



**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	32.90	32.97	32.94	33.50	23.90	23.97
OPRR-1 Tx Limit	32.85	32.90	32.91	33.50	23.83	23.94
OPRR-2 Tx Limit	29.30	29.41	29.28	30.50	23.30	23.41
OPRR-2 Tx Limit	29.31	29.35	29.36	30.50	24.85	24.72
EDGE-1 Tx Limit	25.42	25.41	25.40	27.50	23.41	23.40
EDGE-1 Tx Limit	25.42	25.40	25.37	28.50	19.42	19.46
EDGE-2 Tx Limit	22.77	22.80	22.79	26.00	17.77	17.80
EDGE-3 Tx Limit	22.88	22.89	22.82	23.50	18.40	18.43
EDGE-3 Tx Limit	20.50	20.60	20.60	21.50	17.50	17.60

  

GSM 900 Mode						
Item	Burst Average Power (dBm)			Frame Average Power (dBm)		
TV Channel	512	561	610	Limit	512	561
Frequency (MHz)	175.2	175.8	176.3	(dBm)	175.2	175.8
OPRR-1 Tx Limit	27.84	27.81	27.88	28.50	18.54	18.63
OPRR-1 Tx Limit	27.84	27.82	27.87	28.50	18.41	18.58
OPRR-2 Tx Limit	24.94	24.94	24.93	26.00	18.94	18.93
OPRR-3 Tx Limit	23.53	23.50	23.53	24.50	19.07	19.11
OPRR-4 Tx Limit	20.70	20.75	20.88	21.50	17.70	17.75
EDGE-1 Tx Limit	22.39	22.67	22.73	23.50	19.39	19.67
EDGE-2 Tx Limit	21.00	21.50	21.11	22.00	18.00	18.50
EDGE-3 Tx Limit	20.07	20.12	20.04	21.00	15.91	15.96
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	932	960	938	Limit	1312	1413	1513	Limit	4152	4182	4233	
SA Channel	9602	9600	9308	(dBm)	1307	1408	1508	(dBm)	4147	4407	4458	
Frequency (MHz)	1824.4	1890	1907.6	(dBm)	1718.4	1724.8	1752	(dBm)	396.4	396.4	346.6	
ISPP Ref	22.07	22.05	22.53	22.00	22.50	22.47	23.08	22.00	23.43	22.87	23.40	
ISPP Ref	20.82	20.60	20.67	22.00	20.45	20.51	20.41	22.00	22.45	22.52	22.48	
ISPP Ref	19.72	19.75	19.70	21.00	19.59	19.66	19.50	21.00	21.55	21.60	21.48	
ISPP Ref	19.08	19.71	19.65	21.00	19.50	19.58	19.52	21.00	21.66	21.60	21.54	
ISPP Ref	19.39	19.20	19.21	20.50	19.00	19.11	19.28	20.50	21.61	21.14	21.04	
ISPP Ref	19.15	19.30	19.21	20.50	19.90	19.18	19.03	20.50	20.98	21.04	21.06	
ISPP Ref	19.70	19.85	19.84	21.00	19.54	19.68	19.48	21.00	21.55	21.72	21.42	
ISPP Ref	19.50	19.50	19.41	21.00	19.38	19.40	19.32	21.00	21.54	21.62	21.52	
ISPP Ref	19.08	19.12	19.05	20.50	19.02	19.03	19.89	20.50	20.95	20.93	20.92	
ISPP Ref	19.02	19.15	19.12	20.50	19.90	19.00	19.01	20.50	20.89	21.00	21.03	
ISPP Ref	19.46	19.71	19.70	21.00	19.55	19.63	19.61	21.00	21.63	21.68	21.67	
ISPP Ref	17.71	17.70	17.64	19.00	17.64	17.60	17.61	19.00	19.67	19.63	19.56	
ISPP Ref	18.66	18.71	18.70	20.00	18.52	18.58	18.56	20.00	20.50	20.50	20.51	
ISPP Ref	17.81	17.80	17.87	19.00	17.44	17.51	17.48	19.00	19.45	19.52	19.49	
ISPP Ref	19.94	19.90	19.82	21.00	19.83	19.48	19.38	21.00	21.59	21.44	21.40	





Band 12 Ant0										
SRV (MHz)	Multicast	RS Size	RS CID	Power L1 (dBm)	Power L2 (dBm)	Power L3 (dBm)	Turnup (sec)	APN	APN (sec)	
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.94	22.92	22.79	24	0		
10	QPSK	1	20	22.94	22.92	22.79	24	0		
10	QPSK	1	40	22.92	22.89	22.62	24	0		
10	QPSK	8	0	22.92	22.89	22.62	24	0		
10	QPSK	25	12	22.89	22.86	22.61	24	0		
10	QPSK	50	0	22.83	22.77	22.52	24	0		
10	QPSK	10	0	22.81	22.78	22.53	24	0		
10	16QAM	1	25	22.74	22.69	22.59	24	0		
10	16QAM	1	45	22.74	22.69	22.59	24	0		
10	16QAM	25	12	22.62	22.53	22.41	24	0		
10	16QAM	50	0	22.57	22.47	22.29	24	0		
10	16QAM	25	12	21.41	21.32	21.21	24	0		
10	16QAM	1	25	21.39	21.29	21.19	24	0		
10	16QAM	25	12	21.34	21.24	21.14	24	0		
10	16QAM	50	0	21.24	21.14	21.04	24	0		
10	16QAM	1	45	21.19	21.09	20.99	24	0		
10	16QAM	25	12	21.14	21.04	20.94	24	0		
10	16QAM	50	0	21.04	20.94	20.84	24	0		
10	16QAM	1	25	20.99	20.89	20.79	24	0		
10	16QAM	25	12	20.94	20.84	20.74	24	0		
10	16QAM	50	0	20.84	20.74	20.64	24	0		
10	16QAM	1	45	20.79	20.69	20.59	24	0		
10	16QAM	25	12	20.74	20.64	20.54	24	0		
10	16QAM	50	0	20.64	20.54	20.44	24	0		
10	16QAM	1	25	20.59	20.49	20.39	24	0		
10	16QAM	25	12	20.54	20.44	20.34	24	0		
10	16QAM	50	0	20.44	20.34	20.24	24	0		
10	16QAM	1	45	20.39	20.29	20.19	24	0		
10	16QAM	25	12	20.34	20.24	20.14	24	0		
10	16QAM	50	0	20.24	20.14	20.04	24	0		
10	16QAM	1	25	20.19	20.09	19.99	24	0		
10	16QAM	25	12	20.14	20.04	19.94	24	0		
10	16QAM	50	0	20.04	19.94	19.84	24	0		
10	16QAM	1	45	19.99	19.89	19.79	24	0		
10	16QAM	25	12	19.94	19.84	19.74	24	0		
10	16QAM	50	0	19.84	19.74	19.64	24	0		
10	16QAM	1	25	19.79	19.69	19.59	24	0		
10	16QAM	25	12	19.74	19.64	19.54	24	0		
10	16QAM	50	0	19.64	19.54	19.44	24	0		
10	16QAM	1	45	19.59	19.49	19.39	24	0		
10	16QAM	25	12	19.54	19.44	19.34	24	0		
10	16QAM	50	0	19.44	19.34	19.24	24	0		
10	16QAM	1	25	19.39	19.29	19.19	24	0		
10	16QAM	25	12	19.34	19.24	19.14	24	0		
10	16QAM	50	0	19.24	19.14	19.04	24	0		
10	16QAM	1	45	19.19	19.09	18.99	24	0		
10	16QAM	25	12	19.14	19.04	18.94	24	0		
10	16QAM	50	0	19.04	18.94	18.84	24	0		
10	16QAM	1	25	18.99	18.89	18.79	24	0		
10	16QAM	25	12	18.94	18.84	18.74	24	0		
10	16QAM	50	0	18.84	18.74	18.64	24	0		
10	16QAM	1	45	18.79	18.69	18.59	24	0		
10	16QAM	25	12	18.74	18.64	18.54	24	0		
10	16QAM	50	0	18.64	18.54	18.44	24	0		
10	16QAM	1	25	18.59	18.49	18.39	24	0		
10	16QAM	25	12	18.54	18.44	18.34	24	0		
10	16QAM	50	0	18.44	18.34	18.24	24	0		
10	16QAM	1	45	18.39	18.29	18.19	24	0		
10	16QAM	25	12	18.34	18.24	18.14	24	0		
10	16QAM	50	0	18.24	18.14	18.04	24	0		
10	16QAM	1	25	18.19	18.09	17.99	24	0		
10	16QAM	25	12	18.14	18.04	17.94	24	0		
10	16QAM	50	0	18.04	17.94	17.84	24	0		
10	16QAM	1	45	17.99	17.89	17.79	24	0		
10	16QAM	25	12	17.94	17.84	17.74	24	0		
10	16QAM	50	0	17.84	17.74	17.64	24	0		
10	16QAM	1	25	17.79	17.69	17.59	24	0		
10	16QAM	25	12	17.74	17.64	17.54	24	0		
10	16QAM	50	0	17.64	17.54	17.44	24	0		
10	16QAM	1	45	17.59	17.49	17.39	24	0		
10	16QAM	25	12	17.54	17.44	17.34	24	0		
10	16QAM	50	0	17.44	17.34	17.24	24	0		
10	16QAM	1	25	17.39	17.29	17.19	24	0		
10	16QAM	25	12	17.34	17.24	17.14	24	0		
10	16QAM	50	0	17.24	17.14	17.04	24	0		
10	16QAM	1	45	17.19	17.09	16.99	24	0		
10	16QAM	25	12	17.14	17.04	16.94	24	0		
10	16QAM	50	0	17.04	16.94	16.84	24	0		
10	16QAM	1	25	16.99	16.89	16.79	24	0		
10	16QAM	25	12	16.94	16.84	16.74	24	0		
10	16QAM	50	0	16.84	16.74	16.64	24	0		
10	16QAM	1	45	16.79	16.69	16.59	24	0		
10	16QAM	25	12	16.74	16.64	16.54	24	0		
10	16QAM	50	0	16.64	16.54	16.44	24	0		
10	16QAM	1	25	16.59	16.49	16.39	24	0		
10	16QAM	25	12	16.54	16.44	16.34	24	0		
10	16QAM	50	0	16.44	16.34	16.24	24	0		
10	16QAM	1	45	16.39	16.29	16.19	24	0		
10	16QAM	25	12	16.34	16.24	16.14	24	0		
10	16QAM	50	0	16.24	16.14	16.04	24	0		
10	16QAM	1	25	16.19	16.09	15.99	24	0		
10	16QAM	25	12	16.14	16.04	15.94	24	0		
10	16QAM	50	0	16.04	15.94	15.84	24	0		
10	16QAM	1	45	15.99	15.89	15.79	24	0		
10	16QAM	25	12	15.94	15.84	15.74	24	0		
10	16QAM	50	0	15.84	15.74	15.64	24	0		
10	16QAM	1	25	15.79	15.69	15.59	24	0		
10	16QAM	25	12	15.74	15.64	15.54	24	0		
10	16QAM	50	0	15.64	15.54	15.44	24	0		
10	16QAM	1	45	15.59	15.49	15.39	24	0		
10	16QAM	25	12	15.54	15.44	15.34	24	0		
10	16QAM	50	0	15.44	15.34	15.24	24	0		
10	16QAM	1	25	15.39	15.29	15.19	24	0		
10	16QAM	25	12	15.34	15.24	15.14	24	0		
10	16QAM	50	0	15.24	15.14	15.04	24	0		
10	16QAM	1	45	15.19	15.09	14.99	24	0		
10	16QAM	25	12	15.14	15.04	14.94	24	0		
10	16QAM	50	0	15.04	14.94	14.84	24	0		
10	16QAM	1	25	14.99	14.89	14.79	24	0		
10	16QAM	25	12	14.94	14.84	14.74	24	0		
10	16QAM	50	0	14.84	14.74	14.64	24	0		
10	16QAM	1	45	14.79	14.69	14.59	24	0		
10	16QAM	25	12	14.74	14.64	14.54	24	0		
10	16QAM	50	0	14.64	14.54	14.44	24	0		
10	16QAM	1	25	14.59	14.49	14.39	24	0		
10	16QAM	25	12	14.54	14.44	14.34	24	0		
10	16QAM	50	0	14.44	14.34	14.24	24	0		
10	16QAM	1	45	14.39	14.29	14.19	24	0		
10	16QAM	25	12	14.34	14.24	14.14	24	0		
10	16QAM	50	0	14.24	14.14	14.04	24	0		
10	16QAM	1	25	14.19	14.09	13.99	24	0		
10	16QAM	25	12	14.14	14.04	13.94	24	0		
10	16QAM	50	0	14.04	13.94	13.84	24	0		
10	16QAM	1	45	13.99	1					





Band 66 Ant0												
BW (MHz)	Modulation	FE Size	FE Offset	Power Ch. 1 (dBm)	Power Ch. 2 (dBm)	Power Ch. 3 (dBm)	Time-to-Set (min)	MLP (dB)				
Channel												
20	QPSK	1	0	23.17	23.20	23.14	24	0				
Frequency (MHz)												
20	QPSK	1	0	23.11	23.10	23.18	24	0				
20	QPSK	1	36	23.32	23.32	23.30	24	0				
20	QPSK	1	72	23.45	23.45	23.37	24	0				
20	QPSK	50	24	23.32	23.38	23.30	24	0				
20	QPSK	100	0	23.38	23.33	23.31	24	0				
20	QPSK	1	45	23.37	23.34	23.34	24	0				
20	QPSK	50	0	23.31	23.31	23.35	24	0				
20	QPSK	50	24	23.30	23.30	23.30	23.5	0.5				
20	QPSK	100	0	23.48	23.38	23.34	24	0				
20	QPSK	1	0	23.35	23.35	23.34	24	0				
20	QPSK	1	45	23.29	23.27	23.24	23.5	0.5				
20	QPSK	100	0	23.31	23.30	23.31	24	0				
20	QPSK	50	0	23.53	23.72	23.61	23.5	1.5				
20	QPSK	100	0	23.57	23.56	23.55	24	0				
20	QPSK	1	0	18.98	18.92	18.93	20.5	0.5				
20	QPSK	50	0	18.94	18.96	18.90	20.5	3.5				
20	QPSK	100	0	18.78	18.98	18.74	20.5	3.5				
Channel												
Frequency (MHz)												
15	QPSK	1	0	23.08	23.16	23.00	24	0				
15	QPSK	1	37	23.05	23.05	23.04	24	0				
15	QPSK	36	0	23.07	23.10	23.02	24	0				
15	QPSK	36	36	23.08	23.00	23.02	24	0				
15	QPSK	36	72	23.28	23.27	23.28	24	0				
15	QPSK	72	0	23.42	23.40	23.38	24	0				
15	QPSK	1	0	23.28	23.27	23.25	24	0				
15	QPSK	100	0	23.25	23.21	23.21	24	0				
15	QPSK	1	34	23.75	23.74	23.75	23.5	0.5				
15	QPSK	36	24	23.37	23.32	23.32	23.5	0.5				
15	QPSK	72	0	23.41	23.45	23.44	23.5	0.5				
15	QPSK	1	37	23.47	23.38	23.38	23.5	0.5				
15	QPSK	1	78	23.45	23.32	23.38	23.5	0.5				
15	QPSK	36	20	23.51	23.53	23.57	23.5	1.5				
15	QPSK	72	0	23.48	23.50	23.51	23.5	1.5				
15	QPSK	1	37	18.92	18.90	18.78	20.5	3.5				
15	QPSK	100	0	18.75	18.77	18.77	20.5	3.5				
15	QPSK	36	0	18.92	18.92	18.92	20.5	3.5				
15	QPSK	36	36	18.98	18.98	18.93	20.5	3.5				
15	QPSK	72	0	18.98	18.98	18.93	20.5	3.5				
Channel												
Frequency (MHz)												
10	QPSK	1	0	23.05	23.10	23.01	23.5	0				
10	QPSK	1	35	23.04	23.02	23.00	24	0				
10	QPSK	10	0	23.05	23.05	23.05	24	0				
10	QPSK	20	0	23.34	23.37	23.35	24	0				
10	QPSK	35	0	23.41	23.47	23.48	24	0				
10	QPSK	70	0	23.78	23.86	23.85	24	0				
10	QPSK	1	0	23.31	23.30	23.30	24	0				
10	QPSK	25	0	23.27	23.26	23.25	23.5	0.5				
10	QPSK	50	0	23.31	23.30	23.29	23.5	0.5				
10	QPSK	25	24	23.32	23.30	23.31	23.5	0.5				
10	QPSK	1	0	23.45	23.38	23.37	23.5	0.5				
10	QPSK	10	0	23.47	23.47	23.47	23.5	0.5				
10	QPSK	1	44	23.43	23.32	23.43	23.5	1.5				
10	QPSK	10	12	23.52	23.52	23.51	23.5	1.5				
10	QPSK	20	0	23.52	23.52	23.50	23.5	1.5				
10	QPSK	40	0	23.45	23.42	23.44	23.5	1.5				
10	QPSK	1	0	18.76	18.80	18.81	20.5	3.5				
10	QPSK	1	40	18.73	18.70	18.77	20.5	3.5				
10	QPSK	20	0	18.71	18.67	18.74	20.5	3.5				
10	QPSK	25	12	18.75	18.81	18.83	20.5	3.5				
10	QPSK	50	0	18.90	18.90	18.92	20.5	3.5				
10	QPSK	50	0	18.83	18.77	18.83	20.5	3.5				
Channel												
Frequency (MHz)												
5	QPSK	1	0	23.03	23.10	23.03	24	0				
5	QPSK	1	12	23.08	23.08	23.04	24	0				
5	QPSK	1	24	23.21	23.20	23.21	24	0				
5	QPSK	12	0	23.40	23.41	23.40	24	0				
5	QPSK	12	7	23.78	23.38	23.35	24	0				
5	QPSK	12	13	23.75	23.38	23.33	24	0				
5	QPSK	25	0	23.34	23.36	23.37	24	0				
5	QPSK	1	0	23.75	23.38	23.35	24	0				
5	QPSK	1	12	23.32	23.32	23.72	24	0				
5	QPSK	12	0	23.47	23.74	23.53	24	0				
5	QPSK	12	7	23.46	23.46	23.46	24	0				
5	QPSK	12	13	23.45	23.45	23.41	23.5	0.5				
5	QPSK	25	0	23.37	23.33	23.46	23.5	0.5				
5	QPSK	1	12	23.48	23.44	23.46	23.5	0.5				
5	QPSK	24	0	23.39	23.37	23.44	23.5	0.5				
5	QPSK	12	0	23.23	23.20	23.21	23.5	0.5				
5	QPSK	12	13	23.47	23.47	23.75	23.5	1.5				
5	QPSK	1	0	18.76	18.81	18.86	20.5	3.5				
5	QPSK	1	12	18.71	18.70	18.73	20.5	3.5				
5	QPSK	12	7	18.72	18.80	18.71	20.5	3.5				
5	QPSK	12	13	18.80	18.80	18.81	20.5	3.5				
5	QPSK	25	0	18.80	18.81	18.81	20.5	3.5				
Channel												
Frequency (MHz)												
3	QPSK	1	0	23.03	23.14	23.08	24	0				
3	QPSK	1	14	23.08	23.08	23.72	24	0				
3	QPSK	8	0	23.08	23.04	23.05	24	0				
3	QPSK	8	7	23.78	23.33	23.33	24	0				
3	QPSK	15	0	23.78	23.30	23.30	24	0				
3	QPSK	1	0	23.76	23.27	23.24	24	0				
3	QPSK	1	14	23.40	23.40	23.97	24	0				
3	QPSK	1	14	23.76	23.30	23.32	24	0				
3	QPSK	8	0	23.30	23.31	23.33	23.5	0.5				
3	QPSK	8	4	23.34	23.32	23.49	23.5	0.5				
3	QPSK	15	0	23.43	23.48	23.51	23.5	0.5				
3	QPSK	1	8	23.47	23.47	23.50	23.5	0.5				
3	QPSK	8	8	23.41	23.32	23.45	23.5	0.5				
3	QPSK	8	14	23.37	23.35	23.38	23.5	0.5				
3	QPSK	8	4	23.32	23.30	23.70	23.5	1.5				
3	QPSK	15	0	23.45	23.55	23.48	23.5	1.5				
3	QPSK	1	0	18.76	18.80	18.79	20.5	3.5				
3	QPSK	1	14	18.74	18.70	18.76	20.5	3.5				
3	QPSK	8	0	18.70	18.80	18.73	20.5	3.5				
3	QPSK	8	7	18.82	18.72	18.82	20.5	3.5				
3	QPSK	15	0	18.80	18.80	18.82	20.5	3.5				
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	23.11	23.10	23.10	24	0				
1.4	QPSK	1	3	23.20	23.24	23.20	24	0				
1.4	QPSK	3	0	23.22	23.14	23.28	24	0				
1.4	QPSK	3	0	23.30	23.30	23.30	24	0				
1.4	QPSK	1	3	23.71	23.86	23.84	24	0				
1.4	QPSK	3	0	23.70	23.70	23.70	24	0				
1.4	QPSK	1	0	23.75	23.68	23.68	24	0				
1.4	QPSK	1	5	23.76	23.64	23.67	24	0				
1.4	QPSK	3	0	23.71	23.60	23.61	23.5	0.5				
1.4	QPSK	3	0	23.47	23.76	23.74	23.5	0.5				
1.4	QPSK	1	0	23.20	23.20	23.31	23.5	0.5				
1.4	QPSK	1	0	23.47	23.31	23.43	23.5	0.5				
1.4	QPSK	1	0	23.43	23.48	23.49	23.5	0.5				
1.4	QPSK	3	0	23.47	23.44	23.50	23.5	0.5				
1.4	QPSK	3	1	23.40	23.41	23.40	23.5	1.5				
1.4	QPSK	1	0	18.78	18.80	18.78	20.5	3.5				
1.4	QPSK	1	0	18.70	18.80	18.80	20.5	3.5				
1.4	QPSK	3	0	18.70	18.80	18.78	20.5	3.5				
1.4	QPSK	3	1	18.66	18.68	18.61	20.5	3.5				
1.4	QPSK	3	0	18.64	18.38	18.60	20.5	3.5				



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	20.55	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	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	25GQAM	1	0	17.91	18.08	17.94	18.5	3.5		
30	25GQAM	1	49	17.82	18.03	17.92	18.5	3.5		
30	25GQAM	1	99	17.86	17.86	17.87	18.5	3.5		
30	25GQAM	50	0	17.84	17.87	17.87	18.5	3.5		
30	25GQAM	50	24	17.80	17.85	17.80	18.5	3.5		
30	25GQAM	50	49	17.77	17.87	17.81	18.5	3.5		
30	25GQAM	100	0	17.76	17.83	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	20.5	1.5		
15	HQAM	36	20	19.73	19.88	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	25GQAM	1	0	17.78	17.87	17.88	18.5	3.5		
15	25GQAM	1	37	17.76	17.83	17.82	18.5	3.5		
15	25GQAM	1	74	17.73	17.82	17.72	18.5	3.5		
15	25GQAM	36	0	17.83	18.00	17.82	18.5	3.5		
15	25GQAM	36	20	17.86	17.89	17.82	18.5	3.5		
15	25GQAM	36	39	17.84	17.77	17.71	18.5	3.5		
15	25GQAM	75	0	17.79	17.82	17.81	18.5	3.5		
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.51	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	20.36	22	0		
10	QPSK	25	12	20.24	20.40	20.30	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	20.25	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	19.88	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	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	25GQAM	1	0	17.81	17.83	17.84	18.5	3.5		
10	25GQAM	1	25	17.73	17.87	17.78	18.5	3.5		
10	25GQAM	1	49	17.71	17.75	17.76	18.5	3.5		
10	25GQAM	25	0	17.84	17.83	17.84	18.5	3.5		
10	25GQAM	25	12	17.80	17.81	17.86	18.5	3.5		
10	25GQAM	25	25	17.69	17.82	17.85	18.5	3.5		
10	25GQAM	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	22.15	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	22.04	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	21.16	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	25GQAM	1	0	18.24	18.20	18.37	18.24	18.24		
20	25GQAM	1	49	18.27	18.18	18.37	18.18	18.24		
20	25GQAM	1	99	18.10	18.08	18.23	18.15	18.15		
20	25GQAM	50	0	18.14	18.14	18.24	18.15	18.15		
20	25GQAM	50	24	18.18	18.14	18.24	18.15	18.14		
20	25GQAM	50	49	18.12	18.05	18.20	18.09	18.10		
20	25GQAM	100	0	18.14	18.16	18.28	18.10	18.10		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.37	22.62	22.51	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	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	1	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	20.26	20.19	20.26	24	0		
15	HQAM	36	20	20.09	20.09	20.26	24	0		
15	HQAM	36	39	19.75	19.75	19.75	24	0		
15	HQAM	75	0	19.95	20.05	20.09	24	0		
15	25GQAM	1	0	18.15	18.14	18.28	18.15	18.15		
15	25GQAM	1	37	18.10	18.04	18.15	18.12	18.12		
15	25GQAM	1	74	18.04	18.02	18.12	18.11	18.08		
15	25GQAM	36	0	18.07	18.07	18.21	18.13	18.15		
15	25GQAM	36	20	18.03	18.03	18.16	18.05	18.05		
15	25GQAM	36	39	18.08	17.93	18.11	18.02	18.01		
15	25GQAM	75	0	18.10	18.11	18.16	18.03	18.00		
Channel										



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 (dB)	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	25.48	25.50	25.52	25.54	25.56	26	0
20	QPSK	1	99	25.32	25.34	25.36	25.38	25.40	25.42	26	0
20	QPSK	50	0	25.42	25.34	25.26	25.18	25.10	25.02	26	0
20	QPSK	50	24	25.32	25.43	25.54	25.65	25.76	25.87	26	0
20	QPSK	100	0	25.32	25.40	25.48	25.56	25.64	25.72	26	0
20	IQAM	1	0	25.56	25.46	25.36	25.26	25.16	25.06	26	0
20	IQAM	1	49	25.35	25.39	25.43	25.47	25.51	25.55	26	0
20	IQAM	1	99	25.20	25.34	25.42	25.44	25.42	25.22	26	0
20	IQAM	50	0	24.26	24.15	24.06	24.07	24.10	24.10	26	0
20	IQAM	50	24	24.19	24.20	24.20	24.13	24.07	24.07	26	0
20	IQAM	100	0	24.11	24.05	24.17	24.11	24.07	24.07	26	1
20	IQAM	100	0	24.25	24.21	24.20	24.15	24.10	24.10	26	0
20	IQAM	100	0	24.18	24.15	24.20	24.10	24.10	24.10	26	0
20	IQAM	100	0	24.02	24.11	24.10	24.10	24.10	23.96	26	1
20	IQAM	100	0	24.06	24.03	24.10	24.03	24.03	23.96	26	1
20	IQAM	50	0	23.26	23.22	23.38	23.20	23.14	23.14	26	0
20	IQAM	50	24	23.15	23.14	23.27	23.19	23.03	23.03	26	0
20	IQAM	50	50	23.14	23.10	23.21	23.15	23.06	23.06	26	0
20	IQAM	100	0	23.11	23.17	23.23	23.22	23.02	23.02	26	2
20	SSBAM	1	0	21.51	21.42	21.35	21.46	21.20	21.20	22	4
20	SSBAM	1	49	21.54	21.49	21.50	21.50	21.30	21.30	22	4
20	SSBAM	1	99	21.24	21.37	21.38	21.38	21.28	21.28	22	4
20	SSBAM	50	0	21.36	21.21	21.24	21.24	21.04	21.04	22	4
20	SSBAM	50	24	21.22	21.16	21.20	21.24	21.04	21.04	22	4
20	SSBAM	50	50	21.14	21.12	21.21	21.20	21.05	21.05	22	4
20	SSBAM	100	0	21.32	21.29	21.30	21.30	21.16	21.16	22	4
Channel											
Frequency (MHz)											
16	QPSK	1	0	25.52	25.47	25.50	25.53	25.56	25.59	26.00	0
16	QPSK	1	37	25.39	25.12	25.50	25.28	25.20	25.20	26.00	0
16	QPSK	1	74	25.13	25.30	25.35	25.24	25.21	25.21	26.00	0
16	QPSK	38	0	25.39	25.21	25.30	25.10	25.11	25.11	26.00	0
16	QPSK	38	20	25.20	25.06	25.34	25.19	24.95	24.95	26.00	0
16	QPSK	75	0	24.43	24.33	24.33	24.24	24.04	24.04	26.00	0
16	QPSK	75	0	25.24	25.15	25.23	25.15	25.00	25.00	26.00	0
16	IQAM	1	0	25.43	25.36	25.51	25.38	25.36	25.36	26.00	0
16	IQAM	1	37	25.35	25.30	25.35	25.34	25.29	25.29	26.00	0
16	IQAM	1	74	25.16	25.21	25.28	25.38	25.10	25.10	26.00	0
16	IQAM	38	0	24.22	24.02	24.24	24.16	23.97	23.97	26.00	0
16	IQAM	38	20	24.02	24.02	24.02	24.02	23.86	23.86	26.00	1
16	IQAM	38	39	24.08	23.99	24.08	24.06	23.86	23.86	26.00	1
16	IQAM	75	0	24.19	24.08	24.27	24.04	24.02	24.02	26.00	0
16	IQAM	1	0	24.04	24.10	24.16	24.16	23.99	23.99	26.00	1
16	IQAM	1	37	23.89	24.04	23.97	23.96	23.88	23.88	26.00	1
16	IQAM	1	74	24.03	23.89	24.10	23.94	23.92	23.92	26.00	0
16	IQAM	38	0	23.18	23.18	23.18	23.05	23.05	23.05	26.00	0
16	IQAM	38	20	23.05	23.09	23.22	23.15	22.97	22.97	26.00	2
16	IQAM	38	39	23.08	23.09	23.22	23.15	22.97	22.97	26.00	2
16	IQAM	75	0	23.04	23.03	23.05	23.15	22.92	22.92	26.00	0
16	SSBAM	1	0	21.43	21.39	21.51	21.39	21.22	21.22	22	4
16	SSBAM	1	37	21.47	21.47	21.47	21.47	21.30	21.30	22	4
16	SSBAM	1	74	21.20	21.26	21.32	21.23	21.11	21.11	22	4
16	SSBAM	38	0	21.24	21.17	21.34	21.25	21.10	21.10	22	4
16	SSBAM	38	20	21.08	21.12	21.21	21.15	21.09	21.09	22	4
16	SSBAM	38	39	21.10	21.08	21.07	21.09	20.98	20.98	22	4
16	SSBAM	75	0	21.21	21.12	21.31	21.16	21.07	21.07	22	4
Channel											
Frequency (MHz)											
10	QPSK	1	0	25.64	25.44	25.50	25.50	25.47	25.47	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	25.28	25.00	25.00	26.00	0
10	QPSK	25	12	25.28	25.00	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	IQAM	1	0	25.30	25.30	25.30	25.24	25.06	25.06	26.00	0
10	IQAM	1	0	25.47	25.40	25.60	25.41	25.36	25.36	26.00	0
10	IQAM	1	25	25.20	25.34	25.40	25.38	25.12	25.12	26.00	0
10	IQAM	1	49	25.21	25.21	25.21	25.16	24.97	24.97	26.00	0
10	IQAM	25	0	24.23	24.09	24.31	24.12	24.03	24.03	26.00	0
10	IQAM	25	12	24.02	24.16	24.22	24.06	23.91	23.91	26.00	0
10	IQAM	25	25	24.04	23.96	24.14	24.04	23.85	23.85	26.00	0
10	IQAM	50	0	24.18	24.14	24.28	24.08	24.13	24.13	26.00	1
10	IQAM	50	0	24.09	24.09	24.28	24.06	23.97	23.97	26.00	0
10	IQAM	50	0	23.94	23.98	24.02	23.92	23.86	23.86	26.00	1
10	IQAM	25	0	23.21	23.08	23.20	23.15	23.03	23.03	26.00	0
10	IQAM	25	12	23.05	23.10	23.24	23.09	22.89	22.89	26.00	2
10	IQAM	25	25	23.02	22.87	23.20	23.08	22.96	22.96	26.00	0
10	IQAM	50	0	22.97	22.97	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
10	SSBAM	1	25	21.51	21.26	21.47	21.39	21.25	21.25	22	4
10	SSBAM	1	49	21.14	21.20	21.25	21.30	21.22	21.22	22	4
10	SSBAM	25	0	21.28	21.21	21.30	21.32	21.20	21.20	22	4
10	SSBAM	25	12	21.00	21.04	21.20	21.17	20.94	20.94	22	4
10	SSBAM	25	25	20.99	21.07	21.13	21.15	20.96	20.96	22	4
10	SSBAM	50	0	21.28	21.16	21.27	21.11	21.02	21.02	22	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	25.42	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	25.32	25.41	25.39	25.00	25.00	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	IQAM	1	0	25.47	25.42	25.52	25.38	25.27	25.27	26.00	0
5	IQAM	1	12	25.29	25.29	25.33	25.35	25.24	25.24	26.00	0
5	IQAM	1	24	25.10	25.21	25.28	25.24	25.16	25.16	26.00	0
5	IQAM	12	0	24.20	24.02	24.31	24.20	24.02	24.02	26.00	0
5	IQAM	12	7	24.15	24.14	24.19	24.06	23.97	23.97	26.00	1
5	IQAM	12	13	24.06	23.98	24.01	24.07	23.89	23.89	26.00	0
5	IQAM	25	0	24.12	24.15	24.20	24.06	24.07	24.07	26.00	0
5	IQAM	1	0	24.07	24.10	24.21	24.09	24.00	24.00	26.00	0
5	IQAM	1	12	23.91	23.97	24.02	24.07	23.92	23.92	26.00	1
5	IQAM	1	24	23.97	23.99	24.11	23.99	23.86	23.86	26.00	1</



**CDMA2000 1X**

TX Channel	Burst Average Power (dBm)			Tx Power Limit (dBm)	Frame Average Power (dBm)			Tx Power Limit (dBm)
	198.2	199.1	201.1		198.2	199.1	201.1	
Frequency (MHz)	198.2	199.1	201.1		198.2	199.1	201.1	
OPNS 1 Tx Rate	31.42	31.48	31.36	32.00	22.42	22.48	22.36	23.00
OPNS 2 Tx Rate	31.38	31.44	31.33	32.00	22.38	22.44	22.33	23.00
OPNS 3 Tx Rate	29.27	29.30	29.32	29.50	22.27	22.29	22.30	23.00
OPNS 4 Tx Rate	26.80	26.91	26.80	28.00	22.24	22.05	22.44	23.14
EDGE 1 Tx Rate	24.00	24.17	24.05	25.00	18.03	18.17	18.05	18.00
EDGE 2 Tx Rate	22.00	22.41	22.34	23.00	16.00	16.41	16.34	17.00
EDGE 3 Tx Rate	21.15	21.21	21.08	22.00	15.89	15.97	15.82	17.74
EDGE 4 Tx Rate	18.99	19.06	18.93	20.00	15.99	16.08	15.91	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	199.9	199.8		199.2	199.9	199.8	
Frequency (MHz)	199.2 <td>199.9 <td>199.8 <td></td> <td>199.2 <td>199.9 <td>199.8 <td></td> </td></td></td></td></td>	199.9 <td>199.8 <td></td> <td>199.2 <td>199.9 <td>199.8 <td></td> </td></td></td></td>	199.8 <td></td> <td>199.2 <td>199.9 <td>199.8 <td></td> </td></td></td>		199.2 <td>199.9 <td>199.8 <td></td> </td></td>	199.9 <td>199.8 <td></td> </td>	199.8 <td></td>	
OPNS 1 Tx Rate	22.52	22.67	22.67	28.50	18.52	18.67	18.67	19.50
OPNS 2 Tx Rate	20.06	20.00	24.88	28.00	19.06	19.00	18.08	20.00
OPNS 3 Tx Rate	20.36	20.42	20.32	24.50	19.10	19.18	19.06	20.24
OPNS 4 Tx Rate	20.62	20.74	20.63	21.50	17.62	17.74	17.63	18.50
EDGE 1 Tx Rate	12.76	12.86	12.72	13.50	13.76	13.86	13.72	14.00
EDGE 2 Tx Rate	21.13	21.22	21.13	22.00	15.13	15.22	15.13	16.00
EDGE 3 Tx Rate	14.86	14.96	14.86	21.00	13.86	13.96	13.74	18.74
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			WCDMA IV Rev E			WCDMA V Rev E			Tx Power Limit (dBm)
	1692.4	1699.4	1697.6	1712.4	1712.6	1712.6	1816.4	1816.4	1816.6	
Frequency (MHz)	1692.4 <td>1699.4 <td>1697.6 <td>1712.4 <td>1712.6 <td>1712.6 <td>1816.4 <td>1816.4 <td>1816.6 <td></td> </td></td></td></td></td></td></td></td>	1699.4 <td>1697.6 <td>1712.4 <td>1712.6 <td>1712.6 <td>1816.4 <td>1816.4 <td>1816.6 <td></td> </td></td></td></td></td></td></td>	1697.6 <td>1712.4 <td>1712.6 <td>1712.6 <td>1816.4 <td>1816.4 <td>1816.6 <td></td> </td></td></td></td></td></td>	1712.4 <td>1712.6 <td>1712.6 <td>1816.4 <td>1816.4 <td>1816.6 <td></td> </td></td></td></td></td>	1712.6 <td>1712.6 <td>1816.4 <td>1816.4 <td>1816.6 <td></td> </td></td></td></td>	1712.6 <td>1816.4 <td>1816.4 <td>1816.6 <td></td> </td></td></td>	1816.4 <td>1816.4 <td>1816.6 <td></td> </td></td>	1816.4 <td>1816.6 <td></td> </td>	1816.6 <td></td>	
HSRPA	21.46	21.50	21.44	23.00	21.42	21.44	21.31	21.00	21.14	21.04
HSRPA Subnet 1	20.85	20.64	20.47	22.00	20.46	20.57	20.32	22.00	20.23	20.20
HSRPA Subnet 2	20.48	20.51	20.52	22.00	20.42	20.50	20.41	22.00	20.12	20.17
HSRPA Subnet 3	20.02	20.14	20.10	21.50	19.91	20.02	19.95	21.50	19.87	19.89
HSRPA Subnet 4	19.56	20.14	20.06	21.50	19.87	20.31	19.64	21.50	19.56	19.69
HSRPA Subnet 5	20.50	20.70	20.45	22.00	20.46	20.63	20.35	22.00	20.21	20.31
DCHSRPA Subnet 1	20.37	20.42	20.36	22.00	20.33	20.29	20.28	22.00	20.08	19.94
DCHSRPA Subnet 2	19.00	19.96	19.92	21.50	19.94	19.94	19.86	21.50	19.95	19.98
DCHSRPA Subnet 3	19.87	19.84	19.89	21.50	19.82	19.80	19.83	21.50	19.49	19.47
HRPA Subnet 1	20.96	20.81	20.80	22.00	20.43	20.98	20.66	22.00	20.16	20.29
HRPA Subnet 2	18.83	18.87	18.82	20.00	18.42	18.53	18.39	20.00	18.09	18.19
HRPA Subnet 3	18.00	18.00	18.00	21.00	18.48	18.51	18.49	21.00	18.18	18.18
HRPA Subnet 4	18.46	18.48	18.44	20.00	18.37	18.45	18.35	20.00	18.04	18.14
HRPA Subnet 5	20.59	20.40	20.39	22.00	20.58	20.36	20.33	22.00	20.21	20.03





Band 2 Ant1													
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power Ch./Freq.	Power Ch./Freq.	Turn-up time (min)	MPE (dB)					
Channel													
Frequency (MHz)													
20	QPSK	1	0	20.99	21.00	20.98			22	0			
20	QPSK	1	49	20.98	20.99	20.98							
20	QPSK	1	99	20.96	20.96	20.99							
20	QPSK	50	0	20.99	21.04	20.89							
20	QPSK	50	24	20.87	20.99	20.89							
20	QPSK	50	49	20.98	20.92	20.89			22	0			
20	QPSK	100	0	20.99	20.96	20.87							
20	QPSK	100	24	20.86	20.92	20.87							
20	16QAM	1	49	20.77	20.83	20.79			22	0			
20	16QAM	1	99	20.69	20.73	20.77							
20	16QAM	50	0	20.82	20.88	20.78							
20	16QAM	50	24	20.72	20.85	20.59			21.5	0.5			
20	16QAM	100	0	20.72	20.79	20.69							
20	16QAM	100	24	20.76	20.85	20.77							
20	64QAM	1	0	20.71	20.80	20.71			21.5	0.5			
20	64QAM	1	49	20.67	20.76	20.72							
20	64QAM	50	0	20.86	20.94	20.81							
20	64QAM	50	24	20.77	20.92	20.69			20.5	1.5			
20	64QAM	100	0	20.72	20.79	20.69							
20	64QAM	100	24	20.76	20.85	20.77							
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	17.86	17.92	17.88							
20	256QAM	50	24	17.73	17.80	17.80			18.5	3.5			
20	256QAM	100	0	17.75	17.81	17.69							
20	256QAM	100	24	17.79	17.87	17.69							
Channel													
Frequency (MHz)													
15	QPSK	1	0	20.86	21.02	20.89			22	0			
15	QPSK	1	49	20.79	20.87	20.89							
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							
15	QPSK	96	39	20.90	20.83	20.73			22	0			
15	QPSK	75	0	20.82	20.96	20.87							
15	QPSK	75	24	20.75	20.91	20.81							
15	16QAM	1	37	20.76	20.73	20.84			22	0			
15	16QAM	50	0	20.82	20.87	20.87							
15	16QAM	50	24	20.72	20.81	20.87							
15	16QAM	96	39	20.84	20.84	20.69			21.5	0.5			
15	16QAM	75	0	20.73	20.83	20.75							
15	64QAM	1	0	20.70	20.72	20.87			21.5	0.5			
15	64QAM	1	49	20.69	20.85	20.55							
15	64QAM	50	0	19.72	19.88	19.74							
15	64QAM	50	24	19.76	19.87	19.89							
15	64QAM	96	39	19.71	19.83	19.81			20.5	1.5			
15	64QAM	75	0	19.86	19.82	19.78							
15	256QAM	1	37	17.86	17.89	17.86			18.5	3.5			
15	256QAM	1	74	17.78	17.85	17.72							
15	256QAM	50	0	17.81	17.86	17.82							
15	256QAM	50	24	17.73	17.82	17.78			18.5	3.5			
15	256QAM	96	39	17.66	17.74	17.65							
15	256QAM	75	0	17.73	17.81	17.68							
Channel													
Frequency (MHz)													
10	QPSK	1	0	20.81	20.95	20.82			22	0			
10	QPSK	1	49	20.71	20.84	20.82							
10	QPSK	1	99	20.70	20.85	20.84							
10	QPSK	50	0	20.84	20.95	20.84							
10	QPSK	50	24	20.84	20.95	20.84							
10	QPSK	25	25	20.64	20.71	20.87			22	0			
10	QPSK	25	49	20.63	20.78	20.87							
10	16QAM	1	0	20.77	20.85	20.88							
10	16QAM	1	25	20.71	20.71	20.71			22	0			
10	16QAM	50	0	20.82	20.79	20.79							
10	16QAM	50	24	20.82	20.87	20.87							
10	16QAM	25	12	20.69	20.80	20.82			21.5	0.5			
10	16QAM	25	49	20.69	20.89	20.59							
10	16QAM	50	0	20.69	20.89	20.87							
10	64QAM	1	0	20.66	20.71	20.87			21.5	0.5			
10	64QAM	1	37	20.66	20.78	20.64							
10	64QAM	1	49	20.65	20.62	20.81							
10	64QAM	25	0	19.63	19.76	19.72							
10	64QAM	25	49	19.62	19.87	19.62			20.5	1.5			
10	64QAM	50	0	19.66	19.69	19.80							
10	64QAM	50	24	19.65	19.89	19.62							
10	256QAM	1	25	17.81	17.82	17.82			18.5	3.5			
10	256QAM	1	49	17.83	17.82	17.82							
10	256QAM	50	0	17.82	17.86	17.86							
10	256QAM	50	24	17.82	17.83	17.81			18.5	3.5			
10	256QAM	25	25	17.81	17.87	17.84							
10	256QAM	25	49	17.82	17.88	17.82							
Channel													
Frequency (MHz)													
5	QPSK	1	0	20.81	20.95	20.82			22	0			
5	QPSK	1	12	20.75	20.90	20.88							
5	QPSK	1	24	20.66	20.87	20.70							
5	QPSK	1	49	20.64	20.84	20.81							
5	QPSK	12	7	20.67	20.95	20.88			22	0			
5	QPSK	12	13	20.86	20.84	20.73							
5	QPSK	25	25	20.67	20.94	20.79							
5	16QAM	1	0	20.78	20.90	20.78							
5	16QAM	1	12	20.73	20.74	20.73			22	0			
5	16QAM	50	0	20.82	20.87	20.71							
5	16QAM	50	12	20.83	20.83	20.78							
5	16QAM	12	7	20.79	20.79	20.64			21.5	0.5			
5	16QAM	12	13	20.71	20.76	20.82							
5	16QAM	25	0	20.73	20.78	20.74							
5	64QAM	1	0	19.71	19.82	19.67							
5	64QAM	1	12	19.75	19.87	19.67			20.5	1.5			
5	64QAM	50	0	19.79	19.77	19.82							
5	64QAM	50	12	19.81	19.82	19.81							
5	64QAM	12	13	19.73	19.82	19.69			20.5	1.5			
5	64QAM	25	0	19.80	19.78	19.79							
5	256QAM	1	12	17.78	17.81	17.81			18.5	3.5			
5	256QAM	1	24	17.79	17.86	17.81							
5	256QAM	50	0	17.80	17.86	17.80							
5	256QAM	50	12	17.78	17.84	17.81			18.5	3.5			
5	256QAM	12	7	17.82	17.84	17.81							
5	256QAM	12	13	17.79	17.86	17.80							
5	256QAM	25	0	17.78	17.84	17.73							
Channel													
Frequency (MHz)													
3	QPSK	1	0	20.51	21.00	20.51			22	0			
3	QPSK	1	14	20.76	20.94	20.81							
3	QPSK	1	28	20.66	20.89	20.83							
3	QPSK	50	0	20.84	20.94	20.84							
3	QPSK	8	7	20.82	21.00	20.88			22	0			
3	QPSK	8	7	20.61	20.84	20.71							
3	16QAM	1	0	20.82	20.94	20.71							
3	16QAM	1	8	20.72	20.75	20.77			22	0			
3	16QAM	50	0	20.85	20.88	20.87							
3	16QAM	8	4	20.74	20.88	20.78			21.5	0.5			
3	16QAM	8	4	20.72	20.89	20.64							
3	16QAM	15	0</										



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)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.81	21.73	21.68				
10	QPSK	1	25	21.92	21.84	21.82				
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	21.63				
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	21.60	21.40				
10	16QAM	1	0	21.34	21.50	21.36		22.5	0.5	
10	16QAM	1	25	21.26	21.32	21.33				
10	16QAM	1	49	21.24	21.38	21.28				
10	16QAM	25	0	20.49	20.53	20.43				
10	16QAM	25	12	20.57	20.43	20.31		21.5	1.5	
10	16QAM	25	25	20.33	20.34	20.33				
10	16QAM	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	18.35	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	21.68	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	21.48	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	21.22	21.37	21.31				
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	16QAM	1	0	21.20	21.36	21.22		22.5	0.5	
5	16QAM	1	12	21.15	21.32	21.20				
5	16QAM	1	24	21.13	21.25	21.20				
5	16QAM	12	0	20.31	20.41	20.36				
5	16QAM	12	7	20.33	20.34	20.16		21.5	1.5	
5	16QAM	12	13	20.17	20.20	20.15				
5	16QAM	25	0	20.15	20.22	20.24				
5	256QAM	1	0	18.36	18.42	18.36				
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	18.27	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)										
3	QPSK	1	0	21.62	21.63	21.55				
3	QPSK	1	14	21.42	21.43	21.38				
3	QPSK	1	7	21.55	21.60	21.48				
3	QPSK	3	0	21.48	21.52	21.39				
3	QPSK	3	7	21.32	21.40	21.38		23	0	
3	QPSK	3	14	21.35	21.37	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	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	16QAM	15	0	21.22	21.47	21.39				
3	16QAM	1	0	21.20	21.40	21.29		22.5	0.5	
3	16QAM	1	8	21.12	21.28	21.18				
3	16QAM	1	14	21.12	21.23	21.16				
3	16QAM	8	0	20.37	20.43	20.39				
3	16QAM	8	4	20.33	20.28	20.25		21.5	1.5	
3	16QAM	8	7	20.16	20.19	20.27				
3	16QAM	15	0	20.19	20.25	20.22				
3	256QAM	1	0	18.30	18.42	18.36				
3	256QAM	1	8	18.27	18.49	18.43		19.5	3.5	
3	256QAM	1	14	18.28	18.33	18.26				
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	18.29				
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	21.57	21.40				
1.4	QPSK	3	1	21.48	21.50	21.39				
1.4	QPSK	3	3	21.35	21.39	21.35		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				
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	21.35				
1.4	16QAM	6	0	21.21	21.48	21.34		22.5	0.5	
1.4	16QAM	1	0	21.28	21.41	21.27				
1.4	16QAM	1	3	21.13	21.21	21.19				
1.4	16QAM	1	5	21.19	21.28	21.18		22.5	0.5	
1.4	16QAM	3	0	21.23	21.36	21.32				
1.4	16QAM	3	3	21.23	21.23	21.20				
1.4	16QAM	3	3	21.10	21.22	21.17				
1.4	16QAM	6	0	20.39	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	18.50	18.44				
1.4	256QAM	3	0	18.29	18.26	18.24		19.5	3.5	
1.4	256QAM	3	3	18.27	18.30	18.30				
1.4	256QAM	3	1	18.14	18.20	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 Ant1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up Int. (sec)	MPR (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				
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	21.51	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				
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	21.49	21.49	21.49				
10	16QAM	1	0	21.19	21.19	21.19		22.5	0.5	
10	16QAM	1	25	21.04	21.04	21.04	</			



