	18.41	18.34	17.00
EDGE 3 Tx Watt	21.15	21.21	21.08	22.00	18.89	18.97	18.82	17.74
EDGE 4 Tx Watt	18.99	19.06	18.93	20.00	18.99	19.08	18.91	17.00

CDMA2000 1X Rev 1.2

TX Channel	Burst Average Power (dBm)			Tx Power Limit (dBm)	Frame Average Power (dBm)			Tx Power Limit (dBm)
	189.2	189.1	189.8		189.2	189.1	189.8	
Frequency (MHz)	189.2	189.1	189.8		189.2	189.1	189.8	
CDMA 1 Tx Watt	22.52	22.57	22.57	28.50	18.52	18.67	18.67	19.50
OPRS 1 Tx Watt	22.06	22.00	24.88	28.00	18.06	18.00	18.08	20.00
OPRS 2 Tx Watt	25.36	25.42	25.32	26.50	19.10	19.18	19.06	20.24
OPRS 3 Tx Watt	20.62	20.74	20.63	21.50	17.62	17.74	17.63	18.50
EDGE 1 Tx Watt	22.76	22.86	22.72	23.50	18.76	18.86	18.72	14.00
EDGE 2 Tx Watt	21.13	21.22	21.13	22.00	18.13	18.22	18.13	16.00
EDGE 3 Tx Watt	18.86	18.96	18.86	21.00	18.86	18.96	18.86	18.74
EDGE 4 Tx Watt	17.01	18.00	17.07	19.00	14.91	15.00	14.97	16.00

WCDMA Rev 1

TX Channel	WCDMA Rev 1			WCDMA Rev 1			WCDMA Rev 1		
	189.2	189.1	189.8	189.2	189.1	189.8	189.2	189.1	189.8
Frequency (MHz)	189.2	189.1	189.8	189.2	189.1	189.8	189.2	189.1	189.8
WCDMA Rev 1	21.46	21.52	21.44	23.00	21.42	21.44	21.31	21.00	21.14
WCDMA Rev 2	21.48	21.51	21.51	23.00	21.45	21.45	21.32	21.00	21.17
WCDMA Rev 3	20.85	20.84	20.47	22.00	20.46	20.57	20.32	22.00	20.23
WCDMA Rev 4	20.48	20.51	20.52	22.00	20.42	20.50	20.41	22.00	20.12
WCDMA Rev 5	20.02	20.14	20.10	21.50	19.91	20.02	19.95	21.50	19.87
WCDMA Rev 6	19.56	20.14	20.36	21.50	19.67	20.31	20.54	21.50	19.56
WCDMA Rev 7	20.50	20.70	20.45	22.00	20.46	20.63	20.35	22.00	20.21
WCDMA Rev 8	20.37	20.42	20.36	22.00	20.33	20.29	20.28	22.00	20.08
WCDMA Rev 9	19.00	19.96	19.92	21.50	19.04	19.84	19.86	21.50	19.95
WCDMA Rev 10	19.87	19.84	19.99	21.50	19.82	19.80	19.83	21.50	19.49
WCDMA Rev 11	20.96	20.81	20.80	22.00	20.43	20.98	20.96	22.00	20.18
WCDMA Rev 12	18.83	18.87	18.82	20.00	18.42	18.53	18.39	20.00	18.09
WCDMA Rev 13	18.20	18.48	18.58	21.00	18.43	18.51	18.49	21.00	18.18
WCDMA Rev 14	18.46	18.48	18.44	20.00	18.37	18.45	18.35	20.00	18.04
WCDMA Rev 15	20.59	20.40	20.39	22.00	20.58	20.36	20.33	22.00	20.21