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	21.05	20.96				
20	QPSK	50	24	20.84	20.97	20.91				
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	20.95	20.89	22	0		
20	16QAM	1	99	20.78	20.89	20.84				
20	16QAM	50	0	20.84	21.00	20.92				
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	20.82	20.97	20.89	22	0		
20	64QAM	1	99	20.89	20.99	20.80				
20	64QAM	50	0	20.89	21.01	20.89				
20	64QAM	50	24	20.81	20.99	20.84	22	0		
20	64QAM	50	50	20.79	20.78	20.74				
20	64QAM	100	0	20.86	20.95	20.92				
20	256QAM	1	0	17.89	18.07	17.86				
20	256QAM	1	49	17.92	18.07	17.88	19	3		
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	20.91	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	20.75	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	22	0		
19	64QAM	1	37	20.75	20.87	20.77				
19	64QAM	1	74	20.74	20.85	20.70				
19	64QAM	36	0	20.78	20.86	20.75	22	0		
19	64QAM	36	20	20.82	20.83	20.60				
19	64QAM	75	0	20.77	20.81	20.88				
19	256QAM	1	0	17.86	18.03	17.86				
19	256QAM	1	37	17.88	18.03	17.78	19	3		
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	17.67				
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	22	0		
19	64QAM	1	49	20.77	20.87	20.77				
19	64QAM	1	49	20.84	20.80	20.88				
19	64QAM	25	0	20.79	20.88	20.74	22	0		
19	64QAM	25	12	20.68	20.86	20.82				
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	256QAM	1	26	17.88	17.99	17.74	19	3		
19	256QAM	1	49	17.81	17.75	17.62				
19	256QAM	12	0	17.80	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)										
19	QPSK	1	0	20.84	21.00	20.92				
19	QPSK	1	12	20.80	20.84	20.89	22	0		
19	QPSK	1	24	20.69	20.81	20.89				
19	QPSK	12	0	20.78	20.86	20.86				
19	QPSK	12	7	20.73	20.83	20.74	22	0		
19	QPSK	12	13	20.64	20.80	20.74				
19	16QAM	1	0	20.81	20.90	20.86				
19	16QAM	1	9	20.73	20.92	20.82	22	0		
19	16QAM	1	12	20.73	20.81	20.75				
19	16QAM	1	24	20.68	20.71	20.76				
19	16QAM	12	0	20.77	20.90	20.89				
19	16QAM	12	7	20.72	20.78	20.72	22	0		
19	16QAM	12	13	20.64	20.74	20.67				
19	16QAM	25	0	20.69	20.84	20.83				
19	64QAM	1	0	20.85	21.04	20.91	22	0		
19	64QAM	1	9	20.80	20.89	20.81				
19	64QAM	1	24	20.77	20.79	20.89				
19	64QAM	12	0	20.79	20.92	20.84	22	0		
19	64QAM	12	7	20.77	20.79	20.79				
19	64QAM	12	13	20.59	20.68	20.83				
19	64QAM	25	0	20.74	20.84	20.86				
19	256QAM	1	0	17.77	18.03	17.77				
19	256QAM	1	12	17.81	18.02	17.74	19	3		
19	256QAM	1	24	17.73	17.70	17.69				
19	256QAM	12	0	17.76	17.78	17.75				
19	256QAM	12	7	17.70	17.71	17.74	19	3		
19	256QAM	12	10	17.82	17.70	17.74				
19	256QAM	25	0	17.83	18.04	17.83				
Channel										
Frequency (MHz)										
19	QPSK	1	0	20.84	21.00	20.92				
19	QPSK	1	8	20.75	20.83	20.87	22	0		
19	QPSK	1	14	20.71	20.87	20.79				
19	QPSK	8	0	20.81	21.02	20.81				
19	QPSK	8	4	20.73	20.83	20.70	22	0		
19	QPSK	8	7	20.69	20.70	20.71				
19	16QAM	1	0	20.81	20.94	20.83				
19	16QAM	1	8	20.81	20.99	20.86	22	0		
19	16QAM	1	14	20.65	20.76	20.72				
19	16QAM	8	0	20.76	20.86	20.79				
19	16QAM	8	4	20.67	20.84	20.72	22	0		
19	16QAM	15	0	20.60	20.69	20.61				
19	16QAM	15	6	20.74	20.88	20.83				
19	64QAM	1	0	20.84	21.00	20.87	22	0		
19	64QAM	1	8	20.86	20.92	20.76				
19	64QAM	1	14	20.81	20.76	20.69				
19	64QAM	8	0	20.76	20.86	20.79				
19	64QAM	8	4	20.71	20.78	20.73	22	0		
19	64QAM	8	7	20.64	20.63	20.67				</



Band 66 Ant1										
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	20.88	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	20.90	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	22	0		
20	256QAM	1	0	17.69	17.80	17.65				
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	17.85				
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	20.76	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	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	20.78	20.65				
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	20.88	20.70	22	0		
15	64QAM	1	0	20.71	20.80	20.69				
15	64QAM	1	37	20.63	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	20.48	20.48				
15	64QAM	36	39	20.48	20.52	20.38	22	0		
15	64QAM	75	0	20.67	20.69	20.68				
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	17.73	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	17.43	17.74				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.71	21.01	20.71				
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	20.76	20.78	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	22	0		
10	16QAM	25	25	20.66	20.69	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				
10	64QAM	25	25	20.47	20.46	20.45	22	0		
10	64QAM	50	0	20.67	20.79	20.75				
10	256QAM	1	0	17.86	17.82	17.82				
10	256QAM	1	25	17.86	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	20.71	20.80	20.71				
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	20.84	20.80				
5	QPSK	12	7	20.76	20.70	20.71	22	0		
5	QPSK	12	13	20.67	20.60	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	20.69				
5	64QAM	1	0	20.70	20.83	20.66				
5	64QAM	1	12	20.65	20.71	20.64	22	0		
5	64QAM	1	24	20.62	20.54	20.61				
5	64QAM	12	0	20.53	20.67	20.60				
5	64QAM	12	7	20.48	20.59	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	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	17.49				
5	256QAM	12	7	17.54	17.50	17.47				
5	256QAM	12	13	17.39	17.49	17.44	19	3		
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	20.83	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	20.68	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	20.65	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	20.53					



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	23	0	
20	16QAM	50	24	21.91	21.95	21.93	23	0	
20	16QAM	50	50	21.88	21.92	21.89	23	0	
20	16QAM	100	0	21.99	22.09	21.96	23	0	
20	16QAM	100	0	22.25	22.47	22.59	23	0	
20	16QAM	100	49	22.28	22.36	22.28	23	0	
20	16QAM	50	0	21.93	22.11	22.03	23	0	
20	16QAM	50	24	21.89	22.03	21.90	23	0	
20	16QAM	50	50	21.90	21.94	21.85	23	0	
20	16QAM	100	0	21.91	22.05	21.96	23	0	
20	16QAM	100	0	18.83	18.90	18.86	20.5	2.5	
20	16QAM	100	49	18.79	18.90	18.78	20.5	2.5	
20	16QAM	100	99	18.76	18.77	18.78	20.5	2.5	
20	16QAM	50	0	18.96	18.97	18.97	20.5	2.5	
20	16QAM	50	24	18.97	18.96	18.96	20.5	2.5	
20	16QAM	50	50	18.89	18.85	18.84	20.5	2.5	
20	16QAM	100	0	18.90	18.91	18.90	20.5	2.5	
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.27	22.09	22.25	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	22.16	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	21.84	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	22.12	22.37	22.38	23	0	
15	16QAM	1	37	22.17	22.28	22.23	23	0	
15	16QAM	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	21.68	21.82	21.86	23	0	
15	16QAM	75	0	21.82	21.91	21.85	23	0	
15	16QAM	1	0	18.77	18.90	18.81	20.5	2.5	
15	16QAM	1	37	18.73	18.91	18.72	20.5	2.5	
15	16QAM	1	74	18.67	18.74	18.74	20.5	2.5	
15	16QAM	36	0	18.86	18.91	18.92	20.5	2.5	
15	16QAM	36	20	18.94	18.94	18.94	20.5	2.5	
15	16QAM	36	36	18.85	18.88	18.84	20.5	2.5	
15	16QAM	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	22.16	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	50	0	21.87	22.00	21.86	23	0	
10	16QAM	1	0	22.18	22.33	22.27	23	0	
10	16QAM	1	0	21.76	21.87	21.76	23	0	
10	16QAM	25	12	21.77	21.87	21.71	23	0	
10	16QAM	50	0	21.77	21.85	21.81	23	0	
10	16QAM	50	0	18.78	18.92	18.70	20.5	2.5	
10	16QAM	1	25	18.84	18.91	18.72	20.5	2.5	
10	16QAM	1	49	18.82	18.73	18.68	20.5	2.5	
10	16QAM	25	0	18.83	18.91	18.88	20.5	2.5	
10	16QAM	25	12	18.96	18.93	18.94	20.5	2.5	
10	16QAM	25	25	18.77	18.84	18.87	20.5	2.5	
10	16QAM	50	0	18.91	18.94	18.88	20.5	2.5	
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	0	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	19	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	18.73	18.88	18.71	20.5	2.5	
5	16QAM	1	12	18.72	18.87	18.66	20.5	2.5	
5	16QAM	1	24	18.64	18.73	18.70	20.5	2.5	
5	16QAM	12	0	18.87	18.99	18.90	20.5	2.5	
5	16QAM	12	7	18.82	18.81	18.84	20.5	2.5	
5	16QAM	12	13	18.85	18.88	18.90	20.5	2.5	
5	16QAM	25	0	18.95	18.92	18.91	20.5	2.5	

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	23.50	24	0	
20	QPSK	50	24	23.50	23.52	23.50	24	0	
20	QPSK	100	0	23.60	23.58	23.52	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	21.87	21.86	21.83	21	3	
20	16QAM	50	24	21.84	21.89	21.82	21	3	
20	16QAM	50	50	21.49	21.56	21.50	21	3	
20	16QAM	100	0	21.48	21.69	21.74	21	3	
20	16QAM	100	0	21.75	21.78	21.71	21	3	
20	16QAM	100	49	21.72	21.74	21.69	21	3	
20	16QAM	50	0	20.89	20.85	20.74	20	3	
20	16QAM	50	24	20.46	20.58	20.46	20	3	
20	16QAM	50	50	20.00	20.48	20.02	20	3	
20	16QAM	100	0	20.88	20.67	20.70	20	3	
20	16QAM	100	0	18.62	18.40	18.70	18.50	18.65	
20	16QAM	100	49	18.64	18.47	18.70	18.50	18.56	
20	16QAM	100	99	18.43	18.43	18.53	18.51	18.38	
20	16QAM	50	0	22.39	22.62	22.54	22.50	22.67	
20	16QAM	50	24	22.31	22.39	22.44	22.34	22.27	
20	16QAM	50	50	22.24	22.32	22.24	22.24	22.27	
20	16QAM	100	0	22.40	22.38	22.40	22.35	22.39	
20	16QAM	100	0	22.80	22.47	22.68	22.55	22.57	
20	16QAM	100	49	22.48	22.45	22.59	22.45	22.52	
20	16QAM	100	99	22.47	22.38	22.52	22.42	22.44	
20	16QAM	36	0	21.47	21.49	21.60	21.43	21.57	
20	16QAM	36	20	21.44	21.52	21.43	21.42	21.38	
20	16QAM	36	36	21.25	21.35	21.45	21.30	21.25	
20	16QAM	75	0	21.49	21.46	21.70	21.54	21.57	
20	16QAM	75	0	21.59	21.59	21.51	21.56	21.60	
20	16QAM	1	37	21.52	21.54	21.49	21.44	21.47	
20	16QAM	1	74	21.50	21.46	21.44	21.47	21.57	
20	16QAM	36	0						



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	25.63	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	25.61	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	25.25	27	0
20	16QAM	1	0	25.18	25.28	25.42	25.23	25.34	25.32	27	0
20	16QAM	1	49	25.20	25.14	25.39	25.18	25.28	25.29	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	24.29	24.29	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	23.39	23.46	23.46	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	25QAM	1	0	21.81	21.69	21.88	21.44	21.88	21.88	23	4
20	25QAM	1	49	21.29	21.41	21.61	21.42	21.52	21.52	23	4
20	25QAM	1	99	21.30	21.36	21.55	21.41	21.51	21.51	23	4
20	25QAM	50	0	21.27	21.29	21.44	21.24	21.44	21.44	23	4
20	25QAM	50	24	21.27	21.23	21.46	21.24	21.39	21.39	23	4
20	25QAM	50	50	21.23	21.26	21.41	21.26	21.35	21.35	23	4
20	25QAM	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	24.20	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	24.36	24.36	26	1
15	16QAM	36	29	24.22	24.15	24.44	24.25	24.31	24.31	26	1
15	16QAM	36	59	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	24.21	24.39	24.39	25	2
15	16QAM	75	0	24.10	24.25	24.32	24.15	24.23	24.23	25	2
15	25QAM	1	0	21.44	21.44	21.54	21.33	21.45	21.45	23	4
15	25QAM	1	37	21.26	21.29	21.52	21.31	21.42	21.42	23	4
15	25QAM	1	74	21.25	21.29	21.52	21.31	21.41	21.41	23	4
15	25QAM	36	0	21.28	21.27	21.39	21.26	21.30	21.30	23	4
15	25QAM	36	29	21.22	21.14	21.34	21.21	21.27	21.27	23	4
15	25QAM	36	59	21.14	21.22	21.37	21.12	21.30	21.30	23	4
15	25QAM	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	24.17	24.18	24.35	24.17	24.34	24.34	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	26	0	24.21	24.28	24.44	24.26	24.39	24.39	26	1
10	16QAM	26	19	24.23	24.19	24.46	24.18	24.29	24.29	26	1
10	16QAM	26	38	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	24	24.44	24.56	24.74	24.48	24.63	24.63	26	1
10	16QAM	1	26	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	24.23	24.28	24.51	24.21	24.36	24.36	25	2
10	16QAM	25	12	24.29	24.27	24.41	24.17	24.32	24.32	25	2
10	16QAM	25	25	24.25	24.12	24.45	24.19	24.38	24.38	25	2
10	16QAM	50	0	24.14	24.16	24.35	24.25	24.35	24.35	25	2
10	25QAM	1	0	21.45	21.46	21.56	21.35	21.48	21.48	23	4
10	25QAM	1	49	21.26	21.25	21.47	21.33	21.42	21.42	23	4
10	25QAM	25	0	21.33	21.29	21.44	21.25	21.41	21.41	23	4
10	25QAM	25	12	21.29	21.11	21.35	21.18	21.39	21.39	23	4
10	25QAM	25	25	21.11	21.14	21.27	21.11	21.25	21.25	23	4
10	25QAM	50	0	21.04	21.04	21.24	21.09	21.18	21.18	23	4
Channel											
Frequency (MHz)											
5	QPSK	1	0	24.38	24.27	24.47	24.27	24.48	24.48	27.00	0
5	QPSK	1	12	24.27	24.39	24.54	24.28	24.47	24.47	27.00	0
5	QPSK	1	24	24.15	24.21	24.39	24.19	24.29	24.29	27	0
5	QPSK	10	0	24.09	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	24.06	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	26	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	24.46	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	24.40	24.41	24.58	24.42	24.53	24.53	26	1
5	16QAM	10	0	24.24	24.31	24.46	24.24	24.31	24.31	25	2
5	16QAM	10	7	24.20	24.20	24.44	24.24	24.42	24.42	25	2
5	16QAM	12	13	24.31	24.11	24.46	24.25	24.37	24.37	25	2
5											



COM1900 Awd											
Tx Channel	Band Average Power (dBm)			Tx Power (dBm)	Frame Average Power (dBm)			Tx Power (dBm)			
	852	861	870		852	861	870				
Receiving (dBm)	180.2	180.3	180.3	180.2	180.2	180.0	180.3	180.2			
OMA 1 Tx Watt	28.25	28.33	28.19	29.00	19.25	19.33	19.30	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	15.46	15.52	15.40	20.00			
OPNS 3 Tx Watt	23.98	24.13	24.00	25.00	13.72	13.87	13.74	20.74			
OPNS 4 Tx Watt	21.92	22.00	21.98	23.00	11.92	11.99	11.98	20.00			
EDGE 1 Tx Watt	23.59	23.64	23.61	24.00	14.59	14.64	14.61	15.00			
EDGE 2 Tx Watt	21.56	21.60	21.52	22.00	11.56	11.60	11.52	17.00			
EDGE 3 Tx Watt	20.78	20.85	20.70	21.00	10.78	10.85	10.64	17.34			
EDGE 4 Tx Watt	18.71	18.74	18.68	19.00	8.71	8.74	8.68	16.00			

  

WCCMA IV Awd											
Tx Channel	WCCMA II			Tx Power (dBm)	WCCMA IV			Tx Power (dBm)			
	9802	9803	9808		9812	9813	9818				
Receiving (dBm)	99.2	99.0	99.9	99.2	99.0	99.9	99.2				
AWG 12 200us	21.00	21.00	21.46	23.00	21.42	21.44	21.97				
RMS 15 200us	21.54	21.52	21.49	23.00	21.47	21.53	21.44				
HEOPA Subclass 1	20.93	20.74	20.49	22.00	20.97	20.68	20.92				
HEOPA Subclass 2	20.58	20.60	20.53	22.00	20.47	20.61	20.43				
HEOPA Subclass 3	20.11	20.27	20.34	21.00	19.91	20.24	19.89				
HEOPA Subclass 4	20.02	20.18	20.09	21.00	19.98	20.06	20.02				
DC-HEOPA Subclass 1	20.55	20.73	20.51	22.00	20.46	20.50	20.39				
DC-HEOPA Subclass 2	19.34	19.41	19.40	20.00	19.25	19.31	19.31				
DC-HEOPA Subclass 3	19.88	19.98	19.84	21.00	19.80	19.87	19.83				
DC-HEOPA Subclass 4	19.93	19.90	19.92	21.00	19.78	19.90	19.84				
HEOPA Subclass 1	20.59	20.72	20.71	22.00	20.49	20.65	20.60				
HEOPA Subclass 2	19.52	19.60	19.45	20.00	19.44	19.49	19.29				
HEOPA Subclass 3	19.58	19.62	19.60	21.00	19.49	19.51	19.48				
HEOPA Subclass 4	18.43	18.27	18.41	20.00	18.38	18.44	18.33				
HEOPA Subclass 5	20.92	20.92	20.92	22.00	20.49	20.53	20.49				



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	20.72	20.84	20.72				
20	QPSK	50	0	21.06	21.20	21.10				
20	QPSK	50	24	21.04	21.16	21.04				
20	QPSK	50	50	20.88	21.01	20.86				
20	QPSK	100	0	21.01	21.12	21.03				
20	QPSK	100	24	21.06	21.18	21.06				
20	QPSK	150	0	20.92	21.07	20.92				
20	QPSK	150	49	20.74	20.89	20.74				
20	QPSK	150	99	20.54	20.70	20.54				
20	QPSK	300	0	20.80	20.90	20.84				
20	QPSK	300	24	20.82	20.94	20.84				
20	QPSK	300	49	20.76	20.86	20.81				
20	QPSK	300	74	20.70	20.80	20.75				
20	QPSK	300	99	20.64	20.74	20.69				
20	QPSK	600	0	20.97	21.10	21.00				
20	QPSK	600	49	21.01	21.17	21.04				
20	QPSK	600	99	20.95	21.13	21.04				
20	QPSK	600	124	20.89	21.07	20.92				
20	QPSK	600	149	20.83	21.01	20.86				
20	QPSK	600	174	20.77	20.95	20.86				
20	QPSK	600	199	20.71	20.89	20.80				
20	QPSK	600	224	20.65	20.83	20.74				
20	QPSK	600	249	20.59	20.77	20.68				
20	QPSK	600	274	20.53	20.71	20.62				
20	QPSK	600	299	20.47	20.65	20.56				
20	QPSK	600	324	20.41	20.59	20.50				
20	QPSK	600	349	20.35	20.53	20.44				
20	QPSK	600	374	20.29	20.47	20.38				
20	QPSK	600	399	20.23	20.41	20.32				
20	QPSK	600	424	20.17	20.35	20.26				
20	QPSK	600	449	20.11	20.29	20.20				
20	QPSK	600	474	20.05	20.23	20.14				
20	QPSK	600	499	19.99	20.17	20.08				
20	QPSK	600	524	19.93	20.11	20.02				
20	QPSK	600	549	19.87	20.05	19.96				
20	QPSK	600	574	19.81	19.99	19.90				
20	QPSK	600	599	19.75	19.93	19.84				
20	QPSK	600	624	19.69	19.87	19.78				
20	QPSK	600	649	19.63	19.81	19.72				
20	QPSK	600	674	19.57	19.75	19.66				
20	QPSK	600	699	19.51	19.69	19.60				
20	QPSK	600	724	19.45	19.63	19.54				
20	QPSK	600	749	19.39	19.57	19.48				
20	QPSK	600	774	19.33	19.51	19.42				
20	QPSK	600	799	19.27	19.45	19.36				
20	QPSK	600	824	19.21	19.39	19.30				
20	QPSK	600	849	19.15	19.33	19.24				
20	QPSK	600	874	19.09	19.27	19.18				
20	QPSK	600	899	19.03	19.21	19.12				
20	QPSK	600	924	18.97	19.15	19.06				
20	QPSK	600	949	18.91	19.09	19.00				
20	QPSK	600	974	18.85	19.03	18.94				
20	QPSK	600	999	18.79	18.97	18.88				
20	QPSK	600	1024	18.73	18.91	18.82				
20	QPSK	600	1049	18.67	18.85	18.76				
20	QPSK	600	1074	18.61	18.79	18.70				
20	QPSK	600	1099	18.55	18.73	18.64				
20	QPSK	600	1124	18.49	18.67	18.58				
20	QPSK	600	1149	18.43	18.61	18.52				
20	QPSK	600	1174	18.37	18.55	18.46				
20	QPSK	600	1199	18.31	18.49	18.40				
20	QPSK	600	1224	18.25	18.43	18.34				
20	QPSK	600	1249	18.19	18.37	18.28				
20	QPSK	600	1274	18.13	18.31	18.22				
20	QPSK	600	1299	18.07	18.25	18.16				
20	QPSK	600	1324	18.01	18.19	18.10				
20	QPSK	600	1349	17.95	18.13	18.04				
20	QPSK	600	1374	17.89	18.07	17.98				
20	QPSK	600	1399	17.83	18.01	17.92				
20	QPSK	600	1424	17.77	17.95	17.86				
20	QPSK	600	1449	17.71	17.89	17.80				
20	QPSK	600	1474	17.65	17.83	17.74				
20	QPSK	600	1499	17.59	17.77	17.68				
20	QPSK	600	1524	17.53	17.71	17.62				
20	QPSK	600	1549	17.47	17.65	17.56				
20	QPSK	600	1574	17.41	17.59	17.50				
20	QPSK	600	1599	17.35	17.53	17.44				
20	QPSK	600	1624	17.29	17.47	17.38				
20	QPSK	600	1649	17.23	17.41	17.32				
20	QPSK	600	1674	17.17	17.35	17.26				
20	QPSK	600	1699	17.11	17.29	17.20				
20	QPSK	600	1724	17.05	17.23	17.14				
20	QPSK	600	1749	16.99	17.17	17.08				
20	QPSK	600	1774	16.93	17.11	17.02				
20	QPSK	600	1799	16.87	17.05	16.96				
20	QPSK	600	1824	16.81	16.99	16.90				
20	QPSK	600	1849	16.75	16.93	16.84				
20	QPSK	600	1874	16.69	16.87	16.78				
20	QPSK	600	1899	16.63	16.81	16.72				
20	QPSK	600	1924	16.57	16.75	16.66				
20	QPSK	600	1949	16.51	16.69	16.60				
20	QPSK	600	1974	16.45	16.63	16.54				
20	QPSK	600	1999	16.39	16.57	16.48				
20	QPSK	600	2024	16.33	16.51	16.42				
20	QPSK	600	2049	16.27	16.45	16.36				
20	QPSK	600	2074	16.21	16.39	16.30				
20	QPSK	600	2099	16.15	16.33	16.24				
20	QPSK	600	2124	16.09	16.27	16.18				
20	QPSK	600	2149	16.03	16.21	16.12				
20	QPSK	600	2174	15.97	16.15	16.06				
20	QPSK	600	2199	15.91	16.09	16.00				
20	QPSK	600	2224	15.85	16.03	15.94				
20	QPSK	600	2249	15.79	15.97	15.88				
20	QPSK	600	2274	15.73	15.91	15.82				
20	QPSK	600	2299	15.67	15.85	15.76				
20	QPSK	600	2324	15.61	15.79	15.70				
20	QPSK	600	2349	15.55	15.73	15.64				
20	QPSK	600	2374	15.49	15.67	15.58				
20	QPSK	600	2399	15.43	15.61	15.52				
20	QPSK	600	2424	15.37	15.55	15.46				
20	QPSK	600	2449	15.31	15.49	15.40				
20	QPSK	600	2474	15.25	15.43	15.34				
20	QPSK	600	2499	15.19	15.37	15.28				
20	QPSK	600	2524	15.13	15.31	15.22				
20	QPSK	600	2549	15.07	15.25	15.16				
20	QPSK	600	2574	15.01	15.19	15.10				
20	QPSK	600	2599	14.95	15.13	15.04				
20	QPSK	600	2624	14.89	15.07	14.98				
20	QPSK	600	2649	14.83	15.01	14.92				
20	QPSK	600	2674	14.77	14.95	14.86				
20	QPSK	600	2699	14.71	14.89	14.80				
20	QPSK	600	2724	14.65	14.83	14.74				
20	QPSK	600	2749	14.59	14.77	14.68				
20	QPSK	600	2774	14.53	14.71	14.62				
20	QPSK	600	2799	14.47	14.65	14.56				





Band 12 Ant2										
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	22.51	22.62	22.50				
10	QPSK	1	25	22.40	22.42	22.48				
10	QPSK	1	49	22.26	22.48	22.18			24	0
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			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	22.40			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	22.36	22.15				
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	22.18				
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	24	19.20	19.43	19.25			21	3
5	256QAM	1	49	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	22.03	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	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			24	0
3	16QAM	1	8	22.18	22.38	22.18				
3	16QAM	8	0	22.37	22.41	22.40				
3	16QAM	8	4	22.18	22.35	22.29			24	0
3	16QAM	15	0	22.13	22.38	22.18				
3	8QAM	1	0	22.27	22.31	22.21			24	0
3	8QAM	1	8	22.34	22.38	22.28				
3	8QAM	1	14	22.06	22.38	22.20				
3	8QAM	8	0	21.12	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	20.99				
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				
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	1	0	22.33	22.34	22.32				
1.4	16QAM	1	3	22.32	22.40	22.40				
1.4	16QAM	1	3	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	6	0	22.33	22.34	22.32			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				
1.4	8QAM	3	3	22.15	22.29	22.21			22.5	1.5
1.4	8QAM	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	0	19.10	19.34	19.30			21	3
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 High Ch / Freq	Power High Ch / Freq	Tune-up Int. (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.53					24	0
10	QPSK	1	25	22.43						
10	QPSK	1	49	22.43						
10	QPSK	25	0	22.46					24	0
10	QPSK	25	12	22.35						
10	QPSK	25	25	22.26						
10	QPSK	50	0	22.32						
10	16QAM	1	0	22.46						
10	16QAM	1	25	22.47					24	0
10	16QAM	1	49	22.40						
10	16QAM	25	0	22.54						
10	16QAM	25	12	22.35					24	0
10	16QAM	25	25	22.28						
10	16QAM	50	0	22.45						
10	8QAM	1	0	22.38						
10	8QAM	1	25	22.42					24	0
10	8QAM	1	49	22.41						
10	8QAM	25	0	21.30						
10	8QAM	25	12	21.20					22.5	1.5
10	8QAM	25	25	21.04						
10	8QAM	50	0	21.28						
10	256QAM	1	25	19.09					21	3
10	256QAM	1	49	19.30						
10	256QAM	25	12	19.22						



Band 25 Ant2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power Hsp Ch./F.Freq.	Power Hsp Ch./F.Freq.	Turn-up (dB)	MPR (dB)		
Channel	Frequency (MHz)	1860	1868	1868	1868	1868	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	50	0	23.18	23.22	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	22.95	23.14	23.07			24	0
20	16QAM	1	99	22.99	23.09	23.07				
20	16QAM	50	0	23.02	23.04	23.04				
20	16QAM	50	24	22.84	22.89	22.90				
20	16QAM	50	50	22.77	22.84	22.87				
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	22.99			24	0
20	16QAM	100	74	22.90	22.94	22.90				
20	16QAM	100	99	22.90	22.94	22.90				
20	16QAM	200	0	23.02	23.04	23.04				
20	16QAM	200	24	23.02	23.04	23.04				
20	16QAM	200	49	23.02	23.04	23.04				
20	16QAM	200	74	23.02	23.04	23.04				
20	16QAM	200	99	23.02	23.04	23.04				
20	16QAM	400	0	22.96	22.96	22.97			23	1
20	16QAM	400	24	22.96	22.96	22.97				
20	16QAM	400	49	22.96	22.96	22.97				
20	16QAM	400	74	22.96	22.96	22.97				
20	16QAM	400	99	22.96	22.96	22.97				
20	25QAM	1	49	19.98	19.98	19.97			21	3
20	25QAM	1	99	19.98	19.98	19.97				
20	25QAM	50	0	19.98	19.98	19.97				
20	25QAM	50	50	19.98	19.98	19.97				
20	25QAM	100	0	19.98	19.98	19.97				
20	25QAM	100	50	19.98	19.98	19.97				
20	25QAM	200	0	19.98	19.98	19.97				
20	25QAM	200	50	19.98	19.98	19.97				
20	25QAM	400	0	19.98	19.98	19.97				
20	25QAM	400	50	19.98	19.98	19.97				
20	25QAM	800	0	19.98	19.98	19.97				
20	25QAM	800	50	19.98	19.98	19.97				
20	25QAM	1600	0	19.98	19.98	19.97				
20	25QAM	1600	50	19.98	19.98	19.97				
20	25QAM	3200	0	19.98	19.98	19.97				
20	25QAM	3200	50	19.98	19.98	19.97				
20	25QAM	6400	0	19.98	19.98	19.97				
20	25QAM	6400	50	19.98	19.98	19.97				
20	25QAM	12800	0	19.98	19.98	19.97				
20	25QAM	12800	50	19.98	19.98	19.97				
20	25QAM	25600	0	19.98	19.98	19.97				
20	25QAM	25600	50	19.98	19.98	19.97				
20	25QAM	51200	0	19.98	19.98	19.97				
20	25QAM	51200	50	19.98	19.98	19.97				
20	25QAM	102400	0	19.98	19.98	19.97				
20	25QAM	102400	50	19.98	19.98	19.97				
20	25QAM	204800	0	19.98	19.98	19.97				
20	25QAM	204800	50	19.98	19.98	19.97				
20	25QAM	409600	0	19.98	19.98	19.97				
20	25QAM	409600	50	19.98	19.98	19.97				
20	25QAM	819200	0	19.98	19.98	19.97				
20	25QAM	819200	50	19.98	19.98	19.97				
20	25QAM	1638400	0	19.98	19.98	19.97				
20	25QAM	1638400	50	19.98	19.98	19.97				
20	25QAM	3276800	0	19.98	19.98	19.97				
20	25QAM	3276800	50	19.98	19.98	19.97				
20	25QAM	6553600	0	19.98	19.98	19.97				
20	25QAM	6553600	50	19.98	19.98	19.97				
20	25QAM	13107200	0	19.98	19.98	19.97				
20	25QAM	13107200	50	19.98	19.98	19.97				
20	25QAM	26214400	0	19.98	19.98	19.97				
20	25QAM	26214400	50	19.98	19.98	19.97				
20	25QAM	52428800	0	19.98	19.98	19.97				
20	25QAM	52428800	50	19.98	19.98	19.97				
20	25QAM	104857600	0	19.98	19.98	19.97				
20	25QAM	104857600	50	19.98	19.98	19.97				
20	25QAM	209715200	0	19.98	19.98	19.97				
20	25QAM	209715200	50	19.98	19.98	19.97				
20	25QAM	419430400	0	19.98	19.98	19.97				
20	25QAM	419430400	50	19.98	19.98	19.97				
20	25QAM	838860800	0	19.98	19.98	19.97				
20	25QAM	838860800	50	19.98	19.98	19.97				
20	25QAM	1677721600	0	19.98	19.98	19.97				
20	25QAM	1677721600	50	19.98	19.98	19.97				
20	25QAM	3355443200	0	19.98	19.98	19.97				
20	25QAM	3355443200	50	19.98	19.98	19.97				
20	25QAM	6710886400	0	19.98	19.98	19.97				
20	25QAM	6710886400	50	19.98	19.98	19.97				
20	25QAM	13421772800	0	19.98	19.98	19.97				
20	25QAM	13421772800	50	19.98	19.98	19.97				
20	25QAM	26843545600	0	19.98	19.98	19.97				
20	25QAM	26843545600	50	19.98	19.98	19.97				
20	25QAM	53687091200	0	19.98	19.98	19.97				
20	25QAM	53687091200	50	19.98	19.98	19.97				
20	25QAM	107374182400	0	19.98	19.98	19.97				
20	25QAM	107374182400	50	19.98	19.98	19.97				
20	25QAM	214748364800	0	19.98	19.98	19.97				
20	25QAM	214748364800	50	19.98	19.98	19.97				
20	25QAM	429496729600	0	19.98	19.98	19.97				
20	25QAM	429496729600	50	19.98	19.98	19.97				
20	25QAM	858993459200	0	19.98	19.98	19.97				
20	25QAM	858993459200	50	19.98	19.98	19.97				
20	25QAM	1717986918400	0	19.98	19.98	19.97				
20	25QAM	1717986918400	50	19.98	19.98	19.97				
20	25QAM	3435973836800	0	19.98	19.98	19.97				
20	25QAM	3435973836800	50	19.98	19.98	19.97				
20	25QAM	6871947673600	0	19.98	19.98	19.97				
20	25QAM	6871947673600	50	19.98	19.98	19.97				
20	25QAM	13743895347200	0	19.98	19.98	19.97				
20	25QAM	13743895347200	50	19.98	19.98	19.97				
20	25QAM	27487790694400	0	19.98	19.98	19.97				
20	25QAM	27487790694400	50	19.98	19.98	19.97				
20	25QAM	54975581388800	0	19.98	19.98	19.97				
20	25QAM	54975581388800	50	19.98	19.98	19.97				
20	25QAM	109951162777600	0	19.98	19.98	19.97				
20	25QAM	109951162777600	50	19.98	19.98	19.97				
20	25QAM	219902325555200	0	19.98	19.98	19.97				
20	25QAM	219902325555200	50	19.98	19.98	19.97				
20	25QAM	439804651110400	0	19.98	19.98	19.97				
20	25QAM	439804651110400	50	19.98	19.98	19.97				
20	25QAM	879609302220800	0	19.98	19.98	19.97				
20	25QAM	879609302220800	50	19.98	19.98	19.97				
20	25QAM	1759218644416000	0	19.98	19.98	19.97				
20	25QAM	1759218644416000	50	19.98	19.98	19.97				
20	25QAM	3518437288832000	0	19.98	19.98	19.97				
20	25QAM	3518437288832000	50	19.98	19.98	19.97				
20	25QAM	7036874577664000	0	19.98	19.98	19.97				
20	25QAM	7036874577664000	50	19.98	19.98	19.97				
20	25QAM	1407374915328000	0	19.98	19.98	19.97				
20	25QAM	1407374915328000	50	19.98	19.98	19.97				
20	25QAM	2814749830656000	0	19.98	19.98	19.97				
20	25QAM	2814749830656000	50	19.98	19.98	19.97				
20	25QAM	5629499661312000	0	19.98	19.98	19.97				
20	25QAM	5629499661312000	50	19.98	19.98	19.97				
20	25QAM	11258999322624000	0	19.98	19.98	19.97				
20	25QAM	11258999322624000	50	19.98	19.98	19.97				
20	25QAM	22517998645248000	0	19.98	19.98	19.97				
20	25QAM	22517998645248000	50	19.98	19.98	19.97				
20	25QAM	45035997290496000	0	19.98	19.98	19.97				
20	25QAM	45035997290496000	50	19.98	19.98	19.97				
20	25QAM	90071994580992000	0	19.98	19.98	19.97				
20	25QAM	90071994580992000								



Band 38 Ant2										
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	23	0		
20	QPSK	1	49	22.03	22.07	22.10	23	0		
20	QPSK	1	99	22.00	22.00	22.00	23	0		
20	QPSK	50	0	22.07	22.10	22.00	23	0		
20	QPSK	50	24	22.00	22.08	22.00	23	0		
20	QPSK	50	49	21.99	22.02	22.01	23	0		
20	QPSK	100	0	22.04	22.11	21.95	23	0		
20	HQAM	1	0	22.01	22.17	22.00	23	0		
20	HQAM	1	49	21.99	22.02	22.01	23	0		
20	HQAM	1	99	21.88	21.92	21.92	23	0		
20	HQAM	50	0	21.84	21.72	21.84	22.5	0.5		
20	HQAM	50	24	21.81	21.88	21.80	22.5	0.5		
20	HQAM	50	49	21.80	21.80	21.80	22.5	0.5		
20	HQAM	100	0	21.82	21.75	21.85	22.5	0.5		
20	HQAM	1	49	21.82	21.84	21.82	22.5	0.5		
20	HQAM	1	99	21.81	21.83	21.81	22.5	0.5		
20	HQAM	50	0	20.83	20.75	20.85	21.5	1.5		
20	HQAM	50	24	20.49	20.58	20.59	21.5	1.5		
20	HQAM	50	49	20.45	20.51	20.45	21.5	1.5		
20	HQAM	100	0	20.52	20.58	20.48	21.5	1.5		
20	25QAM	1	0	18.57	18.78	18.55	19.5	3.5		
20	25QAM	1	49	18.54	18.78	18.50	19.5	3.5		
20	25QAM	1	99	18.45	18.58	18.50	19.5	3.5		
20	25QAM	50	0	18.42	18.57	18.48	19.5	3.5		
20	25QAM	50	24	18.58	18.62	18.54	19.5	3.5		
20	25QAM	50	49	18.45	18.58	18.48	19.5	3.5		
20	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	22.5	0.5		
15	HQAM	1	74	21.76	21.78	21.78	22.5	0.5		
15	HQAM	36	0	21.40	21.61	21.41	22.5	0.5		
15	HQAM	36	20	21.42	21.42	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	21.83	21.80	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	37	18.45	18.64	18.53	19.5	3.5		
15	25QAM	1	74	18.39	18.44	18.41	19.5	3.5		
15	25QAM	36	0	18.58	18.72	18.59	19.5	3.5		
15	25QAM	36	20	18.50	18.61	18.50	19.5	3.5		
15	25QAM	36	39	18.33	18.46	18.43	19.5	3.5		
15	25QAM	75	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	22.5	0.5		
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	21.86	21.80	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		
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.10	22.19	22.05	23	0		
5	QPSK	1	12	21.91	21.93	21.92	23	0		
5	QPSK	1	24	21.89	22.00	21.80	23	0		
5	QPSK	12	0	21.84	22.11	21.80	23	0		
5	QPSK	12	7	21.84	22.02	21.80	23	0		
5	QPSK	12	13	21.88	21.89	21.81	23	0		
5	QPSK	25	0	21.90	21.87	21.80	23	0		
5	HQAM	1	0	21.91	22.04	22.04	23	0		
5	HQAM	1	12	21.95	21.90	21.89	23	0		
5	HQAM	1	24	21.74	21.78	21.80	22.5	0.5		
5	HQAM	12	0	21.42	21.67	21.42	22.5	0.5		
5	HQAM	12	7	21.40	21.41	21.39	22.5	0.5		
5	HQAM	12	13	21.38	21.37	21.31	22.5	0.5		
5	HQAM	25	0	21.39	21.59	21.44	22.5	0.5		
5	HQAM	1	0	21.48	21.73	21.50	22.5	0.5		
5	HQAM	1	12	21.42	21.67	21.46	22.5	0.5		
5	HQAM	1	24	21.39	21.48	21.40	22.5	0.5		
5	HQAM	12	0	20.51	20.68	20.50	21.5	1.5		
5	HQAM	12	7	20.42	20.54	20.55	21.5	1.5		
5	HQAM	12	13	20.40	20.40	20.44	21.5	1.5		
5	HQAM	25	0	20.40	20.30	20.44	21.5	1.5		
5	25QAM	1	0	18.53	18.74	18.53	19.5	3.5		
5	25QAM	1	12	18.41	18.74	18.51	19.5	3.5		
5	25QAM	1	24	18.41	18.67	18.50	19.5	3.5		
5	25QAM	12	0	18.50	18.49	18.45	19.5	3.5		
5	25QAM	12	13	18.39	18.43	18.41	19.5	3.5		
5	25QAM	25	0	18.46	18.61	18.40	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	Turn-up time (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.00	23.03	23.03	24	0		
20	QPSK	1	49	23.45	23.42	23.37	23.61	23.44		
20	QPSK	1	99	23.38	23.31	23.14	23.65	23.39		
20	QPSK	50	0	23.78	23.65	23.52	23.72	23.97		
20	QPSK	50	24	23.55	23.61	23.69	23.57	23.87		
20	QPSK	50	49	23.58	23.52	23.47	23.54	23.84		
20	QPSK	100	0	23.52	23.47	23.58	23.39	23.82		
20	HQAM	1	0	23.62	23.58	23.73	23.60	23.89		
20	HQAM	1	49	23.51	23.58	23.58	23.49	23.91		
20	HQAM	1	99	22.45	22.42	22.52	22.44	23.38		
20	HQAM	50	0	21.57	21.58	21.68	21.40	21.81		
20	HQAM	50	24	21.58	21.51	21.50	21.51	21.68		
20	HQAM	50	49	21.42	21.44	21.53	21.41	21.40		
20	HQAM	100	0	21.69	21.57	21.66	21.52	21.64		
20	HQAM	1	49	21.53	21.52	21.62	21.58	21.54		
20	HQAM	1	99	21.43	21.48	21.48	21.51	21.43		
20	HQAM	50	0	20.55	20.49	20.54	20.46	20.55		
20	HQAM	50	24	20.42	20.38	20.47	20.49	20.38		
20	HQAM	50	49	20.30	20.40	20.45	20.43	20.30		
20	HQAM	100	0	20.43	20.54	20.57	20.51	20.53		
20	25QAM	1	0	18.60	18.53	18.69	18.55	18.61		
20	25QAM	1	49	18.56	18.52	18.69	18.54	18.56		
20	25QAM	1	99	18.48	18.38	18.52	18.51	18.42		
20	25QAM	50	0	18.38	18.50	18.50	18.50	18.38		
20	25QAM	50	24	18.32	18.45	18.46	18.42	18.31		
20	25QAM	100	0	18.55	18.56	18.55	18.55	18.55		
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.13	23.12	23.13	23.33	23.32		
15	QPSK	1	37	23.41	23.32	23.80	23.			





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)	1812.2	1862	1812.2	1800	1812.2	1862	1812.2	1800	
CSM 1 Tx Wd	20.56	20.68	20.63	30.00	20.56	20.68	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	21.05	21.12	20.97	30.00	21.05	21.12	20.97	22.00	
OPRS 3 Tx Wd	20.70	21.70	20.86	20.00	21.44	21.50	21.40	22.24	
OPRS 4 Tx Wd	20.14	20.27	21.40	24.00	20.14	20.27	20.68	21.00	
EDGE 1 Tx Wd	20.06	20.13	24.99	28.00	18.06	18.13	18.99	17.00	
EDGE 2 Tx Wd	21.33	21.43	20.49	24.00	17.33	17.43	17.48	18.00	
EDGE 3 Tx Wd	22.21	22.25	22.20	33.00	17.95	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	

  

WCDMA IV Awt									
Tx Channel	WCDMA II			Tuneup Limit	WCDMA IV			Tuneup Limit	
	882	960	858		1512	1683	1515		
Frequency (MHz)	882	960	858	1512	1683	1515	1512		
WCDMA II Wd	22.56	23.00	23.00	24.00	22.56	22.56	22.56	24.00	
WCDMA IV Wd	23.05	23.07	22.92	24.00	22.89	23.03	22.84	24.00	
WCDMA II Subcar-1	21.95	22.14	22.11	23.00	21.81	22.04	21.94	23.00	
WCDMA II Subcar-2	22.84	22.17	21.92	23.00	21.83	22.07	21.84	23.00	
WCDMA II Subcar-3	21.54	21.50	21.57	23.00	21.58	21.59	21.44	22.00	
WCDMA II Subcar-4	21.48	21.60	21.60	22.00	21.43	21.60	21.50	22.00	
DC-WCDMA Subcar-1	22.08	22.17	21.98	23.00	21.90	22.00	21.90	23.00	
DC-WCDMA Subcar-2	21.99	22.13	22.18	23.00	21.91	22.07	22.07	23.00	
DC-WCDMA Subcar-3	21.37	21.57	21.48	22.00	21.28	21.46	21.34	22.00	
DC-WCDMA Subcar-4	21.61	21.50	21.44	22.00	21.50	21.45	21.31	22.00	
HELPA Subcar-1	22.88	22.31	21.97	23.00	22.04	22.24	21.84	23.00	
HELPA Subcar-2	22.22	22.14	22.17	23.00	22.28	22.00	22.04	23.00	
HELPA Subcar-3	21.20	21.00	21.03	22.00	21.10	20.90	20.90	22.00	
HELPA Subcar-4	18.98	20.25	20.22	21.00	19.84	20.10	20.08	21.00	
HELPA Subcar-5	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 (sec)	MPE (dB)		
Channel										
20	QPSK	1	0	22.66	22.72	22.76				
20	QPSK	1	49	22.45	22.58	22.63	24	0		
20	QPSK	1	99	22.45	22.58	22.63				
20	QPSK	50	0	22.49	22.67	22.83				
20	QPSK	50	24	22.45	22.65	22.81				
20	QPSK	50	50	22.38	22.47	22.38	24	0		
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	100	0	22.32	22.38	22.31				
20	16QAM	100	24	22.38	22.49	22.32				
20	84QAM	1	0	22.29	22.47	22.31				
20	84QAM	1	49	22.29	22.29	22.29	24	0		
20	84QAM	1	99	22.28	22.48	22.37				
20	84QAM	50	0	22.28	22.48	22.34				
20	84QAM	50	24	22.28	22.34	22.34	24	0		
20	84QAM	100	0	22.42	22.46	22.38				
20	256QAM	1	49	19.47	19.63	19.48				
20	256QAM	1	99	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	19.39	21	3		
20	256QAM	50	50	19.25	19.35	19.32				
20	256QAM	100	0	19.43	19.39	19.39				

Channel										
Frequency (MHz)	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up (sec)	MPE (dB)					
1875.5	1880	1925.5								
18	QPSK	1	37	22.60	22.68	22.61				
18	QPSK	1	37	22.42	22.49	22.49	24	0		
18	QPSK	1	74	22.40	22.49	22.46				
18	QPSK	36	0	22.42	22.59	22.47				
18	QPSK	36	29	22.30	22.51	22.39	24	0		
18	QPSK	36	39	22.31	22.39	22.29				
18	QPSK	75	0	22.34	22.56	22.44				
18	16QAM	1	0	22.30	22.42	22.42				
18	16QAM	1	37	22.24	22.41	22.29	24	0		
18	16QAM	1	74	22.24	22.41	22.37				
18	16QAM	36	0	22.20	22.41	22.34				
18	16QAM	36	29	22.32	22.27	22.28	24	0		
18	16QAM	36	39	22.28	22.39	22.37				
18	16QAM	75	0	22.26	22.44	22.37				
18	84QAM	1	0	22.17	22.37	22.21				
18	84QAM	1	37	22.14	22.31	22.21	24	0		
18	84QAM	1	74	22.14	22.31	22.21				
18	84QAM	36	0	22.23	22.41	22.19				
18	84QAM	36	29	22.14	22.39	22.37	24	0		
18	84QAM	36	39	22.20	22.30	22.17				
18	84QAM	75	0	22.28	22.34	22.29				
18	256QAM	1	37	19.35	19.35	19.35				
18	256QAM	1	74	19.33	19.30	19.28	21	3		
18	256QAM	1	74	19.33	19.30	19.28				
18	256QAM	36	29	19.23	19.25	19.25	21	3		
18	256QAM	36	39	19.14	19.23	19.20				
18	256QAM	75	0	19.33	19.33	19.42				

Channel										
Frequency (MHz)	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up (sec)	MPE (dB)					
1885	1890	1925								
10	QPSK	1	25	22.46	22.54	22.50				
10	QPSK	1	49	22.34	22.52	22.43	24	0		
10	QPSK	1	99	22.38	22.51	22.49				
10	QPSK	25	12	22.37	22.52	22.43				
10	QPSK	25	25	22.27	22.33	22.27	24	0		
10	16QAM	1	0	22.30	22.40	22.40				
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	22.26	22.41	22.34				
10	16QAM	25	0	22.27	22.40	22.34				
10	16QAM	25	12	22.32	22.33	22.22	24	0		
10	16QAM	25	12	22.21	22.36	22.28				
10	16QAM	50	0	22.25	22.43	22.20				
10	84QAM	1	0	22.21	22.43	22.16				
10	84QAM	1	24	22.17	22.38	22.24	24	0		
10	84QAM	1	49	22.13	22.22	22.15				
10	84QAM	25	0	22.23	22.45	22.21				
10	84QAM	25	12	22.18	22.45	22.21	24	0		
10	84QAM	25	25	22.20	22.29	22.20				
10	84QAM	50	0	22.37	22.34	22.25				
10	256QAM	1	24	19.30	19.31	19.41				
10	256QAM	1	49	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	21	3		
10	256QAM	25	25	19.14	19.28	19.19				
10	256QAM	50	0	19.33	19.34	19.44				

Channel										
Frequency (MHz)	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up (sec)	MPE (dB)					
1882.5	1890	1925								
5	QPSK	1	12	22.39	22.54	22.46				
5	QPSK	1	24	22.38	22.51	22.49	24	0		
5	QPSK	12	0	22.34	22.44	22.44				
5	QPSK	12	7	22.34	22.45	22.41				
5	QPSK	12	13	22.27	22.39	22.33	24	0		
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	24	0		
5	16QAM	12	13	22.23	22.39	22.20				
5	16QAM	25	0	22.29	22.46	22.33				
5	84QAM	1	0	22.20	22.41	22.32				
5	84QAM	1	12	22.17	22.29	22.20	24	0		
5	84QAM	1	24	22.20	22.24	22.23				
5	84QAM	12	0	22.14	22.40	22.16				
5	84QAM	12	7	22.23	22.23	22.28	24	0		
5	84QAM	12	13	22.14	22.20	22.15				
5	84QAM	25	0	22.37	22.38	22.37				
5	256QAM	1	0	19.37	19.39	19.28				
5	256QAM	1	12	19.43	19.52	19.42	21	3		
5	256QAM	1	24	19.26	19.33	19.29				
5	256QAM	12	0	19.26	19.45	19.28				
5	256QAM	12	7	19.28	19.33	19.25	21	3		
5	256QAM	12	13	19.13	19.29	19.25				
5	256QAM	25	0	19.33	19.34	19.46				

Channel										
Frequency (MHz)	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up (sec)	MPE (dB)					
1861.5	1860	1915								
3	QPSK	1	8	22.37	22.51	22.45				
3	QPSK	1	14	22.39	22.51	22.41	24	0		
3	QPSK	8	0	22.43	22.48	22.44				
3	QPSK	8	4	22.39	22.42	22.43				
3	QPSK	8	7	22.36	22.33	22.34	24	0		
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	22.28	22.43	22.34				
3	16QAM	8	4	22.31	22.31	22.27				
3	16QAM	8	7	22.22	22.27	22.23	24	0		
3	16QAM	15	0	22.34	22.44	22.28				



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	22.55				
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	64QAM	1	0	22.39	22.55	22.46				
20	64QAM	1	48	22.36	22.40	22.32	24	0		
20	64QAM	1	96	21.45	21.56	21.45				
20	64QAM	50	0	21.38	21.36	21.36				
20	64QAM	50	24	21.38	21.33	21.34	23	1		
20	64QAM	50	50	21.59	21.64	21.57				
20	64QAM	100	0	19.67	19.69	19.62				
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				
15	QPSK	36	36	22.35	22.43	22.42	24	0		
15	16QAM	1	0	22.44	22.50	22.41				
15	16QAM	1	48	22.36	22.51	22.34	24	0		
15	16QAM	1	37	22.25	22.39	22.31				
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	64QAM	1	0	22.30	22.42	22.36				
15	64QAM	1	48	22.34	22.58	22.43	24	0		
15	64QAM	1	74	22.27	22.24	22.13				
15	64QAM	36	0	21.34	21.52	21.34				
15	64QAM	36	20	21.51	21.50	21.50	23	1		
15	64QAM	36	48	21.18	21.18	21.24				
15	64QAM	75	0	21.62	21.68	21.54				
15	256QAM	1	48	19.48	19.53	19.48	21	3		
15	256QAM	1	37	19.40	19.61	19.37				
15	256QAM	1	74	19.30	19.38	19.36				
15	256QAM	50	0	19.38	19.38	19.38				
15	256QAM	36	20	19.32	19.43	19.29	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	26	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	22.34	22.28				
10	16QAM	50	0	22.33	22.52	22.34				
10	64QAM	1	0	22.30	22.42	22.33				
10	64QAM	1	48	22.33	22.53	22.41	24	0		
10	64QAM	1	48	22.15	22.23	22.14				
10	64QAM	25	0	21.37	21.45	21.35				
10	64QAM	25	12	21.14	21.25	21.15	23	1		
10	64QAM	25	25	21.22	21.20	21.25				
10	64QAM	50	0	21.54	21.54	21.44				
10	256QAM	1	48	19.48	19.53	19.43	21	3		
10	256QAM	1	26	19.30	19.59	19.44				
10	256QAM	1	48	19.35	19.35	19.35				
10	256QAM	25	12	19.32	19.38	19.33	21	3		
10	256QAM	25	25	19.37	19.28	19.25				
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	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	22.45	22.40				
5	16QAM	12	0	22.24	22.48	22.23				
5	16QAM	12	7	22.33	22.29	22.26	24	0		
5	64QAM	1	0	22.30	22.34	22.29				
5	64QAM	1	24	22.14	22.24	22.25	24	0		
5	64QAM	12	0	21.34	21.47	21.36				
5	64QAM	12	13	21.28	21.24	21.29	23	1		
5	64QAM	12	13	21.12	21.27	21.24				
5	64QAM	25	0	21.48	21.59	21.49				
5	256QAM	1	48	19.57	19.57	19.38	21	3		
5	256QAM	1	12	19.38	19.52	19.31				
5	256QAM	1	24	19.31	19.30	19.26				
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	10	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	22.29	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	22.36				
3	16QAM	15	0	22.27	22.31	22.27				
3	64QAM	1	0	22.33	22.58	22.39				
3	64QAM	1	8	22.28	22.46	22.40	24	0		
3	64QAM	1	8	22.22	22.52	22.38				
3	64QAM	1	14	22.24	22.27	22.16				
3	64QAM	8	0	21.34	21.46	21.36				
3	64QAM	8	4	21.38	21.59	21.32	23	1		
3	64QAM	8	7	21.13	21.22	21.21				
3	256QAM	1	8	19.47	19.54	19.40	21	3		
3	256QAM	1	8	19.37	19.61	19.37				
3	256QAM	1	16	19.33	19.39	19.32				
3	256QAM	8	0	19.37	19.53	19.50	21	3		
3	256QAM	8	4	19.24	19.41	19.32				
3	256QAM	8	7	19.46	19.32	19.36	21	3		
3	256QAM</									



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)										
20	QPSK	1	0	23.49	23.52	23.54	24	0		
20	QPSK	1	49	23.37	23.45	23.50	24	0		
20	QPSK	1	99	23.36	23.39	23.40	24	0		
20	QPSK	50	0	23.52	23.52	23.58	24	0		
20	QPSK	50	24	23.25	23.36	23.38	24	0		
20	QPSK	50	50	23.21	23.24	23.25	24	0		
20	QPSK	100	0	23.24	23.45	23.38	24	0		
20	HQAM	1	0	23.16	23.37	23.21	24	0		
20	HQAM	1	49	23.24	23.24	23.24	24	0		
20	HQAM	1	99	23.09	23.24	23.13	24	0		
20	HQAM	50	0	22.77	22.86	22.86	23.5	0.5		
20	HQAM	50	24	22.82	22.87	22.87	23.5	0.5		
20	HQAM	50	50	22.73	22.74	22.71	23.5	0.5		
20	HQAM	100	0	22.66	22.67	22.66	23.5	0.5		
20	HQAM	1	49	22.77	22.87	22.81	23.5	0.5		
20	HQAM	1	99	22.66	22.76	22.65	23.5	0.5		
20	HQAM	50	0	21.80	22.01	21.90	22.5	1.5		
20	HQAM	50	24	21.82	21.80	21.80	22.5	1.5		
20	HQAM	50	50	21.72	21.88	21.79	22.5	1.5		
20	HQAM	100	0	21.97	22.01	21.91	22.5	1.5		
20	25QAM	1	0	19.81	20.02	19.87	20.5	3.5		
20	25QAM	1	49	19.81	20.02	19.85	20.5	3.5		
20	25QAM	1	99	19.80	19.77	19.79	20.5	3.5		
20	25QAM	50	0	19.80	19.84	19.80	20.5	3.5		
20	25QAM	50	24	19.88	19.85	19.87	20.5	3.5		
20	25QAM	50	50	19.82	19.85	19.77	20.5	3.5		
20	25QAM	100	0	19.83	19.83	19.83	20.5	3.5		
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.13	23.11	23.13	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	22.87	22.82	23.5	0.5		
15	HQAM	36	36	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	21.87	21.81	21.87	22.5	1.5		
15	HQAM	36	36	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	25QAM	1	0	19.75	19.85	19.75	20.5	3.5		
15	25QAM	1	37	19.88	19.83	19.78	20.5	3.5		
15	25QAM	1	74	19.89	19.83	19.88	20.5	3.5		
15	25QAM	36	0	19.80	19.89	19.76	20.5	3.5		
15	25QAM	36	20	19.82	19.73	19.82	20.5	3.5		
15	25QAM	36	36	19.77	19.77	19.86	20.5	3.5		
15	25QAM	75	0	19.88	19.80	19.85	20.5	3.5		
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.75	23.65	23.75	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	23.20	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	HQAM	1	0	23.10	23.33	23.10	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	21.81	21.88	22.5	1.5		
10	25QAM	1	0	19.73	19.91	19.75	20.5	3.5		
10	25QAM	1	25	19.74	19.88	19.72	20.5	3.5		
10	25QAM	1	49	19.87	19.84	19.75	20.5	3.5		
10	25QAM	25	0	19.76	19.85	19.73	20.5	3.5		
10	25QAM	25	12	19.85	19.79	19.85	20.5	3.5		
10	25QAM	25	25	19.78	19.81	19.85	20.5	3.5		
10	25QAM	50	0	19.84	20.05	19.85	20.5	3.5		
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.75	23.65	23.75	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	23.24	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	23.09	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	23.35	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	21.68	22.5	1.5		
5	HQAM	12	13	21.59	21.78	21.73	22.5	1.5		
5	HQAM	25	0	21.85	21.88	21.78	22.5	1.5		
5	25QAM	1	0	19.87	19.80	19.81	20.5	3.5		
5	25QAM	1	12	19.88	19.83	19.77	20.5	3.5		
5	25QAM	1	24	19.80	19.91	19.73	20.5	3.5		
5	25QAM	12	0	19.80	19.87	19.82	20.5	3.5		
5	25QAM	12	7	19.75	19.76	19.84	20.5	3.5		
5	25QAM	12	13	19.79	19.78	19.70	20.5	3.5		
5	25QAM	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)										
20	QPSK	1	0	23.43	23.43	23.43	24	0		
20	QPSK	1	49	23.34	23.31	23.45	24	0		
20	QPSK	1	99	23.26	23.36	23.35	24	0		
20	QPSK	50	0	22.51	22.43	22.50	23	1		
20	QPSK	50	24	22.38	22.33	22.44	23	1		
20	QPSK	50	50	22.32	22.35	22.37	23	1		
20	HQAM	1	0	22.43	22.38	22.53	23	1		
20	HQAM	1	49	22.82	22.73	22.86	23	1		
20	HQAM	1	99	22.85	22.89	22.81	23	1		
20	HQAM	50	0	21.97	21.91	21.86	22	2		
20	HQAM	50	24	21.99	21.40	21.45	22	2		
20	HQAM	50	50	21.36	21.41	21.48	22	2		
20	HQAM	100	0	21.66	21.57	21.67	22	2		
20	HQAM	1	49	21.63	21.55	21.69	22	2		
20	HQAM	1	99	21.60	21.60	21.57	22	2		
20	HQAM	50	0	20.84	20.70	20.86	20.7	3		
20	HQAM	50	24	20.58	20.60	20.76	20.62	3		
20	HQAM	50	50	20.64	20.60	20.71	20.72	3		
20	HQAM	100	0	20.67	20.71	20.81	20.66	3		
20	25QAM	1	0	18.42	18.31	18.52	18.40	18.47		
20	25QAM	1	49	18.39	18.36	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	18.48	18.54		
20	25QAM	50	24	18.41	18.48	18.51	18.43	18.38		
20	25QAM	50	50	18.43	18.35	18.48	18.38	18.42		
20	25QAM	100	0	18.52	18.52	18.52	18.52	18.52		
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.33	23.45	23.33	24	0		
15	QPSK	1	37	23.30	23.19	23.40	23.16	23.18		
15	QPSK	1								





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)	MPE (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	25.55			
20	HQAM	100	1	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	49	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	1	21.73	21.82	21.95	21.79	21.73			
20	HQAM	100	49	21.72	21.74	21.85	21.78	21.71			
20	HQAM	100	99	21.56	21.67	21.71	21.71	21.67			
20	HQAM	50	0	21.61	21.62	21.74	21.65	21.57			
20	HQAM	50	24	21.55	21.58	21.58	21.62	21.59			
20	HQAM	50	49	21.41	21.54	21.61	21.52	21.39			
20	HQAM	100	0	21.62	21.62	21.62	21.62	21.62			
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	25.62	25.80	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	25.79	25.57	25.47			
15	HQAM	1	37	25.57	25.61	25.69	25.60	25.53			
15	HQAM	1	74	25.31	25.46	25.46	25.33	25.37			
15	HQAM	38	0	24.42	24.63	24.62	24.52	24.43			
15	HQAM	38	20	24.38	24.47	24.61	24.42	24.41			
15	HQAM	38	39	24.34	24.44	24.50	24.42	24.32			
15	HQAM	75	0	24.44	24.52	24.57	24.51	24.41			
15	HQAM	1	0	21.63	21.70	21.81	21.66	21.62			
15	HQAM	1	37	21.62	21.63	21.63	21.63	21.63			
15	HQAM	1	74	21.50	21.59	21.68	21.68	21.58			
15	HQAM	38	0	21.47	21.50	21.67	21.61	21.43			
15	HQAM	38	20	21.44	21.55	21.66	21.56	21.55			
15	HQAM	38	39	21.33	21.40	21.57	21.43	21.33			
15	HQAM	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	25.69			
10	QPSK	1	25	25.64	25.63	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	25.29			
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	25.30			
10	HQAM	50	0	25.41	25.44	25.62	25.47	25.46			
10	HQAM	50	1	25.42	25.65	25.74	25.58	25.49			
10	HQAM	1	0	25.57	25.58	25.65	25.55	25.55			
10	HQAM	1	49	25.34	25.63	25.63	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	24.65	24.64	24.52	24.35			
10	HQAM	50	1	21.63	21.79	21.84	21.66	21.64			
10	HQAM	1	0	21.65	21.63	21.86	21.64	21.64			
10	HQAM	1	49	21.49	21.65	21.65	21.65	21.55			
10	HQAM	25	0	21.57	21.51	21.67	21.61	21.53			
10	HQAM	25	12	21.42	21.63	21.46	21.57	21.52			
10	HQAM	25	25	21.35	21.47	21.55	21.45	21.31			
10	HQAM	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	25.69	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	25.37			
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	24.40	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	HQAM	1	0	21.68	21.76	21.84	21.71	21.69			
5	HQAM	1	12	21.64	21.65	21.62	21.64	21.63			
5	HQAM	1	24	21.48	21.67	21.69	21.62	21.52			
5	HQAM	12	0	21.47	21.51	21.70	21.54	21.43			
5	HQAM	12	7	21.44	21.49	21.42	21.49	21.56			
5	HQAM	12	13	21.34	21.44	21					



Reduced Power Mode for DS12-Standalone

DS12G2 ZONE								
Row	TX Channel	Burst Average Power (dBm)			Turn-up Limit	Frame Average Power (dBm)		Turn-up Limit
		158	160	261	(dBm)	128	160	251
Frequency (MHz)		180.2	180.4	180.6		180.2	180.4	180.6
OPRM 1 Tx (dB)		32.90	32.97	32.94	33.00	23.90	23.97	23.94
OPRM 1 Tx (dB)		32.85	32.94	32.81	33.00	23.83	23.94	23.81
OPRM 2 Tx (dB)		25.30	25.41	25.26	25.30	23.90	23.41	23.26
OPRM 3 Tx (dB)		28.91	28.50	28.86	30.00	24.65	24.72	24.60
OPRM 4 Tx (dB)		25.41	25.41	25.40	27.50	22.41	22.47	22.40
EDGE 1 Tx (dB)		25.42	25.40	25.37	26.20	16.42	16.40	16.37
EDGE 2 Tx (dB)		22.77	22.60	22.70	25.00	17.77	17.60	17.70
EDGE 3 Tx (dB)		22.66	22.60	22.62	23.50	16.40	16.43	16.38
EDGE 4 Tx (dB)		20.59	20.63	20.60	21.50	17.59	17.63	17.60

  

DS12G3 ZONE								
Row	TX Channel	Burst Average Power (dBm)			Turn-up Limit	Frame Average Power (dBm)		Turn-up Limit
		151	160	160.8	(dBm)	124	160	160.8
Frequency (MHz)		180.2	180.4	180.6		180.2	180.4	180.6
OPRM 1 Tx (dB)		27.54	27.55	27.58	28.50	18.54	18.55	18.58
OPRM 2 Tx (dB)		24.84	24.94	24.83	26.00	18.84	18.94	18.83
OPRM 3 Tx (dB)		23.33	23.30	23.33	24.50	19.07	19.13	19.07
OPRM 4 Tx (dB)		20.70	20.70	20.68	21.50	17.70	17.70	17.68
EDGE 1 Tx (dB)		22.70	22.61	22.73	23.50	13.70	13.67	13.73
EDGE 2 Tx (dB)		21.89	21.10	21.11	22.00	15.59	15.10	15.11
EDGE 3 Tx (dB)		20.00	20.12	20.04	21.00	15.81	15.86	15.78
EDGE 4 Tx (dB)		17.58	17.55	17.54	17.50	15.86	15.84	15.80

  

WCDMA II A (dB)											
Row	TX Channel	WCDMA II A			Turn-up Limit	WCDMA IV A (dB)			WCDMA V A (dB)		
		1862	1860	1858	(dBm)	1812	1813	1813	4192	4182	4239
Frequency (MHz)		1862.4	1860	1860.8		1712.4	1712.8	1712.8	836.4	836.4	846.8
SCPP Ref #1	NR12-20ppp	20.57	20.65	20.53	22.00	20.39	20.47	20.38	22.00	22.43	22.40
SCPP Ref #2	NR12-20ppp	20.52	20.60	20.57	22.00	20.45	20.51	20.41	22.00	22.45	22.46
SCPP Ref #3	NR12-20ppp	19.72	19.78	19.70	21.00	19.50	19.68	19.50	21.00	21.55	21.48
SCPP Ref #4	NR12-20ppp	19.46	19.71	19.65	21.00	19.40	19.58	19.50	21.00	21.60	21.54
SCPP Ref #5	NR12-20ppp	19.19	19.25	19.23	20.50	19.00	19.11	19.08	20.50	21.61	21.54
SCPP Ref #6	NR12-20ppp	19.12	19.26	19.21	20.50	18.96	19.13	19.03	20.50	21.58	21.54
SCPP Ref #7	NR12-20ppp	19.70	19.80	19.64	21.00	19.54	19.68	19.48	21.00	21.62	21.42
SCPP Ref #8	NR12-20ppp	19.56	19.50	19.41	21.00	19.38	19.40	19.32	21.00	21.34	21.42
SCPP Ref #9	NR12-20ppp	19.08	19.12	19.05	20.50	18.92	19.03	18.89	20.50	20.99	20.92
SCPP Ref #10	NR12-20ppp	19.02	19.15	19.12	20.50	18.80	18.89	19.01	20.50	20.89	21.00
SCPP Ref #11	NR12-20ppp	19.86	19.71	19.70	21.00	19.55	19.61	19.61	21.00	21.61	21.68
SCPP Ref #12	NR12-20ppp	17.71	17.75	17.64	19.00	17.54	17.60	17.51	19.00	19.57	19.63
SCPP Ref #13	NR12-20ppp	18.88	18.78	18.70	20.00	18.52	18.58	18.38	20.00	20.52	20.81
SCPP Ref #14	NR12-20ppp	17.81	17.68	17.67	19.00	17.44	17.51	17.48	19.00	19.45	19.52
SCPP Ref #15	NR12-20ppp	19.64	19.60	19.52	21.00	19.53	19.48	19.38	21.00	21.55	21.44



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	21.91					
20	QPSK	50	24	21.46	21.56	21.50			22.5	1.5	
20	QPSK	50	50	21.42	21.48	21.53					
20	QPSK	100	0	21.43	21.52	21.38					
20	QPSK	100	24	19.82	19.88	19.85			20.5	3.5	
20	QPSK	100	49	19.82	19.88	19.80					
20	QPSK	150	0	19.86	19.82	19.57					
20	QPSK	150	24	19.82	19.86	19.86					
20	QPSK	150	50	19.80	19.73	19.63			20.5	3.5	
20	QPSK	150	99	19.70	19.81	19.78					
20	QPSK	150	149	19.87	19.87	19.87					
Channel	Frequency (MHz)	1897.5	1898.0	1902.5	Turn-up (min)	MPR (dB)					
15	QPSK	1	0	23.03	23.10	22.99					
15	QPSK	1	49	22.79	22.92	22.82			24	0	
15	QPSK	1	74	22.81	22.96	22.83					
15	QPSK	36	0	22.87	22.99	22.90					
15	QPSK	36	24	22.81	22.92	22.87					
15	QPSK	36	39	22.87	22.98	22.81			24	0	
15	QPSK	75	0	22.91	23.00	22.91					
15	QPSK	75	24	22.90	22.79	22.79					
15	QPSK	150	1	22.77	22.88	22.83			24	0	
15	QPSK	150	1	22.77	22.88	22.83					
15	QPSK	150	24	22.80	22.85	22.85					
15	QPSK	150	39	22.80	22.85	22.46			23.5	0.5	
15	QPSK	150	39	22.80	22.85	22.26					
15	QPSK	150	75	0	22.81	22.82					
15	QPSK	150	75	0	22.81	22.82					
15	QPSK	150	36	20	22.59	22.70	22.68			23.5	0.5
15	QPSK	150	36	20	22.59	22.70	22.68				
15	QPSK	150	75	0	22.82	22.81	22.68				
15	QPSK	150	75	0	22.82	22.81	22.68				
15	QPSK	150	1	0	22.89	22.84	22.66			23.5	0.5
15	QPSK	150	1	0	22.89	22.84	22.66				
15	QPSK	150	74	22.50	22.73	22.57			22.5	1.5	
15	QPSK	150	74	22.50	22.73	22.57					
15	QPSK	150	36	0	21.71	21.91	21.66				
15	QPSK	150	36	0	21.71	21.91	21.66				
15	QPSK	150	36	24	21.68	21.84	21.63			22.5	1.5
15	QPSK	150	36	24	21.68	21.84	21.63				
15	QPSK	150	75	0	21.68	21.84	21.63				
15	QPSK	150	75	0	21.68	21.84	21.63				
15	QPSK	150	1	37	19.58	19.71	19.70			20.5	3.5
15	QPSK	150	1	37	19.58	19.71	19.63				
15	QPSK	150	74	19.65	19.73	19.63					
15	QPSK	150	74	19.65	19.73	19.63					
15	QPSK	150	36	20	19.56	19.67	19.69			20.5	3.5
15	QPSK	150	36	20	19.56	19.67	19.69				
15	QPSK	150	75	0	19.61	19.84	19.71				
15	QPSK	150	75	0	19.61	19.84	19.71				
Channel	Frequency (MHz)	2090.0	2090.5	2095.0	Turn-up (min)	MPR (dB)					
15	QPSK	1	0	23.02	23.14	23.06					
15	QPSK	1	49	22.83	23.02	22.91			24	0	
15	QPSK	1	74	22.85	22.96	22.86					
15	QPSK	36	0	22.87	23.05	22.91					
15	QPSK	36	24	22.89	23.06	22.87					
15	QPSK	36	39	22.81	22.93	22.81			24	0	
15	QPSK	75	0	22.95	23.04	22.92					
15	QPSK	75	24	22.83	23.04	22.72					
15	QPSK	150	1	22.82	22.77	22.82			24	0	
15	QPSK	150	1	22.82	22.77	22.82					
15	QPSK	150	24	22.82	22.84	22.87					
15	QPSK	150	36	20	22.59	22.70	22.68			23.5	0.5
15	QPSK	150	36	20	22.59	22.70	22.68				
15	QPSK	150	75	0	22.82	22.81	22.68				
15	QPSK	150	75	0	22.82	22.81	22.68				
15	QPSK	150	1	0	22.89	22.84	22.66			23.5	0.5
15	QPSK	150	1	0	22.89	22.84	22.66				
15	QPSK	150	74	22.50	22.73	22.57			22.5	1.5	
15	QPSK	150	74	22.50	22.73	22.57					
15	QPSK	150	36	0	21.71	21.91	21.66				
15	QPSK	150	36	0	21.71	21.91	21.66				
15	QPSK	150	36	24	21.68	21.84	21.63			22.5	1.5
15	QPSK	150	36	24	21.68	21.84	21.63				
15	QPSK	150	75	0	21.68	21.84	21.63				
15	QPSK	150	75	0	21.68	21.84	21.63				
15	QPSK	150	1	37	19.58	19.71	19.70			20.5	3.5
15	QPSK	150	1	37	19.58	19.71	19.63				
15	QPSK	150	74	19.65	19.73	19.63					
15	QPSK	150	74	19.65	19.73	19.63					
15	QPSK	150	36	20	19.56	19.67	19.69			20.5	3.5
15	QPSK	150	36	20	19.56	19.67	19.69				
15	QPSK	150	75	0	19.61	19.84	19.71				
15	QPSK	150	75	0	19.61	19.84	19.71				
Channel	Frequency (MHz)	2171.5	2172.0	2176.5	Turn-up (min)	MPR (dB)					
15	QPSK	1	0	23.02	23.14	23.06					
15	QPSK	1	49	22.83	23.02	22.91			24	0	
15	QPSK	1	74	22.85	22.96	22.86					
15	QPSK	36	0	22.87	23.05	22.91					
15	QPSK	36	24	22.89	23.06	22.87					
15	QPSK	36	39	22.81	22.93	22.81			24	0	
15	QPSK	75	0	22.95	23.04	22.92					
15	QPSK	75	24	22.83	23.04	22.72					
15	QPSK	150	1	22.82	22.77	22.82			24	0	
15	QPSK	150	1	22.82	22.77	22.82					
15	QPSK	150	24	22.82	22.84	22.87					
15	QPSK	150	36	20	22.59	22.70	22.68			23.5	0.5
15	QPSK	150	36	20	22.59	22.70	22.68				
15	QPSK	150	75	0	22.82	22.81	22.68				
15	QPSK	150	75	0	22.82	22.81	22.68				
15	QPSK	150	1	0	22.89	22.84	22.66			23.5	0.5
15	QPSK	150	1	0	22.89	22.84	22.66				
15	QPSK	150	74	22.50	22.73	22.57			22.5	1.5	
15	QPSK	150	74	22.50	22.73	22.57					
15	QPSK	150	36	0	21.71	21.91	21.66				
15	QPSK	150	36	0	21.71	21.91	21.66				
15	QPSK	150	36	24	21.68	21.84	21.63			22.5	1.5
15	QPSK	150	36	24	21.68	21.84	21.63				
15	QPSK	150	75	0	21.68	21.84	21.63				
15	QPSK	150	75	0	21.68	21.8					





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	22.66	22.61				
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	22.76	22.96	22.87				
20	64QAM	50	0	21.82	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	21.66	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	19.86	19.80				
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	19.68				
Channel										
1827.5 1880 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	22.96	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	22.83	22.81				
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	36	0	19.76	19.86	19.80				
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	19.66	19.65				
Channel										
2690 2694 2696										
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	0	22.90	22.95	22.83				
10	16QAM	1	24	22.81	22.91	22.88	24	0		
10	16QAM	1	49	22.66	22.74	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	22.61				
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	21.56	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	19.73				
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	20.5	3.5		
10	256QAM	50	0	19.55	19.67	19.63				
Channel										
2685 2689 2695										
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	22.62	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	22.82	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	19.80	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										
2685 2689 2695										
1.4	QPSK	1	0	23.02	23.10	23.15				
1.4	QPSK	1	3	22.98	22.95	22.96	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	22.88	22.87				
1.4	64QAM	1	0	22.75	22.92	22.80				
1.4	64QAM	1	8	22.66	22.93	22.78	23.5	0.5		
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)	APR (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	24	0		
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	24	0		
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	23.5	0.5		
20	64QAM	1	0	20.85	20.75	20.84				
20	64QAM	1	49	20.49	20.84	20.84	23.5	0.5		
20	64QAM	1	99	20.81	20.85	20.80				
20	64QAM	50	0	21.09	21.00	21.71				
20	64QAM	50	24	21.03	21.71	21.71	22.5	1.5		
20	64QAM	50	50	21.03	21.71	21.81				
20	64QAM	100	0	21.57	21.62	21.58				
20	256QAM	1	0	18.95	18.97	18.99	20.5	3.5		
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	20.5	3.5		
20	256QAM	50	50	18.80	18.77	18.73				
20	256QAM	100	0	18.71	18.73	18.68				
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.06	20.16	20.00	24	0		
15	QPSK	1	39	20.95	20.90	20.94				
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	20.92				
15	QPSK	36	39	20.78	20.87	20.78	24	0		
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	24	0		
15	16QAM	1	74	20.87	20.87	20.80				
15	16QAM	36	0	20.49	20.71	20.60				
15	16QAM	36	20	20.41	20.71	20.60	23.5	0.5		
15	16QAM	75	0	20.41	20.48	20.44				
15	64QAM	1	0	20.47	20.52	20.57				
15	64QAM	1	37	20.51	20.58	20.48	23.5	0.5		
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	21.63	21.67	22.5	1.5		
15	64QAM	36	39	21.50	21.52	21.52				
15	64QAM	75	0	21.48	21.50	21.51				
15	256QAM	1	0	18.78	18.80	18.80	20.5	3.5		
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	20.5	3.5		
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	20.09	20.10	20.00	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	20.93	20.80				
10	QPSK	25	14	20.80	20.91	20.95				
10	QPSK	25	25	20.81	20.87	20.86	24	0		
10	16QAM	1	0	20.86	20.86	20.80				
10	16QAM	1	25	20.81	20.85	20.80	24	0		
10	16QAM	1	49	20.76	20.79	20.74				
10	16QAM	25	0	20.37	20.70	20.55				
10	16QAM	25	14	20.81	20.89	20.89	23.5	0.5		
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	23.5	0.5		
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	21.68	21.68	22.5	1.5		
10	64QAM	25	25	21.54	21.57	21.57				
10	64QAM	50	0	21.42	21.52	21.44				
10	256QAM	1	0	18.76	18.80	18.81	20.5	3.5		
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	14	18.75	18.81	18.83	20.5	3.5		
10	256QAM	25	25	18.80	18.65	18.62				
10	256QAM	50	0	18.63	18.67	18.63				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.13	20.10	20.00	24	0		
5	QPSK	1	12	20.89	20.91	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	24	0		
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	20.76	24	0		
5	16QAM	1	24	20.75	20.88	20.80				
5	16QAM	12	0	20.47	20.74	20.83				
5	16QAM	12	7	20.37	20.61	20.69	23.5	0.5		
5	16QAM	12	13	20.43	20.52	20.61				
5	16QAM	25	0	20.37	20.63	20.48				
5	64QAM	1	0	20.48	20.72	20.57				
5	64QAM	1	12	20.45	20.66	20.48	23.5	0.5		
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	22.5	1.5		
5	64QAM	12	13	21.58	21.67	21.56				
5	256QAM	1	0	18.79	18.80	18.80	20.5	3.5		
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	20.5	3.5		
5	256QAM	12	13	18.69	18.65	18.61				
5	256QAM	25	0	18.62	18.61	18.61				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.03	20.14	20.03	24	0		
3	QPSK	1	8	20.89	20.90	20.85				
3	QPSK	1	14	20.89	20.89	20.75				
3	QPSK	8	0	20.87	20.93	20.83				
3	QPSK	8	4	20.89	20.94	20.85	24	0		
3	QPSK	8	7	20.78	20.93	20.83				
3	QPSK	15	0	20.79	20.89	20.80				
3	16QAM	1	0	20.76	20.87	20.84				
3	16QAM	1	8	20.82	20.85	20.87	24	0		
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	23.5	0.5		
3	16QAM	8	24	20.42	20.47	20.52				
3	64QAM	1	0	20.43	20.48	20.50				
3	64QAM	1	8	20.41	20.62	20.46	23.5	0.5		
3	64QAM	1	14	20.42	20.48	20.38				
3	64QAM	8	0	21.87	21.86	21.89				
3	64QAM	8	4	21.02	21.88	21.70	22.5	1.5		
3	64QAM	8	7	21.51	21.60	21.49				
3	256QAM	1	0	1						



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	20.97	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	20.50	20.53	22	0		
20	QPSK	50	24	20.38	20.50	20.42	22	0		
20	QPSK	50	49	20.37	20.50	20.42	22	0		
20	QPSK	100	0	20.37	20.52	20.53	22	0		
20	HQAM	1	0	20.46	20.57	20.59	22	0		
20	HQAM	1	49	20.36	20.55	20.53	22	0		
20	HQAM	1	99	20.29	20.53	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	20.53	19.96	21.5	0.5		
20	HQAM	100	0	19.92	20.51	20.50	21.5	0.5		
20	HQAM	100	0	20.03	20.55	20.55	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	20.5	1.5		
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	17.93	17.92	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	17.95	17.90	18.5	3.5		
20	25QAM	50	49	17.77	17.87	17.81	18.5	3.5		
20	25QAM	100	0	17.76	17.88	17.84	18.5	3.5		
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.50	20.50	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	19.85	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	19.96	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	19.81	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	17.82	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	17.82	17.81	18.5	3.5		
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.43	20.40	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	1	74	20.32	20.40	20.36	22	0		
10	QPSK	25	0	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	50	0	19.89	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	17.86	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	17.86	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	20.40	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	19.93	19.80	21.5	0.5		
5	HQAM	25	0	19.82	19.96	19.93	21.5	0.5		
5	HQAM	1	0	19.94	20.12	20.00	21.5	0.5		
5	HQAM	1	12	19.89	19.96	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&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	22.44	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	23.5	0.5		
20	QPSK	50	24	22.05	22.15	22.18	23.5	0.5		
20	QPSK	50	49	22.00	22.02	22.10	23.5	0.5		
20	QPSK	100	0	22.25	22.10	22.30	23.5	0.5		
20	HQAM	1	0	22.15	22.13	22.28	23.5	0.5		
20	HQAM	1	49	22.04	22.10	22.09	23.5	0.5		
20	HQAM	1	99	22.02	22.03	22.13	23.5	0.5		
20	HQAM	50	0	21.30	21.18	21.38	22.5	1.5		
20	HQAM	50	24	21.20	21.17	21.20	22.5	1.5		
20	HQAM	50								



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 High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	25.60	25.60	25.60	25.60	25.60	26.00	0
20	QPSK	1	49	25.46	25.23	25.59	25.40	25.36	26.00	0
20	QPSK	1	99	25.32	25.08	25.45	25.26	25.22	26.00	0
20	QPSK	50	0	25.42	25.34	25.45	25.21	25.08	26.00	0
20	QPSK	50	24	25.32	25.43	25.38	25.20	25.10	26.00	0
20	QPSK	100	0	25.67	25.59	25.60	25.46	25.37	26.00	0
20	QPSK	100	0	25.32	25.40	25.38	25.28	25.13	26.00	0
20	HQAM	1	0	25.55	25.46	25.60	25.46	25.41	26.00	0
20	HQAM	1	49	25.35	25.30	25.45	25.46	25.27	26.00	0
20	HQAM	1	99	25.30	25.34	25.42	25.44	25.22	26.00	0
20	HQAM	50	0	24.26	24.15	24.36	24.27	24.10	26.00	0
20	HQAM	50	24	24.19	24.20	24.30	24.13	24.07	26.00	0
20	HQAM	100	0	24.11	24.05	24.17	24.11	23.97	26.00	0
20	HQAM	100	0	24.25	24.21	24.30	24.15	24.07	26.00	0
20	HQAM	1	0	24.18	24.15	24.25	24.10	24.10	26.00	0
20	HQAM	1	49	24.02	24.11	24.10	24.10	23.96	26.00	0
20	HQAM	1	99	24.06	24.03	24.10	24.03	23.96	26.00	0
20	HQAM	50	0	23.28	23.22	23.38	23.20	23.14	26.00	0
20	HQAM	50	24	23.15	23.14	23.27	23.19	23.03	26.00	0
20	HQAM	100	0	23.14	23.10	23.21	23.15	23.06	26.00	0
20	HQAM	100	0	23.11	23.17	23.23	23.22	23.02	26.00	0
20	SSBQAM	1	0	21.51	21.42	21.55	21.46	21.20	22.00	4
20	SSBQAM	1	49	21.54	21.49	21.55	21.45	21.30	22.00	4
20	SSBQAM	1	99	21.24	21.37	21.38	21.38	21.28	22.00	4
20	SSBQAM	50	0	21.36	21.21	21.42	21.35	21.24	22.00	4
20	SSBQAM	50	24	21.22	21.16	21.29	21.24	21.04	22.00	4
20	SSBQAM	100	0	21.14	21.12	21.21	21.20	21.05	22.00	4
20	SSBQAM	100	0	21.32	21.29	21.38	21.35	21.16	22.00	4
Channel										
Frequency (MHz)										
15	QPSK	1	0	25.52	25.47	25.50	25.30	25.22	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	24.91	26.00	0
15	QPSK	38	20	25.20	25.08	25.34	25.19	24.95	26.00	0
15	QPSK	75	0	24.43	24.33	24.39	24.24	24.04	26.00	0
15	QPSK	75	0	25.24	25.15	25.23	25.15	25.00	26.00	0
15	HQAM	1	0	25.43	25.36	25.51	25.38	25.36	26.00	0
15	HQAM	1	37	25.25	25.20	25.25	25.14	25.09	26.00	0
15	HQAM	1	74	25.16	25.21	25.28	25.28	25.10	26.00	0
15	HQAM	38	0	24.22	24.02	24.24	24.16	23.97	26.00	0
15	HQAM	38	20	24.05	24.05	24.15	24.05	23.86	26.00	0
15	HQAM	75	0	24.08	23.99	24.08	24.06	23.88	26.00	0
15	HQAM	75	0	24.19	24.08	24.27	24.04	24.02	26.00	0
15	HQAM	1	0	24.04	24.10	24.16	24.16	24.00	26.00	0
15	HQAM	1	37	23.89	24.04	23.97	23.98	23.88	26.00	0
15	HQAM	1	74	24.03	23.89	24.10	23.94	23.92	26.00	0
15	HQAM	38	0	23.18	23.18	23.25	23.05	23.05	26.00	0
15	HQAM	38	20	23.05	23.09	23.22	23.15	22.97	26.00	0
15	HQAM	75	0	23.21	23.21	23.21	23.15	22.92	26.00	0
15	SSBQAM	1	0	21.43	21.39	21.51	21.39	21.20	22.00	4
15	SSBQAM	1	37	21.47	21.47	21.51	21.45	21.27	22.00	4
15	SSBQAM	1	74	21.20	21.26	21.32	21.23	21.10	22.00	4
15	SSBQAM	38	0	21.24	21.17	21.34	21.25	21.11	22.00	4
15	SSBQAM	38	20	21.08	21.12	21.24	21.15	21.09	22.00	4
15	SSBQAM	75	0	21.10	21.08	21.07	21.09	20.98	22.00	4
15	SSBQAM	75	0	21.21	21.12	21.21	21.16	21.07	22.00	4
Channel										
Frequency (MHz)										
10	QPSK	1	0	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	26.00	0
10	QPSK	1	49	25.06	25.30	25.30	25.31	25.16	26.00	0
10	QPSK	1	74	25.34	25.25	25.25	25.18	25.05	26.00	0
10	QPSK	25	12	25.28	25.05	25.22	25.14	25.03	26.00	0
10	QPSK	25	25	24.92	25.06	25.09	25.14	24.97	26.00	0
10	QPSK	50	0	25.30	25.20	25.25	25.24	25.06	26.00	0
10	HQAM	1	0	25.47	25.40	25.60	25.41	25.36	26.00	0
10	HQAM	1	25	25.20	25.34	25.40	25.38	25.21	26.00	0
10	HQAM	1	49	25.21	25.21	25.28	25.36	25.17	26.00	0
10	HQAM	25	0	24.23	24.09	24.31	24.12	24.03	26.00	0
10	HQAM	25	12	24.02	24.16	24.22	24.06	23.91	26.00	0
10	HQAM	50	0	24.18	24.14	24.28	24.08	24.13	26.00	0
10	HQAM	50	0	24.09	24.09	24.20	24.06	23.97	26.00	0
10	HQAM	1	0	23.94	23.98	24.02	23.92	23.86	26.00	0
10	HQAM	25	0	23.21	23.08	23.20	23.15	23.03	26.00	0
10	HQAM	25	12	23.05	23.10	23.24	23.09	22.89	26.00	0
10	HQAM	25	25	23.02	22.87	23.20	23.08	22.96	26.00	0
10	HQAM	50	0	22.97	22.97	23.10	23.19	22.98	26.00	0
10	SSBQAM	1	0	21.47	21.39	21.54	21.36	21.18	22.00	4
10	SSBQAM	1	25	21.51	21.26	21.47	21.39	21.25	22.00	4
10	SSBQAM	1	49	21.14	21.20	21.25	21.30	21.22	22.00	4
10	SSBQAM	25	0	21.28	21.21	21.30	21.32	21.20	22.00	4
10	SSBQAM	25	12	21.50	21.04	21.20	21.17	20.94	22.00	4
10	SSBQAM	25	25	20.99	21.07	21.13	21.15	20.98	22.00	4
10	SSBQAM	50	0	21.28	21.16	21.27	21.11	21.02	22.00	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	25.43	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	26.00	0
5	QPSK	12	0	25.39	25.42	25.47	25.39	24.81	26.00	0
5	QPSK	12	7	25.24	25.15	25.30	25.12	25.03	26.00	0
5	QPSK	12	13	24.93	25.06	25.02	25.17	25.05	26.00	0
5	QPSK	25	0	25.21	25.05	25.29	25.22	25.09	26.00	0
5	HQAM	1	0	25.47	25.42	25.52	25.38	25.27	26.00	0
5	HQAM	1	12	25.29	25.29	25.33	25.35	25.24	26.00	0
5	HQAM	1	24	25.10	25.21	25.26	25.24	25.16	26.00	0
5	HQAM	12	0	24.20	24.02	24.31	24.20	24.02	26.00	0
5	HQAM	12	7	24.15	24.14	24.19	24.06	23.97	26.00	0
5	HQAM	12	13	24.06	23.98	24.03	24.07	23.89	26.00	0
5	HQAM	25	0	24.12	24.15	24.20	24.06	24.07	26.00	0
5	HQAM	25	0	24.07	24.10	24.21	24.09	24.00	26.00	0
5	HQAM	1	0	23.91	23.97	24.02	24.07	23.92	26.00	0
5	HQAM	1	24	23.97	23.99	24.11	23.99	23.86	26.00	0
5	HQAM	12	0	23.18	23.15	23.27	23.07	23.09	26.00	0
5	HQAM	12	7	23.08	23.06	23.13	23.10	22.99	26.00	0
5	HQAM	12	13	23.00	22.98	23.10	23.05	22.91	26.00	0
5	HQAM	25	0	23.06	23.11	23.11	23.16	22.96	26.00	0
5	SSBQAM	1	0	21.45	21.34	21.40	21.41	21.22	22.00	4
5	SSBQAM	1	12	21.48	21.25	21.46	21.37	21.17	22.00	4
5	SSBQAM	1	24	21.19	21.20	21.25	21.28	21.22	22.00	4
5	SSBQAM	12	0	21.19	21.07	21.22	21.20	21.03	22.00	4
5	SSBQAM	12	13	21.08	21.06	21.15	21.19	20.96	22.00	4
5	SSBQAM	25	0	21.24	21.16	2				





CDMA2000 1X									
Cell	TX Channel	Burst Average Power (dBm)			Tx Power Limit (dBm)	Frame Average Power (dBm)			Tx Power Limit (dBm)
		198	199	201		198	199	201	
1	Frequency (MHz)	895.2	895.4	895.6	895.2	895.4	895.6		
1	CDMA 1 Tx Rate	31.42	31.48	31.36	32.00	22.42	22.48	22.36	23.00
1	OPRS 1 Tx Rate	31.38	31.44	31.33	32.00	22.39	22.44	22.33	23.00
1	OPRS 2 Tx Rate	25.27	25.29	25.32	26.00	22.27	22.29	22.30	23.00
1	OPRS 3 Tx Rate	26.80	26.91	26.80	28.00	22.34	22.55	22.44	23.74
1	OPRS 4 Tx Rate	25.16	25.22	25.17	26.00	22.16	22.22	22.17	23.00
1	EDGE 1 Tx Rate	24.00	24.17	24.05	26.00	18.03	18.17	18.05	18.00
1	EDGE 2 Tx Rate	22.20	22.41	22.34	23.00	18.20	18.41	18.34	17.00
1	EDGE 3 Tx Rate	21.15	21.21	21.08	22.00	18.89	18.97	18.82	17.74
1	EDGE 4 Tx Rate	18.99	19.06	18.93	20.00	18.99	19.06	18.91	17.00

  

CDMA2000 1X									
Cell	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	
1	Frequency (MHz)	1691.2	1691.0	1691.8	1691.2	1691.0	1691.8		
1	CDMA 1 Tx Rate	27.52	27.57	27.57	28.50	18.52	18.67	18.67	19.50
1	OPRS 1 Tx Rate	25.06	25.00	24.98	26.00	19.06	19.00	18.98	20.00
1	OPRS 2 Tx Rate	25.36	25.42	25.32	26.50	19.10	19.18	19.06	20.24
1	OPRS 3 Tx Rate	20.62	20.74	20.63	21.50	17.62	17.74	17.63	18.50
1	EDGE 1 Tx Rate	12.76	12.86	12.72	13.50	13.76	13.86	13.72	14.00
1	EDGE 2 Tx Rate	21.13	21.22	21.13	22.00	15.13	15.22	15.13	16.00
1	EDGE 3 Tx Rate	14.86	14.96	14.86	15.00	15.86	15.96	15.86	16.74
1	EDGE 4 Tx Rate	17.01	18.05	17.97	19.00	14.91	15.05	14.97	16.00

  

WCDMA II Aset										WCDMA IV Aset			WCDMA V Aset		
Cell	TX Channel	MCDMA II			Tx Power Limit (dBm)	MCDMA IV			Tx Power Limit (dBm)	MCDMA V			Tx Power Limit (dBm)		
		1692.4	1690.0	1697.6		1712.4	1712.6	1712.6		1816.4	1816.4	1816.6			
1	Frequency (MHz)	1692.4	1690.0	1697.6	1712.4	1712.6	1712.6	1816.4	1816.4	1816.6					
1	HSRP Rate 0	21.46	21.52	21.44	23.00	21.42	21.44	21.31	21.00	21.14	21.17	21.04			
1	HSRP Rate 1	21.48	21.51	21.51	23.00	21.45	21.45	21.37	21.00	21.17	21.21	21.00			
1	HSRP Rate 2	20.85	20.64	20.47	22.00	20.46	20.57	20.32	22.00	20.23	20.23	20.00			
1	HSRP Rate 3	20.48	20.51	20.52	22.00	20.42	20.50	20.41	22.00	20.12	20.22	20.17			
1	HSRP Rate 4	20.02	20.14	20.10	21.50	19.91	20.02	19.95	21.50	19.87	19.70	19.89			
1	HSRP Rate 5	19.56	20.14	20.36	21.50	19.87	20.31	19.64	21.50	19.56	19.79	19.69			
1	HSRP Rate 6	20.50	20.70	20.45	22.00	20.46	20.63	20.35	22.00	20.21	20.32	20.91			
1	HSRP Rate 7	20.37	20.42	20.36	22.00	20.33	20.29	20.28	22.00	20.08	20.08	19.84			
1	HSRP Rate 8	19.00	19.96	19.92	21.50	19.94	19.94	19.86	21.50	19.95	19.98	19.95			
1	HSRP Rate 9	19.87	19.84	19.89	21.50	19.82	19.80	19.83	21.50	19.49	19.47	19.64			
1	HSRP Rate 10	20.96	20.81	20.80	22.00	20.43	20.38	20.56	22.00	20.16	20.22	20.26			
1	HSRP Rate 11	18.83	18.87	18.82	20.00	18.42	18.53	18.39	20.00	18.09	18.19	18.13			
1	HSRP Rate 12	18.20	18.48	18.58	21.00	18.48	18.51	18.49	21.00	18.18	18.26	18.16			
1	HSRP Rate 13	18.46	18.48	18.44	20.00	18.37	18.45	18.35	20.00	18.04	18.14	18.03			
1	HSRP Rate 14	20.59	20.40	20.39	22.00	20.58	20.36	20.33	22.00	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. 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	1	149	20.92	20.98	20.96				
20	QPSK	50	0	20.99	21.00	20.99				
20	QPSK	50	49	20.97	20.98	20.98				
20	QPSK	50	99	20.98	20.99	20.98		22	0	
20	QPSK	100	0	20.90	20.95	20.97				
20	QPSK	100	49	20.92	20.98	20.96				
20	QPSK	100	99	20.97	20.98	20.97		22	0	
20	QPSK	150	0	20.92	20.98	20.96				
20	QPSK	150	49	20.97	20.98	20.97				
20	QPSK	150	99	20.98	20.99	20.98		22	0	
20	QPSK	200	0	20.92	20.98	20.96				
20	QPSK	200	49	20.97	20.98	20.97				
20	QPSK	200	99	20.98	20.99	20.98		22	0	
20	QPSK	250	0	20.92	20.98	20.96				
20	QPSK	250	49	20.97	20.98	20.97				
20	QPSK	250	99	20.98	20.99	20.98		22	0	
20	QPSK	300	0	20.92	20.98	20.96				
20	QPSK	300	49	20.97	20.98	20.97				
20	QPSK	300	99	20.98	20.99	20.98		22	0	
20	QPSK	350	0	20.92	20.98	20.96				
20	QPSK	350	49	20.97	20.98	20.97				
20	QPSK	350	99	20.98	20.99	20.98		22	0	
20	QPSK	400	0	20.92	20.98	20.96				
20	QPSK	400	49	20.97	20.98	20.97				
20	QPSK	400	99	20.98	20.99	20.98		22	0	
20	QPSK	450	0	20.92	20.98	20.96				
20	QPSK	450	49	20.97	20.98	20.97				
20	QPSK	450	99	20.98	20.99	20.98		22	0	
20	QPSK	500	0	20.92	20.98	20.96				
20	QPSK	500	49	20.97	20.98	20.97				
20	QPSK	500	99	20.98	20.99	20.98		22	0	
20	QPSK	550	0	20.92	20.98	20.96				
20	QPSK	550	49	20.97	20.98	20.97				
20	QPSK	550	99	20.98	20.99	20.98		22	0	
20	QPSK	600	0	20.92	20.98	20.96				
20	QPSK	600	49	20.97	20.98	20.97				
20	QPSK	600	99	20.98	20.99	20.98		22	0	
20	QPSK	650	0	20.92	20.98	20.96				
20	QPSK	650	49	20.97	20.98	20.97				
20	QPSK	650	99	20.98	20.99	20.98		22	0	
20	QPSK	700	0	20.92	20.98	20.96				
20	QPSK	700	49	20.97	20.98	20.97				
20	QPSK	700	99	20.98	20.99	20.98		22	0	
20	QPSK	750	0	20.92	20.98	20.96				
20	QPSK	750	49	20.97	20.98	20.97				
20	QPSK	750	99	20.98	20.99	20.98		22	0	
20	QPSK	800	0	20.92	20.98	20.96				
20	QPSK	800	49	20.97	20.98	20.97				
20	QPSK	800	99	20.98	20.99	20.98		22	0	
20	QPSK	850	0	20.92	20.98	20.96				
20	QPSK	850	49	20.97	20.98	20.97				
20	QPSK	850	99	20.98	20.99	20.98		22	0	
20	QPSK	900	0	20.92	20.98	20.96				
20	QPSK	900	49	20.97	20.98	20.97				
20	QPSK	900	99	20.98	20.99	20.98		22	0	
20	QPSK	950	0	20.92	20.98	20.96				
20	QPSK	950	49	20.97	20.98	20.97				
20	QPSK	950	99	20.98	20.99	20.98		22	0	
20	QPSK	1000	0	20.92	20.98	20.96				
20	QPSK	1000	49	20.97	20.98	20.97				
20	QPSK	1000	99	20.98	20.99	20.98		22	0	
20	QPSK	1050	0	20.92	20.98	20.96				
20	QPSK	1050	49	20.97	20.98	20.97				
20	QPSK	1050	99	20.98	20.99	20.98		22	0	
20	QPSK	1100	0	20.92	20.98	20.96				
20	QPSK	1100	49	20.97	20.98	20.97				
20	QPSK	1100	99	20.98	20.99	20.98		22	0	
20	QPSK	1150	0	20.92	20.98	20.96				
20	QPSK	1150	49	20.97	20.98	20.97				
20	QPSK	1150	99	20.98	20.99	20.98		22	0	
20	QPSK	1200	0	20.92	20.98	20.96				
20	QPSK	1200	49	20.97	20.98	20.97				
20	QPSK	1200	99	20.98	20.99	20.98		22	0	
20	QPSK	1250	0	20.92	20.98	20.96				
20	QPSK	1250	49	20.97	20.98	20.97				
20	QPSK	1250	99	20.98	20.99	20.98		22	0	
20	QPSK	1300	0	20.92	20.98	20.96				
20	QPSK	1300	49	20.97	20.98	20.97				
20	QPSK	1300	99	20.98	20.99	20.98		22	0	
20	QPSK	1350	0	20.92	20.98	20.96				
20	QPSK	1350	49	20.97	20.98	20.97				
20	QPSK	1350	99	20.98	20.99	20.98		22	0	
20	QPSK	1400	0	20.92	20.98	20.96				
20	QPSK	1400	49	20.97	20.98	20.97				
20	QPSK	1400	99	20.98	20.99	20.98		22	0	
20	QPSK	1450	0	20.92	20.98	20.96				
20	QPSK	1450	49	20.97	20.98	20.97				
20	QPSK	1450	99	20.98	20.99	20.98		22	0	
20	QPSK	1500	0	20.92	20.98	20.96				
20	QPSK	1500	49	20.97	20.98	20.97				
20	QPSK	1500	99	20.98	20.99	20.98		22	0	
20	QPSK	1550	0	20.92	20.98	20.96				
20	QPSK	1550	49	20.97	20.98	20.97				
20	QPSK	1550	99	20.98	20.99	20.98		22	0	
20	QPSK	1600	0	20.92	20.98	20.96				
20	QPSK	1600	49	20.97	20.98	20.97				
20	QPSK	1600	99	20.98	20.99	20.98		22	0	
20	QPSK	1650	0	20.92	20.98	20.96				
20	QPSK	1650	49	20.97	20.98	20.97				
20	QPSK	1650	99	20.98	20.99	20.98		22	0	
20	QPSK	1700	0	20.92	20.98	20.96				
20	QPSK	1700	49	20.97	20.98	20.97				
20	QPSK	1700	99	20.98	20.99	20.98		22	0	
20	QPSK	1750	0	20.92	20.98	20.96				
20	QPSK	1750	49	20.97	20.98	20.97				
20	QPSK	1750	99	20.98	20.99	20.98		22	0	
20	QPSK	1800	0	20.92	20.98	20.96				
20	QPSK	1800	49	20.97	20.98	20.97				
20	QPSK	1800	99	20.98	20.99	20.98		22	0	
20	QPSK	1850	0	20.92	20.98	20.96				
20	QPSK	1850	49	20.97	20.98	20.97				
20	QPSK	1850	99	20.98	20.99	20.98		22	0	
20	QPSK	1900	0	20.92	20.98	20.96				
20	QPSK	1900	49	20.97	20.98	20.97				
20	QPSK	1900	99	20.98	20.99	20.98		22	0	
20	QPSK	1950	0	20.92	20.98	20.96				
20	QPSK	1950	49	20.97	20.98	20.97				
20	QPSK	1950	99	20.98	20.99	20.98		22	0	
20	QPSK	2000	0	20.92	20.98	20.96				
20	QPSK	2000	49	20.97	20.98	20.97				
20	QPSK	2000	99	20.98	20.99	20.98		22	0	
20	QPSK	2050	0	20.92	20.98	20.96				
20	QPSK	2050	49	20.97	20.98	20.97				
20	QPSK									



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)	MPR (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	21.50	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				
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	18.40	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	18.35	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				
5	16QAM	1	12	21.36	21.37	21.23		23	0	
5	16QAM	1	24	21.22	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	8QAM	1	0	21.20	21.36	21.22				
5	8QAM	1	24	21.15	21.27	21.21		22.5	0.5	
5	8QAM	12	0	20.31	20.41	20.36				
5	8QAM	12	7	20.33	20.34	20.16				
5	8QAM	12	13	20.17	20.20	20.15		21.5	1.5	
5	8QAM	25	0	20.15	20.22	20.24				
5	256QAM	1	25	18.36	18.32	18.36				
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	18.26	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	21.00	21.00				
3	QPSK	1	14	21.42	21.43	21.38				
3	QPSK	1	7	21.55	21.60	21.48				
3	QPSK	8	0	21.48	21.52	21.39				
3	QPSK	8	7	21.32	21.40	21.38		23	0	
3	QPSK	15	0	21.52	21.52	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	8	21.22	21.43	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	21.28	21.30	21.07				
3	16QAM	15	0	21.22	21.47	21.39				
3	8QAM	1	0	21.20	21.40	21.29		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				
3	8QAM	8	4	20.33	20.38	20.25				
3	8QAM	8	7	20.16	20.19	20.27		21.5	1.5	
3	256QAM	1	0	18.30	18.23	18.36				
3	256QAM	1	8	18.27	18.49	18.43		19.5	3.5	
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	18.10	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	21.57	21.40				
1.4	QPSK	3	1	21.48	21.50	21.39				
1.4	QPSK	3	3	21.35	21.30	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	21.28	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	0	21.23	21.37	21.36				
1.4	8QAM	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	0	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				
1.4	256QAM	1	3	18.33	18.50	18.44		19.5	3.5	
1.4	256QAM	3	0	18.29	18.26	18.24				
1.4	256QAM	3	0	18.27	18.30	18.30				
1.4	256QAM	3	1	18.14	18.50	18.24		19.5	3.5	
1.4	256QAM	6	0	18.19	18.24	18.22				
1.4	256QAM	6	18	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)	MPR (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	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	8QAM	1	0	21.19	21.19	21.19		22.5	0.5	
10	8QAM	1	25	21.04	21.04	21.04				
10	8QAM	1	49	21.02	21.02	21.02		22.5	0	



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 limit (dB)	MPE (dB)		
Channel										
1800 1800 1900										
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	20.85	20.80				
20	16QAM	100	0	20.82	20.93	20.88				
20	64QAM	1	0	20.88	21.00	20.97				
20	64QAM	1	48	20.82	20.97	20.89	22	0		
20	64QAM	1	96	20.88	21.01	20.89				
20	64QAM	50	0	20.89	21.01	20.99				
20	64QAM	50	24	20.81	20.94	20.84				
20	64QAM	50	50	20.76	20.88	20.84	22	0		
20	256QAM	1	0	20.86	20.97	20.91				
20	256QAM	1	48	20.82	20.97	20.88	19	3		
20	256QAM	1	96	20.77	20.84	20.77				
20	256QAM	50	24	20.80	20.93	20.84				
20	256QAM	50	50	20.77	20.82	20.78				
20	256QAM	100	0	20.82	20.93	20.87				
Channel										
2415 2415 2615										
18	QPSK	1	0	20.89	21.07	20.98				
18	QPSK	1	32	20.76	20.87	20.82	22	0		
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	20.91	20.87				
18	QPSK	36	39	20.82	20.93	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	32	20.77	20.83	20.79	22	0		
18	16QAM	1	74	20.80	20.89	20.84				
18	16QAM	36	0	20.91	20.96	20.91				
18	16QAM	36	20	20.71	20.86	20.74	22	0		
18	16QAM	36	39	20.87	20.98	20.82				
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	20.99	20.97	22	0		
18	64QAM	1	74	20.74	20.85	20.79				
18	64QAM	36	0	20.76	20.86	20.75				
18	64QAM	36	20	20.76	20.86	20.78	22	0		
18	64QAM	36	39	20.82	20.93	20.80				
18	64QAM	75	0	20.77	20.81	20.88				
18	256QAM	1	0	20.80	20.97	20.88				
18	256QAM	1	32	20.78	20.83	20.79	19	3		
18	256QAM	1	74	20.83	20.94	20.86				
18	256QAM	36	0	20.86	20.97	20.91				
18	256QAM	36	20	20.79	20.82	20.78	19	3		
18	256QAM	36	39	20.86	20.97	20.87				
18	256QAM	75	0	20.82	20.93	20.87				
Channel										
2610 2610 2810										
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	12	25	20.77	20.77	20.76	22	0		
10	QPSK	25	0	20.63	20.78	20.73				
10	QPSK	25	25	20.79	20.89	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	20.86	20.97	20.88				
10	16QAM	25	0	20.77	20.91	20.75				
10	16QAM	25	12	20.68	20.84	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	20.77	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	20.83	20.97	20.87				
10	256QAM	1	24	20.78	20.83	20.74	19	3		
10	256QAM	1	49	20.71	20.75	20.82				
10	256QAM	25	0	20.80	20.85	20.86				
10	256QAM	25	12	20.74	20.71	20.77	19	3		
10	256QAM	25	25	20.64	20.74	20.74				
10	256QAM	50	0	20.82	20.96	20.87				
Channel										
2865 2865 3065										
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	20.88				
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	20.77	20.93	20.87				
5	256QAM	1	12	20.71	20.82	20.74	19	3		
5	256QAM	1	24	20.73	20.79	20.89				
5	256QAM	12	0	20.80	20.85	20.86				
5	256QAM	12	7	20.76	20.71	20.75	19	3		
5	256QAM	12	13	20.62	20.71	20.74				
5	256QAM	25	0	20.82	20.94	20.85				
Channel										
3067 3067 3267										
1.4	QPSK	1	0	20.96	20.99	20.95				
1.4	QPSK	1	8	20.75	20.83	20.87	22	0		
1.4	QPSK	1	14	20.71	20.87	20.79				
1.4	QPSK	8	0	20.81	21.02	20.91				
1.4	QPSK	8	4	20.73	20.83	20.76	22	0		
1.4	QPSK	8	7	20.69	20.79	20.71				
1.4	QPSK	15	0	20.81	20.94	20.83				
1.4	16QAM	1	0	20.81	20.99	20.86				
1.4	16QAM	1	8	20.78	20.84	20.85	22	0		
1.4	16QAM	1	14	20.85	20.79	20.72				
1.4	16QAM	8	0	20.76	20.86	20.79				
1.4	16QAM	8	4	20.67	20.84	20.72	22	0		
1.4	16QAM	8	7	20.60	20.66	20.81				
1.4	16QAM	15	0	20.74	20.88	20.83				
1.4	64QAM	1	0	20.84	21.00	20.87				
1.4	64QAM	1	8	20.86	20.93	20.78	22	0		
1.4	64QAM	1	14	20.81	20.79	20.69				
1.4	64QAM	8	0	20.79	20.8					



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	20.86	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	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	17.80				
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	37	20.73	20.83	20.77	22	0		
15	16QAM	1	74	20.69	20.80	20.81				
15	16QAM	36	0	20.59	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	20.60	20.48				
15	64QAM	36	39	20.48	20.52	20.38	22	0		
15	64QAM	75	0	20.67	20.69	20.68				
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	17.50	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	22	0		
10	16QAM	25	25	20.56	20.60	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	20.48	20.43	22	0		
10	64QAM	25	25	20.47	20.46	20.45				
10	64QAM	50	0	20.67	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	17.59				
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	20.71	20.80	20.61				
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	20.86	20.80				
5	QPSK	12	7	20.76	20.70	20.71	22	0		
5	QPSK	12	13	20.67	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	20.81				
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				
5	256QAM	12	13	17.39	17.49	17.44	19	3		
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	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	20.56				
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	20.					



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	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	21.95	23	0	
20	16QAM	50	24	21.91	21.95	21.93	23	0	
20	16QAM	50	50	21.88	21.92	21.89	23	0	
20	16QAM	100	0	21.99	22.09	21.96	23	0	
20	16QAM	100	0	22.25	22.47	22.59	23	0	
20	16QAM	1	49	22.28	22.36	22.28	23	0	
20	16QAM	1	99	22.16	22.04	22.22	23	0	
20	16QAM	50	0	21.93	22.11	22.03	23	0	
20	16QAM	50	24	21.89	22.03	21.90	23	0	
20	16QAM	50	50	21.80	21.94	21.85	23	0	
20	16QAM	100	0	21.91	22.05	21.96	23	0	
20	25QAM	1	0	18.83	18.90	18.86	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	18.96	18.96	20.5	2.5	
20	25QAM	50	50	18.89	18.85	18.84	20.5	2.5	
20	25QAM	100	0	18.99	18.95	18.96	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	22.39	22.23	23	0	
15	16QAM	1	0	22.26	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	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	22.38	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	59	21.68	21.82	21.86	23	0	
15	16QAM	75	0	21.82	21.91	21.85	23	0	
15	25QAM	1	0	18.77	18.90	18.81	20.5	2.5	
15	25QAM	1	37	18.79	18.91	18.72	20.5	2.5	
15	25QAM	1	74	18.87	18.74	18.74	20.5	2.5	
15	25QAM	36	0	18.86	18.11	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	22.26	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	22.20	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	50	0	21.87	22.00	21.86	23	0	
10	16QAM	1	0	22.08	22.33	22.27	23	0	
10	16QAM	1	0	21.75	21.60	21.75	23	0	
10	16QAM	1	0	21.59	21.59	21.72	23	0	
10	16QAM	25	0	21.85	21.54	21.78	23	0	
10	16QAM	25	12	21.75	21.60	21.75	23	0	
10	16QAM	25	25	21.59	21.59	21.66	23	0	
10	16QAM	50	0	21.69	21.69	21.66	23	0	
10	16QAM	1	49	21.52	21.49	21.62	23	0	
10	16QAM	25	0	20.58	20.52	20.55	23	0	
10	16QAM	25	12	20.42	20.56	20.52	23	0	
10	16QAM	25	25	20.39	20.42	20.83	23	0	
10	16QAM	50	0	20.69	20.52	20.67	23	0	
10	25QAM	1	0	18.98	18.95	18.86	19	5	
10	25QAM	1	25	18.96	18.40	18.94	19	5	
10	25QAM	1	49	18.95	18.92	18.92	19	5	
10	25QAM	25	0	18.82	18.52	18.78	19	5	
10	25QAM	25	12	18.69	18.40	18.60	19	5	
10	25QAM	25	25	18.40	18.40	18.51	19	5	
10	25QAM	50	0	18.67	18.65	18.81	19	5	
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	24	0	
5	QPSK	1	24	23.42	23.48	23.48	24	0	
5	QPSK	12	0	22.47	22.41	22.88	24	0	
5	QPSK	12	7	22.38	22.48	22.60	24	0	
5	QPSK	12	13	22.27	22.20	22.43	24	0	
5	QPSK	25	0	22.24	22.50	22.47	24	0	
5	QPSK	25	0	22.86	22.57	22.84	24	0	
5	16QAM	1	12	22.56	22.87	22.83	24	0	
5	16QAM	1	24	22.37	22.52	22.56	24	0	
5	16QAM	12	0	21.81	21.58	21.65	24	0	
5	16QAM	12	7	21.60	21.49	21.57	24	0	
5	16QAM	12	13	21.35	21.43	21.52	24	0	
5	16QAM	25	0	21.85	21.54	21.75	24	0	
5	16QAM	1	0	21.75	21.60	21.60	24	0	
5	16QAM	1	12	21.62	21.50	21.63	24	0	
5	16QAM	1	24	21.44	21.57	21.64	24	0	
5	16QAM	12	0	20.88	20.52	20.72	24	0	
5	16QAM	12	7	20.42	20.52	20.45	24	0	
5	16QAM	12	13	20.35	20.49	20.55	24	0	
5	16QAM	25	0	20.68	20.67	20.56	24	0	
5	25QAM	1	0	18.55	18.40	18.59	19	5	
5	25QAM	1	12	18.50	18.30	18.59	19	5	
5	25QAM	1	24	18.36	18.37	18.48	19	5	
5	25QAM	12	0	18.64	18.53	18.66	19	5	
5	25QAM	12	7	18.50	18.45	18.81	19	5	
5	25QAM	12	13	18.37	18.49	18.53	19	5	
5	25QAM	25	0	18.67	18.67	18.81	19	5	

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	23.73	24	0	
20	QPSK	1	49	23.55	23.62	23.65	24	0	
20	QPSK	50	24	23.48	23.59	23.50	24	0	
20	QPSK	50	0	23.59	23.50	23.50	24	0	
20	QPSK	50	24	23.50	23.51	23.54	24	0	
20	QPSK	100	0	23.60	23.62	23.65	24	0	
20	16QAM	1	0	22.80	22.87	22.88	24	0	
20	16QAM	1	49	22.88	22.82	22.70	24	0	
20	16QAM	1	99	22.87	22.58	22.72	24	0	
20	16QAM	50	0	21.81	21.86	21.83	24	0	
20	16QAM	50	24	21.84	21.80	21.82	24	0	
20	16QAM	50	50	21.40	21.56	21.50	24	0	
20	16QAM	100	0	21.48	21.69	21.74	24	0	
20	16QAM	100	0	21.75	21.78	21.71	24	0	
20	16QAM	1	49	21.72	21.74	21.69	24	0	
20	16QAM	1	99	21.30	21.65	21.54	24	0	
20	16QAM	50	0	20.80	20.58	20.74	24	0	
20	16QAM	50	24	20.46	20.58	20.65	24	0	
20	16QAM	50	50	20.00	20.48	20.54	24	0	
20	16QAM	100	0	20.88	20.67	20.70	24	0	
20	25QAM	1	0	18.62	18.40	18.70	19	5	
20	25QAM	1	49	18.64	18.47	18.70	19	5	
20	25QAM	1	99	18.43	18.43	18.53	19	5	
20	25QAM	50	0	18.76	18.67	18.70	19	5	
20	25QAM	50	24	18.81	18.59	18.84	19	5	
20	25QAM	50	50	18.51	18.53	18.61	19	5	
20	25QAM	100	0	18.77	18.58	18.71	19	5	
Channel									
Frequency (MHz)									
16	QPSK	1	0	23.01	23.03	23.03	24	0	
16	QPSK	1	37	23.35	23.42	23.45	24	0	
16	QPSK	1							



Band 41 PC2 FCC&IC 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	25.37	25.31	25.41	25.35	27	0
20	QPSK	50	24	25.33	25.30	25.49	25.29	25.37	25.33	27	0
20	QPSK	100	0	25.27	25.29	25.46	25.27	25.33	25.33	27	0
20	QPSK	100	24	25.18	25.22	25.35	25.18	25.26	25.26	27	0
20	16QAM	1	0	25.18	25.28	25.42	25.23	25.34	25.34	27	0
20	16QAM	1	49	25.20	25.14	25.39	25.18	25.28	25.28	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	24.37	24.37	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	100	99	24.37	24.35	24.56	24.39	24.46	24.46	26	1
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	21.88	21.88	23	4
20	256QAM	1	49	21.29	21.41	21.61	21.22	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	21.39	21.39	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	24.52	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	24.20	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	24.36	24.36	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	24.21	24.39	24.39	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	21.28	21.51	21.25	21.36	21.36	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	25.38	25.17	25.37	25.37	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	24.26	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	21.27	21.46	21.46	23	4
10	256QAM	1	49	21.26	21.25	21.47	21.23	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	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	24.46	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			



CDM1000 Awp		Output							
Channel	Best Average Power (dBm)	WCCMA II			Line	WCCMA IV			Line
Power (dBm)	812	860	810	810	812	860	810	810	
TX Channel	812	860	810	810	812	860	810	810	
Power (dBm)	180.2	180.0	180.8	180.8	180.2	180.0	180.8	180.8	
CDM 1 Tx w/rt	28.25	28.33	28.19	29.00	19.25	19.33	19.19	20.00	
OPDS 1 Tx w/rt	26.23	26.29	26.13	26.69	18.23	18.28	18.13	20.68	
OPDS 2 Tx w/rt	25.46	25.53	25.40	26.50	17.46	17.53	17.40	20.50	
OPDS 3 Tx w/rt	23.98	24.13	24.00	25.00	16.72	16.87	16.74	20.74	
OPDS 4 Tx w/rt	21.95	22.00	21.96	23.00	14.95	14.99	14.96	20.00	
EDGE 1 Tx w/rt	23.59	23.64	23.61	24.50	14.59	14.64	14.61	19.50	
EDGE 2 Tx w/rt	21.56	21.61	21.57	22.50	13.56	13.61	13.57	17.50	
EDGE 3 Tx w/rt	20.78	20.83	20.79	21.50	12.78	12.83	12.74	17.24	
EDGE 4 Tx w/rt	18.71	18.74	18.68	19.50	10.71	10.74	10.68	16.50	
Best	812	860	810	810	812	860	810	810	
TX Channel	812	860	810	810	812	860	810	810	
Power (dBm)	180.2	180.0	180.8	180.8	180.2	180.0	180.8	180.8	
CDM 1 Tx w/rt	18.04	18.11	18.00	20.10	21.42	21.44	21.37	22.50	
OPDP Rel 00	18.14	18.10	18.07	20.10	21.47	21.53	21.44	22.50	
OPDP Rel 01	18.14	18.10	18.07	20.10	20.97	20.98	20.92	21.50	
OPDP Rel 02	18.08	18.17	18.07	19.10	20.47	20.61	20.43	21.50	
OPDP Rel 03	17.51	17.71	17.51	18.00	19.01	20.04	19.05	21.00	
OPDP Rel 04	17.58	17.68	17.65	18.00	19.58	20.08	20.02	21.00	
OPDP Rel 05	18.00	18.2	18.00	19.10	20.48	20.48	20.38	21.50	
OPDP Rel 06	17.80	17.65	17.84	18.10	20.20	20.37	20.31	21.00	
OPDP Rel 07	17.98	17.40	17.45	18.00	19.80	19.87	19.83	21.00	
OPDP Rel 08	17.37	17.51	17.43	18.00	19.78	19.90	19.84	21.00	
OPDP Rel 09	18.18	18.22	18.28	19.10	20.49	20.65	20.60	21.50	
OPDP Rel 10	18.16	18.00	18.00	17.10	19.66	19.61	19.59	19.00	
OPDP Rel 11	17.15	17.03	17.14	18.10	19.48	19.61	19.48	20.50	
OPDP Rel 12	18.05	18.04	18.01	17.10	18.38	18.44	18.33	19.50	
OPDP Rel 13	18.04	18.10	18.03	18.10	20.48	20.53	20.49	21.00	





### 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	19.69	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	19.59	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	19.59	19.48		
20	64QAM	100	0	19.51	19.40	19.46		
20	64QAM	100	49	19.45	19.56	19.55		
20	256QAM	1	0	19.05	19.20	19.09	19	2
20	256QAM	1	49	19.02	19.08	19.02		
20	256QAM	50	24	19.48	19.52	19.58		
20	256QAM	50	74	19.38	19.59	19.36		
20	256QAM	100	0	19.48	19.52	19.58		
20	256QAM	100	49	19.38	19.59	19.36		
20	256QAM	100	99	19.05	19.20	19.05		
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	19.69	19.37		
15	QPSK	36	74	19.39	19.51	19.30		
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	19.47	19.47	19.46		
15	16QAM	36	20	19.48	19.63	19.46		
15	16QAM	36	55	19.38	19.49	19.42		
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	19.44	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	18.07	18.26	18.07		
15	256QAM	1	37	18.00	18.18	17.88	19	2
15	256QAM	1	74	17.86	17.99	17.92		
15	256QAM	36	20	17.71	17.97	17.82		
15	256QAM	36	55	17.83	17.82	17.82		
15	256QAM	75	0	17.77	17.88	17.86		
Channel								
Frequency (MHz)								
10	QPSK	1	0	18.67	18.90	18.50		
10	QPSK	1	49	18.61	18.81	18.49		
10	QPSK	1	74	18.51	18.62	18.61		
10	QPSK	36	0	18.52	18.59	18.58		
10	QPSK	36	49	18.45	18.51	18.46		
10	QPSK	36	74	18.45	18.51	18.46		
10	16QAM	1	0	18.56	19.03	19.48		
10	16QAM	1	37	18.44	18.45	18.31		
10	16QAM	1	74	18.43	18.43	18.44		
10	16QAM	36	20	18.38	19.03	19.42		
10	16QAM	36	55	18.38	19.03	19.42		
10	16QAM	75	0	18.33	19.50	19.34		
10	64QAM	1	0	18.32	19.54	19.42		
10	64QAM	1	37	18.45	19.52	19.48		
10	64QAM	1	74	18.38	19.58	19.49		
10	64QAM	36	0	18.44	19.36	19.41		
10	64QAM	36	49	18.49	19.38	19.44		
10	64QAM	36	74	18.37	19.38	19.37		
10	64QAM	75	0	18.39	19.28	19.34		
10	256QAM	1	0	17.99	18.11	17.87	19	2
10	256QAM	1	37	17.94	18.07	17.97		
10	256QAM	1	74	17.86	18.08	17.83		
10	256QAM	36	20	17.78	17.82	17.81		
10	256QAM	36	55	17.81	17.85	17.80		
10	256QAM	75	0	17.72	17.88	17.82		
Channel								
Frequency (MHz)								
5	QPSK	1	0	18.67	18.90	18.50		
5	QPSK	1	12	18.52	19.00	19.55		
5	QPSK	1	24	18.54	19.56	19.58		
5	QPSK	12	0	18.42	19.03	19.58		
5	QPSK	12	7	18.43	19.54	19.44		
5	QPSK	12	13	18.42	19.46	19.38		
5	16QAM	1	0	18.45	19.62	19.42		
5	16QAM	1	12	18.39	19.62	19.39		
5	16QAM	1	24	18.30	19.62	19.30		
5	16QAM	12	0	18.44	19.63	19.46		
5	16QAM	12	7	18.37	19.60	19.46		
5	16QAM	12	13	18.32	19.61	19.42		
5	16QAM	25	0	18.32	19.63	19.46		
5	64QAM	1	0	18.37	19.54	19.41		
5	64QAM	1	12	18.35	19.50	19.39		
5	64QAM	1	24	18.45	19.60	19.46		
5	64QAM	12	0	18.45	19.36	19.44		
5	64QAM	12	7	18.48	19.47	19.34		
5	64QAM	12	13	18.41	19.29	19.43		
5	64QAM	25	0	18.37	19.29	19.34		
5	256QAM	1	0	18.00	18.11	17.94	19	2
5	256QAM	1	12	18.01	18.16	17.92		
5	256QAM	1	24	17.92	18.00	17.81		
5	256QAM	12	0	17.82	17.82	17.81		
5	256QAM	12	7	17.80	17.80	17.79		
5	256QAM	12	13	17.75	17.80	17.79		
5	256QAM	25	0	17.71	17.82	17.82		
Channel								
Frequency (MHz)								
3	QPSK	1	0	18.61	19.01	18.63		
3	QPSK	1	14	18.46	19.50	19.54		
3	QPSK	1	28	18.47	19.04	19.04		
3	QPSK	8	0	18.44	19.49	19.38		
3	QPSK	8	7	18.38	19.42	19.32		
3	16QAM	1	0	18.48	19.61	19.47		
3	16QAM	1	8	18.50	19.53	19.38		
3	16QAM	1	16	18.44	19.49	19.45		
3	16QAM	8	0	18.44	19.53	19.48		
3	16QAM	8	4	18.51	19.63	19.43		
3	16QAM	8	8	18.39	19.60	19.42		
3	64QAM	1	0	18.38	19.45	19.43		
3	64QAM	1	8	18.43	19.49	19.48		
3	64QAM	1	16	18.37	19.51	19.36		
3	64QAM	8	0	18.40	19.32	19.42		
3	64QAM	8	4	18.45	19.36	19.45		
3	64QAM	8	8	18.37	19.52	19.35		
3	256QAM	1	0	18.00	18.12	17.99	19	2
3	256QAM	1	8	18.00	18.13	17.99		
3	256QAM	1	16	17.92	17.99	17.86		
3	256QAM	8	0	17.92	18.07	17.94		
3	256QAM	8	4	17.78	17.82	17.78		
3	256QAM	8	8	17.82	17.88	17.88		
3	256QAM	16	0	17.76	17.81	17.82		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	19.81	19.72	19.60		
1.4	QPSK	1	3	19.60	19.59	19.55		
1.4	QPSK	1	6	19.59	19.65	19.51		
1.4	QPSK	3	0	19.44	19.61	19.53		
1.4	QPSK	3	1	19.44	19.58	19.40		
1.4	16QAM	1	0	19.41	19.47	19.50		
1.4	16QAM	1	3	19.41	19.39	19.50		
1.4	16QAM	1	6	19.48	19.52	19.50		
1.4	16QAM	3	0	19.48	19.48	19.44		
1.4	16QAM	3	1	19.53	19.57	19.44		
1.4	16QAM	3	3	19.42	19.54	19.46		
1.4	16QAM	6	0	19.34	19.50	19.47		
1.4	16QAM	6	1	19.48	19.58	19.44		
1.4	16QAM	6	3	19.38	19.51	19.38		
1.4	64QAM	1	0	19.39	19.53	19.50		
1.4	64QAM	1	3	19.48	19.52	19.42		
1.4	64QAM	1	6	19.35	19.46	19.45		



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	49	22.14	22.40	22.04				
5	QPSK	12	0	22.29	22.60	22.37				
5	QPSK	12	7	22.25	22.39	22.05				
5	QPSK	12	13	22.24	22.28	22.17				
5	QPSK	25	0	22.22	22.47	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	25	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				
5	16QAM	12	13	22.15	22.22	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	25	22.09	22.31	22.28				
5	8QAM	1	49	21.95	22.32	22.21				
5	8QAM	12	0	21.17	21.31	21.05				
5	8QAM	12	7	21.02	21.32	20.89				
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	19.48	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	7	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	25	22.33	22.37	22.26				
3	QPSK	1	14	22.11	22.43	22.08				
3	QPSK	8	0	22.30	22.48	22.10				
3	QPSK	8	7	22.19	22.34	22.21				
3	QPSK	8	7	22.21	22.18	22.11				
3	QPSK	12	0	22.27	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	8	0	22.13	22.28	22.18				
3	16QAM	8	0	22.37	22.41	22.40				
3	16QAM	8	4	22.18	22.33	22.29				
3	16QAM	15	0	22.13	22.29	22.18				
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	19.20	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	19.25	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	22.27				
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	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				
1.4	16QAM	1	0	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	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	256QAM	6	0	21.19	21.20	21.11				
1.4	256QAM	1	0	19.25	19.57	19.38				
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	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	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	22.45	22.45	22.45				
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				



### 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		
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	19.63	19.54		
20	64QAM	100	24	19.48	19.53	19.53	21	0
20	256QAM	1	49	19.57	19.61	19.56		
20	256QAM	50	0	19.55	19.59	19.61		
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)								
20	QPSK	1	0	19.78	19.83	19.86		
20	QPSK	1	49	19.74	19.87	19.87	21	0
20	QPSK	1	99	19.58	19.67	19.79		
20	QPSK	36	0	19.59	19.70	19.54		
20	QPSK	36	24	19.48	19.63	19.53	21	0
20	QPSK	36	36	19.53	19.64	19.49		
20	QPSK	75	0	19.60	19.61	19.61		
20	16QAM	1	49	19.64	19.70	19.54		
20	16QAM	1	99	19.49	19.60	19.44	21	0
20	16QAM	1	74	19.57	19.65	19.51		
20	16QAM	36	0	19.35	19.53	19.58		
20	16QAM	36	24	19.38	19.60	19.61	21	0
20	16QAM	36	36	19.49	19.58	19.51		
20	16QAM	75	0	19.35	19.53	19.58		
20	16QAM	75	0	19.35	19.53	19.58		
20	64QAM	1	0	19.55	19.62	19.61		
20	64QAM	1	49	19.55	19.62	19.55	21	0
20	64QAM	1	99	19.55	19.62	19.55		
20	64QAM	36	0	19.58	19.58	19.59		
20	64QAM	36	24	19.49	19.55	19.55	21	0
20	64QAM	36	36	19.44	19.52	19.57		
20	64QAM	75	0	19.68	19.67	19.61		
20	64QAM	75	0	19.68	19.67	19.61		
20	256QAM	1	0	19.52	19.46	19.50		
20	256QAM	1	49	19.49	19.66	19.51	21	0
20	256QAM	1	74	19.49	19.66	19.51		
20	256QAM	36	0	19.36	19.47	19.42		
20	256QAM	36	24	19.34	19.44	19.45	21	0
20	256QAM	36	36	19.37	19.43	19.45		
Channel								
Frequency (MHz)								
20	QPSK	1	0	19.85	19.80	19.80		
20	QPSK	1	25	19.79	19.73	19.82	21	0
20	QPSK	1	49	19.49	19.69	19.72		
20	QPSK	25	0	19.78	19.73	19.81		
20	QPSK	25	12	19.51	19.60	19.50	21	0
20	QPSK	25	25	19.50	19.60	19.36		
20	16QAM	1	0	19.66	19.70	19.56		
20	16QAM	1	25	19.43	19.61	19.40	21	0
20	16QAM	1	49	19.64	19.61	19.40		
20	16QAM	25	0	19.35	19.77	19.58		
20	16QAM	25	12	19.51	19.60	19.63	21	0
20	16QAM	25	25	19.58	19.70	19.64		
20	16QAM	50	0	19.38	19.58	19.53		
20	16QAM	50	0	19.51	19.60	19.63		
20	64QAM	1	0	19.67	19.63	19.55	21	0
20	64QAM	1	49	19.64	19.70	19.55		
20	64QAM	25	0	19.54	19.59	19.52		
20	64QAM	25	12	19.48	19.63	19.48	21	0
20	64QAM	25	25	19.45	19.48	19.50		
20	64QAM	50	0	19.64	19.63	19.48		
20	64QAM	50	0	19.64	19.63	19.48		
20	256QAM	1	0	19.52	19.51	19.46	21	0
20	256QAM	1	49	19.55	19.72	19.42		
20	256QAM	1	74	19.45	19.61	19.44		
20	256QAM	25	0	19.40	19.41	19.45	21	0
20	256QAM	25	12	19.45	19.41	19.45		
20	256QAM	25	25	19.41	19.37	19.42		
Channel								
Frequency (MHz)								
20	QPSK	1	0	19.82	19.80	19.85		
20	QPSK	1	12	19.81	19.81	19.86	21	0
20	QPSK	1	24	19.87	19.67	19.78		
20	QPSK	12	0	19.80	19.73	19.87		
20	QPSK	12	7	19.42	19.58	19.50	21	0
20	QPSK	12	13	19.47	19.63	19.36		
20	16QAM	1	0	19.68	19.68	19.57		
20	16QAM	1	12	19.63	19.66	19.37	21	0
20	16QAM	1	24	19.61	19.65	19.49		
20	16QAM	12	0	19.35	19.78	19.54		
20	16QAM	12	7	19.51	19.67	19.67	21	0
20	16QAM	12	13	19.55	19.60	19.63		
20	16QAM	25	0	19.36	19.62	19.47		
20	16QAM	25	0	19.36	19.62	19.47		
20	64QAM	1	0	19.52	19.57	19.63	21	0
20	64QAM	1	49	19.48	19.65	19.58		
20	64QAM	1	99	19.54	19.74	19.48		
20	64QAM	12	0	19.50	19.67	19.55		
20	64QAM	12	7	19.42	19.56	19.39	21	0
20	64QAM	12	13	19.48	19.47	19.44		
20	64QAM	25	0	19.62	19.62	19.44		
20	64QAM	25	0	19.42	19.52	19.46	21	0
20	64QAM	25	7	19.47	19.52	19.41		
20	256QAM	1	0	19.44	19.76	19.48	21	0
20	256QAM	1	24	19.44	19.65	19.43		
20	256QAM	12	0	19.35	19.43	19.47		
20	256QAM	12	7	19.36	19.40	19.53	21	0
20	256QAM	12	13	19.42	19.58	19.41		
20	256QAM	25	0	19.42	19.58	19.41		
Channel								
Frequency (MHz)								
20	QPSK	1	0	19.72	19.81	19.85		
20	QPSK	1	14	19.59	19.65	19.74	21	0
20	QPSK	1	28	19.67	19.77	19.56		
20	QPSK	8	0	19.48	19.69	19.52		
20	QPSK	8	7	19.48	19.69	19.45	21	0
20	QPSK	8	14	19.53	19.77	19.59		
20	16QAM	1	0	19.59	19.69	19.61		
20	16QAM	1	8	19.53	19.61	19.45	21	0
20	16QAM	1	16	19.49	19.70	19.56		
20	16QAM	8	0	19.62	19.77	19.62		
20	16QAM	8	4	19.52	19.66	19.68	21	0
20	16QAM	8	8	19.61	19.65	19.54		
20	16QAM	15	0	19.43	19.52	19.50		
20	16QAM	15	0	19.46	19.62	19.61	21	0
20	16QAM	15	8	19.56	19.66	19.53		
20	64QAM	1	14	19.63	19.62	19.54		
20	64QAM	8	0	19.57	19.62	19.57	21	0
20	64QAM	8	8	19.61	19.69	19.59		
20	64QAM	8	7	19.51	19.48	19.51	21	0
20	64QAM	15	0	19.39	19.41	19.49		
20	64QAM	15	0	19.46	19.50	19.43		
20	256QAM	1	8	19.48	19.51	19.45	21	0
20	256QAM	1	16	19.52	19.62	19.48		
20	256QAM	8	0	19.51	19.52	19.51		
20	256QAM	8	4	19.37	19.47	19.34	21	0
20	256QAM	8	8	19.39	19.41	19.44		
20	256QAM	15	0	19.39	19.52	19.39		
Channel								
Frequency (MHz)								
20	QPSK	1	0	19.80	19.83	19.70		
20	QPSK	1	3	19.72	19.82	19.65	21	0
20	QPSK	1	5	19.58	19.64	19.77		
20	QPSK</							



### 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		
20	16QAM	50	24	17.29	17.42	17.39	19.2	0
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	31575		
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	17.48	17.43		
15	QPSK	36	20	17.28	17.40	17.27	19.2	0
15	QPSK	36	36	17.29	17.35	17.28		
15	QPSK	75	0	17.29	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		
15	16QAM	36	20	17.20	17.34	17.26	19.2	0
15	16QAM	36	36	17.36	17.36	17.28		
15	16QAM	75	0	17.28	17.32	17.21		
15	16QAM	1	37	17.25	17.42	17.24	19.2	0
15	16QAM	1	74	17.23	17.45	17.24		
15	16QAM	36	0	17.27	17.33	17.24		
15	16QAM	36	20	17.24	17.37	17.31	19.2	0
15	16QAM	36	36	17.28	17.35	17.28		
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		
15	256QAM	36	20	17.31	17.38	17.29	19.2	0
15	256QAM	36	36	17.28	17.29	17.20		
15	256QAM	75	0	17.33	17.43	17.29		
Channel								
Frequency (MHz)				23773	23900	24125		
10	QPSK	1	0	17.41	17.59	17.61		
10	QPSK	1	25	17.44	17.51	17.31	19.2	0
10	QPSK	1	49	17.34	17.49	17.37		
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	17.36	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		
10	16QAM	25	12	17.23	17.37	17.23	19.2	0
10	16QAM	25	25	17.40	17.35	17.20		
10	16QAM	50	0	17.20	17.33	17.21		
10	16QAM	1	0	17.28	17.31	17.31		
10	16QAM	1	25	17.25	17.38	17.21	19.2	0
10	16QAM	1	49	17.26	17.40	17.31		
10	16QAM	25	0	17.26	17.33	17.27		
10	16QAM	25	12	17.24	17.36	17.20	19.2	0
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		
10	256QAM	1	25	17.24	17.59	17.31	19.2	0
10	256QAM	1	49	17.20	17.35	17.29		
10	256QAM	25	0	17.39	17.50	17.37		
10	256QAM	25	12	17.28	17.50	17.25	19.2	0
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	10	0	17.39	17.45	17.36		
5	QPSK	10	7	17.30	17.39	17.28	19.2	0
5	QPSK	12	19	17.52	17.31	17.52		
5	QPSK	25	0	17.29	17.33	17.27		
5	16QAM	1	0	17.32	17.37	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	10	0	17.24	17.45	17.29		
5	16QAM	10	7	17.20	17.35	17.29	19.2	0
5	16QAM	10	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		
5	16QAM	1	12	17.29	17.37	17.26	19.2	0
5	16QAM	1	24	17.27	17.43	17.37		
5	16QAM	10	0	17.29	17.34	17.25		
5	16QAM	10	7	17.22	17.34	17.25	19.2	0
5	16QAM	10	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		
5	256QAM	1	12	17.31	17.49	17.34	19.2	0
5	256QAM	1	24	17.23	17.35	17.20		
5	256QAM	10	0	17.32	17.39	17.26		
5	256QAM	10	13	17.21	17.32	17.24	19.2	0
5	256QAM	25	0	17.35	17.52	17.32		

### 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	Power High Mod Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)				39750	40185	40620	41055	41490	
20	QPSK	1	0	17.76	17.83	17.93	18.16	17.70	
20	QPSK	1	49	17.68	17.73	17.78	17.87	17.73	19.2
20	QPSK	1	99	17.72	17.80	17.74	17.71	17.83	
20	QPSK	50	0	17.69	17.63	17.60	17.77	17.68	
20	QPSK	50	24	17.54	17.54	17.70	17.56	17.66	19.2
20	QPSK	100	0	17.63	17.58	17.58	17.58	17.65	
20	QPSK	100	0	17.65	17.61	17.65	17.58	17.67	
20	16QAM	1	0	17.73	17.69	17.77	17.62	17.67	19.2
20	16QAM	1	49	17.61	17.58	17.69	17.62	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	19.2
20	16QAM	50	50	17.62	17.61	17.63	17.62	17.64	
20	16QAM	100	0	17.58	17.44	17.65	17.50	17.62	
20	16QAM	1	0	17.41	17.52	17.67	17.55	17.47	
20	16QAM	1	49	17.51	17.56	17.65	17.58	17.53	19.2
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	19.2
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	17.49	19.2
20	256QAM	1	99	17.45	17.59	17.71	17.48	17.56	
20	256QAM	50	0	17.68	17.56	17.67	17.64	17.64	
20	256QAM	50	24	17.48	17.41				



### 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	19.57	19.61	20.8	0
20	QPSK	1	49	19.44	19.26	19.52	19.37	19.45	19.38	20.8	0
20	QPSK	50	0	19.36	19.32	19.46	19.41	19.38	19.36	20.8	0
20	QPSK	50	24	19.42	19.40	19.50	19.45	19.28	19.30	20.8	0
20	QPSK	100	0	19.32	19.31	19.45	19.38	19.42	19.38	20.8	0
20	QPSK	100	24	19.42	19.41	19.45	19.38	19.30	19.35	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	19.35	19.43	19.47	19.29	19.46	19.41	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	19.29	19.46	19.41	20.8	0
20	16QAM	100	0	19.47	19.42	19.50	19.46	19.35	19.35	20.8	0
20	16QAM	100	24	19.38	19.27	19.46	19.29	19.47	19.41	20.8	0
20	64QAM	1	0	19.43	19.22	19.45	19.35	19.31	19.31	20.8	0
20	64QAM	1	49	19.49	19.41	19.51	19.28	19.55	19.55	20.8	0
20	64QAM	1	99	19.37	19.34	19.34	19.49	19.60	19.60	20.8	0
20	64QAM	50	0	19.42	19.20	19.45	19.45	19.39	19.39	20.8	0
20	64QAM	50	24	19.43	19.42	19.35	19.27	19.33	19.33	20.8	0
20	64QAM	100	0	19.49	19.34	19.34	19.24	19.45	19.45	20.8	0
20	64QAM	100	24	19.47	19.38	19.47	19.38	19.37	19.37	20.8	0
20	256QAM	1	0	19.40	19.28	19.49	19.44	19.38	19.38	20.8	0
20	256QAM	1	49	19.38	19.38	19.43	19.30	19.42	19.42	20.8	0
20	256QAM	1	99	19.37	19.23	19.42	19.45	19.34	19.34	20.8	0
20	256QAM	50	0	19.43	19.20	19.38	19.28	19.34	19.34	20.8	0
20	256QAM	50	24	19.51	19.32	19.42	19.31	19.40	19.40	20.8	0
20	256QAM	100	0	19.49	19.23	19.51	19.23	19.34	19.34	20.8	0
20	256QAM	100	24	19.43	19.38	19.43	19.38	19.32	19.32	20.8	0
Channel											
Frequency (MHz)											
15	QPSK	1	0	19.41	19.35	19.39	19.23	19.33	19.33	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	1	111	19.30	19.34	19.42	19.42	19.32	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	36	56	19.38	19.29	19.46	19.29	19.38	19.38	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	29	19.41	19.32	19.38	19.22	19.38	19.38	20.8	0
15	16QAM	36	59	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	64QAM	1	0	19.40	19.19	19.39	19.30	19.39	19.39	20.8	0
15	64QAM	1	37	19.39	19.38	19.48	19.28	19.51	19.51	20.8	0
15	64QAM	1	74	19.30	19.25	19.38	19.20	19.36	19.36	20.8	0
15	64QAM	36	0	19.40	19.15	19.39	19.40	19.34	19.34	20.8	0
15	64QAM	36	20	19.29	19.34	19.23	19.18	19.23	19.23	20.8	0
15	64QAM	36	29	19.43	19.34	19.44	19.27	19.46	19.46	20.8	0
15	64QAM	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	19.48	19.28	19.48	19.48	20.8	0
15	256QAM	1	74	19.35	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	29	19.43	19.24	19.35	19.20	19.32	19.32	20.8	0
15	256QAM	36	59	19.46	19.16	19.43	19.12	19.22	19.22	20.8	0
15	256QAM	75	0	19.39	19.25	19.37	19.26	19.42	19.42	20.8	0
Channel											
Frequency (MHz)											
10	QPSK	1	0	19.46	19.23	19.43	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	1	74	19.28	19.28	19.43	19.31	19.32	19.32	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	QPSK	25	50	19.27	19.22	19.38	19.24	19.34	19.34	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	14	19.35	19.23	19.41	19.29	19.21	19.21	20.8	0
10	16QAM	25	29	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	64QAM	1	0	19.29	19.11	19.43	19.23	19.28	19.28	20.8	0
10	64QAM	1	25	19.40	19.29	19.38	19.20	19.32	19.32	20.8	0
10	64QAM	1	49	19.31	19.22	19.24	19.45	19.27	19.27	20.8	0
10	64QAM	25	0	19.34	19.17	19.36	19.42	19.27	19.27	20.8	0
10	64QAM	25	14	19.39	19.29	19.32	19.16	19.30	19.30	20.8	0
10	64QAM	25	29	19.45	19.27	19.47	19.18	19.41	19.41	20.8	0
10	64QAM	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	19.23	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	14	19.48	19.30	19.34	19.27	19.30	19.30	20.8	0
10	256QAM	25	29	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	14	19.30	19.13	19.42	19.27	19.40	19.40	20.8	0
5	QPSK	1	24	19.20	19.26	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	14	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	14	19.40	19.22	19.31	19.23	19.20	19.20	20.8	0
5	16QAM	1	0	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	14	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	64QAM	1	0</								



OSM 1900 Awt		OSG - Surveillance								
	Band	Frequency	Bandwidth	TimeUp	Frame-Average Power (dBm)	TimeUp				
	Rx Channel	812	861	810	Limit	812	861	810	Limit	
	Frequency (MHz)	2812.3	2813	2813.3	(dBm)	2812.3	2813	2813.3	(dBm)	
	OSM 1 Tx Wdth	28.73	28.81	28.87	29.10	19.73	19.81	19.87	20.10	
	OPNR 1 Tx Wdth	28.84	28.70	28.88	29.10	19.84	19.70	19.88	20.10	
	OPNR 2 Tx Wdth	29.97	29.90	29.98	29.10	19.97	19.90	19.98	20.10	
	OPNR 3 Tx Wdth	22.72	22.81	22.70	24.50	18.48	18.50	18.44	20.04	
	OPNR 4 Tx Wdth	21.80	21.31	21.72	23.10	18.60	18.78	18.72	20.01	
	EDGE 1 Tx Wdth	23.86	23.13	24.99	26.00	18.06	18.13	18.99	17.00	
	EDGE 2 Tx Wdth	23.33	23.43	23.49	24.40	17.33	17.43	17.49	18.00	
	EDGE 3 Tx Wdth	22.21	22.25	22.20	23.50	17.20	18.00	17.90	19.24	
	EDGE 4 Tx Wdth	20.13	20.18	20.08	21.00	17.13	17.18	17.08	18.00	
		OSG - Surveillance WCDMA 1 Wdth				OSG - Surveillance WCDMA 1 PWS				
	Band	WCDMA 8			TimeUp	WCDMA 19			TimeUp	
	Rx Channel	862	860	858	Limit	812	861	810	Limit	
	Frequency (MHz)	8662	8600	8608	(dBm)	812	868	798	(dBm)	
	OSPP Rel 99	16.92	17.00	16.92	19.00	16.24	16.24	16.24	20.70	
	OSPP Rel 99	RMC 12 2000	17.81	17.00	17.83	19.00	19.34	19.45	19.37	20.70
	OSPP Rel 9	HELPA Subsite 1	17.05	17.70	17.03	18.00	18.30	18.44	18.47	19.70
	OSPP Rel 9	HELPA Subsite 2	17.06	17.12	17.05	18.00	18.33	18.52	18.24	19.70
	OSPP Rel 9	HELPA Subsite 3	16.57	16.54	16.43	18.00	18.21	17.90	17.60	19.20
	OSPP Rel 9	HELPA Subsite 4	16.40	16.80	16.52	18.40	17.81	17.04	17.93	19.20
	OSPP Rel 9	DC-HELPA Subsite 1	16.95	17.00	16.95	18.00	18.34	18.52	18.36	19.70
	OSPP Rel 9	DC-HELPA Subsite 2	16.95	17.00	17.00	18.00	18.32	18.53	18.44	19.70
	OSPP Rel 9	DC-HELPA Subsite 3	16.40	16.40	16.40	18.40	17.81	17.80	17.69	19.20
	OSPP Rel 9	DC-HELPA Subsite 4	16.41	16.21	16.41	18.40	17.71	17.00	17.71	19.20
	OSPP Rel 9	HELPA Subsite 1	17.83	17.10	18.92	19.00	18.44	18.62	18.33	19.92
	OSPP Rel 9	HELPA Subsite 2	17.13	16.80	16.13	18.00	18.55	18.44	18.46	19.20
	OSPP Rel 9	HELPA Subsite 3	16.11	16.01	15.95	17.00	17.49	17.40	17.38	18.10
	OSPP Rel 9	HELPA Subsite 4	14.93	15.14	15.13	18.00	16.27	16.67	16.43	17.70
	OSPP Rel 9	HELPA Subsite 5	16.93	16.92	16.92	18.00	18.31	18.32	18.26	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 time (min)	MFR (dB)		
Channel										
	Frequency (MHz)			1800	1880	1900				
20	QPSK	1	0	18.10	18.10	18.15				
20	QPSK	1	49	18.03	18.11	18.07	10.6	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	10.6	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	10.6	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	10.6	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	17.86				
20	HQAM	1	49	17.92	17.98	17.86	10.6	0		
20	HQAM	1	99	17.95	17.98	17.86				
20	HQAM	50	0	17.92	18.00	17.90				
20	HQAM	50	24	17.82	17.98	17.82	10.6	0		
20	HQAM	50	50	17.85	17.91	17.80				
20	SSQAM	1	0	17.76	17.86	17.80				
20	SSQAM	1	49	17.76	17.84	17.80	10.6	0		
20	SSQAM	1	99	17.76	17.85	17.83				
20	SSQAM	50	0	17.73	17.85	17.82				
20	SSQAM	50	24	17.62	17.83	17.79	10.6	0		
20	SSQAM	50	50	17.72	17.77	17.88				
20	SSQAM	100	0	17.75	17.82	17.80				
Channel										
	Frequency (MHz)			1807.5	1890	1912.5	Turn-up time (min)	MFR (dB)		
15	QPSK	1	0	18.00	18.00	18.07				
15	QPSK	1	37	17.95	18.05	17.98	10.6	0		
15	QPSK	1	74	17.96	18.00	17.94				
15	QPSK	36	0	17.88	17.97	18.01				
15	QPSK	36	18	17.78	17.96	17.82	10.6	0		
15	QPSK	36	36	17.82	17.93	17.75				
15	QPSK	75	0	17.87	17.90	17.86				
15	QPSK	75	0	17.87	17.97	17.82				
15	HQAM	1	0	17.89	17.90	17.77	10.6	0		
15	HQAM	1	37	17.89	17.95	17.77				
15	HQAM	1	74	17.89	17.96	17.80				
15	HQAM	36	0	17.88	17.96	17.84				
15	HQAM	36	20	17.84	17.96	17.80	10.6	0		
15	HQAM	36	36	17.85	17.95	17.80				
15	HQAM	75	0	17.79	17.95	17.88				
15	HQAM	1	0	17.73	17.81	17.81				
15	HQAM	1	37	17.87	17.94	17.80	10.6	0		
15	HQAM	1	74	17.85	18.05	17.50				
15	HQAM	36	0	17.85	17.96	17.88				
15	HQAM	36	20	17.87	17.99	17.82	10.6	0		
15	HQAM	36	36	17.75	17.81	17.52				
15	HQAM	75	0	17.87	17.90	17.74				
15	SSQAM	1	0	17.72	17.85	17.80				
15	SSQAM	1	37	17.64	17.88	17.70	10.6	0		
15	SSQAM	1	74	17.68	17.88	17.71				
15	SSQAM	36	0	17.67	17.89	17.82				
15	SSQAM	36	20	17.77	17.85	17.58	10.6	0		
15	SSQAM	36	36	17.64	17.70	17.73				
15	SSQAM	75	0	17.64	17.83	17.71				
Channel										
	Frequency (MHz)			1855	1890	1910	Turn-up time (min)	MFR (dB)		
10	QPSK	1	0	18.07	18.07	18.07				
10	QPSK	1	25	17.97	18.07	17.94	10.6	0		
10	QPSK	1	49	17.97	17.99	18.04				
10	QPSK	25	0	17.97	18.00	17.92				
10	QPSK	25	12	17.74	18.00	17.87	10.6	0		
10	QPSK	25	25	17.84	17.88	17.74				
10	QPSK	50	0	17.87	17.90	17.86				
10	HQAM	1	0	17.89	17.97	17.91				
10	HQAM	1	25	17.87	17.81	17.72	10.6	0		
10	HQAM	1	49	17.86	17.92	17.82				
10	HQAM	25	0	17.88	17.92	17.92				
10	HQAM	25	12	17.85	17.99	17.87	10.6	0		
10	HQAM	25	25	17.84	17.89	17.75				
10	HQAM	50	0	17.78	17.91	17.84				
10	HQAM	1	0	17.83	17.85	17.81				
10	HQAM	1	25	17.84	17.83	17.71	10.6	0		
10	HQAM	1	49	17.86	18.07	17.89				
10	HQAM	25	0	17.75	17.96	17.88				
10	HQAM	25	12	17.84	17.90	17.84	10.6	0		
10	HQAM	25	25	17.72	17.79	17.74				
10	HQAM	50	0	17.84	17.89	17.75				
10	SSQAM	1	0	17.72	17.83	17.79				
10	SSQAM	1	25	17.64	17.90	17.68	10.6	0		
10	SSQAM	1	49	17.67	17.83	17.65				
10	SSQAM	25	0	17.67	17.85	17.73				
10	SSQAM	25	12	17.78	17.85	17.73	10.6	0		
10	SSQAM	25	25	17.67	17.72	17.70				
10	SSQAM	50	0	17.62	17.77	17.75				
Channel										
	Frequency (MHz)			1862.5	1890	1917.5	Turn-up time (min)	MFR (dB)		
5	QPSK	1	0	17.65	18.18	18.00				
5	QPSK	1	12	17.69	18.05	17.50	10.6	0		
5	QPSK	1	24	17.88	17.98	18.01				
5	QPSK	12	0	17.67	17.90	17.84				
5	QPSK	12	7	17.74	17.78	17.82	10.6	0		
5	QPSK	12	13	17.85	17.89	17.73				
5	QPSK	25	0	17.63	17.83	17.84				
5	HQAM	1	0	17.86	17.97	17.92				
5	HQAM	1	12	17.84	17.87	17.81	10.6	0		
5	HQAM	1	24	17.82	17.88	17.84				
5	HQAM	12	0	17.80	17.91	17.81				
5	HQAM	12	7	17.84	18.01	17.84	10.6	0		
5	HQAM	12	13	17.84	17.98	17.84				
5	HQAM	25	0	17.81	17.88	17.79				
5	HQAM	1	0	17.73	17.87	17.83				
5	HQAM	1	12	17.82	17.92	17.86	10.6	0		
5	HQAM	1	24	17.84	17.97	17.81				
5	HQAM	12	0	17.81	17.96	17.88				
5	HQAM	12	7	17.87	17.90	17.83	10.6	0		
5	HQAM	12	13	17.80	17.77	17.79				
5	HQAM	25	0	17.82	17.89	17.86				
5	HQAM	25	0	17.72	17.84	17.83				
5	SSQAM	1	0	17.61	17.89	17.80				
5	SSQAM	1	12	17.68	17.74	17.72	10.6	0		
5	SSQAM	25	0	17.63	17.82	17.86				
Channel										
	Frequency (MHz)			1861.5	1890	1918.5	Turn-up time (min)	MFR (dB)		
3	QPSK	1	0	18.07	18.13	18.10				
3	QPSK	1	8	18.00	18.03	17.88	10.6	0		
3	QPSK	1	14	17.98	18.06	17.90				
3	QPSK	8	0	17.98	18.01	17.99				
3	QPSK	8	4	17.75	17.95	17.89	10.6	0		
3	QPSK	8	7	17.87	17.88	17.71				
3	HQAM	1	0	17.94	17.87	17.85				
3	HQAM	1	8	17.90	17.95	17.84	10.6	0		
3	HQAM	1	14	17.81	17.86	17.81				
3	HQAM	8	0	17.83	17.91	17.84				
3	HQAM	8	4	17.79	17.98	17.87	10.6	0		
3	HQAM	8	7	17.86	17.90	17.82				
3	HQAM	15	0	17.74	17.83	17.89				
3	HQAM	1	0	17.88	17.92	17.86	10.6	0		
3	HQAM	1	14	17.87	18.00	17.96				
3	HQAM	8	0	17.75	17.89	17.81				
3	HQAM	8	7	17.83						





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	18.17	18.04	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	18.09	18.05	19.6	0		
20	16QAM	50	50	18.09	18.08	17.85	19.6	0		
20	256QAM	1	0	18.00	18.09	17.87	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	18.02	17.88	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	25	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	18.09	17.85	19.6	0		
19	16QAM	1	37	17.92	17.94	17.79	19.6	0		
19	16QAM	1	74	18.00	18.10	18.02	19.6	0		
19	16QAM	36	25	18.04	18.13	17.93	19.6	0		
19	16QAM	36	29	17.93	17.97	17.85	19.6	0		
19	16QAM	36	29	17.96	18.02	17.82	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	17.86	18.03	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	25	17.87	18.08	17.88	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	0	17.86	17.86	17.86	19.6	0		
19	256QAM	1	37	17.80	18.03	17.92	19.6	0		
19	256QAM	1	74	17.87	17.94	17.85	19.6	0		
19	256QAM	36	25	17.83	17.92	17.83	19.6	0		
19	256QAM	36	29	17.89	17.92	17.79	19.6	0		
19	256QAM	36	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	18.04	18.12	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	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	17.96	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	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	17.86	18.02	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	17.95	18.05	17.88	19.6	0		
20	256QAM	1	0	17.84	17.91	17.81	19.6	0		
20	256QAM	12	0	17.88	17.92	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)										
20	QPSK	1	0	18.08	18.18	18.03	19.6	0		
20	QPSK	1	12	18.08	18.17	18.05	19.6	0		
20	QPSK	1	24	18.06	18.08	18.05	19.6	0		
20	QPSK	12	0	18.14	18.12	18.13	19.6	0		
20	QPSK	12	7	17.88	18.07	17.90	19.6	0		
20	QPSK	12	13	17.88	17.99	17.87	19.6	0		
20	QPSK	25	0	18.00	18.00	17.95	19.6	0		
20	16QAM	1	0	18.01	18.06	18.00	19.6	0		
20	16QAM	1	12	17.93	17.96	17.85	19.6	0		
20	16QAM	1	24	17.88	18.03	17.87	19.6	0		
20	16QAM	12	0	17.95	18.13	18.04	19.6	0		
20	16QAM	12	7	17.88	17.96	18.02	19.6	0		
20	16QAM	12	13	18.00	18.00	17.88	19.6	0		
20	16QAM	25	0	17.77	18.06	17.87	19.6	0		
20	16QAM	1	0	17.84	18.06	17.85	19.6	0		
20	16QAM	1	12	17.89	18.01	17.90	19.6	0		
20	16QAM	1	24	17.81	18.07	18.04	19.6	0		
20	16QAM	12	0	17.82	18.13	17.91	19.6	0		
20	16QAM	12	7	17.89	17.92	17.87	19.6	0		
20	16QAM	12	13	17.84	17.97	17.90	19.6	0		
20	16QAM	25	0	18.04	18.00	17.90	19.6	0		
20	256QAM	1	0	17.87	17.87	17.88	19.6	0		
20	256QAM	1	12	17.80	18.00	17.90	19.6	0		
20	256QAM	12	0	17.85	17.90	17.84	19.6	0		
20	256QAM	12	7	17.88	17.88	17.86	19.6	0		
20	256QAM	12	13	17.81	17.81	17.83	19.6	0		
20	256QAM	25	0	17.78	17.78	17.80	19.6	0		
20	256QAM	25	0	17.78	17.96	17.74	19.6	0		
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.15	18.17	18.14	19.6	0		
20	QPSK	1	8	18.01	18.11	18.08	19.6	0		
20	QPSK	1	14	18.03	18.14	18.03	19.6	0		
20	QPSK	8	0	17.97	18.07	18.07	19.6	0		
20	QPSK	8	4	17.87	18.06	17.84	19.6	0		
20	QPSK	8	7	17.99	18.05	17.89	19.6	0		
20	QPSK	15	0	17.97	18.07	17.87	19.6	0		
20	16QAM	1	0	18.00	18.09	17.89	19.6	0		
20	16QAM	1	8	17.94	17.95	17.75	19.6	0		
20	16QAM	1	15	18.02	18.11	17.95	19.6	0		
20	16QAM	8	0	18.02	18.08	17.94	19.6	0		
20	16QAM	8	4	17.89	17.99	18.00	19.6	0		
20	16QAM	8	7	17.86	17.96	17.92	19.6	0		
20	16QAM	15	0	17.82	18.02	17.82	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	64QAM	1	0	19.53	19.58	19.59	19.38	19.38		
20	64QAM	1	49	19.46	19.34	19.46	19.42	19.45		
20	64QAM	1	99	19.37	19.53	19.51	19.47	19.31	21.1	0
20	64QAM	50	0	19.56	19.37	19.55	19.40	19.56		
20	64QAM	50	24	19.42	19.50	19.58	19.47	19.46		
20	64QAM	50	50	19.22	19.49	19.61	19.27	19.39		
20	64QAM	100	0	19.25	19.43	19.59	19.45	19.32	21	0.1
20	256QAM	1	0	18.42	18.31</					



### 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	22.7	0
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	22.7	0
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	22.7	0
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	22.7	0
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	22.7	0
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	22.7	0
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	22.7	0
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	22.7	0
20	256QAM	100	0	20.83	20.86	21.05	20.91	20.83		
Channel				39725	40173	40620	41068	41515	23	0
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	22.7	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	22.7	0
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	22.7	0
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	22.7	0
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	22.7	0
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	22.7	0
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	22.7	0
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	22.7	0
15	256QAM	75	0	20.85	20.95	21.08	20.82	20.73		
Channel				39700	40160	40620	41080	41540	23	0
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	21.01	21.13	21.28	21.14	21.09	22.7	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	22.7	0
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	22.7	0
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	22.7	0
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	22.7	0
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	22.7	0
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	22.7	0
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	22.7	0
10	256QAM	50	0	20.83	20.90	21.02	20.86	20.78		
Channel				39675	40148	40620	41093	41565	23	0
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5		
5	QPSK	1	0	20.98	21.15	21.18	21.20	21.13	22.7	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	22.7	0
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	22.7	0
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	22.7	0
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	22.7	0
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	22.7	0
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	22.7	0
5	256QAM	1	24	20.83	21.01	20				



## 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	22.00	1712.4	1732.3	1752.3	22.00	826.4	836.4	846.6	24.00
3GPP Rel 99 AMR 12.2Kbps	20.57	20.65	20.53	22.00	20.39	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)	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	22.95	22.97	22.97				
20	QPSK	50	0	22.98	23.13	23.05				
20	QPSK	50	24	22.94	23.04	22.98				
20	QPSK	50	50	22.92	23.04	22.96				
20	QPSK	100	0	22.99	23.02	22.91				
20	QPSK	100	24	22.95	23.02	22.98				
20	QPSK	100	49	22.85	22.98	22.90				
20	QPSK	150	0	22.70	22.85	22.80				
20	QPSK	150	24	22.62	22.82	22.74				
20	QPSK	150	50	22.34	22.48	22.34				
20	QPSK	50	24	22.36	22.42	22.27				
20	QPSK	50	50	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	22.68	22.58				
20	QPSK	50	0	21.54	21.71	21.61				
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	100	24	21.38	21.48	21.38				
20	QPSK	100	49	21.32	21.48	21.35				
20	QPSK	150	0	19.82	19.88	19.80				
20	QPSK	150	24	19.82	19.82	19.85				
20	QPSK	150	50	19.80	19.82	19.57				
20	QPSK	50	24	19.80	19.73	19.63				
20	QPSK	50	50	19.70	19.81	19.78				
20	QPSK	100	0	19.70	19.81	19.78				
20	QPSK	100	24	19.65	19.81	19.77				
20	QPSK	100	49	19.65	19.80	19.75				
20	QPSK	150	0	18.97	19.12	19.05				
20	QPSK	150	24	18.97	19.12	19.05				
20	QPSK	150	50	18.92	19.12	19.05				
20	QPSK	50	24	18.92	19.12	19.05				
20	QPSK	50	50	18.87	19.12	19.05				
20	QPSK	100	0	18.87	19.12	19.05				
20	QPSK	100	24	18.82	19.12	19.05				
20	QPSK	100	49	18.82	19.12	19.05				
20	QPSK	150	0	18.77	19.12	19.05				
20	QPSK	150	24	18.77	19.12	19.05				
20	QPSK	150	50	18.72	19.12	19.05				
20	QPSK	50	24	18.72	19.12	19.05				
20	QPSK	50	50	18.67	19.12	19.05				
20	QPSK	100	0	18.67	19.12	19.05				
20	QPSK	100	24	18.62	19.12	19.05				
20	QPSK	100	49	18.62	19.12	19.05				
20	QPSK	150	0	18.57	19.12	19.05				
20	QPSK	150	24	18.57	19.12	19.05				
20	QPSK	150	50	18.52	19.12	19.05				
20	QPSK	50	24	18.52	19.12	19.05				
20	QPSK	50	50	18.47	19.12	19.05				
20	QPSK	100	0	18.47	19.12	19.05				
20	QPSK	100	24	18.42	19.12	19.05				
20	QPSK	100	49	18.42	19.12	19.05				
20	QPSK	150	0	18.37	19.12	19.05				
20	QPSK	150	24	18.37	19.12	19.05				
20	QPSK	150	50	18.32	19.12	19.05				
20	QPSK	50	24	18.32	19.12	19.05				
20	QPSK	50	50	18.27	19.12	19.05				
20	QPSK	100	0	18.27	19.12	19.05				
20	QPSK	100	24	18.22	19.12	19.05				
20	QPSK	100	49	18.22	19.12	19.05				
20	QPSK	150	0	18.17	19.12	19.05				
20	QPSK	150	24	18.17	19.12	19.05				
20	QPSK	150	50	18.12	19.12	19.05				
20	QPSK	50	24	18.12	19.12	19.05				
20	QPSK	50	50	18.07	19.12	19.05				
20	QPSK	100	0	18.07	19.12	19.05				
20	QPSK	100	24	18.02	19.12	19.05				
20	QPSK	100	49	18.02	19.12	19.05				
20	QPSK	150	0	17.97	19.12	19.05				
20	QPSK	150	24	17.97	19.12	19.05				
20	QPSK	150	50	17.92	19.12	19.05				
20	QPSK	50	24	17.92	19.12	19.05				
20	QPSK	50	50	17.87	19.12	19.05				
20	QPSK	100	0	17.87	19.12	19.05				
20	QPSK	100	24	17.82	19.12	19.05				
20	QPSK	100	49	17.82	19.12	19.05				
20	QPSK	150	0	17.77	19.12	19.05				
20	QPSK	150	24	17.77	19.12	19.05				
20	QPSK	150	50	17.72	19.12	19.05				
20	QPSK	50	24	17.72	19.12	19.05				
20	QPSK	50	50	17.67	19.12	19.05				
20	QPSK	100	0	17.67	19.12	19.05				
20	QPSK	100	24	17.62	19.12	19.05				
20	QPSK	100	49	17.62	19.12	19.05				
20	QPSK	150	0	17.57	19.12	19.05				
20	QPSK	150	24	17.57	19.12	19.05				
20	QPSK	150	50	17.52	19.12	19.05				
20	QPSK	50	24	17.52	19.12	19.05				
20	QPSK	50	50	17.47	19.12	19.05				
20	QPSK	100	0	17.47	19.12	19.05				
20	QPSK	100	24	17.42	19.12	19.05				
20	QPSK	100	49	17.42	19.12	19.05				
20	QPSK	150	0	17.37	19.12	19.05				
20	QPSK	150	24	17.37	19.12	19.05				
20	QPSK	150	50	17.32	19.12	19.05				
20	QPSK	50	24	17.32	19.12	19.05				
20	QPSK	50	50	17.27	19.12	19.05				
20	QPSK	100	0	17.27	19.12	19.05				
20	QPSK	100	24	17.22	19.12	19.05				
20	QPSK	100	49	17.22	19.12	19.05				
20	QPSK	150	0	17.17	19.12	19.05				
20	QPSK	150	24	17.17	19.12	19.05				
20	QPSK	150	50	17.12	19.12	19.05				
20	QPSK	50	24	17.12	19.12	19.05				
20	QPSK	50	50	17.07	19.12	19.05				
20	QPSK	100	0	17.07	19.12	19.05				
20	QPSK	100	24	17.02	19.12	19.05				
20	QPSK	100	49	17.02	19.12	19.05				
20	QPSK	150	0	16.97	19.12	19.05				
20	QPSK	150	24	16.97	19.12	19.05				
20	QPSK	150	50	16.92	19.12	19.05				
20	QPSK	50	24	16.92	19.12	19.05				
20	QPSK	50	50	16.87	19.12	19.05				
20	QPSK	100	0	16.87	19.12	19.05				
20	QPSK	100	24	16.82	19.12	19.05				
20	QPSK	100	49	16.82	19.12	19.05				
20	QPSK	150	0	16.77	19.12	19.05				
20	QPSK	150	24	16.77	19.12	19.05				
20	QPSK	150	50	16.72	19.12	19.05				
20	QPSK	50	24	16.72	19.12	19.05				
20	QPSK	50	50	16.67	19.12	19.05				
20	QPSK	100	0	16.67	19.12	19.05				
20	QPSK	100	24	16.62	19.12	19.05				
20	QPSK	100	49	16.62	19.12	19.05				
20	QPSK	150	0	16.57	19.12	19.05				
20	QPSK	150	24	16.57	19.12	19.05				
20	QPSK	150	5							





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	22.66	22.61				
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	22.76	22.96	22.87				
20	64QAM	50	0	21.82	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	21.66	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	19.80	19.77				
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										
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	22.96	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	22.83	22.81				
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	36	0	19.76	19.80	19.77				
15	256QAM	36	25	19.69	19.87	19.60	20.5	3.5		
15	256QAM	36	39	19.67	19.70	19.61				
15	256QAM	75	0	19.55	19.66	19.58				
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				
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	0	22.90	22.95	22.83				
10	16QAM	1	24	22.81	22.91	22.88	24	0		
10	16QAM	1	49	22.66	22.74	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	22.61				
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	21.56	21.52				
10	256QAM	1	0	19.80	19.84	19.81				
10	256QAM	1	24	19.68	19.75	19.72	20.5	3.5		
10	256QAM	1	49	19.74	19.73	19.73				
10	256QAM	12	0	19.65	19.61	19.67				
10	256QAM	12	12	19.71	19.83	19.68	20.5	3.5		
10	256QAM	25	0	19.66	19.61	19.60				
10	256QAM	25	0	19.55	19.47	19.53				
Channel										
2685 2685 2705										
1852.5 1800 1912.5										
5	QPSK	1	0	23.03	23.07	23.03				
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	22.62	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	22.82	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				
5	256QAM	1	12	19.71	19.82	19.75	20.5	3.5		
5	256QAM	1	24	19.68	19.75	19.74				
5	256QAM	12	0	19.76	19.85	19.84				
5	256QAM	12	7	19.68	19.78	19.59	20.5	3.5		
5	256QAM	12	13	19.61	19.64	19.64				
5	256QAM	25	0	19.57	19.64	19.54				
Channel										
2685 2685 2705										
1852.5 1800 1912.5										
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				
3	QPSK	8	4	22.80	22.97	22.91	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				
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	22.88	22.97				
3	64QAM	1	0	22.75	22.92	22.80				
3	64QAM	1	8	22.6						



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	20.41	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	20.85	20.83				
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	20.80	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	20.42				
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	18.74				
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	20.88	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	20.63	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	18.79	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	18.86	18.81				
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	20.03	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	20.89	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	2									





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				
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				
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				
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	22.14	23.5	0.5





### 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		
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		
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		
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		
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		
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	24	2
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		
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		
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		
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		
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		
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		
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	25	1
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		
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	24	2
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		
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		
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		
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		
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		
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		
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	25	1
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		
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	24	2
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	21.30	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		
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		
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		
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		
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		
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	25	1
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		
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	24	2
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		
5	256QAM	1	24	21.19	21.30	21.32	21.28	21.22		
5	256QAM	12	0	21.28	21.25	21.33	21.22	21.19	22	4
5	256QAM	12	7	21.19	21.07	21.22	21.20	20.93		
5	256QAM	12	13	21.08	21.06	21.15	21.16	20.96		
5	256QAM	25	0	21.24	21.16	21.25	21.12	21.06		

### Band 48 Default Ant 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power
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GSM850 Ant1									
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	TX Channel	128	189		251	128	189		
Frequency (MHz)	824.2	835.4	848.8		824.2	835.4	848.8		
GSM 1 Tx slot	31.42	31.48	31.38	32.50	22.42	22.48	22.36	23.50	0.15
GPRS 1 Tx slots	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
	TX Channel	512	661		810	512	661		
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot	27.66	27.74	27.63	28.50	18.66	18.74	18.63	19.50	0.22
GPRS 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)	
	TX Channel	9262	9400		9538	1312	1413		1513	4132	4182		4233
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458		
Frequency (MHz)	1852.4	1860	1907.6		1712.4	1732.6	1752.8		4264	4364	4464		
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	RM-C 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	1	149	20.92	20.98	20.96				
20	QPSK	50	0	20.99	21.00	20.99				
20	QPSK	50	49	20.97	20.98	20.98				
20	QPSK	50	99	20.98	20.99	20.98			22	0
20	QPSK	100	0	20.90	20.95	20.97				
20	QPSK	100	49	20.92	20.98	20.97				
20	QPSK	100	99	20.97	20.98	20.97			22	0
20	QPSK	150	0	20.92	20.98	20.97				
20	QPSK	150	49	20.97	20.98	20.97				
20	QPSK	150	99	20.98	20.99	20.97			22	0
20	QPSK	200	0	20.92	20.98	20.97				
20	QPSK	200	49	20.97	20.98	20.97				
20	QPSK	200	99	20.98	20.99	20.97			22	0
20	QPSK	250	0	20.92	20.98	20.97				
20	QPSK	250	49	20.97	20.98	20.97				
20	QPSK	250	99	20.98	20.99	20.97			22	0
20	QPSK	300	0	20.92	20.98	20.97				
20	QPSK	300	49	20.97	20.98	20.97				
20	QPSK	300	99	20.98	20.99	20.97			22	0
20	QPSK	350	0	20.92	20.98	20.97				
20	QPSK	350	49	20.97	20.98	20.97				
20	QPSK	350	99	20.98	20.99	20.97			22	0
20	QPSK	400	0	20.92	20.98	20.97				
20	QPSK	400	49	20.97	20.98	20.97				
20	QPSK	400	99	20.98	20.99	20.97			22	0
20	QPSK	450	0	20.92	20.98	20.97				
20	QPSK	450	49	20.97	20.98	20.97				
20	QPSK	450	99	20.98	20.99	20.97			22	0
20	QPSK	500	0	20.92	20.98	20.97				
20	QPSK	500	49	20.97	20.98	20.97				
20	QPSK	500	99	20.98	20.99	20.97			22	0
20	QPSK	550	0	20.92	20.98	20.97				
20	QPSK	550	49	20.97	20.98	20.97				
20	QPSK	550	99	20.98	20.99	20.97			22	0
20	QPSK	600	0	20.92	20.98	20.97				
20	QPSK	600	49	20.97	20.98	20.97				
20	QPSK	600	99	20.98	20.99	20.97			22	0
20	QPSK	650	0	20.92	20.98	20.97				
20	QPSK	650	49	20.97	20.98	20.97				
20	QPSK	650	99	20.98	20.99	20.97			22	0
20	QPSK	700	0	20.92	20.98	20.97				
20	QPSK	700	49	20.97	20.98	20.97				
20	QPSK	700	99	20.98	20.99	20.97			22	0
20	QPSK	750	0	20.92	20.98	20.97				
20	QPSK	750	49	20.97	20.98	20.97				
20	QPSK	750	99	20.98	20.99	20.97			22	0
20	QPSK	800	0	20.92	20.98	20.97				
20	QPSK	800	49	20.97	20.98	20.97				
20	QPSK	800	99	20.98	20.99	20.97			22	0
20	QPSK	850	0	20.92	20.98	20.97				
20	QPSK	850	49	20.97	20.98	20.97				
20	QPSK	850	99	20.98	20.99	20.97			22	0
20	QPSK	900	0	20.92	20.98	20.97				
20	QPSK	900	49	20.97	20.98	20.97				
20	QPSK	900	99	20.98	20.99	20.97			22	0
20	QPSK	950	0	20.92	20.98	20.97				
20	QPSK	950	49	20.97	20.98	20.97				
20	QPSK	950	99	20.98	20.99	20.97			22	0
20	QPSK	1000	0	20.92	20.98	20.97				
20	QPSK	1000	49	20.97	20.98	20.97				
20	QPSK	1000	99	20.98	20.99	20.97			22	0

Band 4 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	20.93	21.00	20.99				
20	QPSK	1	49	20.95	20.99	20.98				
20	QPSK	1	99	20.97	20.91	20.78			22	0
20	QPSK	1	149	20.95	20.99	20.98				
20	QPSK	50	0	20.75	20.91	20.83				
20	QPSK	50	49	20.72	20.92	20.73				
20	QPSK	50	99	20.74	20.78	20.77			22	0
20	QPSK	100	0	20.78	20.87	20.83				
20	QPSK	100	49	20.87	20.89	20.89				
20	QPSK	100	99	20.78	20.85	20.75			22	0
20	QPSK	150	0	20.74	20.90	20.86				
20	QPSK	150	49	20.74	20.90	20.86				
20	QPSK	150	99	20.74	20.90	20.86			22	0
20	QPSK	200	0	20.74	20.90	20.86				
20	QPSK	200	49	20.74	20.90	20.86				
20	QPSK	200	99	20.74	20.90	20.86			22	0
20	QPSK	250	0	20.74	20.90	20.86				
20	QPSK	250	49	20.74	20.90	20.86				
20	QPSK	250	99	20.74	20.90	20.86			22	0
20	QPSK	300	0	20.74	20.90	20.86				
20	QPSK	300	49	20.74	20.90	20.86				
20	QPSK	300	99	20.74	20.90	20.86			22	0
20	QPSK	350	0	20.74	20.90	20.86				
20	QPSK	350	49	20.74	20.90	20.86				
20	QPSK	350	99	20.74	20.90	20.86			22	0
20	QPSK	400	0	20.74	20.90	20.86				
20	QPSK	400	49	20.74	20.90	20.86				
20	QPSK	400	99	20.74	20.90	20.86			22	0
20	QPSK	450	0	20.74	20.90	20.86				
20	QPSK	450	49	20.74	20.90	20.86				
20	QPSK	450	99	20.74	20.90	20.86			22	0
20	QPSK	500	0	20.74	20.90	20.86				
20	QPSK	500	49	20.74	20.90	20.86				
20	QPSK	500	99	20.74	20.90	20.86			22	0
20	QPSK	550	0	20.74	20.90	20.86				
20	QPSK	550	49	20.74	20.90	20.86				
20	QPSK	550	99	20.74	20.90	20.86			22	0
20	QPSK	600	0	20.74	20.90	20.86				
20	QPSK	600	49	20.74	20.90	20.86				
20	QPSK	600	99	20.74	20.90	20.86			22	0
20	QPSK	650	0	20.74	20.90	20.86				
20	QPSK	650	49	20.74	20.90	20.86				
20	QPSK	650	99	20.74	20.90	20.86			22	0
20	QPSK	700	0	20.74	20.90	20.86				
20	QPSK	700	49	20.74	20.90	20.86				
20	QPSK	700	99	20.74	20.90	20.86			22	0
20	QPSK	750	0	20.74	20.90	20.86				
20	QPSK	750	49	20.74	20.90	20.86				
20	QPSK	750	99	20.74	20.90	20.86			22	0
20	QPSK	800	0	20.74	20.90	20.86				
20	QPSK	800	49	20.74	20.90	20.86				
20	QPSK	800	99	20.74	20.90	20.86			22	0
20	QPSK	850	0	20.74	20.90	20.86				
20	QPSK	850	49	20.74	20.90	20.86				
20	QPSK	850	99	20.74	20.90	20.86			22	0
20	QPSK	900	0	20.74	20.90	20.86				
20	QPSK	900	49	20.74	20.90	20.86				
20	QPSK	900	99	20.74	20.90	20.86			22	0
20	QPSK	950	0	20.74	20.90	20.86				
20	QPSK	950	49	20.74	20.90	20.86				
20										



Band 12 Default Ant 1										
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	21.88				
10	QPSK	1	25	21.90	21.82	21.97				
10	QPSK	1	49	21.47	21.49	21.92		23	0	
10	QPSK	25	0	21.80	21.70	21.95				
10	QPSK	25	12	21.85	21.83	21.93				
10	QPSK	25	25	21.46	21.48	21.48		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	21.38		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	21.60	21.40				
10	16QAM	1	0	21.34	21.50	21.38		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	18.46		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	20.93	20.95	21.05				
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	24	21.33	21.44	21.40				
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	21.48	21.45				
5	16QAM	1	1	21.51	21.48	21.40		23	0	
5	16QAM	1	12	21.36	21.37	21.23				
5	16QAM	1	24	21.22	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	8QAM	1	0	21.20	21.38	21.22		22.5	0.5	
5	8QAM	1	12	21.15	21.37	21.27				
5	8QAM	1	24	21.13	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	20.18				
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	18.17	18.24	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	20.95	20.96	21.05				
3	QPSK	1	8	21.02	21.08	21.05				
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	8	7	21.32	21.40	21.38		23	0	
3	QPSK	15	0	21.52	21.57	21.38				
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	15	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	21.30	21.27				
3	16QAM	15	0	21.22	21.47	21.39				
3	8QAM	1	0	21.20	21.40	21.29		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	20.38	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	18.28				
3	256QAM	8	0	18.08	18.07	18.07		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	21.65				
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	21.28	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	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	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				
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 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	21.48	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		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	21.38	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	21.04				</



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 limit (dB)	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	21.03	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	20.99			22	0
20	64QAM	1	96	20.88	21.01	20.89				
20	64QAM	50	0	20.89	21.01	20.95				
20	64QAM	50	24	20.81	20.94	20.84				
20	64QAM	50	50	20.76	20.78	20.74			22	0
20	64QAM	100	0	20.88	20.99	20.92				
20	256QAM	1	48	17.82	17.97	17.88			19	3
20	256QAM	1	96	17.77	17.84	17.77				
20	256QAM	50	24	17.80	17.85	17.84				
20	256QAM	50	50	17.71	17.82	17.78			19	3
20	256QAM	100	0	17.82	17.89	17.85				
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.89	21.07	20.98				
15	QPSK	1	37	20.76	20.81	20.79			22	0
15	QPSK	1	74	20.76	20.84	20.78				
15	QPSK	36	0	20.83	20.94	20.91				
15	QPSK	36	25	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	20.88	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	20.71	20.86	20.74				
15	16QAM	36	25	20.67	20.82	20.71			22	0
15	16QAM	36	39	20.71	20.89	20.74				
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	20.99	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	25	20.76	20.88	20.78			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	17.88				
15	256QAM	1	37	17.88	17.93	17.79			19	3
15	256QAM	1	74	17.83	17.71	17.73				
15	256QAM	36	0	17.86	17.91	17.86				
15	256QAM	36	25	17.69	17.78	17.77				
15	256QAM	36	39	17.86	17.78	17.67			19	3
15	256QAM	75	0	17.82	17.86	17.80				
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	20.98	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	48	20.76	20.88	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	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			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	17.97	17.87				
10	256QAM	1	24	17.88	17.99	17.74			19	3
10	256QAM	1	48	17.71	17.75	17.62				
10	256QAM	12	0	17.80	17.85	17.80				
10	256QAM	12	12	17.74	17.71	17.77				
10	256QAM	12	25	17.64	17.74	17.74			19	3
10	256QAM	25	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	QPSK	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	20.72	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	17.82	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				
5	256QAM	12	13	17.62	17.70	17.74			19	3
5	256QAM	25	0	17.83	17.84	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	20.79			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	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	20.88	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	20.76	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	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	75	0	20.75	20.88	20.70	22	0		
15	64QAM	1	0	20.71	20.80	20.69				
15	64QAM	1	37	20.81	20.89	20.88	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	20.48	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	17.82	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	17.52	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	20.89	20.71	22	0		
10	QPSK	1	49	20.82	20.78	20.72				
10	QPSK	25	0	20.78	20.78	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	22	0		
10	16QAM	25	25	20.56	20.58	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	20.89	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	20.76	20.70	20.71	22	0		
5	QPSK	12	13	20.87	20.80	20.79				
5	QPSK	25	0	20.73	20.86	20.67				
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	20.67	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	20.69				
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	20.59	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	17.62	17.69				
5	256QAM	12	7	17.54	17.50	17.47				
5	256QAM	12	13	17.39	17.49	17.44	19	3		
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	20.86	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	20.55				
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	20.88	20.69				
3	64QAM	8	4	20.45	20					



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	22.5	0.5			
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	20.5	2.5			
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	20.5	2.5			
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	22.5	0.5			
5	64QAM	12	0	21.86	22.08	21.86					
5	64QAM	12	7	21.78	21.88	21.82	20.5	2.5			
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	16QAM	1	49	22.68	22.62	22.70	22.68	22.72	22	2	
20	16QAM	1	99	22.67	22.58	22.72	22.62	22.64			
20	16QAM	50	0	21.67	21.69	21.80	21.63	21.77	22	2	
20	16QAM	50	24	21.64	21.59	21.63	21.62	21.59			
20	16QAM	50	50	21.45	21						





### 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	27	0
20	QPSK	50	0	25.33	25.30	25.49	25.29	25.37		
20	QPSK	50	24	25.27	25.29	25.46	25.27	25.33	27	0
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	27	0
20	16QAM	1	0	25.18	25.28	25.42	25.23	25.34		
20	16QAM	1	49	25.20	25.14	25.39	25.16	25.28	27	0
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	26	1
20	16QAM	50	24	24.32	24.26	24.50	24.27	24.42		
20	16QAM	50	50	24.21	24.24	24.46	24.22	24.39	26	1
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	26	1
20	64QAM	1	49	24.55	24.52	24.74	24.54	24.66		
20	64QAM	1	99	24.52	24.55	24.70	24.50	24.65	26	1
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	25	2
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	23	4
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		
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	27	0
15	QPSK	36	0	25.25	25.24	25.48	25.24	25.26		
15	QPSK	36	20	25.13	25.15	25.43	25.21	25.21	27	0
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	27	0
15	16QAM	1	0	25.05	25.14	25.32	25.16	25.28		
15	16QAM	1	37	25.05	25.11	25.27	25.03	25.20	27	0
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	26	1
15	16QAM	36	20	24.25	24.18	24.44	24.15	24.31		
15	16QAM	36	39	24.11	24.09	24.37	24.10	24.26	26	1
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	26	1
15	64QAM	1	37	24.49	24.48	24.63	24.46	24.55		
15	64QAM	1	74	24.42	24.42	24.62	24.38	24.61	26	1
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	25	2
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	23	4
15	256QAM	36	20	21.12	21.14	21.34	21.18	21.27		
15	256QAM	36	39	21.14	21.22	21.37	21.12	21.30	23	4
15	256QAM	75	0	21.06	21.19	21.21	21.00	21.10		
Channel				39700	40160	40620	41090	41540		
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	27	0
10	QPSK	25	0	25.22	25.18	25.46	25.22	25.32		
10	QPSK	25	12	25.17	25.21	25.43	25.22	25.26	27	0
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	27	0
10	16QAM	1	0	25.06	25.20	25.30	25.17	25.24		
10	16QAM	1	25	25.06	25.05	25.33	25.12	25.25	27	0
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	26	1
10	16QAM	25	12	24.23	24.19	24.46	24.18	24.29		
10	16QAM	25	25	24.13	24.11	24.43	24.17	24.35	26	1
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	26	1
10	64QAM	1	25	24.43	24.46	24.60	24.49	24.61		
10	64QAM	1	49	24.38	24.51	24.59	24.41	24.56	26	1
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	25	2
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	23	4
10	256QAM	25	12	21.21	21.11	21.32	21.16	21.33		
10	256QAM	25	25	21.11	21.14	21.27	21.11	21.29	23	4
10	256QAM	50	0	21.04	21.04	21.24	21.09	21.18		
Channel				39675	40148	40620	41093	41585		
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	27	0
5	QPSK	12	0	25.20	25.27	25.38	25.21	25.32		
5	QPSK	12	7	25.17	25.25	25.32	25.23	25.22	27	0
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	27	0
5	16QAM	1	0	25.09	25.19	25.32	25.18	25.23		
5	16QAM	1	12	25.15	25.00	25.27	25.05	25.22	27	0
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	26	1
5	16QAM	12	7	24.24	24.18	24.44	24.12	24.36		
5	16QAM	12	13	24.11	24.13	24.32	24.16	24.35	26	1
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	26	1
5	64QAM	1	12	24.46	24.43	24.68	24.39	24.60		
5	64QAM	1	24	24.45	24.41	24.58	24.42	24.53	26	1
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	25	2
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	21.23	21.29	21.49	21.37	21.39		
5	256QAM	12	0	21.34	21.29	21.40	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	19.47	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 DS12_Simultaneous Ant 2										
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. 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	18.17				
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	18.20				
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	100	49	18.14	18.19	18.21				
20	QPSK	150	0	18.13	18.17	18.17				
20	QPSK	150	24	18.05	18.17	18.18				
20	QPSK	150	50	18.08	18.20	18.16				
20	QPSK	150	75	18.11	18.20	18.17				
20	QPSK	150	100	18.12	18.19	18.20				
20	QPSK	150	125	18.04	18.17	18.09				
20	QPSK	150	150	18.05	18.16	18.09				
20	QPSK	150	175	18.05	18.15	18.09				
20	QPSK	150	200	18.12	18.13	18.09				
20	QPSK	150	225	18.05	18.15	18.09				
20	QPSK	150	250	18.05	18.20	17.99				
20	QPSK	150	275	18.02	18.08	18.02				
20	QPSK	150	300	18.05	18.14	18.01				
20	QPSK	150	325	18.05	17.99	17.86				
20	QPSK	150	350	17.86	17.86	17.88				
20	QPSK	150	375	17.86	17.86	17.85				
20	QPSK	150	400	18.05	18.00	18.25				
20	QPSK	150	425	18.05	18.00	18.25				
20	QPSK	150	450	18.05	18.00	18.25				
20	QPSK	150	475	18.05	18.00	18.25				
20	QPSK	150	500	18.05	18.00	18.25				
20	QPSK	150	525	18.05	18.00	18.25				
20	QPSK	150	550	18.05	18.00	18.25				
20	QPSK	150	575	18.05	18.00	18.25				
20	QPSK	150	600	18.05	18.00	18.25				
20	QPSK	150	625	18.05	18.00	18.25				
20	QPSK	150	650	18.05	18.00	18.25				
20	QPSK	150	675	18.05	18.00	18.25				
20	QPSK	150	700	18.05	18.00	18.25				
20	QPSK	150	725	18.05	18.00	18.25				
20	QPSK	150	750	18.05	18.00	18.25				
20	QPSK	150	775	18.05	18.00	18.25				
20	QPSK	150	800	18.05	18.00	18.25				
20	QPSK	150	825	18.05	18.00	18.25				
20	QPSK	150	850	18.05	18.00	18.25				
20	QPSK	150	875	18.05	18.00	18.25				
20	QPSK	150	900	18.05	18.00	18.25				
20	QPSK	150	925	18.05	18.00	18.25				
20	QPSK	150	950	18.05	18.00	18.25				
20	QPSK	150	975	18.05	18.00	18.25				
20	QPSK	150	1000	18.05	18.00	18.25				
20	QPSK	150	1025	18.05	18.00	18.25				
20	QPSK	150	1050	18.05	18.00	18.25				
20	QPSK	150	1075	18.05	18.00	18.25				
20	QPSK	150	1100	18.05	18.00	18.25				
20	QPSK	150	1125	18.05	18.00	18.25				
20	QPSK	150	1150	18.05	18.00	18.25				
20	QPSK	150	1175	18.05	18.00	18.25				
20	QPSK	150	1200	18.05	18.00	18.25				
20	QPSK	150	1225	18.05	18.00	18.25				
20	QPSK	150	1250	18.05	18.00	18.25				
20	QPSK	150	1275	18.05	18.00	18.25				
20	QPSK	150	1300	18.05	18.00	18.25				
20	QPSK	150	1325	18.05	18.00	18.25				
20	QPSK	150	1350	18.05	18.00	18.25				
20	QPSK	150	1375	18.05	18.00	18.25				
20	QPSK	150	1400	18.05	18.00	18.25				
20	QPSK	150	1425	18.05	18.00	18.25				
20	QPSK	150	1450	18.05	18.00	18.25				
20	QPSK	150	1475	18.05	18.00	18.25				
20	QPSK	150	1500	18.05	18.00	18.25				
20	QPSK	150	1525	18.05	18.00	18.25				
20	QPSK	150	1550	18.05	18.00	18.25				
20	QPSK	150	1575	18.05	18.00	18.25				
20	QPSK	150	1600	18.05	18.00	18.25				
20	QPSK	150	1625	18.05	18.00	18.25				
20	QPSK	150	1650	18.05	18.00	18.25				
20	QPSK	150	1675	18.05	18.00	18.25				
20	QPSK	150	1700	18.05	18.00	18.25				
20	QPSK	150	1725	18.05	18.00	18.25				
20	QPSK	150	1750	18.05	18.00	18.25				
20	QPSK	150	1775	18.05	18.00	18.25				
20	QPSK	150	1800	18.05	18.00	18.25				
20	QPSK	150	1825	18.05	18.00	18.25				
20	QPSK	150	1850	18.05	18.00	18.25				
20	QPSK	150	1875	18.05	18.00	18.25				
20	QPSK	150	1900	18.05	18.00	18.25				
20	QPSK	150	1925	18.05	18.00	18.25				
20	QPSK	150	1950	18.05	18.00	18.25				
20	QPSK	150	1975	18.05	18.00	18.25				
20	QPSK	150	2000	18.05	18.00	18.25				
20	QPSK	150	2025	18.05	18.00	18.25				
20	QPSK	150	2050	18.05	18.00	18.25				
20	QPSK	150	2075	18.05	18.00	18.25				
20	QPSK	150	2100	18.05	18.00	18.25				
20	QPSK	150	2125	18.05	18.00	18.25				
20	QPSK	150	2150	18.05	18.00	18.25				
20	QPSK	150	2175	18.05	18.00	18.25				
20	QPSK	150	2200	18.05	18.00	18.25				
20	QPSK	150	2225	18.05	18.00	18.25				
20	QPSK	150	2250	18.05	18.00	18.25				
20	QPSK	150	2275	18.05	18.00	18.25				
20	QPSK	150	2300	18.05	18.00	18.25				
20	QPSK	150	2325	18.05	18.00	18.25				
20	QPSK	150	2350	18.05	18.00	18.25				
20	QPSK	150	2375	18.05	18.00	18.25				
20	QPSK	150	2400	18.05	18.00	18.25				
20	QPSK	150	2425	18.05	18.00	18.25				
20	QPSK	150	2450	18.05	18.00	18.25				
20	QPSK	150	2475	18.05	18.00	18.25				
20	QPSK	150	2500	18.05	18.00	18.25				
20	QPSK	150	2525	18.05	18.00	18.25				
20	QPSK	150	2550	18.05	18.00	18.25				
20	QPSK	150	2575	18.05	18.00	18.25				
20	QPSK	150	2600	18.05	18.00	18.25				
20	QPSK	150	2625	18.05	18.00	18.25				
20	QPSK	150	2650	18.05	18.00	18.25				
20	QPSK	150	2675	18.05	18.00	18.25				
20	QPSK	150	2700	18.05	18.00	18.25				
20	QPSK	150	2725	18.05	18.00	18.25				
20	QPSK	150	2750	18.05	18.00	18.25				
20	QPSK	150	2775	18.05	18.00	18.25				
20	QPSK	150	2800	18.05	18.00	18.25				
20	QPSK	150	2825	18.05	18.00	18.25				
20	QPSK	150	2850	18.05	18.00	18.25				
20	QPSK	150	2875	18.05	18.00	18.25				
20	QPSK	150	2900	18.05	18.00	18.25				
20	QPSK	150	2925	18.05						



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 (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	22.38				
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	21.28	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	14	22.11	22.43	22.08				
3	QPSK	3	0	22.34	22.50	22.20				
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	19.20	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	19.25	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	22.20				
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	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	6	0	19.08	19.20	19.14				
1.4	256QAM	6	3	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 (dB)	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	22.41				
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	21.2				



### 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								
1800 1800 1900								
20	QPSK	1	0	18.74	18.84	18.80		
20	QPSK	1	49	18.76	18.76	18.76		
20	QPSK	1	99	18.70	18.77	18.75		0
20	QPSK	50	0	18.72	18.82	18.66		
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	18.79	18.69		
20	QPSK	100	0	18.73	18.73	18.73		
20	16QAM	1	49	18.80	18.86	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	18.64		
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	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								
2815 3030 3065								
1807.5 1880 1907.5								
15	QPSK	1	0	18.62	18.79	18.69		
15	QPSK	1	37	18.69	18.79	18.61		20
15	QPSK	1	74	18.63	18.66	18.66		
15	QPSK	36	0	18.64	18.79	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	18.74	18.54		
15	16QAM	36	20	18.47	18.77	18.47		0
15	16QAM	36	39	18.45	18.54	18.54		
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	18.64		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		0
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	20	18.45	18.45	18.38		0
15	256QAM	36	39	18.37	18.40	18.47		
15	256QAM	75	0	18.38	18.46	18.36		20
15	256QAM	75	0	18.38	18.46	18.36		
Channel								
2860 2860 3050								
1855 1880 1910								
10	QPSK	1	0	18.61	18.71	18.61		
10	QPSK	1	25	18.72	18.74	18.64		0
10	QPSK	1	49	18.58	18.65	18.61		
10	QPSK	12	0	18.66	18.66	18.58		
10	QPSK	25	12	18.60	18.61	18.58		
10	QPSK	25	25	18.53	18.58	18.56		20
10	QPSK	50	0	18.46	18.56	18.47		
10	16QAM	1	0	18.64	18.61	18.47		
10	16QAM	1	24	18.56	18.56	18.50		0
10	16QAM	1	49	18.56	18.68	18.63		
10	16QAM	25	0	18.48	18.78	18.60		
10	16QAM	25	12	18.44	18.70	18.56		20
10	16QAM	25	25	18.53	18.74	18.66		
10	16QAM	50	0	18.47	18.52	18.52		
10	16QAM	1	0	18.47	18.58	18.54		
10	16QAM	1	24	18.53	18.53	18.49		0
10	16QAM	1	49	18.68	18.60	18.45		
10	16QAM	25	0	18.47	18.64	18.56		
10	16QAM	25	12	18.49	18.62	18.47		20
10	16QAM	25	25	18.46	18.65	18.47		
10	16QAM	50	0	18.53	18.56	18.50		
10	256QAM	1	0	18.36	18.56	18.31		0
10	256QAM	1	24	18.38	18.62	18.38		20
10	256QAM	1	49	18.31	18.37	18.37		
10	256QAM	12	0	18.47	18.53	18.39		
10	256QAM	25	12	18.32	18.35	18.39		20
10	256QAM	25	25	18.18	18.43	18.25		
10	256QAM	50	0	18.38	18.40	18.31		
Channel								
2865 2865 2965								
1852.5 1880 1912.5								
5	QPSK	1	0	18.61	18.71	18.61		
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		0
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		0
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	256QAM	1	0	18.31	18.39	18.39		0
5	256QAM	1	12	18.42	18.67	18.40		20
5	256QAM	1	24	18.34	18.34	18.40		
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	0	18.40	18.54	18.32		
Channel								
2865 2865 2965								
1852.5 1880 1912.5								
3	QPSK	1	0	18.65	18.71	18.73		
3	QPSK	1	8	18.73	18.80	18.67		0
3	QPSK	1	14	18.61	18.66	18.61		
3	QPSK	8	0	18.64	18.76	18.62		
3	QPSK	8	4	18.62	18.65	18.62		20
3	QPSK	8	7	18.45	18.57	18.46		
3	QPSK	15	0	18.52	18.71	18.59		
3	16QAM	1	0	18.66	18.66	18.49		
3	16QAM	1	8	18.52	18.54	18.52		0
3	16QAM	1	14	18.58	18.64	18.63		
3	16QAM	8	0	18.55	18.77	18.56		
3	16QAM	8	4	18.49	18.71	18.50		20
3	16QAM	14	0	18.41	18.65	18.65		
3	16QAM	15	0	18.50	18.56	18.52		
3	16QAM	1	0	18.43	18.51	18.47		0
3	16QAM	1	8	18.50	18.61	18.67		
3	16QAM	1	14	18.62	18.60	18.52		
3	16QAM	8	0	18.59	18.64	18.57		
3	16QAM	8	4	18.56	18.64	18.54		0
3	16QAM	8	7	18.52	18.60	18.51		
3	16QAM	15	0	18.26	18.56	18.52		
3	256QAM	1	8	18.41	18.58	18.42		
3	256QAM	1	14	18.32	18.41	18.34		0
3	256QAM	8	0	18.45	18.57	18.44		
3	256QAM	8	4	18.39	18.38	18.42		20
3	256QAM	8	7	18.25	18.36	18.28		
3	256QAM	15	0	18.37	18.51	18.32		
Channel								
2867 2865 2963								
1852.5 1880 1913								
1.4	QPSK	1	0	18.63	18.71	18.75		
1.4	QPSK	1	3	18.63	18.77	18.72		
1.4	QPSK	1	5	18.59	18.74	18.63		0
1.4	QPSK	3	0	18.67	18.74	18.64		
1.4	QPSK	3	1	18.59	18.59	18.54		
1.4	QPSK	3	3	18.51	18.57	18.54		20
1.4	QPSK	3	5	18.55	18.63	18.63		
1.4	16QAM	1	0	18.59	18.58	18.44		
1.4	16QAM	1	3	18.55	18.66	18.50		0
1.4	16QAM	3	0	18.52	18.60	18.57		
1.4	16QAM	3	1	18.50	18.69	18.56		
1.4	16QAM	3	3	18.47	18.54	18.53		20
1.4	16QAM	3	5	18.46	18.53	18.48		
1.4	16QAM	8	0	18.46	18.53	18.48		
1.4	16QAM	8	3	18.56	18.64	18.56		0
1.4	16QAM	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	1	18.37	18.32	18.44		
1.4	256QAM	3	3	18.22	18.30	18.30		
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								
821.5 831.5 841.5								
15	QPSK	1	0	22.20	22.24	22.17		
15	QPSK	1	37	22.03	22.07	22.04		23
15	QPSK	1	7					



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 130312										
Frequency (MHz) 1720 1748 1770										
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	18.16	18.05				
Channel 130347 130352 130367										
Frequency (MHz) 1777.5 1745 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	21.06	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	21.09	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	19.96	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 130392 130392 130402										
Frequency (MHz) 1715 1745 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	21.09				
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	21.09				
10	16QAM	25	12	20.84	20.88	20.90				
10	16QAM	25	25	20.83	20.93	20.97				
10	16QAM	50	0	20.98	21.13	20.99				
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	26	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 130467 130462 130487										
Frequency (MHz) 1771.5 1745 1771.5										
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	21.06				
5	16QAM	12	7	20.87	20.95	20.87				
5	16QAM	12	13	20.84	20.80	20.90				
5	16QAM	25	0	20.87	21.09	20.90				
5	64QAM	1	0	20.94	21.17	21.02				
5	64QAM	1	12	20.91	21.06	20.99				
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 130487 130492 130497										
Frequency (MHz) 1771.5 1745 1771.5										
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	1	14	20.95	20.90	20.92				
3	64QAM	8	0	19.77	19.97	19.77				
3	64QAM	8	4	19.76	19.81	19.89				
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	17.76	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	17.86	17.64				
3	256QAM	15	0	17.88	18.11	17.90				
Channel 130497 130522 130565										
Frequency (MHz) 1771.5 1745 1771.5										
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	21.06	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	20.86				
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	20.89				
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.					



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	Tune-up limit (dBm)	MPR (dB)		
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	Tune-up limit (dBm)	MPR (dB)		
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	Tune-up limit (dBm)	MPR (dB)		
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									



### 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	19.7	0
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	19.7	0
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	19.7	0
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	19.7	0
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	19.7	0
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	19.7	0
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	Tune-up limit (dBm)	MPR (dB)
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	19.7	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	19.7	0
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	19.7	0
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	19.7	0
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	19.7	0
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	19.7	0
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	19.7	0
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	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	18.17	18.31	18.44	18.28	18.36	19.7	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	19.7	0
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	19.7	0
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	19.7	0
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	19.7	0
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	19.7	0
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	19.7	0
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	Tune-up limit (dBm)	MPR (dB)
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	19.7	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	19.7	0
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	19.7	0
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	19.7	0
5	16QAM	25	0	18.10	17.99	18.19	17.95	18.24		
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	19.7	0
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	19.7	0
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	19.7	0
5	256QAM	12	7	18.06	18.25	18.26	18.20	18.05		
5	256QAM	12	13	18.02	18.05	17.96	17.99	18.20		
5	256QAM	25	0	18.09	18.03	18.25	18.06	18.00		

### Band 48 DSI2\_Simultaneous Ant 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	
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GSM1900 Ant3		DS1Z_Simultaneous			Frame-Average Power (dBm)			Tune-up Limit
GSM1900		Burst Average Power (dBm)			Frame-Average Power (dBm)			Tune-up Limit
TX Channel		512	661	810				(dBm)
Frequency (MHz)		1852.2	1880	1909.8	1852.2	1880	1909.8	(dBm)
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	17.71	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			WCDMA IV Ant3			Tune-up Limit
TX Channel		9262	9400	9538				(dBm)
Rx Channel		8662	8800	8938	1312	1413	1513	(dBm)
Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6	(dBm)
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	17.05	17.15	17.08		
20	QPSK	150	49	17.03	17.15	17.05	18.8	0
20	QPSK	150	99	17.10	17.11	17.03		
20	QPSK	200	0	17.09	17.18	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	16.88	17.21	17.08		
20	QPSK	250	49	16.88	17.21	17.08	18.8	0
20	QPSK	250	99	17.03	17.15	17.08		
20	QPSK	300	0	16.89	17.22	17.08		
20	QPSK	300	49	16.89	17.22	17.08	18.8	0
20	QPSK	300	99	17.03	17.15	17.08		
20	QPSK	350	0	16.89	17.22	17.08		
20	QPSK	350	49	16.89	17.22	17.08	18.8	0
20	QPSK	350	99	17.03	17.15	17.08		
20	QPSK	400	0	16.89	17.22	17.08		
20	QPSK	400	49	16.89	17.22	17.08	18.8	0
20	QPSK	400	99	17.03	17.15	17.08		
20	QPSK	450	0	16.89	17.22	17.08		
20	QPSK	450	49	16.89	17.22	17.08	18.8	0
20	QPSK	450	99	17.03	17.15	17.08		
20	QPSK	500	0	16.89	17.22	17.08		
20	QPSK	500	49	16.89	17.22	17.08	18.8	0
20	QPSK	500	99	17.03	17.15	17.08		
20	QPSK	550	0	16.89	17.22	17.08		
20	QPSK	550	49	16.89	17.22	17.08	18.8	0
20	QPSK	550	99	17.03	17.15	17.08		
20	QPSK	600	0	16.89	17.22	17.08		
20	QPSK	600	49	16.89	17.22	17.08	18.8	0
20	QPSK	600	99	17.03	17.15	17.08		
20	QPSK	650	0	16.89	17.22	17.08		
20	QPSK	650	49	16.89	17.22	17.08	18.8	0
20	QPSK	650	99	17.03	17.15	17.08		
20	QPSK	700	0	16.89	17.22	17.08		
20	QPSK	700	49	16.89	17.22	17.08	18.8	0
20	QPSK	700	99	17.03	17.15	17.08		
20	QPSK	750	0	16.89	17.22	17.08		
20	QPSK	750	49	16.89	17.22	17.08	18.8	0
20	QPSK	750	99	17.03	17.15	17.08		
20	QPSK	800	0	16.89	17.22	17.08		
20	QPSK	800	49	16.89	17.22	17.08	18.8	0
20	QPSK	800	99	17.03	17.15	17.08		
20	QPSK	850	0	16.89	17.22	17.08		
20	QPSK	850	49	16.89	17.22	17.08	18.8	0
20	QPSK	850	99	17.03	17.15	17.08		
20	QPSK	900	0	16.89	17.22	17.08		
20	QPSK	900	49	16.89	17.22	17.08	18.8	0
20	QPSK	900	99	17.03	17.15	17.08		
20	QPSK	950	0	16.89	17.22	17.08		
20	QPSK	950	49	16.89	17.22	17.08	18.8	0
20	QPSK	950	99	17.03	17.15	17.08		
20	QPSK	1000	0	16.89	17.22	17.08		
20	QPSK	1000	49	16.89	17.22	17.08	18.8	0
20	QPSK	1000	99	17.03	17.15	17.08		
20	QPSK	1050	0	16.89	17.22	17.08		
20	QPSK	1050	49	16.89	17.22	17.08	18.8	0
20	QPSK	1050	99	17.03	17.15	17.08		
20	QPSK	1100	0	16.89	17.22	17.08		
20	QPSK	1100	49	16.89	17.22	17.08	18.8	0
20	QPSK	1100	99	17.03	17.15	17.08		
20	QPSK	1150	0	16.89	17.22	17.08		
20	QPSK	1150	49	16.89	17.22	17.08	18.8	0
20	QPSK	1150	99	17.03	17.15	17.08		
20	QPSK	1200	0	16.89	17.22	17.08		
20	QPSK	1200	49	16.89	17.22	17.08	18.8	0
20	QPSK	1200	99	17.03	17.15	17.08		
20	QPSK	1250	0	16.89	17.22	17.08		
20	QPSK	1250	49	16.89	17.22	17.08	18.8	0
20	QPSK	1250	99	17.03	17.15	17.08		
20	QPSK	1300	0	16.89	17.22	17.08		
20	QPSK	1300	49	16.89	17.22	17.08	18.8	0
20	QPSK	1300	99	17.03	17.15	17.08		
20	QPSK	1350	0	16.89	17.22	17.08		
20	QPSK	1350	49	16.89	17.22	17.08	18.8	0
20	QPSK	1350	99	17.03	17.15	17.08		
20	QPSK	1400	0	16.89	17.22	17.08		
20	QPSK	1400	49	16.89	17.22	17.08	18.8	0
20	QPSK	1400	99	17.03	17.15	17.08		
20	QPSK	1450	0	16.89	17.22	17.08		
20	QPSK	1450	49	16.89	17.22	17.08	18.8	0
20	QPSK	1450	99	17.03	17.15	17.08		
20	QPSK	1500	0	16.89	17.22	17.08		
20	QPSK	1500	49	16.89	17.22	17.08	18.8	0
20	QPSK	1500	99	17.03	17.15	17.08		
20	QPSK	1550	0	16.89	17.22	17.08		
20	QPSK	1550	49	16.89	17.22	17.08	18.8	0
20	QPSK	1550	99	17.03	17.15	17.08		
20	QPSK	1600	0	16.89	17.22	17.08		
20	QPSK	1600	49	16.89	17.22	17.08	18.8	0
20	QPSK	1600	99	17.03	17.15	17.08		
20	QPSK	1650	0	16.89	17.22	17.08		
20	QPSK	1650	49	16.89	17.22	17.08	18.8	0
20	QPSK	1650	99	17.03	17.15	17.08		
20	QPSK	1700	0	16.89	17.22	17.08		
20	QPSK	1700	49	16.89	17.22	17.08	18.8	0
20	QPSK	1700	99	17.03	17.15	17.08		
20	QPSK	1750	0	16.89	17.22	17.08		
20	QPSK	1750	49	16.89	17.22	17.08	18.8	0
20	QPSK	1750	99	17.03	17.15	17.08		
20	QPSK	1800	0	16.89	17.22	17.08		
20	QPSK	1800	49	16.89	17.22	17.08	18.8	0
20	QPSK	1800	99	17.03	17.15	17.08		
20	QPSK	1850	0	16.89	17.22	17.08		
20	QPSK	1850	49	16.89	17.22	17.08	18.8	0
20	QPSK	1850	99	17.03	17.15	17.08		
20	QPSK	1900	0	16.89	17.22	17.08		
20	QPSK	1900	49	16.89	17.22	17.08	18.8	0
20	QPSK	1900	99	17.03	17.15	17.08		
20	QPSK	1950	0	16.89	17.22	17.08		
20	QPSK	1950	49	16.89	17.22	17.08	18.8	0
20	QPSK	1950	99	17.03	17.15	17.08		
20	QPSK	2000	0	16.89	17.22	17.08		
20	QPSK	2000	49	16.89	17.22	17.08	18.8	0
20	QPSK	2000	99	17.03	17.15	17.08		
20	QPSK	2050	0	16.89	17.22	17.08		
20	QPSK	2050	49	16.89	17.22	17.08	18.8	0
20	QPSK	2050	99	17.03	17.15	17.08		
20	QPSK	2100	0	16.89	17.22	17.08		
20	QPSK	2100	49	16.89	17.22	17.08	18.8	0
20	QPSK	2100	99	17.03	17.15	17.08		
20	QPSK	2150	0	16.89	17.22	17.08		
20	QPSK	2150	49	16.89	17.22	17.08	18.8	0
20	QPSK	2150	99	17.03	17.15	17.08		
20	QPSK	2200	0	16.89	17.22	17.08		
20	QPSK	2200	49	16.89	17.22	17.08	18.8	0
20	QPSK	2200	99	17.03	17.15	17.08		
20	QPSK	2250	0	16.89	17.22	17.08		
20	QPSK	2250	49	16.89	17.22	17.08	18.8	0
20	QPSK	2250	99	17.03	17.15	17.08		
20	QPSK	2300	0	16.89	17.22	17.08		
20	QPSK	2300	49	16.89	17.22	17.08	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	17.44	17.44	17.44				
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	17.41	17.41	17.41				
10	64QAM	25	25	17.41	17.41	17.41				
10	64QAM	25	50	17.41	17.41	17.41				
10	256QAM	1	0	17.41	17.41	17.41	19.3	0		
10	256QAM	1	25	17.41	17.41	17.41				
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	17.34	17.34	17.34				
Channel										
				2185			2175	2175		
				2197.5			2197.5	2197.5		
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	17.49	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	17.38	17.36	19.3	0		
5	64QAM	1	24	17.33	17.44	17.30				
5	64QAM	12	0	17.33	17.38	17.36	19.3	0		
5	64QAM	12	7	17.31	17.31	17.33				
5	64QAM	12	13	17.31	17.31	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	17.46	17.34	19.3	0		
5	256QAM	12	0	17.31	17.39	17.33				
5	256QAM	12	7	17.41	17.48	17.37	19.3	0		
5	256QAM	12	13	17.33	17.31	17.33				
5	256QAM	25	0	17.32	17.33	17.31	19.3	0		

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	18.62				
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										
				13247			13232	13267		
				13177.5			13175	13172.5		
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	18.46				
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										
				13260			13232	13262		
				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	18.32				
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	18.34	18.51	18.51				
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	1	25	18.28	18.38	18.38				



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	1	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	18.12				
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	18.20				
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	18.06	18.07	18.06				
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	75	0	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	18.21	18.11				
15	HQAM	36	20	18.12	18.17	18.09	20	0		
15	HQAM	75	0	18.02	18.12	18.02				
15	256QAM	1	0	18.22	18.09	18.14				
15	256QAM	1	37	18.22	18.15	18.10	20	0		
15	256QAM	1	74	18.10	18.25	18.15				
15	256QAM	36	0	18.26	18.10	18.21				
15	256QAM	36	20	18.18	18.21	18.10	20	0		
15	256QAM	75	0	18.11	18.20	18.12				
15	256QAM	75	0	18.11	18.20	18.10				
Channel										
				37860	38000	38175				
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	18.19	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	50	0	18.16	18.21	18.07				
10	HQAM	1	0	18.05	18.17	18.07				
10	HQAM	1	49	18.07	18.15	18.06	20	0		
10	HQAM	25	0	18.10	18.25	18.00				
10	HQAM	25	12	18.12	18.17	18.08				
10	HQAM	25	25	18.06	18.20	18.06				
10	HQAM	50	0	18.05	18.13	18.06				
10	256QAM	1	0	18.25	18.10	18.10				
10	256QAM	1	49	18.10	18.20	18.10	20	0		
10	256QAM	25	0	18.32	18.10	18.22				
10	256QAM	25	12	18.20	18.11	18.10				
10	256QAM	25	25	18.15	18.25	18.14	20	0		
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	25	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	18.06				
5	HQAM	12	7	18.10	18.21	18.05	20	0		
5	HQAM	12	13	18.03	18.24	18.06				
5	HQAM	25	0	18.09	18.17	18.06				
5	256QAM	1	0	18.21	18.07	18.13				
5	256QAM	1	12	18.21	18.12	18.20	20	0		
5	256QAM	1	24	18.13	18.25	18.00				
5	256QAM	12	0	18.27	18.10	18.20				
5	256QAM	12	7	18.22	18.10	18.15	20	0		
5	256QAM	12	13	18.16	18.20	18.10				
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	41065	41460		
Frequency (MHz)										
20	QPSK	1	0	18.20	18.21	18.21	20	0		
20	QPSK	1	49	18.81	18.84	18.83	18.81	18.81	20	0
20	QPSK	1	99	18.55	18.55	18.54	18.52	18.46		
20	QPSK	50	0	18.55	18.49	18.50	18.51	18.51		
20	QPSK	50	24	18.53	18.47	18.47	18.49	18.55	20	0
20	QPSK	100	0	18.47	18.40	18.55	18.43	18.43		
20	QPSK	100	0	18.50	18.40	18.50	18.44	18.53		
20	HQAM	1	0	18.45	18.48	18.55	18.53	18.59	20	0
20	HQAM	1	49	18.31	18.50	18.52	18.52	18.46		
20	HQAM	1	99	18.51	18.38	18.54	18.44	18.49		
20	HQAM	50	0	18.40	18.33	18.58	18.46	18.46		
20	HQAM	50	24	18.46	18.53	18.51	18.51	18.46	20	0
20	HQAM	100	0	18.37	18.49	18.48	18.47	18.50		
20	HQAM	100	0	18.47	18.40	18.46	18.41	18.41		
20	HQAM	1	49	18.44	18.38	18.44				



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)	MRR (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	20.01	20.01	20.01	19.96		
20	QPSK	50	0	19.99	19.97	19.97	19.94	19.97		
20	QPSK	50	24	19.83	19.88	19.85	19.99	20.03		
20	QPSK	50	49	19.70	19.89	19.89	19.84	19.84		
20	QPSK	100	0	19.89	19.88	19.85	19.81	19.88		
20	HQAM	1	0	19.99	19.97	19.94	19.93	20.00		
20	HQAM	1	49	19.77	19.91	19.92	19.92	19.80		
20	HQAM	1	99	19.81	19.91	19.92	19.85	19.95		
20	HQAM	50	0	19.81	19.82	19.82	19.82	19.95		
20	HQAM	50	24	19.91	19.90	19.90	19.92	19.93		
20	HQAM	50	49	19.88	19.95	19.92	19.89	19.86		
20	HQAM	100	0	19.84	19.87	19.86	19.79	19.92		
20	HQAM	100	0	19.85	19.85	19.85	19.90	19.82		
20	HQAM	100	49	19.92	19.83	19.87	19.85	19.98		
20	HQAM	100	99	19.77	19.86	19.87	19.84	19.77		
20	HQAM	50	0	19.85	19.89	19.81	19.81	20.06		
20	HQAM	50	24	19.87	19.88	19.85	19.89	19.91		
20	HQAM	50	49	19.88	19.92	20.07	19.72	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	19.87	19.79	19.81		
20	256QAM	50	24	19.91	19.92	19.93	19.90	19.95		
20	256QAM	50	49	19.73	19.98	19.87	19.82	19.88		
20	256QAM	100	0	19.82	19.86	19.86	19.86	19.72		
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	19.81	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	19.85		
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	19.82		
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	19.82	19.72	19.87		
15	HQAM	38	20	19.81	19.80	19.89	19.85	19.87		
15	HQAM	38	39	19.85	19.86	19.86	19.84	19.84		
15	HQAM	75	0	19.63	19.73	19.87	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	19.88	19.88	19.80	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	19.89	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	19.83		
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	19.85	19.85	19.86		
10	QPSK	1	49	19.87	20.03	19.85	19.89	19.87		
10	QPSK	1	74	19.81	19.89	19.85	19.85	19.86		
10	QPSK	25	12	19.80	19.83	19.88	19.85	20.00		
10	QPSK	25	25	19.77	19.82	19.81	19.76	19.85		
10	QPSK	50	0	19.81	19.85	19.82	19.74	19.84		
10	HQAM	1	0	19.84	19.85	19.85	19.85	19.80		
10	HQAM	1	25	19.89	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	19.81	19.80	19.80		
10	HQAM	25	25	19.78	19.82	19.83	19.79	19.79		
10	HQAM	50	0	19.81	19.75	19.80	19.72	19.68		
10	HQAM	50	0	19.80	19.84	19.88	19.79	19.79		
10	HQAM	50	25	19.87	19.79	19.80	19.79	19.82		
10	HQAM	1	49	19.87	19.83	19.83	19.78	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	19.82	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	19.86	19.96	19.90	19.88	19.84		
10	256QAM	1	25	19.78	19.82	19.84	19.88	19.88		
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	19.81	19.81	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	19.85	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	19.72	19.82		
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	19.81	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	19.81	19.80	19.88	19.89		
5	256QAM	1	12	19.75	19.79	19.81	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	19.89	19.85	19.80		
5	256QAM	12	7	19.88	19.89	19.84	19.88	19.83		
5	256QAM	12	13	19.85	19.86	19.81	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)	MRR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	16.82	16.82	16.82	16.82	16.82	18	



Reduced Power Mode for DSI3-Standalone

DCDC3 Vref										
Item	DCDC3 Vref	Burst Average Power (dBm)			Frame Average Power (dBm)			DCDC3 Vref		
		Limit	180	201	Limit	180	201	Limit		
TV Channel	198	180	180	201	198	180	201	198		
Frequency (MHz)	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2		
OPRR-1 Tx side	32.90	32.97	32.94	33.00	33.00	33.07	33.04	33.00		
OPRR-2 Tx side	32.85	32.90	32.91	32.90	32.93	32.94	32.95	32.90		
OPRR-3 Tx side	29.30	29.41	29.28	30.50	23.30	23.41	23.28	24.50		
OPRR-2 Rx side	28.91	28.95	28.86	30.00	24.85	24.72	24.80	26.74		
OPRR-4 Tx side	25.41	25.41	25.40	27.50	23.41	23.41	23.40	24.50		
EDGE-1 Tx side	25.40	25.40	25.37	26.50	19.42	19.46	19.37	17.50		
EDGE-2 Tx side	23.77	23.80	23.79	26.00	17.77	17.80	17.79	19.00		
EDGE-3 Tx side	22.86	22.89	22.82	23.00	18.40	18.43	18.36	19.24		
EDGE-4 Tx side	20.90	20.90	20.90	21.00	17.90	17.93	17.80	18.00		

  

DCDC3 Vref										
Item	DCDC3 Vref	Burst Average Power (dBm)			Frame Average Power (dBm)			DCDC3 Vref		
		Limit	180 <th>201 <th>Limit</th> <th>180 <th>201 <th>Limit</th> <th></th> <th></th> </th></th></th>	201 <th>Limit</th> <th>180 <th>201 <th>Limit</th> <th></th> <th></th> </th></th>	Limit	180 <th>201 <th>Limit</th> <th></th> <th></th> </th>	201 <th>Limit</th> <th></th> <th></th>	Limit		
TV Channel	51.2	180	180	201	51.2	180	201	51.2		
Frequency (MHz)	27.41	27.41	27.41	27.41	27.41	27.41	27.41	27.41		
OPRR-1 Tx side	27.34	27.61	27.58	28.50	18.34	18.63	18.58	19.50		
OPRR-2 Tx side	24.94	24.94	24.93	26.00	18.94	18.94	18.93	20.00		
OPRR-3 Tx side	23.53	23.50	23.53	24.50	19.07	19.11	19.07	20.04		
OPRR-4 Tx side	20.70	20.70	20.68	21.50	17.70	17.75	17.68	18.50		
EDGE-1 Tx side	22.39	22.67	22.73	23.50	19.79	19.87	19.73	14.50		
EDGE-2 Tx side	21.00	21.10	21.11	22.00	18.00	18.10	18.11	18.00		
EDGE-3 Tx side	20.07	20.12	20.04	21.00	15.91	15.98	15.76	16.74		
EDGE-4 Tx side	17.86	18.00	18.04	19.00	14.96	15.09	15.04	16.00		

  

Default WCDMA V Ref													
Item	WCDMA V Ref	Burst Average Power (dBm)			Frame Average Power (dBm)			WCDMA V Ref			WCDMA V Ref		
		Limit	180 <th>201 <th>Limit</th> <th>180 <th>201 <th>Limit</th> <th></th> <th></th> <th></th> <th></th> </th></th></th>	201 <th>Limit</th> <th>180 <th>201 <th>Limit</th> <th></th> <th></th> <th></th> <th></th> </th></th>	Limit	180 <th>201 <th>Limit</th> <th></th> <th></th> <th></th> <th></th> </th>	201 <th>Limit</th> <th></th> <th></th> <th></th> <th></th>	Limit					
TV Channel	930.2	960.0	930.8	930.8	1332	1413	1513	1332	4152	4182	4233	4152	
Frequency (MHz)	960.2	960.0	960.8	960.8	1332	1413	1513	1332	4152	4407	4468	4152	
OPRR-1 Tx side	1802.4	1800	1807.6	1807.6	1718.4	1721.6	1729.6	1718.4	836.4	836.4	846.6	836.4	
OPRR-2 Tx side	20.82	20.60	20.67	22.00	20.45	20.51	20.41	22.00	22.45	22.52	22.48	24.00	
OPRR-3 Tx side	19.72	19.75	19.70	21.00	19.59	19.66	19.50	21.00	21.55	21.60	21.48	23.00	
OPRR-4 Tx side	19.68	19.71	19.65	21.00	19.50	19.58	19.52	21.00	21.66	21.60	21.54	23.00	
OPRR-1 Rx side	19.39	19.20	19.21	20.50	19.00	19.11	19.08	20.50	21.61	21.14	21.04	22.60	
OPRR-2 Rx side	19.15	19.30	19.21	20.50	18.90	19.18	19.03	20.50	20.98	21.04	21.06	22.50	
OPRR-3 Rx side	19.70	19.85	19.84	21.00	19.54	19.68	19.48	21.00	21.55	21.72	21.42	23.00	
OPRR-4 Rx side	19.50	19.50	19.41	21.00	19.38	19.40	19.32	21.00	21.54	21.62	21.52	23.00	
OPRR-1 Rx side	19.08	19.12	19.05	20.50	18.92	19.03	18.89	20.50	20.95	20.93	20.92	22.00	
OPRR-2 Rx side	19.02	19.15	19.12	20.50	18.90	19.00	19.01	20.50	20.89	21.00	21.03	22.50	
OPRR-3 Rx side	19.46	19.71	19.70	21.00	19.55	19.63	19.61	21.00	21.63	21.68	21.67	23.00	
OPRR-4 Rx side	17.71	17.70	17.64	19.00	17.54	17.60	17.61	19.00	19.87	19.83	19.86	21.00	
OPRR-1 Rx side	18.66	18.71	18.70	20.00	18.52	18.58	18.56	20.00	20.50	20.50	20.51	22.00	
OPRR-2 Rx side	17.81	17.80	17.87	19.00	17.44	17.51	17.48	19.00	19.40	19.32	19.40	21.00	
OPRR-3 Rx side	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. 1 Freq.	Ch. 2 Freq.	Ch. 3 Freq.	Ch. 1 Freq.	Ch. 2 Freq.	Ch. 3 Freq.	Turn-up (dB)	MPR (dB)		
20	QPSK	1	0	23.11	23.12	23.07				
20	QPSK	1	0	23.03	23.04	23.03				
20	QPSK	1	99	23.09	23.07	23.07			24	0
20	QPSK	50	0	23.08	23.13	23.05				
20	QPSK	50	24	23.04	23.04	23.03				
20	QPSK	50	99	23.02	23.04	23.06			24	0
20	QPSK	100	0	23.09	23.02	23.01				
20	QPSK	100	24	23.05	23.02	23.08				
20	QPSK	100	99	23.05	23.08	23.00			24	0
20	16QAM	1	0	22.72	22.82	22.80				
20	16QAM	1	99	22.70	22.85	22.80				
20	16QAM	50	0	22.82	22.82	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	22.82	22.42	22.47				
20	16QAM	100	24	22.72	22.82	22.72				
20	16QAM	100	99	22.68	22.76	22.67			23.5	0.5
20	16QAM	200	0	21.84	21.71	21.61				
20	16QAM	200	24	21.46	21.36	21.50				
20	16QAM	200	99	21.42	21.48	21.33			22.5	1.5
20	16QAM	400	0	21.43	21.32	21.38				
20	16QAM	400	24	19.82	19.88	19.80				
20	16QAM	400	99	19.82	19.88	19.80			20.5	3.5
20	256QAM	1	0	19.82	19.82	19.87				
20	256QAM	1	99	19.82	19.82	19.87				
20	256QAM	50	0	19.82	19.82	19.87				
20	256QAM	50	24	19.80	19.73	19.63				
20	256QAM	50	99	19.70	19.81	19.78			20.5	3.5
20	256QAM	100	0	19.82	19.77	19.67				
20	256QAM	100	99	19.82	19.77	19.67				
Channel	1897.5	1898.0	1902.5	Turn-up (dB)	MPR (dB)					
15	QPSK	1	0	23.03	23.10	22.99				
15	QPSK	1	99	22.79	22.92	22.82			24	0
15	QPSK	1	74	22.91	22.96	22.83				
15	QPSK	36	0	22.87	22.90	22.90				
15	QPSK	36	24	22.81	22.87	22.87				
15	QPSK	36	99	22.87	22.82	22.82			24	0
15	QPSK	75	0	22.91	22.90	22.90				
15	16QAM	1	0	22.90	22.79	22.79				
15	16QAM	1	37	22.77	22.88	22.83			24	0
15	16QAM	1	74	22.80	22.85	22.85				
15	16QAM	36	0	22.90	22.95	22.46				
15	16QAM	36	24	22.21	22.37	22.28			23.5	0.5
15	16QAM	36	99	22.21	22.37	22.28				
15	16QAM	75	0	22.91	22.48	22.42				
15	16QAM	75	24	22.42	22.42	22.34			23.5	0.5
15	16QAM	75	99	22.42	22.42	22.34				
15	16QAM	36	0	21.86	21.91	21.66				
15	16QAM	36	24	21.76	21.78	21.63			22.5	1
15	16QAM	36	99	21.84	21.84	21.63				
15	16QAM	75	0	21.68	21.84	21.63				
15	16QAM	75	24	19.74	19.88	19.65			20.5	3
15	16QAM	75	99	19.74	19.88	19.65				
15	256QAM	1	0	19.74	19.88	19.65				
15	256QAM	1	99	19.77	19.78	19.72				
15	256QAM	50	0	19.74	19.78	19.72				
15	256QAM	50	24	19.78	19.80	19.73			20.5	3
15	256QAM	50	99	19.72	19.74	19.74				
15	256QAM	100	0	19.82	19.82	19.82				
Channel	2000.5	2017.5	2035.5	Turn-up (dB)	MPR (dB)					
15	QPSK	1	0	22.83	22.88	22.80				
15	QPSK	1	99	22.83	22.87	22.80			23.5	0
15	QPSK	1	74	22.82	22.87	22.80				
15	QPSK	36	0	22.87	22.88	22.80				
15	QPSK	36	24	22.44	22.48	22.48				
15	QPSK	36	99	22.51	22.54	22.50			23.5	0
15	QPSK	75	0	22.48	22.48	22.48				
15	16QAM	1	0	22.96	22.84	22.41				
15	16QAM	1	37	22.42	22.42	22.43			23.5	0
15	16QAM	1	74	22.42	22.42	22.43				
15	16QAM	36	0	22.53	22.55	22.56				
15	16QAM	36	24	22.38	22.51	22.48				
15	16QAM	36	99	22.38	22.51	22.48				
15	16QAM	75	0	22.41	22.45	22.45				
15	16QAM	75	24	22.38	22.47	22.46			23.5	0
15	16QAM	75	99	22.38	22.47	22.46				
15	16QAM	36	0	21.74	21.78	21.63				
15	16QAM	36	24	21.74	21.78	21.63			22.5	1
15	16QAM	36	99	21.84	21.84	21.63				
15	16QAM	75	0	21.68	21.84	21.63				
15	16QAM	75	24	19.74	19.88	19.65			20.5	3
15	16QAM	75	99	19.74	19.88	19.65				
15	256QAM	1	0	19.74	19.88	19.65				
15	256QAM	1	99	19.77	19.78	19.72				
15	256QAM	50	0	19.74	19.78	19.72				
15	256QAM	50	24	19.78	19.80	19.73			20.5	3
15	256QAM	50	99	19.72	19.74	19.74				
15	256QAM	100	0	19.82	19.82	19.82				
Channel	2000.5	2017.5	2035.5	Turn-up (dB)	MPR (dB)					
15	QPSK	1	0	22.83	22.88	22.80				
15	QPSK	1	99	22.83	22.87	22.80			23.5	0
15	QPSK	1	74	22.82	22.87	22.80				
15	QPSK	36	0	22.87	22.88	22.80				
15	QPSK	36	24	22.44	22.48	22.48				
15	QPSK	36	99	22.51	22.54	22.50			23.5	0
15	QPSK	75	0	22.48	22.48	22.48				
15	16QAM	1	0	22.96	22.84	22.41				
15	16QAM	1	37	22.42	22.42	22.43			23.5	0
15	16QAM	1	74	22.42	22.42	22.43				
15	16QAM	36	0	22.53	22.55	22.56				
15	16QAM	36	24	22.38	22.51	22.48				
15	16QAM	36	99	22.38	22.51	22.48				
15	16QAM	75	0	22.41	22.45	22.45				
15	16QAM	75	24	22.38	22.47	22.46			23.5	0
15	16QAM	75	99	22.38	22.47	22.46				
15	16QAM	36	0	21.74	21.78	21.63				
15	16QAM	36	24	21.74	21.78	21.63			22.5	1
15	16QAM	36	99	21.84	21.84	21.63				
15	16QAM	75	0	21.68	21.84	21.63				
15	16QAM	75	24	19.74	19.88	19.65			20.5	3
15	16QAM	75	99	19.74	19.88	19.65				
15	256QAM	1	0	19.74	19.88	19.65				
15	256QAM	1	99	19.77	19.78	19.72				
15	256QAM	50	0	19.74	19.78	19.72				
15	256QAM	50	24	19.78	19.80	19.73			20.5	3
15	256QAM	50	99	19.72	19.74	19.74				
15	256QAM	100	0	19.82	19.82	19.82				
Channel	2000.5	2017.5	2035.5	Turn-up (dB)	MPR (dB)					
15	QPSK	1	0	22.83	22.88	22.80				
15	QPSK	1	99	22.83	22.87	22.80			23.5	0
15	QPSK	1	74	22.82	22.87	22.80				
15	QPSK	36	0	22.87	22.88	22.80				
15	QPSK	36	24	22.44	22.48	22.48				
15	QPSK	36	99	22.51	22.54	22.50			23.5	0
15	QPSK	75	0	22.48	22.48	22.48				
15	16QAM	1	0	22.96	22.84	22.41				
15	16QAM	1	37	22.42	22.42	22.43				





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			23.5	0.5
20	64QAM	1	49	22.79	22.95	22.87				
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	20	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	20	22.68	22.69	22.62				
15	16QAM	36	39	22.62	22.68	22.67				
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	20	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	22.86	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	22.91	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	49	19.68	19.75	19.72				
10	256QAM	1	99	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	23.03	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	22.94	22.89				
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	22.60	22.60	22.60				
5	16QAM	25	0	22.55	22.62	22.51			23.5	0.5
5	64QAM	1	0	22.78	22.86	22.88				
5	64QAM	1	12	22.71	22.50	22.81				
5	64QAM	1	24	22.65	22.69	22.76			22.5	1.5
5	64QAM	12	0	21.78	21.84	21.70				
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	21.54	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	23.13	23.13				
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				
3	QPSK	8	4	22.80	22.97	22.91			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	22.93	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

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	22.71	22.72	22.83		
20	QPSK	1	49	22.81	22.72	22.83	23.5	0
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	23.5	0
20	QPSK	100	0	22.98	22.65	22.81		
20	16QAM	1	49	22.92	22.62	22.86	23.5	0
20	16QAM	1	99	22.93	22.59	22.95		
20	16QAM	50	24	22.93	22.58	22.81		
20	16QAM	50	50	22.97	22.62	22.99	23.5	0
20	16QAM	100	0	22.92	22.60	22.93		
20	64QAM	1	0	22.43	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	22.5	1
20	64QAM	50	50	21.83	21.92	21.81		
20	64QAM	100	0	21.57	21.62	21.58		
20	256QAM	1	49	18.99	18.92	18.84	20.5	3
20	256QAM	1	99	18.81	18.84	18.83		
20	256QAM	50	24	18.78	18.86	18.88		
20	256QAM	50	50	18.78	18.80	18.74	20.5	3
20	256QAM	100	0	18.71	18.73	18.73		
Channel								
Frequency (MHz)								
15	QPSK	1	0	22.58	22.69	22.92		
15	QPSK	1	37	22.64	22.69	22.87	23.5	0
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	23.5	0
15	QPSK	36	39	22.59	22.58	22.47		
15	QPSK	75	0	22.61	22.60	22.64		
15	16QAM	1	4	22.66	22.48	22.42		
15	16QAM	1	37	22.45	22.51	22.49	23.5	0
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	23.5	0
15	16QAM	36	39	22.49	22.42	22.42		
15	16QAM	75	0	22.45	22.48	22.47		
15	64QAM	1	0	22.32	22.52	22.47		
15	64QAM	1	37	22.38	22.45	22.47	23.5	0
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	22.5	1
15	64QAM	36	39	21.90	21.92	21.92		
15	64QAM	75	0	21.48	21.90	21.91		
15	256QAM	1	4	18.78	18.86	18.86		
15	256QAM	1	37	18.92	18.80	18.79	20.5	3
15	256QAM	1	74	18.75	18.79	18.77		
15	256QAM	36	0	18.80	18.86	18.86		
15	256QAM	36	20	18.73	18.73	18.80	20.5	3
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	22.62	22.66	22.82		
10	QPSK	1	25	22.57	22.65	22.99	23.5	0
10	QPSK	1	49	22.80	22.64	22.95		
10	QPSK	25	0	22.61	22.66	22.98		
10	QPSK	25	12	22.37	22.49	22.43	23.5	0
10	QPSK	25	25	22.45	22.53	22.44		
10	QPSK	50	0	22.65	22.61	22.68		
10	16QAM	1	0	22.90	22.96	22.99		
10	16QAM	1	25	22.42	22.96	22.90	23.5	0
10	16QAM	1	49	22.47	22.95	22.94		
10	16QAM	25	0	22.42	22.92	22.95		
10	16QAM	25	12	22.38	22.92	22.49	23.5	0
10	16QAM	25	25	22.47	22.95	22.92		
10	16QAM	50	0	22.42	22.92	22.98		
10	64QAM	1	0	22.34	22.92	22.41		
10	64QAM	1	25	22.36	22.42	22.44	23.5	0
10	64QAM	1	49	22.32	22.94	22.99		
10	64QAM	25	0	21.96	21.75	21.61		
10	64QAM	25	12	21.90	21.68	21.68	22.5	1
10	64QAM	25	25	21.54	21.87	21.87		
10	64QAM	50	0	21.42	21.92	21.44		
10	256QAM	1	4	18.78	18.86	18.81		
10	256QAM	1	25	18.79	18.82	18.80	20.5	3
10	256QAM	1	49	18.73	18.70	18.77		
10	256QAM	25	0	18.71	18.87	18.74		
10	256QAM	25	12	18.75	18.81	18.83	20.5	3
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		
5	QPSK	1	12	22.50	22.65	22.95	23.5	0
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	23.5	0
5	QPSK	12	13	22.50	22.55	22.93		
5	QPSK	25	0	22.61	22.66	22.47		
5	16QAM	1	0	22.90	22.96	22.42		
5	16QAM	1	12	22.46	22.93	22.49	23.5	0
5	16QAM	1	24	22.53	22.45	22.92		
5	16QAM	12	0	22.41	22.92	22.48		
5	16QAM	12	7	22.39	22.96	22.90	23.5	0
5	16QAM	12	13	22.47	22.92	22.92		
5	16QAM	25	0	22.40	22.99	22.99		
5	64QAM	1	0	22.30	22.46	22.44		
5	64QAM	1	12	22.39	22.45	22.43	23.5	0
5	64QAM	1	24	22.44	22.60	22.47		
5	64QAM	12	0	21.83	21.80	21.61		
5	64QAM	12	7	21.91	21.69	21.70	22.5	1
5	64QAM	12	13	21.58	21.67	21.96		
5	64QAM	25	0	21.91	21.93	21.90		
5	256QAM	1	0	18.78	18.89	18.88		
5	256QAM	1	12	18.77	18.84	18.80	20.5	3
5	256QAM	1	24	18.71	18.76	18.76		
5	256QAM	12	0	18.72	18.85	18.71		
5	256QAM	12	7	18.71	18.72	18.68	20.5	3
5	256QAM	12	13	18.80	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		
3	QPSK	1	8	22.54	22.67	22.86	23.5	0
3	QPSK	1	14	22.82	22.55	22.47		
3	QPSK	8	0	22.44	22.63	22.61		
3	QPSK	8	4	22.37	22.52	22.46	23.5	0
3	QPSK	8	7	22.46	22.40	22.48		
3	QPSK	15	0	22.46	22.53	22.93		
3	16QAM	1	0	22.95	22.46	22.98		
3	16QAM	1	8	22.43	22.95	22.45	23.5	0
3	16QAM	1	14	22.51	22.97	22.46		
3	16QAM	8	0	22.43	22.91	22.60		
3	16QAM	8	4	22.37	22.95	22.92	23.5	0
3	16QAM	8	7	22.45	22.92	22.90		
3	64QAM	1	0	22.40	22.42	22.48		
3	64QAM	1	8	22.37	22.52	22.45	23.5	0
3	64QAM	8	0	21.92	21.86	21.69		
3	64QAM	8	4	21.92	21.88	21.70	22.5	1
3	64QAM	8	7	21.91	21.60	21.49		
3	64QAM	15	0	21.45	21.90	21.46		
3	256QAM	1	0	18.75	18.99	18.84		
3	256QAM	1	8	18.82	18.86	18.79	20.5	3
3	256QAM	1	14	18.74	18.81	18.76		
3	256QAM	8	0	18.99	18.92	18.73		
3	256QAM	8	4	18.75	18.75	18.88	20.5	3
3	256QAM	8	7	18.80	18.72	18.66		
3	256QAM	15	0	18.98	18.92	18.82		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	22.97	22.95	22.96		
1.4	QPSK	1	3	22.49	22.92	22.99	23.5	0
1.4	QPSK	1	5	22.61	22.96	22.46		
1.4	QPSK	3	0	22.91	22.94	22.94		
1.4	QPSK	3	1	22.43	22.41	22.46	23.5	0
1.4	QPSK	3	3	22.51	22.95	22.94		
1.4	16QAM	1	0	22.46	22.92	22.93		
1.4	16QAM	1	3	22.59	22.92	22.93	23.5	0
1.4	16QAM	1	5	22.47	22.94	22.49		
1.4	16QAM	3	0	22.44	22.93	22.48		
1.4	16QAM	3	1	22.34	22.92	22.96	23.5	0
1.4	16QAM	3	1	22.46	22.97	22.93		
1.4	16QAM	6	0	22.43	22.47	22.43		
1.4	64QAM	1	0	22.36	22.92	22.96		
1.4	64QAM	1	3	22.45	22.47	22.46	23.5	0
1.4	64QAM	1	5	22.42	22.96	22.98		
1.4	64QAM	3	0	22.36	22.96	22.96		
1.4	64QAM	3	1	22.90	22.98	22.48	22.5	1
1.4	64QAM	3	1	22.45	22.96	22.44		
1.4	64QAM	6	0	21.86	21.76	21.87	20.5	3
1.4	256QAM	1	0	18.73	18.99	18.89		
1.4	256QAM	1	3	18.78	18.86	18.78	20.5	3
1.4	256QAM	1	5	18.76	18.85	18.88		
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	18.86	18.86	18.81	20.5	3
1.4	256QAM	6	0	18.64	18.68	18.60		

### Band 71 Default Ant 0

BW (MHz)
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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	20.56	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	20.35	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	21.5	0.5		
20	HQAM	50	24	19.83	19.90	19.89	21.5	0.5		
20	HQAM	50	49	19.82	19.89	19.83	21.5	0.5		
20	HQAM	100	0	19.85	19.88	19.79	21.5	0.5		
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	19.87	21.5	0.5		
15	HQAM	36	20	19.73	19.88	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	20.42	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	19.85	19.86	21.5	0.5		
10	HQAM	25	25	19.81	19.86	19.87	21.5	0.5		
10	HQAM	50	0	19.89	20.04	19.84	21.5	0.5		
10	HQAM	50	0	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	1.5		
10	HQAM	25	25	19.74	19.71	19.75	21.5	1.5		
10	HQAM	50	0	19.80	19.83	19.72	21.5	1.5		
10	25QAM	1	0	17.81	17.80	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	20.38	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	20.31	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	21.5	1.5		
5	HQAM	12	7	19.76	19.76	19.76	21.5	1.5		
5	HQAM	12	13	19.72	19.78	19.71	21.5	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	17.81	17.70	18.5	3.5		
5	25QAM	12	13	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	21.82	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	21.36	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	20.04	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	18.14	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	18.18	19.5	3.5		
Channel										
Frequency (MHz)										
15	QPSK	1	0	21.84	21.93	22.04	23	0		
15	QPSK	1	37	21.70	21.87	21.88	23	0		
15	QPSK	1	74	21.74	21.70	21.82	23	0		
15	QPSK	36	0	21.87	21.79	22.06	23	0		
15	QPSK									



Band 41 PC2 FCC&Int 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	Tune-up Int (dBm)	MPR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	23.54	23.64	23.64	23.74	23.74	23.84	24.6	0
20	QPSK	1	49	23.42	23.52	23.52	23.62	23.62	23.72	24.6	0
20	QPSK	50	0	23.40	23.50	23.50	23.60	23.60	23.70	24.6	0
20	QPSK	50	24	23.29	23.39	23.39	23.49	23.49	23.59	24.6	0
20	QPSK	100	0	23.28	23.38	23.38	23.48	23.48	23.58	24.6	0
20	QPSK	100	49	23.16	23.26	23.26	23.36	23.36	23.46	24.6	0
20	HQAM	1	0	23.51	23.61	23.61	23.71	23.71	23.81	24.6	0
20	HQAM	1	49	23.39	23.49	23.49	23.59	23.59	23.69	24.6	0
20	HQAM	1	99	23.33	23.43	23.43	23.53	23.53	23.63	24.6	0
20	HQAM	50	0	23.28	23.38	23.38	23.48	23.48	23.58	24.6	0
20	HQAM	50	24	23.17	23.27	23.27	23.37	23.37	23.47	24.6	0
20	HQAM	100	0	23.16	23.26	23.26	23.36	23.36	23.46	24.6	0
20	HQAM	100	49	23.04	23.14	23.14	23.24	23.24	23.34	24.6	0
20	HQAM	100	99	23.08	23.18	23.18	23.28	23.28	23.38	24.6	0
20	HQAM	500	0	23.16	23.26	23.26	23.36	23.36	23.46	24.6	0
20	HQAM	500	24	23.15	23.25	23.25	23.35	23.35	23.45	24.6	0
20	HQAM	500	49	23.13	23.23	23.23	23.33	23.33	23.43	24.6	0
20	HQAM	500	99	23.14	23.24	23.24	23.34	23.34	23.44	24.6	0
20	HQAM	1000	0	23.16	23.26	23.26	23.36	23.36	23.46	24.6	0
20	HQAM	1000	24	23.15	23.25	23.25	23.35	23.35	23.45	24.6	0
20	HQAM	1000	49	23.13	23.23	23.23	23.33	23.33	23.43	24.6	0
20	HQAM	1000	99	23.14	23.24	23.24	23.34	23.34	23.44	24.6	0
20	SSBQAM	1	0	21.51	21.61	21.61	21.71	21.71	21.81	22	2.6
20	SSBQAM	1	49	21.39	21.49	21.49	21.59	21.59	21.69	22	2.6
20	SSBQAM	1	99	21.24	21.34	21.34	21.44	21.44	21.54	22	2.6
20	SSBQAM	50	0	21.22	21.32	21.32	21.42	21.42	21.52	22	2.6
20	SSBQAM	50	24	21.22	21.32	21.32	21.42	21.42	21.52	22	2.6
20	SSBQAM	50	49	21.14	21.24	21.24	21.34	21.34	21.44	22	2.6
20	SSBQAM	1000	0	21.30	21.40	21.40	21.50	21.50	21.60	22	2.6
Channel											
Frequency (MHz)											
15	QPSK	1	0	23.54	23.64	23.64	23.74	23.74	23.84	24.6	0
15	QPSK	1	37	23.29	23.39	23.39	23.49	23.49	23.59	24.6	0
15	QPSK	1	74	23.14	23.24	23.24	23.34	23.34	23.44	24.6	0
15	QPSK	38	0	23.26	23.36	23.36	23.46	23.46	23.56	24.6	0
15	QPSK	38	20	23.22	23.32	23.32	23.42	23.42	23.52	24.6	0
15	QPSK	75	0	23.20	23.30	23.30	23.40	23.40	23.50	24.6	0
15	HQAM	1	0	23.48	23.58	23.58	23.68	23.68	23.78	24.6	0
15	HQAM	1	37	23.24	23.34	23.34	23.44	23.44	23.54	24.6	0
15	HQAM	1	74	23.09	23.19	23.19	23.29	23.29	23.39	24.6	0
15	HQAM	38	0	23.24	23.34	23.34	23.44	23.44	23.54	24.6	0
15	HQAM	38	20	23.23	23.33	23.33	23.43	23.43	23.53	24.6	0
15	HQAM	75	0	23.21	23.31	23.31	23.41	23.41	23.51	24.6	0
15	HQAM	75	0	23.16	23.26	23.26	23.36	23.36	23.46	24.6	0
15	HQAM	75	37	22.96	23.06	23.06	23.16	23.16	23.26	24.6	0
15	HQAM	75	74	22.81	22.91	22.91	23.01	23.01	23.11	24.6	0
15	HQAM	75	0	23.16	23.26	23.26	23.36	23.36	23.46	24.6	0
15	HQAM	38	0	23.24	23.34	23.34	23.44	23.44	23.54	24.6	0
15	HQAM	38	20	23.23	23.33	23.33	23.43	23.43	23.53	24.6	0
15	HQAM	75	0	23.21	23.31	23.31	23.41	23.41	23.51	24.6	0
15	HQAM	75	37	22.96	23.06	23.06	23.16	23.16	23.26	24.6	0
15	HQAM	75	74	22.81	22.91	22.91	23.01	23.01	23.11	24.6	0
15	SSBQAM	1	0	21.43	21.53	21.53	21.63	21.63	21.73	22	2.6
15	SSBQAM	1	37	21.18	21.28	21.28	21.38	21.38	21.48	22	2.6
15	SSBQAM	1	74	21.03	21.13	21.13	21.23	21.23	21.33	22	2.6
15	SSBQAM	38	0	21.24	21.34	21.34	21.44	21.44	21.54	22	2.6
15	SSBQAM	38	20	21.23	21.33	21.33	21.43	21.43	21.53	22	2.6
15	SSBQAM	75	0	21.10	21.20	21.20	21.30	21.30	21.40	22	2.6
15	SSBQAM	75	0	21.05	21.15	21.15	21.25	21.25	21.35	22	2.6
Channel											
Frequency (MHz)											
10	QPSK	1	0	23.54	23.64	23.64	23.74	23.74	23.84	24.6	0
10	QPSK	1	25	23.35	23.45	23.45	23.55	23.55	23.65	24.6	0
10	QPSK	1	49	23.09	23.19	23.19	23.29	23.29	23.39	24.6	0
10	QPSK	25	0	23.36	23.46	23.46	23.56	23.56	23.66	24.6	0
10	QPSK	25	12	23.25	23.35	23.35	23.45	23.45	23.55	24.6	0
10	QPSK	25	25	23.08	23.18	23.18	23.28	23.28	23.38	24.6	0
10	HQAM	1	0	23.43	23.53	23.53	23.63	23.63	23.73	24.6	0
10	HQAM	1	25	23.22	23.32	23.32	23.42	23.42	23.52	24.6	0
10	HQAM	1	49	23.19	23.29	23.29	23.39	23.39	23.49	24.6	0
10	HQAM	25	0	23.18	23.28	23.28	23.38	23.38	23.48	24.6	0
10	HQAM	25	12	23.13	23.23	23.23	23.33	23.33	23.43	24.6	0
10	HQAM	25	25	23.06	23.16	23.16	23.26	23.26	23.36	24.6	0
10	HQAM	50	0	23.19	23.29	23.29	23.39	23.39	23.49	24.6	0
10	HQAM	50	12	23.09	23.19	23.19	23.29	23.29	23.39	24.6	0
10	HQAM	50	25	23.00	23.10	23.10	23.20	23.20	23.30	24.6	0
10	HQAM	100	0	23.01	23.11	23.11	23.21	23.21	23.31	24.6	0
10	HQAM	100	12	22.91	23.01	23.01	23.11	23.11	23.21	24.6	0
10	HQAM	100	25	22.82	22.92	22.92	23.02	23.02	23.12	24.6	0
10	HQAM	200	0	23.01	23.11	23.11	23.21	23.21	23.31	24.6	0
10	HQAM	200	12	22.91	23.01	23.01	23.11	23.11	23.21	24.6	0
10	HQAM	200	25	22.82	22.92	22.92	23.02	23.02	23.12	24.6	0
10	HQAM	400	0	23.01	23.11	23.11	23.21	23.21	23.31	24.6	0
10	HQAM	400	12	22.91	23.01	23.01	23.11	23.11	23.21	24.6	0
10	HQAM	400	25	22.82	22.92	22.92	23.02	23.02	23.12	24.6	0
10	SSBQAM	1	0	21.51	21.61	21.61	21.71	21.71	21.81	22	2.6
10	SSBQAM	1	49	21.39	21.49	21.49	21.59	21.59	21.69	22	2.6
10	SSBQAM	25	0	21.28	21.38	21.38	21.48	21.48	21.58	22	2.6
10	SSBQAM	25	12	21.00	21.10	21.10	21.20	21.20	21.30	22	2.6
10	SSBQAM	25	25	20.99	21.09	21.09	21.19	21.19	21.29	22	2.6
10	SSBQAM	50	0	21.28	21.38	21.38	21.48	21.48	21.58	22	2.6
Channel											
Frequency (MHz)											
5	QPSK	1	0	23.51	23.61	23.61	23.71	23.71	23.81	24.6	0
5	QPSK	1	12	23.36	23.46	23.46	23.56	23.56	23.66	24.6	0
5	QPSK	1	24	23.15	23.25	23.25	23.35	23.35	23.45	24.6	0
5	QPSK	12	0	23.35	23.45	23.45	23.55	23.55	23.65	24.6	0
5	QPSK	12	7	23.27	23.37	23.37	23.47	23.47	23.57	24.6	0
5	QPSK	12	13	23.25	23.35	23.35	23.45	23.45	23.55	24.6	0
5	QPSK	25	0	23.22	23.32	23.32	23.42	23.42	23.52	24.6	0
5	HQAM	1	0	23.48	23.58	23.58	23.68	23.68	23.78	24.6	0
5	HQAM	1	12	23.18	23.28	23.28	23.38	23.38	23.48	24.6	0
5	HQAM	1	24	23.01	23.11	23.11	23.21	23.21	23.31	24.6	0
5	HQAM	12	0	23.18	23.28	23.28	23.38	23.38	23.48	24.6	0
5	HQAM	12									



DCM900 Aet										
Default										
	Base-Average Power (dBm)			Turn-up Limit	Frame-Average Power (dBm)			Turn-up Limit		
TX Channel	198	199	201	Limit	198	199	201	Limit		
Frequency (MHz)	895.2	895.4	895.6	(dBm)	895.2	895.4	895.6	(dBm)		
OPM-1 Tx side	31.42	31.48	31.36	32.50	22.42	22.48	22.36	23.50		
OPM-1 Tx side	31.38	31.44	31.33	32.50	22.39	22.45	22.33	23.50		
OPRS-2 Tx side	25.27	25.25	25.32	26.50	22.27	22.29	22.33	23.50		
OPRS-3 Tx side	26.80	26.91	26.80	28.00	22.54	22.65	22.54	23.74		
OPRS-4 Tx side	25.16	25.22	25.17	26.00	22.16	22.22	22.17	23.00		
EDGE-1 Tx side	24.00	24.17	24.05	25.00	18.03	18.17	18.05	18.50		
EDGE-2 Tx side	22.20	22.41	22.34	23.50	18.20	18.41	18.34	17.00		
EDGE-3 Tx side	21.15	21.21	21.08	22.00	18.89	18.97	18.82	17.74		
EDGE-4 Tx side	18.50	18.50	18.53	20.00	18.59	18.58	18.51	17.00		

  

DCM900 Aet										
Default										
	Base-Average Power (dBm)			Turn-up Limit	Frame-Average Power (dBm)			Turn-up Limit		
TX Channel	199.2	199.3	199.8	Limit	199.2	199.3	199.8	Limit		
Frequency (MHz)	895.2	895.4	895.6	(dBm)	895.2	895.4	895.6	(dBm)		
OPM-1 Tx side	27.52	27.57	27.57	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	19.18	19.06	20.24		
OPRS-4 Tx side	20.62	20.74	20.63	21.50	17.82	17.74	17.83	18.50		
EDGE-1 Tx side	22.76	22.86	22.72	23.50	18.76	18.86	18.72	14.00		
EDGE-2 Tx side	21.13	21.22	21.13	22.00	18.13	18.22	18.13	16.00		
EDGE-3 Tx side	14.86	14.96	14.86	21.00	15.86	15.96	15.86	18.74		
EDGE-4 Tx side	17.01	18.00	17.07	19.00	14.91	15.00	14.97	16.00		

  

Default WCDMA II Aet											
	CC11.1			CC11.1 V			Default WCDMA V Aet				
TX Channel	9582	9600	9588	Turn-up Limit	1412	1413	1513	Turn-up Limit	4152	4162	4238
Frequency (MHz)	1852.4	1860	1867.6	(dBm)	1712.4	1712.6	1752.6	(dBm)	836.4	838.4	846.6
ISPP-Param	21.46	21.50	21.44	22.00	21.42	21.44	21.31	22.40	21.14	21.17	21.04
ISPP-Param	21.48	21.51	21.51	22.50	21.45	21.45	21.37	22.40	21.17	21.11	21.00
ISPP-Param	20.55	20.64	20.47	21.50	20.46	20.57	20.32	21.40	20.23	20.23	20.50
ISPP-Param	20.48	20.51	20.52	21.50	20.42	20.50	20.41	21.40	20.12	20.02	20.17
ISPP-Param	20.02	20.14	20.10	21.00	18.91	20.02	19.95	20.50	19.87	19.70	19.89
ISPP-Param	19.56	20.14	20.06	21.00	18.87	20.11	19.94	20.50	19.56	19.71	19.64
ISPP-Param	20.50	20.70	20.45	21.50	20.46	20.63	20.35	21.40	20.21	20.32	20.91
ISPP-Param	20.37	20.42	20.36	21.00	20.33	20.29	20.28	21.40	20.08	20.08	19.84
ISPP-Param	19.00	19.90	19.92	21.00	19.94	19.84	19.86	20.00	19.90	19.98	19.95
ISPP-Param	19.87	19.84	19.89	21.00	19.82	19.80	19.83	20.00	19.49	19.47	19.64
ISPP-Param	18.53	18.67	18.52	19.50	18.42	18.53	18.39	19.40	18.09	18.19	18.13
ISPP-Param	18.53	18.61	18.56	20.00	18.43	18.51	18.47	20.00	18.18	18.26	18.16
ISPP-Param	18.46	18.48	18.44	19.50	18.37	18.45	18.35	19.40	18.04	18.14	18.03
ISPP-Param	20.59	20.40	20.39	21.00	20.50	20.36	20.33	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	20.92	20.80			22	0
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	16QAM	1	0	20.72	20.73	20.77				
20	16QAM	1	49	20.82	20.88	20.78				
20	16QAM	50	24	20.72	20.85	20.69			21.5	0.5
20	16QAM	50	99	20.72	20.79	20.86				
20	16QAM	100	0	20.70	20.85	20.77				
20	16QAM	100	49	20.71	20.80	20.71				
20	16QAM	100	99	20.67	20.76	20.72			21.5	0.5
20	16QAM	200	0	20.68	20.74	20.74				
20	16QAM	200	49	20.68	20.76	20.72				
20	16QAM	200	99	20.68	20.76	20.72				
20	16QAM	400	0	20.70	20.81	20.71				
20	16QAM	400	49	20.68	20.76	20.72				
20	16QAM	400	99	20.68	20.76	20.72				
20	16QAM	800	0	20.70	20.81	20.71				
20	16QAM	800	49	20.68	20.76	20.72				
20	16QAM	800	99	20.68	20.76	20.72				
20	16QAM	1600	0	20.70	20.81	20.71				
20	16QAM	1600	49	20.68	20.76	20.72				
20	16QAM	1600	99	20.68	20.76	20.72				
20	16QAM	3200	0	20.70	20.81	20.71				
20	16QAM	3200	49	20.68	20.76	20.72				
20	16QAM	3200	99	20.68	20.76	20.72				
20	16QAM	6400	0	20.70	20.81	20.71				
20	16QAM	6400	49	20.68	20.76	20.72				
20	16QAM	6400	99	20.68	20.76	20.72				
20	16QAM	12800	0	20.70	20.81	20.71				
20	16QAM	12800	49	20.68	20.76	20.72				
20	16QAM	12800	99	20.68	20.76	20.72				
20	16QAM	25600	0	20.70	20.81	20.71				
20	16QAM	25600	49	20.68	20.76	20.72				
20	16QAM	25600	99	20.68	20.76	20.72				
20	16QAM	51200	0	20.70	20.81	20.71				
20	16QAM	51200	49	20.68	20.76	20.72				
20	16QAM	51200	99	20.68	20.76	20.72				
20	16QAM	102400	0	20.70	20.81	20.71				
20	16QAM	102400	49	20.68	20.76	20.72				
20	16QAM	102400	99	20.68	20.76	20.72				
20	16QAM	204800	0	20.70	20.81	20.71				
20	16QAM	204800	49	20.68	20.76	20.72				
20	16QAM	204800	99	20.68	20.76	20.72				
20	16QAM	409600	0	20.70	20.81	20.71				
20	16QAM	409600	49	20.68	20.76	20.72				
20	16QAM	409600	99	20.68	20.76	20.72				
20	16QAM	819200	0	20.70	20.81	20.71				
20	16QAM	819200	49	20.68	20.76	20.72				
20	16QAM	819200	99	20.68	20.76	20.72				
20	16QAM	1638400	0	20.70	20.81	20.71				
20	16QAM	1638400	49	20.68	20.76	20.72				
20	16QAM	1638400	99	20.68	20.76	20.72				
20	16QAM	3276800	0	20.70	20.81	20.71				
20	16QAM	3276800	49	20.68	20.76	20.72				
20	16QAM	3276800	99	20.68	20.76	20.72				
20	16QAM	6553600	0	20.70	20.81	20.71				
20	16QAM	6553600	49	20.68	20.76	20.72				
20	16QAM	6553600	99	20.68	20.76	20.72				
20	16QAM	13107200	0	20.70	20.81	20.71				
20	16QAM	13107200	49	20.68	20.76	20.72				
20	16QAM	13107200	99	20.68	20.76	20.72				
20	16QAM	26214400	0	20.70	20.81	20.71				
20	16QAM	26214400	49	20.68	20.76	20.72				
20	16QAM	26214400	99	20.68	20.76	20.72				
20	16QAM	52428800	0	20.70	20.81	20.71				
20	16QAM	52428800	49	20.68	20.76	20.72				
20	16QAM	52428800	99	20.68	20.76	20.72				
20	16QAM	104857600	0	20.70	20.81	20.71				
20	16QAM	104857600	49	20.68	20.76	20.72				
20	16QAM	104857600	99	20.68	20.76	20.72				
20	16QAM	209715200	0	20.70	20.81	20.71				
20	16QAM	209715200	49	20.68	20.76	20.72				
20	16QAM	209715200	99	20.68	20.76	20.72				
20	16QAM	419430400	0	20.70	20.81	20.71				
20	16QAM	419430400	49	20.68	20.76	20.72				
20	16QAM	419430400	99	20.68	20.76	20.72				
20	16QAM	838860800	0	20.70	20.81	20.71				
20	16QAM	838860800	49	20.68	20.76	20.72				
20	16QAM	838860800	99	20.68	20.76	20.72				
20	16QAM	1677721600	0	20.70	20.81	20.71				
20	16QAM	1677721600	49	20.68	20.76	20.72				
20	16QAM	1677721600	99	20.68	20.76	20.72				
20	16QAM	3355443200	0	20.70	20.81	20.71				
20	16QAM	3355443200	49	20.68	20.76	20.72				
20	16QAM	3355443200	99	20.68	20.76	20.72				
20	16QAM	6710886400	0	20.70	20.81	20.71				
20	16QAM	6710886400	49	20.68	20.76	20.72				
20	16QAM	6710886400	99	20.68	20.76	20.72				
20	16QAM	13421772800	0	20.70	20.81	20.71				
20	16QAM	13421772800	49	20.68	20.76	20.72				
20	16QAM	13421772800	99	20.68	20.76	20.72				
20	16QAM	26843545600	0	20.70	20.81	20.71				
20	16QAM	26843545600	49	20.68	20.76	20.72				
20	16QAM	26843545600	99	20.68	20.76	20.72				
20	16QAM	53687091200	0	20.70	20.81	20.71				
20	16QAM	53687091200	49	20.68	20.76	20.72				
20	16QAM	53687091200	99	20.68	20.76	20.72				
20	16QAM	107374182400	0	20.70	20.81	20.71				
20	16QAM	107374182400	49	20.68	20.76	20.72				
20	16QAM	107374182400	99	20.68	20.76	20.72				
20	16QAM	214748364800	0	20.70	20.81	20.71				
20	16QAM	214748364800	49	20.68	20.76	20.72				
20	16QAM	214748364800	99	20.68	20.76	20.72				
20	16QAM	429496729600	0	20.70	20.81	20.71				
20	16QAM	429496729600	49	20.68	20.76	20.72				
20	16QAM	429496729600	99	20.68	20.76	20.72				
20	16QAM	858993459200	0	20.70	20.81	20.71				
20	16QAM	858993459200	49	20.68	20.76	20.72				
20	16QAM	858993459200	99	20.68	20.76	20.72				
20	16QAM	1717986918400	0	20.70	20.81	20.71				
20	16QAM	1717986918400	49	20.68	20.76	20.72				
20	16QAM	1717986918400	99	20.68	20.76	20.72				
20	16QAM	3435973836800	0	20.70	20.81	20.71				
20	16QAM	3435973836800	49	20.68	20.76	20.72				
20	16QAM	3435973836800	99	20.68	20.76	20.72				
20	16QAM	6871947673600	0	20.70	20.81	20.71				
20										



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)	MPR (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	9	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	21.33		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		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	18.25	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	21.31	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	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	3	0	21.48	21.52	21.39		23	0	
3	QPSK	3	7	21.32	21.40	21.38				
3	QPSK	3	13	21.37	21.37	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		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		21.5	1.5	
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	18.23	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	18.08	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	21.69	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		23	0	
1.4	QPSK	3	1	21.48	21.50	21.39				
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	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		22.5	0.5	
1.4	84QAM	3	0	21.23	21.36	21.32				
1.4	84QAM	3	1	21.23	21.23	21.20				
1.4	84QAM	3	3	21.10	21.22	21.17		21.5	1.5	
1.4	84QAM	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	18.20	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)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.67	21.67	21.67				
10	QPSK	1	25	21.43	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	9	21.51	21.50	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	21.39	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	0</							



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	20.71	20.86	20.74				
18	16QAM	36	25	20.67	20.79	20.74			22	0
18	16QAM	36	39	20.78	20.81	20.81				
18	16QAM	75	0	20.78	20.91	20.81				
18	64QAM	1	0	20.83	21.06	20.88				
18	64QAM	1	37	20.88	20.98	20.87			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	25	20.76	20.88	20.78				
18	64QAM	36	39	20.82	20.83	20.80			22	0
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	25	17.89	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	20.78				
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	20.87	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	0	17.87	17.87	17.87				
10	256QAM	1	24	17.88	17.89	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	20.86				
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	20.85	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				
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	17.89	17.77				
5	256QAM	1	12	17.81	17.82	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			22	0
3	16QAM	1	8	20.78	20.84	20.85				
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	20.81				
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							



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	21.02	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	17.65	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	17.75	17.68				
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	20.59	20.74	20.64				
15	16QAM	36	20	20.54	20.54	20.51				
15	16QAM	75	0	20.75	20.88	20.70				
15	64QAM	1	0	20.71	20.80	20.69				
15	64QAM	1	37	20.81	20.89	20.88	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	20.60	20.48				
15	64QAM	36	39	20.48	20.52	20.39				
15	64QAM	75	0	20.87	20.89	20.88	22	0		
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	17.50	17.46				
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	17.43	17.74				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.92	21.07	20.92				
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	20.76	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	20.56	20.60	20.48	22	0		
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				
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	17.59				
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	20.91	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	20.84	20.82				
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	20.67	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				
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	20.59	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				
5	256QAM	12	13	17.39	17.49	17.44	19	3		
5	256QAM	25	0	17.44	17.38	17.75				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.91	21.08	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	20.84	20.88				
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	20.82	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				
3	16QAM	8	7	20.85	20.81	20.85	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	20.88	20.69				
3	64QAM	8	4	20.45	20.61	20.46				
3	64QAM	8	7	20.49	20.53	20.43				





### 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	22	0
20	QPSK	50	0	21.37	21.37	21.38	22	0
20	QPSK	50	0	21.20	21.26	21.38	22	0
20	QPSK	50	24	21.17	21.36	21.33	22	0
20	QPSK	100	0	21.20	21.28	21.35	22	0
20	16QAM	1	0	21.44	21.50	21.49	22	0
20	16QAM	1	49	21.36	21.26	21.33	22	0
20	16QAM	1	99	21.17	21.26	21.21	22	0
20	16QAM	50	0	21.01	21.09	21.05	22	0
20	16QAM	50	24	20.84	20.95	20.93	22	0
20	16QAM	50	50	20.80	20.88	20.90	22	0
20	16QAM	100	0	20.94	21.15	21.06	22	0
20	16QAM	100	0	21.15	21.52	21.51	22	0
20	16QAM	1	49	21.24	21.27	21.19	22	0
20	16QAM	1	99	21.14	21.14	21.14	22	0
20	16QAM	50	0	21.36	21.46	21.38	22	0
20	16QAM	50	24	21.20	21.42	21.31	22	0
20	16QAM	50	50	21.13	21.39	21.32	22	0
20	16QAM	100	0	21.36	21.36	21.44	22	0
20	25QAM	1	0	18.83	18.90	18.86	20.5	1.5
20	25QAM	1	49	18.79	18.90	18.79	20.5	1.5
20	25QAM	1	99	18.76	18.77	18.78	20.5	1.5
20	25QAM	50	0	18.86	18.86	18.87	20.5	1.5
20	25QAM	50	24	18.97	18.96	18.96	20.5	1.5
20	25QAM	50	50	18.89	18.85	18.94	20.5	1.5
20	25QAM	100	0	18.90	18.95	18.96	20.5	1.5
Channel								
Frequency (MHz)								
15	QPSK	1	0	21.72	21.69	21.72	22	0
15	QPSK	1	37	21.67	21.22	21.22	22	0
15	QPSK	1	74	21.13	21.31	21.29	22	0
15	QPSK	1	0	21.13	21.32	21.45	22	0
15	QPSK	36	20	21.20	21.20	21.23	22	0
15	QPSK	36	39	21.21	21.21	21.21	22	0
15	QPSK	75	0	21.21	21.44	21.25	22	0
15	16QAM	1	0	21.20	21.28	21.34	22	0
15	16QAM	1	37	21.28	21.28	21.28	22	0
15	16QAM	1	74	21.11	21.13	21.24	22	0
15	16QAM	36	0	20.90	20.97	20.74	22	0
15	16QAM	36	20	20.76	20.92	20.94	22	0
15	16QAM	36	39	20.85	20.75	20.82	22	0
15	16QAM	75	0	20.78	21.10	20.91	22	0
15	16QAM	75	0	21.10	21.33	21.19	22	0
15	16QAM	1	74	21.01	21.04	21.09	22	0
15	16QAM	36	0	21.36	21.41	21.29	22	0
15	16QAM	36	20	21.17	21.21	21.19	22	0
15	16QAM	36	39	21.08	21.13	21.16	22	0
15	16QAM	75	0	21.20	21.26	21.27	22	0
15	25QAM	1	0	18.77	18.90	18.81	20.5	1.5
15	25QAM	1	37	18.76	18.91	18.82	20.5	1.5
15	25QAM	1	74	18.87	18.74	18.74	20.5	1.5
15	25QAM	36	0	18.86	18.91	18.92	20.5	1.5
15	25QAM	36	20	18.94	18.94	18.97	20.5	1.5
15	25QAM	36	39	18.85	18.88	18.84	20.5	1.5
15	25QAM	75	0	18.89	18.90	18.86	20.5	1.5
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	22	0
10	QPSK	1	49	21.09	21.12	21.20	22	0
10	QPSK	25	0	21.10	21.16	21.18	22	0
10	QPSK	25	12	21.30	21.33	21.28	22	0
10	QPSK	25	25	21.05	21.13	21.10	22	0
10	16QAM	1	0	21.21	21.49	21.20	22	0
10	16QAM	1	25	21.33	21.13	21.06	22	0
10	16QAM	1	49	21.11	21.15	21.21	22	0
10	16QAM	25	0	20.82	21.10	20.73	22	0
10	16QAM	25	12	20.77	20.92	20.88	22	0
10	16QAM	25	25	20.87	20.74	20.71	22	0
10	16QAM	50	0	20.86	21.12	20.74	22	0
10	16QAM	1	0	21.29	21.30	21.38	22	0
10	16QAM	1	25	21.18	21.26	21.30	22	0
10	16QAM	1	49	21.12	21.18	21.21	22	0
10	16QAM	25	0	21.27	21.47	21.29	22	0
10	16QAM	25	12	21.21	21.38	21.07	22	0
10	16QAM	25	25	21.09	21.17	21.17	22	0
10	16QAM	50	0	21.27	21.37	21.25	22	0
10	25QAM	1	0	18.76	18.92	18.70	20.5	1.5
10	25QAM	1	25	18.84	18.91	18.72	20.5	1.5
10	25QAM	1	49	18.82	18.73	18.68	20.5	1.5
10	25QAM	25	0	18.83	18.91	18.88	20.5	1.5
10	25QAM	25	12	18.96	18.93	18.94	20.5	1.5
10	25QAM	25	25	18.77	18.94	18.87	20.5	1.5
10	25QAM	50	0	18.91	18.84	18.88	20.5	1.5
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	22	0
5	QPSK	1	24	21.18	21.22	21.24	22	0
5	QPSK	12	0	21.23	21.31	21.36	22	0
5	QPSK	12	7	21.19	21.17	21.20	22	0
5	QPSK	12	19	21.15	21.28	21.16	22	0
5	QPSK	25	0	21.02	21.22	21.25	22	0
5	16QAM	1	0	21.41	21.40	21.28	22	0
5	16QAM	1	12	21.30	21.22	21.12	22	0
5	16QAM	1	24	21.01	21.21	21.16	22	0
5	16QAM	12	0	20.94	21.14	20.87	22	0
5	16QAM	12	7	20.74	20.81	20.92	22	0
5	16QAM	12	19	20.84	20.92	20.78	22	0
5	16QAM	25	0	20.91	21.08	20.88	22	0
5	16QAM	1	0	21.30	21.41	21.32	22	0
5	16QAM	1	12	21.04	21.36	21.28	22	0
5	16QAM	1	24	21.01	21.11	20.99	22	0
5	16QAM	12	0	21.21	21.46	21.07	22	0
5	16QAM	12	7	21.11	21.20	21.17	22	0
5	16QAM	12	19	21.23	21.07	21.17	22	0
5	16QAM	25	0	21.21	21.38	21.31	22	0
5	25QAM	1	0	18.73	18.88	18.71	20.5	1.5
5	25QAM	1	12	18.72	18.87	18.66	20.5	1.5
5	25QAM	1	24	18.84	18.73	18.70	20.5	1.5
5	25QAM	12	0	18.82	18.81	18.84	20.5	1.5
5	25QAM	12	7	18.85	18.88	18.90	20.5	1.5
5	25QAM	12	19	18.85	18.88	18.91	20.5	1.5
5	25QAM	25	0	18.85	18.92	18.84	20.5	1.5

### 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	20.74	20.72	22	0
20	QPSK	1	49	20.89	20.80	20.76	22	0
20	QPSK	50	0	20.84	20.82	20.85	22	0
20	QPSK	50	0	20.59	20.60	20.65	22	0
20	QPSK	50	24	20.52	20.64	20.62	22	0
20	QPSK	100	0	20.38	20.51	20.51	22	0
20	16QAM	1	0	20.59	20.55	20.58	22	0
20	16QAM	1	49	20.58	20.60	20.53	22	0
20	16QAM	1	99	20.37	20.42	20.37	22	0
20	16QAM	50	0	20.69	20.61	20.61	22	0
20	16QAM	50	24	20.63	20.60	20.67	22	0
20	16QAM	50	50	20.67	20.60	20.67	22	0
20	16QAM	100	0	20.67	20.69	20.73	22	0
20	16QAM	100	0	20.77	20.52	20.63	22	0
20	16QAM	1	49	20.63	20.80	20.54	22	0
20	16QAM	1	99	20.80	20.74	20.52	22	0
20	16QAM	50	0	20.59	20.58	20.64	22	0
20	16QAM	50	24	20.66	20.78	20.56	22	0
20	16QAM	50	50	20.70	20.68	20.52	22	0
20	16QAM	100	0	20.68	20.67	20.65	22	0
20	25QAM	1	0	18.82	18.60	18.90	20	2
20	25QAM	1	49	18.84	18.67	18.90	20	2
20	25QAM	1	99	18.63	18.63	18.73	20	2
20	25QAM	50	0	18.87	18.87	18.87	20	2



Band 41 HPUe FCC&C 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	22.88	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	22.62	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	22.20	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	16QAM	100	0	22.46	22.44	22.44	22.29	22.41	22.41		
20	16QAM	100	0	22.43	22.51	22.42	22.28	22.20	22.20	23.6	0
20	16QAM	100	49	22.28	22.36	22.44	22.23	22.29	22.29		
20	16QAM	100	99	22.43	22.36	22.33	22.30	22.31	22.31		
20	16QAM	50	0	22.25	22.27	22.44	22.33	22.43	22.43		
20	16QAM	50	24	22.17	22.21	22.36	22.14	22.34	22.34	23.6	0
20	16QAM	50	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	21.88	21.88	23	0.6
20	256QAM	1	49	21.59	21.41	21.61	21.42	21.62	21.62		
20	256QAM	1	99	21.30	21.36	21.55	21.41	21.51	21.51		
20	256QAM	50	0	21.27	21.29	21.51	21.34	21.45	21.45		
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	21.12	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	22.85	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		
15	QPSK	36	20	22.40	22.40	22.51	22.33	22.25	22.25	23.6	0
15	QPSK	75	0	22.45	22.48	22.50	22.48	22.36	22.36		
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	22.24	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	22.20	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		
15	16QAM	75	0	22.18	22.15	22.40	22.38	22.29	22.29	23.6	0
15	16QAM	1	37	22.35	22.21	22.40	22.28	22.21	22.21		
15	16QAM	74	0	22.40	22.28	22.38	22.20	22.19	22.19		
15	16QAM	74	0	22.10	22.09	22.28	22.20	22.19	22.19	23.6	0
15	16QAM	36	20	22.04	22.28	22.35	22.12	22.16	22.16		
15	16QAM	75	0	22.18	22.18	22.18	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	0.6
15	256QAM	1	37	21.26	21.26	21.36	21.26	21.36	21.36		
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	21.12	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	22.63	22.63	22.63	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	22.49	22.49	22.49		
10	QPSK	25	12	22.32	22.42	22.51	22.41	22.28	22.28	23.6	0
10	QPSK	25	25	22.43	22.38	22.43	22.25	22.35	22.35		
10	16QAM	1	0	22.34	22.31	22.83	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	25	0	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	50	0	22.28	22.48	22.40	22.40	22.33	22.33		
10	16QAM	50	0	22.32	22.21	22.46	22.34	22.07	22.07	23.6	0
10	16QAM	1	25	22.43	22.30	22.50	22.18	22.21	22.21		
10	16QAM	1	49	22.34	22.11	22.28	22.25	22.17	22.17	23.6	0
10	16QAM	25	12	22.12	22.23	22.41	22.26	22.28	22.28		
10	16QAM	25	25	22.18	22.03	22.30	22.17	22.36	22.36	23.6	0
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	0.6
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	21.33	21.45	21.45		
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	0.6
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	22.66	22.68	22.67	22.63	22.43	22.43	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	22.49	22.49	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	22.40	22.40		
5	16QAM	1	0	22.35	22.27	22.57	22.37	22.25	22.25	23.6	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	23.6	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	0	22.43	22.32	22.58	22.32	22.22	22.22	23.6	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	22.25	22.27	22.16	22.10	22.10	23.6	0
5	16QAM	25	0	22.03	22.07	22.20	22.10	22.23	22.23		
5	256QAM	1	0	21.38	21.34	21.57	21.39	21.48	21.48	23	0.6
5	256QAM	1	12	21.33	21.36	21.50	21.28	21.40	21.40		
5	256QAM	1	24	21.23	21.29	21.49	21.27	21.39	21.39		
5	256QAM	12	0	21.16							



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	
Received (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	21.52	22.50	12.56	12.60	12.52	17.50	
EDGE 3 Tx Watt	20.78	20.85	20.70	21.50	11.78	11.85	11.64	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	9802	9803	9808	Limit	1512	1513	1513	Limit	
Received (dBm)	89.2	89.0	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	20.37	20.68	20.52	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	20.14	21.00	19.51	20.24	19.69	21.00	
SOPF Rate 5	20.02	20.18	20.09	21.00	19.38	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	20.63	20.60	22.00	
SOPF Rate 5	19.52	19.60	19.45	19.50	18.46	18.49	18.29	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	20.92	20.92	20.92	21.00	20.49	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	21.03			
20	QPSK	100	24	20.80	20.92	20.84	22	0	
20	QPSK	100	50	20.60	20.72	20.64			
20	QPSK	50	24	20.80	20.92	20.84	22	0	
20	QPSK	50	50	20.60	20.72	20.64			
20	QPSK	1	0	20.97	21.10	21.00			
20	QPSK	1	49	20.77	20.89	20.81	22	0	
20	QPSK	1	99	20.57	20.69	20.61			
20	QPSK	50	0	20.93	21.05	20.96			
20	QPSK	50	24	20.69	20.81	20.73	22	0	
20	QPSK	50	50	20.49	20.61	20.53			
20	QPSK	100	0	20.85	20.97	20.88			
20	QPSK	100	24	20.61	20.73	20.65	22	0	
20	QPSK	100	50	20.41	20.53	20.45			
20	QPSK	50	24	20.61	20.73	20.65	22	0	
20	QPSK	50	50	20.41	20.53	20.45			
20	QPSK	1	0	18.07	18.24	18.07			
20	QPSK	1	49	17.85	18.02	17.99	19	3	
20	QPSK	1	99	17.62	17.80	17.62			
20	QPSK	50	0	17.85	18.02	17.85			
20	QPSK	50	24	17.62	17.80	17.62	19	3	
20	QPSK	50	50	17.42	17.60	17.42			
20	QPSK	100	0	17.75	17.92	17.75			
20	QPSK	100	24	17.52	17.70	17.52	19	3	
20	QPSK	100	50	17.32	17.50	17.32			
20	QPSK	50	24	17.52	17.70	17.52	19	3	
20	QPSK	50	50	17.12	17.30	17.12			
20	QPSK	1	0	18.17	18.34	18.17			
20	QPSK	1	49	17.95	18.12	17.95	19	3	
20	QPSK	1	99	17.72	17.90	17.72			
20	QPSK	50	0	17.95	18.12	17.95			
20	QPSK	50	24	17.72	17.90	17.72	19	3	
20	QPSK	50	50	17.52	17.70	17.52			
20	QPSK	100	0	17.87	18.04	17.87			
20	QPSK	100	24	17.64	17.82	17.64	19	3	
20	QPSK	100	50	17.44	17.62	17.44			
20	QPSK	50	24	17.64	17.82	17.64	19	3	
20	QPSK	50	50	17.24	17.42	17.24			
20	QPSK	1	0	18.57	18.74	18.57			
20	QPSK	1	49	18.35	18.52	18.35	19	3	
20	QPSK	1	99	18.12	18.30	18.12			
20	QPSK	50	0	18.35	18.52	18.35			
20	QPSK	50	24	18.12	18.30	18.12	19	3	
20	QPSK	50	50	17.92	18.10	17.92			
20	QPSK	100	0	18.27	18.44	18.27			
20	QPSK	100	24	18.04	18.22	18.04	19	3	
20	QPSK	100	50	17.84	18.02	17.84			
20	QPSK	50	24	18.04	18.22	18.04	19	3	
20	QPSK	50	50	17.64	17.82	17.64			
20	QPSK	1	0	19.07	19.24	19.07			
20	QPSK	1	49	18.85	19.02	18.85	19	3	
20	QPSK	1	99	18.62	18.80	18.62			
20	QPSK	50	0	18.85	19.02	18.85			
20	QPSK	50	24	18.62	18.80	18.62	19	3	
20	QPSK	50	50	18.42	18.60	18.42			
20	QPSK	100	0	18.77	18.94	18.77			
20	QPSK	100	24	18.54	18.72	18.54	19	3	
20	QPSK	100	50	18.34	18.52	18.34			
20	QPSK	50	24	18.54	18.72	18.54	19	3	
20	QPSK	50	50	18.14	18.32	18.14			
20	QPSK	1	0	19.57	19.74	19.57			
20	QPSK	1	49	19.35	19.52	19.35	19	3	
20	QPSK	1	99	19.12	19.30	19.12			
20	QPSK	50	0	19.35	19.52	19.35			
20	QPSK	50	24	19.12	19.30	19.12	19	3	
20	QPSK	50	50	18.92	19.10	18.92			
20	QPSK	100	0	19.27	19.44	19.27			
20	QPSK	100	24	19.04	19.22	19.04	19	3	
20	QPSK	100	50	18.84	19.02	18.84			
20	QPSK	50	24	19.04	19.22	19.04	19	3	
20	QPSK	50	50	18.64	18.82	18.64			
20	QPSK	1	0	19.97	20.14	19.97			
20	QPSK	1	49	19.75	19.92	19.75	19	3	
20	QPSK	1	99	19.52	19.70	19.52			
20	QPSK	50	0	19.75	19.92	19.75			
20	QPSK	50	24	19.52	19.70	19.52	19	3	
20	QPSK	50	50	19.32	19.50	19.32			
20	QPSK	100	0	19.67	19.84	19.67			
20	QPSK	100	24	19.44	19.62	19.44	19	3	
20	QPSK	100	50	19.24	19.42	19.24			
20	QPSK	50	24	19.44	19.62	19.44	19	3	
20	QPSK	50	50	19.04	19.22	19.04			
20	QPSK	1	0	18.07	18.24	18.07			
20	QPSK	1	49	17.85	18.02	17.85	19	3	
20	QPSK	1	99	17.62	17.80	17.62			
20	QPSK	50	0	17.85	18.02	17.85			
20	QPSK	50	24	17.62	17.80	17.62	19	3	
20	QPSK	50	50	17.42	17.60	17.42			
20	QPSK	100	0	17.75	17.92	17.75			
20	QPSK	100	24	17.52	17.70	17.52	19	3	
20	QPSK	100	50	17.32	17.50	17.32			
20	QPSK	50	24	17.52	17.70	17.52	19	3	
20	QPSK	50	50	17.12	17.30	17.12			
20	QPSK	1	0	18.17	18.34	18.17			
20	QPSK	1	49	17.95	18.12	17.95	19	3	
20	QPSK	1	99	17.72	17.90	17.72			
20	QPSK	50	0	17.95	18.12	17.95			
20	QPSK	50	24	17.72	17.90	17.72	19	3	
20	QPSK	50	50	17.52	17.70	17.52			
20	QPSK	100	0	17.87	18.04	17.87			
20	QPSK	100	24	17.64	17.82	17.64	19	3	
20	QPSK	100	50	17.44	17.62	17.44			
20	QPSK	50	24	17.64	17.82	17.64	19	3	
20	QPSK	50	50	17.24	17.42	17.24			
20	QPSK	1	0	18.57	18.74	18.57			
20	QPSK	1	49	18.35	18.52	18.35	19	3	
20	QPSK	1	99	18.12	18.30	18.12			
20	QPSK	50	0	18.35	18.52	18.35			
20	QPSK	50	24	18.12	18.30	18.12	19	3	
20	QPSK	50	50	17.92	18.10	17.92			
20	QPSK	100	0	18.27	18.44	18.27			
20	QPSK	100	24	18.04	18.22	18.04	19	3	
20	QPSK	100	50	17.84	18.02	17.84			
20	QPSK	50	24	18.04	18.22	18.04	19	3	
20	QPSK	50	50	17.64	17.82	17.64			
20	QPSK	1	0	19.07	19.24	19.07			
20	QPSK	1	49	18.85	19.02	18.85	19	3	
20	QPSK	1	99	18.62	18.80	18.62			
20	QPSK	50	0	18.85	19.02	18.85			
20	QPSK	50	24	18.62	18.80	18.62	19	3	
20	QPSK	50	50	18.42	18.60	18.42			
20	QPSK	100	0	18.77	18.94	18.77			
20	QPSK	100	24	18.54	18.72	18.54	19	3	
20	QPSK	100	50	18.34	18.52	18.34			
20	QPSK	50	24	18.54	18.72	18.54	19	3	
20	QPSK	50	50	18.14	18.32	18.14			
20	QPSK	1	0	19.57	19.74	19.57			
20	QPSK	1	49	19.35	19.52	19.35	19	3	
20	QPSK	1	99	19.12	19.30	19.12			
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	22.50			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				
10	QPSK	25	25	22.29	22.32	22.24			24	0
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	22.15				
5	QPSK	12	13	22.24	22.28	22.17			24	0
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	21.30	20.89			22.5	1.5
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	19.48	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	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			24	0
3	16QAM	1	16	22.16	22.28	22.18				
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	20.99				
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	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				
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	0	22.16	22.32	22.22				
1.4	8QAM	3	3	22.15	22.29	22.21			22.5	1.5
1.4	8QAM	6	0	21.19	21.20	21.11				
1.4	256QAM	1	0	19.26	19.57	19.38			21	3
1.4	256QAM	1	3	19.22	19.56	19.47				
1.4	256QAM	1	5	19.26	19.22	19.35				
1.4	256QAM	3	0	19.10	19.34	19.30			21	3
1.4	256QAM	3	1	19.21	19.18	19.19				
1.4	256QAM	3	1	19.08	19.20	19.14				
1.4	256QAM	6	0	19.17	19.25	19.09			21	3

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					24	0
10	QPSK	1	49	22.43						
10	QPSK	25	0	22.45						
10	QPSK	25	12	22.35					24	0
10	QPSK	25	25	22.26						
10	QPSK	50	0	22.32						
10	16QAM	1	0	22.45						
10	16QAM	1	25	22.47					24	0
10	16QAM	1	49	22.40						
10	16QAM	25	0	22.54						
10	16QAM	25	12	22.35					24	0
10	16QAM	25	25	22.28						
10	16QAM	50	0	22.45						
10	8QAM	1	25	22.42					24	0
10	8QAM	1	49	22.41						
10	8QAM	25	0	21.30						
10	8QAM	25	12	21.20					22.5	1.5
10	8QAM	25	25	21.04						
10	8QAM	50	0	21.26						
10	256QAM</									



Band 25 Default Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power Hsp./Freq.	Power Hpt./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	23.20	23.19				
20	QPSK	50	49	23.13	23.24	23.14				
20	QPSK	50	99	23.01	23.08	23.05				
20	QPSK	100	0	23.11	23.22	23.15				
20	QPSK	100	49	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	22.84	22.89	22.82	24	0		
20	16QAM	50	99	22.77	22.84	22.82				
20	16QAM	100	0	22.84	22.85	22.81				
20	16QAM	100	49	22.96	23.15	22.96				
20	16QAM	100	99	22.98	23.02	22.95	24	0		
20	16QAM	200	0	22.92	22.94	22.90				
20	16QAM	200	24	21.92	22.04	21.97				
20	16QAM	200	99	21.82	21.95	21.85	23	1		
20	16QAM	400	0	22.96	22.95	22.93				
20	16QAM	400	49	22.98	23.18	22.97				
20	16QAM	400	99	22.96	23.02	22.92	21	3		
20	256QAM	1	99	19.98	19.93	19.97				
20	256QAM	25	99	20.09	20.00	20.00				
20	256QAM	50	0	19.92	19.98	19.97				
20	256QAM	50	50	19.82	19.94	19.87	21	3		
20	256QAM	100	0	19.15	19.30	19.15				
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.07	23.26	23.17				
10	QPSK	1	24	23.01	23.03	23.04	24	0		
10	QPSK	1	74	23.01	23.00	23.00				
10	QPSK	36	0	23.02	23.16	23.14				
10	QPSK	36	24	23.07	23.07	23.07	24	0		
10	QPSK	36	39	22.99	23.01	23.01				
10	QPSK	75	0	23.06	23.14	23.06				
10	16QAM	1	49	22.98	23.13	23.03				
10	16QAM	1	37	22.96	23.24	22.94	24	0		
10	16QAM	1	74	22.94	22.96	22.94				
10	16QAM	50	0	22.70	22.95	22.90				
10	16QAM	50	24	22.79	22.79	22.83	24	0		
10	16QAM	50	99	22.89	22.90	22.90				
10	16QAM	100	0	22.90	23.13	22.90				
10	16QAM	100	1	22.87	23.04	22.91	24	0		
10	16QAM	200	0	22.87	23.04	22.94				
10	16QAM	200	1	22.76	22.97	22.78				
10	16QAM	36	0	21.89	22.07	22.02				
10	16QAM	36	24	21.79	21.79	21.79	23	1		
10	16QAM	36	39	21.70	21.73	21.71				
10	16QAM	75	0	22.02	22.01	21.98				
10	256QAM	1	37	19.91	20.10	19.98	21	3		
10	256QAM	1	74	19.77	19.78	19.91				
10	256QAM	25	99	19.82	19.82	19.82				
10	256QAM	50	0	19.81	19.92	19.92	21	3		
10	256QAM	50	50	19.72	19.90	19.75				
10	256QAM	100	0	19.83	19.90	19.87				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.97	23.17	23.10				
5	QPSK	1	24	22.87	23.15	23.09	24	0		
5	QPSK	1	49	22.90	23.00	23.00				
5	QPSK	12	0	23.03	23.00	23.07				
5	QPSK	25	24	23.04	23.06	23.02	24	0		
5	16QAM	1	49	23.06	23.14	23.07				
5	16QAM	1	24	22.81	23.10	22.92	24	0		
5	16QAM	50	0	22.78	22.90	22.87				
5	16QAM	50	12	22.81	22.85	22.84				
5	16QAM	50	24	22.70	22.81	22.76	24	0		
5	16QAM	100	0	22.81	23.03	22.92				
5	16QAM	100	1	22.84	23.02	22.84	24	0		
5	16QAM	200	0	22.85	23.08	22.88				
5	16QAM	200	1	22.85	23.04	22.81				
5	16QAM	25	0	21.89	22.10	22.02				
5	16QAM	25	24	21.77	21.83	21.77	23	1		
5	16QAM	25	26	21.77	21.83	21.77				
5	16QAM	50	0	21.97	21.98	21.94				
5	16QAM	50	12	21.81	21.92	21.86				
5	16QAM	50	24	21.82	21.91	21.87	22	1		
5	16QAM	100	0	21.95	21.97	21.92				
5	16QAM	100	1	21.82	21.93	21.88				
5	16QAM	100	12	21.76	21.87	21.88	20	3		
5	16QAM	100	24	21.76	21.85	21.87	20	3		
5	16QAM	200	0	21.84	21.93	21.87				
5	16QAM	200	1	21.85	21.95	21.92				
5	16QAM	25	0	20.99	20.78	20.77	22	1		
5	256QAM	1	24	19.97	19.97	19.97				
5	256QAM	1	24	19.91	19.91	19.91	20	3		
5	256QAM	1	24	19.83	19.87	19.83				
5	256QAM	12	7	18.78	18.87	18.88	20	3		
5	256QAM	12	13	18.78	18.83	18.83	20	3		
5	256QAM	25	25	18.76	18.81	18.87				
5	256QAM	25	0	18.74	18.80	18.81				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.17	22.17	22.17				
3	QPSK	1	8	22.00	22.01	22.09	23	0		
3	QPSK	1	14	21.94	22.06	21.91				
3	QPSK	1	49	22.04	22.03	22.05				
3	QPSK	12	7	21.88	21.90	21.92	23	0		
3	QPSK	12	13	21.82	21.90	21.83				
3	QPSK	25	25	21.95	21.92	21.92				
3	16QAM	1	49	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	21.82	21.91	21.87	23	0		
3	16QAM	25	0	22.03	22.05	22.00				
3	16QAM	25	1	21.88	21.95	22.01	23	0		
3	16QAM	25	25	21.95	21.95	21.95				
3	16QAM	50	0	21.95	21.99	21.90				
3	16QAM	50	12	21.83	21.93	21.82				
3	16QAM	50	24	21.80	21.91	21.82	22	1		
3	16QAM	100	0	21.93	22.03	22.02				
3	16QAM	100	1	21.84	21.97	21.87				
3	16QAM	100	12	21.80	21.90	21.87	23	0		
3	16QAM	100	24	21.89	21.90	21.87	23	0		
3	16QAM	200	0	22.02	22.02	22.02				
3	16QAM	200	1	21.93	22.12	21.93				
3	16QAM	200	12	21.87	21.97	21.97	23	0		
3	16QAM	200	24	21.88	21.98	21.84				
3	16QAM	400	0	22.02	22.05	21.92	23	0		
3	16QAM	400	1	21.96	21.99	22.02				
3	16QAM	400	12	21.78	21.77	21.79				
3	16QAM	400	24	21.82	21.92	21.85	23	0		
3	16QAM	800	0	22.00	22.07	21.96	23	0		
3	16QAM	800	1	21.91	21.97	21.96				
3	16QAM	800	12	21.88	21.98	21.84				
3	16QAM	800	24	21.82	22.04	21.85	23	0		
3	16QAM	1600	0	22.02	22.02	22.02				
3	16QAM	1600	1	21.91	22.03	21.92	22	1		
3	16QAM	1600	12	21.87	21.91	21.93				
3	16QAM	1600	24	21.82	21.93	21.87	22	1		
3	256QAM	1	12	19.20	19.24	19.17	20	3		
3	256QAM	1	12	19.03	19.03	19.04				



### 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	39000	39150		
Frequency (MHz)								
20	QPSK	1	0	17.00	17.00	17.00		
20	QPSK	1	49	17.09	17.20	17.01	18.2	0
20	QPSK	50	24	16.84	16.84	16.79		
20	QPSK	50	24	16.69	16.82	16.82	18.2	0
20	QPSK	100	0	16.79	16.87	16.84		
20	16QAM	1	0	16.80	16.99	16.95	18.2	0
20	16QAM	1	49	16.99	16.81	16.79		
20	16QAM	1	99	16.81	16.87	16.91		
20	16QAM	50	24	16.90	16.87	16.94		
20	16QAM	50	24	16.84	17.03	16.90	18.2	0
20	16QAM	50	50	16.96	16.75	16.98		
20	16QAM	100	0	16.59	16.69	16.66		
20	16QAM	100	0	16.78	16.80	16.96	18.2	0
20	16QAM	100	0	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	18.2	0
20	16QAM	50	50	16.84	16.74	16.81		
20	16QAM	100	0	16.80	16.83	16.85		
20	16QAM	100	0	16.88	16.79	16.96		
20	16QAM	100	0	16.99	16.72	16.74	18.2	0
20	16QAM	100	0	16.47	16.52	16.72		
20	16QAM	100	0	16.56	16.51	16.72	18.2	0
20	16QAM	50	24	16.52	16.56	16.47		
20	16QAM	100	0	16.85	16.94	16.84		
Channel				31625	31600	31715	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				21725	21695	21725		
15	QPSK	1	0	17.00	17.00	17.00		
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	16.84	16.79		
15	QPSK	75	0	16.68	16.75	16.74		
15	16QAM	1	0	16.70	16.90	16.91	18.2	0
15	16QAM	1	37	16.41	16.53	16.61		
15	16QAM	1	74	16.81	16.83	16.75		
15	16QAM	36	0	16.80	16.69	16.80		
15	16QAM	36	39	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	16.69	16.71	16.80	18.2	0
15	16QAM	1	37	16.71	16.82	16.74		
15	16QAM	74	0	16.75	16.69	16.82		
15	16QAM	36	0	16.59	16.74	16.91	18.2	0
15	16QAM	36	20	16.32	16.59	16.59		
15	16QAM	36	39	16.47	16.53	16.51		
15	16QAM	75	0	16.63	16.52	16.51		
15	16QAM	1	0	16.54	16.56	16.49	18.2	0
15	16QAM	1	37	16.65	16.70	16.84		
15	16QAM	1	74	16.25	16.48	16.54		
15	16QAM	36	0	16.53	16.62	16.54		
15	16QAM	36	20	16.52	16.28	16.44	18.2	0
15	16QAM	36	39	16.44	16.53	16.41		
15	16QAM	75	0	16.84	16.91	16.86		
Channel				25725	25600	25750	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				25725	25695	25725		
10	QPSK	1	0	16.79	17.03	16.87	18.2	0
10	QPSK	1	25	16.58	17.08	16.94		
10	QPSK	1	49	16.67	16.83	16.89		
10	QPSK	1	0	16.59	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	16.94		
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	16.66	16.69	16.98		
10	16QAM	25	0	16.29	16.83	16.80	18.2	0
10	16QAM	25	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	16.62		
10	16QAM	25	0	16.56	16.76	16.62		
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	16QAM	1	0	16.80	16.81	16.49		
10	16QAM	1	25	16.41	16.81	16.59	18.2	0
10	16QAM	1	49	16.36	16.41	16.52		
10	16QAM	25	0	16.50	16.81	16.58		
10	16QAM	25	12	16.37	16.48	16.44	18.2	0
10	16QAM	25	25	16.34	16.40	16.40		
10	16QAM	50	0	16.84	16.77	16.59		
Channel				25725	25665	25775	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				25725	25695	25775		
5	QPSK	1	0	16.87	17.04	16.87	18.2	0
5	QPSK	1	19	16.90	17.15	16.96		
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	16QAM	1	0	16.80	16.87	16.90	18.2	0
5	16QAM	1	12	16.64	16.84	16.82		
5	16QAM	1	24	16.70	16.86	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	18.2	0
5	16QAM	1	12	16.69	16.83	16.79		
5	16QAM	1	24	16.92	16.86	16.73		
5	16QAM	12	0	16.51	16.79	16.43	18.2	0
5	16QAM	12	7	16.23	16.47	16.74		
5	16QAM	25	0	16.56	16.45	16.51		
5	16QAM	1	0	16.44	16.82	16.40		
5	16QAM	1	12	16.38	16.66	16.65	18.2	0
5	16QAM	1	24	16.31	16.34	16.70		
5	16QAM	12	0	16.59	16.82	16.68		
5	16QAM	12	7	16.41	16.33	16.52	18.2	0
5	16QAM	12	13	16.39	16.44	16.32		
5	16QAM	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	40620	41055	41490		
Frequency (MHz)										
20	QPSK	1	0	16.99	16.99	17.00	17.01	17.00		
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	17.09	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	50	24	16.88	16.82	16.82	16.97	16.91		
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	18.2	0
20	16QAM	50	24	16.92	16.80	17.17	17.05	16.80		
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	100	0	16.72	16.85	16.85	16.95	16.70	18.2	0
20	16QAM	100	0	16.78	16.88	16.87	16.97	16.68		
20	16QAM	100	0	16.90	16.93	17.05	16.95	16.90		
20	16QAM	50	0	16.80	16.88	16.83	16.92	16.66		
20	16QAM	50	24	16.84	16.88	16.71	16.83	16.83	18.2	0
20	16QAM	50	50	16.83	16.89	16.74	16.83	16.81		
20	16QAM	100	0	16.77	16.86	16.81	16.84	16.83		
20	16QAM	100	0	16.90	16.72	16.79	16.74	16.70		
20	16QAM	100	0	16.75	16.78	16.92	16.78	16.73	18.2	0
20	16QAM	100	0	16.69	16.56	16.83	16.78	16.71		
20	16QAM	50	0	16.67	16.82	16.86	16.82	16.69		
20	16QAM	50	24	16.82	16.68	16.58	16.82	16.59	18.2	0
20	16QAM	50	50	16.85	16.68	16.75	16.87	16.46		
20	16QAM	100	0	16.89	16.93	16.76	16.73	16.73		
Channel				39750	40173	40620	41055	41490	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				22075	22413	22993	24173	24925		
16	QPSK	1	0	16.70	16.90	17.02	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	17.06	16.79	16.70		
16	QPSK	36	20	16.69	16.67	16.81	16.71	16.66	18.2	0
16	QPSK	36	39	16.76	16.82	16.87	16.81	16.81		
16	QPSK	75	0	16.70	16.73	16.70	16.96	16.66		
16	16QAM	1	0	16.84	16.58	16.98	16.57	16.87	18.2	0
16	16QAM	1	37	16.76	16					



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)										
20	QPSK	1	0	18.70	18.58	18.33	18.20	18.20	19.8	0
20	QPSK	1	49	18.45	18.86	18.72	18.70	18.53	19.8	0
20	QPSK	50	0	18.45	18.86	18.72	18.70	18.53	19.8	0
20	QPSK	50	24	18.61	18.45	18.43	18.66	18.34	19.8	0
20	QPSK	100	0	18.45	18.86	18.72	18.70	18.53	19.8	0
20	QPSK	100	24	18.32	18.60	18.70	18.51	18.41	19.8	0
20	16QAM	1	0	18.56	18.50	18.81	18.54	18.65	19.8	0
20	16QAM	1	49	18.51	18.36	18.67	18.49	18.42	19.8	0
20	16QAM	50	0	18.57	18.58	18.89	18.66	18.46	19.8	0
20	16QAM	50	24	18.51	18.36	18.67	18.49	18.42	19.8	0
20	16QAM	100	0	18.59	18.64	18.41	18.70	18.38	19.8	0
20	16QAM	100	24	18.31	18.42	18.74	18.29	18.28	19.8	0
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	19.8	0
20	64QAM	50	0	18.31	18.21	18.43	18.33	18.45	19.8	0
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	19.8	0
20	64QAM	100	24	18.26	18.43	18.45	18.38	18.43	19.8	0
20	256QAM	1	0	18.42	18.21	18.45	18.26	18.31	19.8	0
20	256QAM	1	49	18.47	18.04	18.21	18.20	18.33	19.8	0
20	256QAM	1	99	18.21	18.17	18.20	18.49	18.33	19.8	0
20	256QAM	50	0	18.46	18.29	18.46	18.21	18.33	19.8	0
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	19.8	0
20	256QAM	100	24	18.14	18.44	18.44	18.20	18.17	19.8	0
Channel										
Frequency (MHz)										
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	19.8	0
15	QPSK	1	74	18.39	18.34	18.41	18.28	18.37	19.8	0
15	QPSK	1	111	18.39	18.51	18.62	18.51	18.48	19.8	0
15	QPSK	36	20	18.38	18.23	18.23	18.34	18.19	19.8	0
15	QPSK	36	39	18.03	18.45	18.40	18.37	18.12	19.8	0
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	19.8	0
15	16QAM	1	37	18.29	18.41	18.18	18.29	18.17	19.8	0
15	16QAM	1	74	18.07	18.40	18.28	18.48	18.24	19.8	0
15	16QAM	36	0	18.27	18.33	18.71	18.49	18.16	19.8	0
15	16QAM	36	20	18.35	18.05	18.42	18.25	18.20	19.8	0
15	16QAM	36	39	18.46	18.39	18.11	18.55	18.11	19.8	0
15	16QAM	75	0	18.01	18.30	18.43	18.20	17.99	19.8	0
15	64QAM	1	0	18.05	18.18	18.24	18.21	18.11	19.8	0
15	64QAM	1	37	18.04	18.26	18.13	18.24	17.92	19.8	0
15	64QAM	1	74	18.38	18.42	18.69	18.10	18.22	19.8	0
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	19.8	0
15	64QAM	36	39	18.05	18.43	18.37	18.27	18.09	19.8	0
15	64QAM	75	0	18.00	18.23	18.29	18.27	18.27	19.8	0
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	18.03	19.8	0
15	256QAM	1	74	18.12	17.98	18.04	18.20	18.08	19.8	0
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	19.8	0
15	256QAM	36	39	17.78	18.13	18.17	18.07	17.84	19.8	0
15	256QAM	75	0	18.38	18.31	18.38	18.12	18.09	19.8	0
Channel										
Frequency (MHz)										
10	QPSK	1	0	18.41	18.30	18.40	18.31	18.28	19.8	0
10	QPSK	1	25	18.20	18.38	18.40	18.31	18.28	19.8	0
10	QPSK	1	49	18.38	18.41	18.20	18.47	18.33	19.8	0
10	QPSK	1	74	18.39	18.50	18.41	18.30	18.28	19.8	0
10	QPSK	25	12	18.40	18.19	18.14	18.39	18.08	19.8	0
10	QPSK	25	25	18.21	18.35	18.25	18.00	18.43	19.8	0
10	QPSK	25	49	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	19.8	0
10	16QAM	1	25	18.18	18.28	18.16	18.24	18.03	19.8	0
10	16QAM	1	49	18.53	18.53	18.32	18.51	18.20	19.8	0
10	16QAM	25	0	18.35	18.36	18.64	18.42	18.16	19.8	0
10	16QAM	25	12	18.35	18.19	18.58	18.24	18.15	19.8	0
10	16QAM	25	25	18.23	18.43	18.31	18.58	18.08	19.8	0
10	16QAM	50	0	18.12	18.35	18.58	18.32	18.13	19.8	0
10	64QAM	1	0	18.14	18.08	18.27	18.21	18.08	19.8	0
10	64QAM	1	25	18.22	18.29	18.22	18.23	18.04	19.8	0
10	64QAM	1	49	18.19	18.26	18.09	18.22	18.33	19.8	0
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	19.8	0
10	64QAM	25	25	18.08	17.83	18.20	18.14	18.00	19.8	0
10	256QAM	1	0	18.11	18.24	18.15	18.09	18.27	19.8	0
10	256QAM	1	25	18.32	18.08	18.22	17.97	18.08	19.8	0
10	256QAM	1	49	18.05	18.26	18.53	18.05	18.11	19.8	0
10	256QAM	1	74	18.05	18.05	18.20	18.13	18.15	19.8	0
10	256QAM	25	0	18.30	18.07	18.33	18.38	18.26	19.8	0
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	19.8	0
10	256QAM	50	0	18.29	18.24	18.38	18.14	18.19	19.8	0
Channel										
Frequency (MHz)										
5	QPSK	1	0	18.51	18.41	18.09	18.20	18.54	19.8	0
5	QPSK	1	12	18.19	18.34	18.45	18.20	18.37	19.8	0
5	QPSK	1	24	18.20	18.54	18.37	18.42	18.27	19.8	0
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	19.8	0
5	QPSK	12	18	18.37	18.36	18.42	18.18	18.51	19.8	0
5	QPSK	24	0	18.29	18.52	18.54	18.26	18.12	19.8	0
5	QPSK	24	12	18.47	18.39	18.08	18.26	18.54	19.8	0
5	16QAM	1	0	18.21	18.44	18.52	18.19	18.20	19.8	0
5	16QAM	1	12	18.03	18.61	18.21	18.22	18.19	19.8	0
5	16QAM	12	0	18.37	18.27	18.07	18.39	18.14	19.8	0
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	19.8	0
5	16QAM	24	0	18.17	18.26	18.08	18.32	18.06	19.8	0
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	19.8	0
5	64QAM	1	24	18.25	18.41	18.06	18.10	18.12	19.8	0
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	19.8	0
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	19.8	0
5	256QAM	1	0	18.24	18.12	18.14	17.98	18.17	19.8	0
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	19.8	0
5	256QAM	12	0	18.27	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	19.8	0
5										





OSM 1900 Awt		Default							
		Base 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		28.14	28.27	27.40	24.00	28.54	28.27	28.68	27.00
EDGE 1 Tx Wd		29.06	28.13	24.99	28.00	18.06	16.13	15.99	17.00
EDGE 2 Tx Wd		24.33	24.43	23.49	24.00	17.33	17.43	17.48	18.00
EDGE 3 Tx Wd		22.21	22.25	22.20	23.50	17.95	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
		VOCMA I (MHz)			VOCMA IV (MHz)				
	Base	VOCMA II			Limit	VOCMA IV			Limit
		862	860	858	Limit	1512	1483	1518	Limit
Frequency (MHz)		862	860	858	1500	1512	1483	1518	1500
OSM 1 Tx Wd		22.56	23.02	23.00	24.00	21.24	22.00	21.21	24.00
OPNS Rel (9)	RMG 12 2000	23.05	23.07	22.92	24.00	22.89	23.03	22.84	24.00
OPNS Rel (8)	RMG 12 2000	21.92	22.14	22.11	23.00	21.81	22.04	21.84	23.00
OPNS Rel (6)	HEIPA Subclass 2	22.84	22.17	21.92	23.00	21.83	22.07	21.84	23.00
OPNS Rel (5)	HEIPA Subclass 3	21.84	21.50	21.57	23.00	21.58	21.69	21.44	22.00
OPNS Rel (4)	HEIPA Subclass 4	21.48	21.60	21.60	22.00	21.43	21.60	21.50	22.00
OPNS Rel (3)	DC-HEIPA Subclass 1	22.08	22.17	21.98	23.00	21.90	22.00	21.90	23.00
OPNS Rel (2)	DC-HEIPA Subclass 2	21.90	22.13	22.18	23.00	21.81	22.07	22.07	23.00
OPNS Rel (1)	DC-HEIPA Subclass 3	21.37	21.57	21.48	22.00	21.28	21.46	21.34	22.00
OPNS Rel (0)	DC-HEIPA Subclass 4	21.61	21.50	21.44	22.00	21.50	21.45	21.51	22.00
OPNS Rel (-1)	HEIPA Subclass 1	22.88	22.31	21.97	23.00	22.04	22.24	21.84	23.00
OPNS Rel (-2)	HEIPA Subclass 2	22.23	22.14	22.17	23.00	22.28	22.00	22.04	23.00
OPNS Rel (-3)	HEIPA Subclass 3	21.20	21.00	21.03	22.00	21.10	20.90	20.90	22.00
OPNS Rel (-4)	HEIPA Subclass 4	18.98	20.25	20.22	21.00	19.84	20.10	20.08	21.00
OPNS Rel (-5)	HEIPA Subclass 5	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 (min)	MPE (dB)		
Channel										
1860 1860 1900										
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	22.38	22.44				
20	16QAM	50	24	22.38	22.37	22.31				
20	16QAM	50	50	22.32	22.36	22.31				
20	16QAM	100	0	22.38	22.49	22.32				
20	16QAM	1	0	22.29	22.47	22.31	24	0		
20	16QAM	1	49	22.29	22.29	22.29				
20	16QAM	50	0	22.28	22.48	22.29				
20	16QAM	50	24	22.28	22.34	22.34				
20	16QAM	50	50	22.26	22.46	22.28	24	0		
20	16QAM	100	0	22.42	22.46	22.38				
20	256QAM	1	49	19.47	19.69	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	19.36	19.43	19.36				
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	19.39	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	24	0		
15	QPSK	75	0	22.34	22.56	22.44				
15	QPSK	75	0	22.30	22.42	22.42				
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	29	22.12	22.27	22.28	24	0		
15	16QAM	36	39	22.17	22.39	22.27				
15	16QAM	75	0	22.26	22.44	22.27				
15	16QAM	1	0	22.17	22.37	22.21	24	0		
15	16QAM	1	37	22.14	22.31	22.24				
15	16QAM	36	0	22.14	22.31	22.24				
15	16QAM	36	29	22.03	22.20	22.17	24	0		
15	16QAM	36	39	22.03	22.20	22.17				
15	16QAM	75	0	22.06	22.44	22.23				
15	16QAM	1	0	22.09	22.39	22.25	24	0		
15	16QAM	1	37	22.04	22.36	22.24				
15	16QAM	36	0	22.01	22.11	22.11				
15	16QAM	36	0	21.93	21.76	21.85				
15	16QAM	36	29	21.84	21.96	21.93	24	0		
15	16QAM	36	39	21.35	21.49	21.52	22.5	1.4		
15	16QAM	75	0	21.44	21.49	21.46				
15	16QAM	1	0	21.38	21.56	21.39	24	0		
15	16QAM	1	37	21.50	21.80	21.56	20.5	3.4		
15	16QAM	1	74	19.48	19.52	19.55				
15	16QAM	36	0	19.52	19.56	19.52				
15	16QAM	36	29	19.57	19.51	19.50	20.5	3.4		
15	16QAM	36	39	19.45	19.49	19.54				
15	16QAM	75	0	19.52	19.51	19.52				
Channel										
1885 1890 1905										
10	QPSK	1	0	22.60	22.61	22.61				
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	22.50	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	50	0	22.30	22.36	22.36				
10	16QAM	1	0	22.28	22.49	22.37				
10	16QAM	1	24	22.24	22.33	22.30	24	0		
10	16QAM	12	0	22.27	22.40	22.34				
10	16QAM	12	12	22.16	22.23	22.22	24	0		
10	16QAM	50	0	22.25	22.43	22.29				
10	16QAM	1	0	22.21	22.43	22.16	24	0		
10	16QAM	1	24	22.17	22.38	22.18				
10	16QAM	1	49	22.13	22.22	22.13				
10	16QAM	25	0	22.23	22.45	22.21				
10	16QAM	25	25	22.00	22.29	22.20	24	0		
10	16QAM	50	0	22.37	22.34	22.25				
10	256QAM	1	24	19.38	19.43	19.42	21	3		
10	256QAM	1	49	19.37	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	3		
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	22.34	22.44	22.44				
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	22.43	22.32				
5	16QAM	1	0	22.31	22.45	22.33	24	0		
5	16QAM	1	12	22.31	22.42	22.28				
5	16QAM	12	0	22.19	22.33	22.29				
5	16QAM	12	0	22.33	22.46	22.32				
5	16QAM	12	7	22.24	22.23	22.28	24	0		
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	24	0		
5	16QAM	1	12	22.17	22.29	22.20				
5	16QAM	12	0	22.14	22.20	22.16				
5	16QAM	12	7	22.20	22.23	22.28	24	0		
5	16QAM	12	13	22.14	22.20	22.15				
5	16QAM	25	0	22.37	22.38	22.37				
5	256QAM	1	0	19.37	19.39	19.28	24	0		
5	256QAM	1	12	19.43	19.52	19.42				
5	256QAM	12	0	19.26	19.33	19.29				
5	256QAM	12	7	19.28	19.33	19.25	21	3		
5	256QAM	12	13	19.13	19.29	19.28				
5	256QAM	25	0	19.29	19.39	19.46				
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	22.48	22.44				
3	QPSK	8	4	22.39	22.42	22.43	24	0		
3	QPSK	8	7	22.36	22.33	22.34				
3	QPSK	15	0	22.34	22.46	22.42				
3	16QAM	1	0	22.32	22.53	22.41	24	0		
3	16QAM	1	8	22.28	22.36	22.33				
3	16QAM	1	14	22.19	22.26	22.20				
3	16QAM	8	0	22.28	22.43	22.34				
3	16QAM	8	4	22.31	22.31	22.27				
3	16QAM	8	7	22.22	22.27	22.23	24	0		
3	16QAM	15	0	22.34	22.44	22.28				
3	16QAM	1	0	22.23	22.49	22.20				
3	16QAM	1	8	22.22	22.38					



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)	MPE (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	24	0	22.40	22.56	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	22.26	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	22.38	22.33	22.38				
20	16QAM	50	0	21.45	21.56	21.45				
20	16QAM	50	24	21.38	21.36	21.36				
20	16QAM	50	24	21.38	21.33	21.34	23	1		
20	16QAM	100	0	21.59	21.64	21.57				
20	16QAM	1	0	19.47	19.62	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	22.66	22.65	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	24	0	22.30	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	22.38				
15	16QAM	1	0	21.34	21.52	21.34	24	0		
15	16QAM	1	74	21.22	21.24	21.13				
15	16QAM	36	0	21.34	21.52	21.34				
15	16QAM	36	20	21.31	21.38	21.38	23	1		
15	16QAM	36	36	21.18	21.18	21.24				
15	16QAM	75	0	21.62	21.68	21.64				
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	19.39	19.39	19.36				
15	16QAM	36	0	19.38	19.38	19.38				
15	16QAM	36	20	19.32	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	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				
10	QPSK	25	25	22.30	22.38	22.38	24	0		
10	QPSK	100	0	22.45	22.45	22.40				
10	16QAM	1	0	22.30	22.48	22.38				
10	16QAM	1	26	22.25	22.37	22.29	24	0		
10	16QAM	1	49	22.34	22.52	22.38				
10	16QAM	25	12	22.28	22.38	22.38				
10	16QAM	25	25	22.37	22.34	22.29	24	0		
10	16QAM	50	0	22.33	22.52	22.34				
10	16QAM	1	0	22.30	22.42	22.33				
10	16QAM	1	24	22.23	22.33	22.24	24	0		
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	19.39	19.59	19.44	21	3		
10	16QAM	1	49	19.35	19.35	19.35				
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	22.54	22.54	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	22.45	22.41				
5	QPSK	12	7	22.30	22.48	22.38				
5	QPSK	12	13	22.26	22.44	22.38	24	0		
5	QPSK	25	0	22.45	22.45	22.40				
5	16QAM	1	0	22.30	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				
5	16QAM	1	24	22.22	22.34	22.17	24	0		
5	16QAM	1	24	22.14	22.24	22.25				
5	16QAM	12	0	21.34	21.47	21.36				
5	16QAM	12	13	21.28	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	16QAM	25	12	21.52	21.67	21.46				
5	16QAM	25	12	19.38	19.52	19.38	21	3		
5	16QAM	25	25	19.31	19.36	19.31				
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	22.45	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				
3	16QAM	1	8	22.25	22.25	22.25	24	0		
3	16QAM	1	16	22.32	22.45	22.33				
3	16QAM	8	0	22.32	22.42	22.22				
3	16QAM	8	4	22.32	22.29	22.36	24	0		
3	16QAM	8	1	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				
3	16QAM	1	8	22.22	22.25	22.38	24	0		
3	16QAM	1	14	22.24	22.27	22.16				
3	16QAM	8	0	21.34	21.46	21.36				
3	16QAM	8	1	21.38	21.59	21.38				
3	16QAM	8	7	21.13	21.22	21.21				



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 time (dBm)	MPR (dB)		
Channel										
37850										
Frequency (MHz)										
20	QPSK	1	0	20.74	20.85	20.94	22.2	0		
20	QPSK	1	49	20.45	20.74	20.49				
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	20.83				
20	QPSK	100	0	20.70	20.73	20.52				
20	QPSK	100	49	20.76	20.83	20.78				
20	HQAM	1	0	20.72	20.78	20.81	22.2	0		
20	HQAM	1	49	20.77	20.78	20.89				
20	HQAM	1	99	20.77	20.83	20.86				
20	HQAM	50	24	20.41	20.85	20.30				
20	HQAM	50	49	20.45	20.84	20.52	22.2	0		
20	HQAM	100	0	20.69	20.80	20.50				
20	HQAM	100	49	20.63	20.73	20.81				
20	HQAM	1	49	20.66	20.71	20.85				
20	BQAM	1	0	20.57	20.75	20.56	22.2	0		
20	BQAM	1	49	20.29	20.51	20.50				
20	BQAM	50	24	20.29	20.49	20.41				
20	BQAM	100	0	20.48	20.59	20.56				
20	25QAM	1	0	19.81	19.82	19.87	20.5	1.7		
20	25QAM	1	49	19.81	19.82	19.81				
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	49	19.82	19.85	19.87				
20	25QAM	100	0	19.80	19.80	19.80				
20	25QAM	100	49	19.82	19.80	19.81				
Channel										
37850										
Frequency (MHz)										
15	QPSK	1	0	20.73	20.75	20.75	22.2	0		
15	QPSK	1	37	20.47	20.87	20.33				
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	20.62	20.88	20.46				
15	QPSK	75	0	20.68	20.52	20.50				
15	HQAM	1	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	20.53	20.33				
15	HQAM	36	39	20.44	20.47	20.31	22.2	0		
15	HQAM	75	0	20.60	20.83	20.46				
15	BQAM	1	0	20.42	20.68	20.49				
15	BQAM	1	37	20.84	20.57	20.59				
15	BQAM	1	74	20.57	20.73	20.41	22.2	0		
15	BQAM	36	0	20.44	20.88	20.44				
15	BQAM	36	20	20.17	20.48	20.39				
15	BQAM	36	39	20.46	20.88	20.49				
15	BQAM	75	0	20.43	20.53	20.32	20.5	1.7		
15	25QAM	1	0	19.75	19.85	19.75				
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										
37850										
Frequency (MHz)										
10	QPSK	1	0	20.74	20.80	20.80	22.2	0		
10	QPSK	1	25	20.26	20.86	20.26				
10	QPSK	1	49	20.35	20.34	20.43				
10	QPSK	12	0	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	12	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	20.43				
10	HQAM	25	25	20.30	20.33	20.18	22.2	0		
10	HQAM	50	0	20.52	20.56	20.37				
10	BQAM	1	0	20.37	20.84	20.87				
10	BQAM	1	25	20.58	20.49	20.42				
10	BQAM	1	49	20.48	20.56	20.40	22.2	0		
10	BQAM	25	0	20.34	20.52	20.63				
10	BQAM	25	12	20.21	20.49	20.27				
10	BQAM	25	25	20.27	20.21	20.14				
10	BQAM	50	0	20.26	20.87	20.25	22.2	0		
10	25QAM	1	0	19.73	19.91	19.75				
10	25QAM	1	25	19.74	19.88	19.72				
10	25QAM	1	49	19.87	19.84	19.75				
10	25QAM	25	0	19.76	19.95	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	19.94	20.05	19.85				
Channel										
37850										
Frequency (MHz)										
5	QPSK	1	0	20.44	20.48	20.21	22.2	0		
5	QPSK	1	12	20.30	20.47	20.27				
5	QPSK	1	24	20.35	20.21	20.34				
5	QPSK	12	0	20.39	20.46	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	20.88	20.38				
5	HQAM	12	0	20.34	20.24	20.28				
5	HQAM	12	7	20.51	20.32	20.49				
5	HQAM	12	13	20.22	20.14	20.11	22.2	0		
5	HQAM	25	0	20.41	20.81	20.38				
5	HQAM	1	0	20.07	20.46	20.52				
5	BQAM	1	12	20.41	20.36	20.31				
5	BQAM	1	24	20.49	20.47	20.41	22.2	0		
5	BQAM	12	0	20.19	20.89	20.61				
5	BQAM	12	7	20.00	20.41	20.12				
5	BQAM	12	13	20.19	20.14	20.03				
5	QPSK	25	0	20.15	20.28	20.18	22.2	0		
5	25QAM	1	0	19.87	19.80	19.81				
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				
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 time (dBm)	MPR (dB)		
Channel										
37850										
Frequency (MHz)										
20	QPSK	1	0	20.69	21.03	21.03	22.2	0		
20	QPSK	1	49	20.69	20.72	20.85				
20	QPSK	1	99	20.69	20.69	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	20.85	20.78	20.82				
20	QPSK	100	0	20.81	20.81	20.92				
20	QPSK	100	49	21.08	21.06	21.05				
20	HQAM	1	0	21.03	21.00	21.00	22.2	0		
20	HQAM	1	49	21.04	21.00	21.04				
20	HQAM	1	99	21.04	21.00	21.04				
20	HQAM	50	24	21.07	20.82	20.94				
20	HQAM	50	49	20.96	20.88	20.77	22	0.2		
20	HQAM	100	0	20.96	20.66	21.04				
20	HQAM	100	49	21.02	20.85	21.02				
20	HQAM	1	49	20.99	20.82	20.87				
20	BQAM	1	0	20.84	20.76	20.85	22	0.2		
20	BQAM	1	49	20.84	20.70	20.86				
20	BQAM	50	24	20.58	20.60	20.76				
20	BQAM	100	0	20.87	20.71	20.81				
20	25QAM	1	0	18.42	18.31	18.52	19	3.2		
20	25QAM	1	49	18.36	18.35	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</						



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



Reduced Power Mode for DSI3-Simultaneous

	Default Unit	Default			Default			Default		
		15W	18W	20W	Turn-up Limit (dBm)	15W	18W	20W	Turn-up Limit (dBm)	
TX Channel		15W	18W	20W	15W	18W	20W	15W	18W	20W
Frequency (MHz)		32.5	32.5	32.5	33.0	33.0	33.0	33.0	33.0	33.0
OPRS 1 Tx.lev		32.83	32.94	32.91	33.50	33.83	33.94	33.91	34.50	34.50
OPRS 2 Tx.lev		28.30	28.41	28.36	30.00	29.30	29.41	29.36	24.00	24.00
OPRS 3 Tx.lev		28.91	28.60	28.86	30.00	24.65	24.72	24.60	25.74	25.74
OPRS 4 Tx.lev		26.41	26.41	26.40	27.50	23.41	23.41	23.40	24.00	24.00
EDGE 1 Tx.lev		25.42	25.40	25.37	26.50	18.42	18.40	18.37	17.50	17.50
EDGE 2 Tx.lev		23.77	23.80	23.79	25.00	17.77	17.80	17.79	19.00	19.00
EDGE 3 Tx.lev		22.86	22.80	22.82	23.50	18.40	18.40	18.38	19.24	19.24
EDGE 4 Tx.lev		20.00	20.00	20.00	21.50	17.50	17.63	17.60	18.50	18.50

  

	Default Unit	Default			Default			Default		
		15W	18W	18W.9	Turn-up Limit (dBm)	15W	18W	18W.9	Turn-up Limit (dBm)	
TX Channel		15W	18W	18W.9	15W	18W	18W.9	15W	18W	18W.9
Frequency (MHz)		180.2	180.2	180.9	180.2	180.2	180.9	180.2	180.2	180.9
OSM 1 Tx.lev		27.61	27.66	27.57	28.50	18.61	18.66	18.57	19.50	19.50
OPRS 1 Tx.lev		27.54	27.61	27.56	28.50	18.54	18.61	18.56	19.50	19.50
OPRS 2 Tx.lev		24.84	24.84	24.83	26.00	18.84	18.84	18.83	20.00	20.00
OPRS 3 Tx.lev		26.30	26.30	26.30	24.00	18.07	18.07	18.07	20.00	20.00
OPRS 4 Tx.lev		26.70	26.70	26.68	21.50	17.70	17.75	17.68	18.50	18.50
EDGE 1 Tx.lev		22.70	22.67	22.73	23.50	15.70	15.80	15.73	14.50	14.50
EDGE 2 Tx.lev		21.00	21.10	21.11	22.00	15.00	15.10	15.11	16.00	16.00
EDGE 3 Tx.lev		20.00	20.12	20.04	21.00	15.81	15.66	15.78	16.74	16.74
EDGE 4 Tx.lev		17.50	18.00	18.04	19.00	14.90	15.00	15.04	16.00	16.00

  

	Unit	Default WCDMA V Avc1			Default WCDMA V Avc2			Default WCDMA V Avc3		
		15W	18W	18W.9	Turn-up Limit (dBm)	15W	18W	18W.9	Turn-up Limit (dBm)	
TX Channel		15W	18W	18W.9	15W	18W	18W.9	15W	18W	18W.9
Frequency (MHz)		1802.4	1802.4	1802.4	1812.4	1812.4	1812.4	1812.4	1812.4	1812.4
SCPP Ref #1	AMR 12.7kbps	20.57	20.65	20.53	22.00	20.30	20.47	20.38	22.00	22.43
SCPP Ref #2	AMR 12.7kps	20.60	20.60	20.57	22.00	20.45	20.51	20.41	22.00	22.46
SCPP Ref #3	HRPA Subclass 1	19.72	19.73	19.70	21.00	19.59	19.66	19.50	21.00	21.55
SCPP Ref #4	HRPA Subclass 2	19.66	19.74	19.66	21.00	19.49	19.56	19.39	21.00	21.46
SCPP Ref #5	HRPA Subclass 3	19.19	19.24	19.23	20.00	19.00	19.11	19.08	20.00	21.00
SCPP Ref #6	HRPA Subclass 4	19.15	19.20	19.21	20.00	19.96	19.18	19.03	20.00	20.98
SCPP Ref #7	DCH/HRPA Subclass 1	19.70	19.82	19.84	21.00	19.54	19.68	19.46	21.00	21.50
SCPP Ref #8	DCH/HRPA Subclass 2	19.56	19.59	19.41	21.00	19.38	19.40	19.32	21.00	21.34
SCPP Ref #9	DCH/HRPA Subclass 3	19.50	19.72	19.50	20.00	19.50	19.51	19.50	20.00	20.00
SCPP Ref #10	DCH/HRPA Subclass 4	19.52	19.10	19.12	20.00	18.90	18.99	19.01	20.00	20.80
SCPP Ref #11	HRPA Subclass 1	19.86	19.74	19.70	21.00	19.55	19.63	19.61	21.00	21.61
SCPP Ref #12	HRPA Subclass 2	17.71	17.70	17.64	19.00	17.64	17.60	17.51	19.00	19.97
SCPP Ref #13	HRPA Subclass 3	18.65	18.73	18.70	20.00	18.52	18.58	18.58	20.00	20.52
SCPP Ref #14	HRPA Subclass 4	17.61	17.68	17.67	19.00	17.44	17.61	17.48	19.00	19.46
SCPP Ref #15	HRPA Subclass 5	19.84	19.60	19.52	21.00	19.53	19.48	19.38	21.00	21.55



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. 1 Freq.	Ch. 2 Freq.	Ch. 3 Freq.	Ch. 1 Freq.	Ch. 2 Freq.	Ch. 3 Freq.	Ch. 1 Freq.	Ch. 2 Freq.	Ch. 3 Freq.	MPR (dB)
20	QPSK	1	0	23.11	23.12	23.07				
20	QPSK	1	49	22.83	22.83	22.83				
20	QPSK	1	99	23.09	23.07	22.97				
20	QPSK	50	0	23.38	23.13	23.05				
20	QPSK	50	24	23.34	23.04	22.95				
20	QPSK	50	50	23.32	23.04	22.96				
20	QPSK	100	0	23.39	23.02	22.91				
20	QPSK	100	24	23.35	22.99	22.88				
20	QPSK	100	50	23.35	22.98	22.90				
20	QPSK	150	0	23.37	22.85	22.74				
20	QPSK	150	24	23.34	22.48	22.34				
20	QPSK	150	50	23.35	22.42	22.27				
20	QPSK	150	75	23.39	22.47	22.47				
20	QPSK	150	100	23.32	22.42	22.27				
20	QPSK	150	125	23.32	22.42	22.27				
20	QPSK	150	150	23.32	22.42	22.27				
20	QPSK	150	175	23.32	22.42	22.27				
20	QPSK	150	200	23.32	22.42	22.27				
20	QPSK	150	225	23.32	22.42	22.27				
20	QPSK	150	250	23.32	22.42	22.27				
20	QPSK	150	275	23.32	22.42	22.27				
20	QPSK	150	300	23.32	22.42	22.27				
20	QPSK	150	325	23.32	22.42	22.27				
20	QPSK	150	350	23.32	22.42	22.27				
20	QPSK	150	375	23.32	22.42	22.27				
20	QPSK	150	400	23.32	22.42	22.27				
20	QPSK	150	425	23.32	22.42	22.27				
20	QPSK	150	450	23.32	22.42	22.27				
20	QPSK	150	475	23.32	22.42	22.27				
20	QPSK	150	500	23.32	22.42	22.27				
20	QPSK	150	525	23.32	22.42	22.27				
20	QPSK	150	550	23.32	22.42	22.27				
20	QPSK	150	575	23.32	22.42	22.27				
20	QPSK	150	600	23.32	22.42	22.27				
20	QPSK	150	625	23.32	22.42	22.27				
20	QPSK	150	650	23.32	22.42	22.27				
20	QPSK	150	675	23.32	22.42	22.27				
20	QPSK	150	700	23.32	22.42	22.27				
20	QPSK	150	725	23.32	22.42	22.27				
20	QPSK	150	750	23.32	22.42	22.27				
20	QPSK	150	775	23.32	22.42	22.27				
20	QPSK	150	800	23.32	22.42	22.27				
20	QPSK	150	825	23.32	22.42	22.27				
20	QPSK	150	850	23.32	22.42	22.27				
20	QPSK	150	875	23.32	22.42	22.27				
20	QPSK	150	900	23.32	22.42	22.27				
20	QPSK	150	925	23.32	22.42	22.27				
20	QPSK	150	950	23.32	22.42	22.27				
20	QPSK	150	975	23.32	22.42	22.27				
20	QPSK	150	1000	23.32	22.42	22.27				

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. 1 Freq.	Ch. 2 Freq.	Ch. 3 Freq.	Ch. 1 Freq.	Ch. 2 Freq.	Ch. 3 Freq.	Ch. 1 Freq.	Ch. 2 Freq.	Ch. 3 Freq.	MPR (dB)
20	QPSK	1	0	21.17	21.23	21.06				
20	QPSK	1	49	21.17	21.23	21.06				
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	20.91	20.83				
20	QPSK	50	50	20.98	20.97	21.04				
20	QPSK	100	0	20.96	21.08	20.81				
20	QPSK	100	24	20.98	21.09	20.97				
20	QPSK	100	50	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	50	20.98	21.02	20.85				
20	QPSK	150	75	20.98	20.97	20.93				
20	QPSK	150	100	20.83	21.01	20.89				
20	QPSK	150	125	20.89	20.97	20.83				
20	QPSK	150	150	21.00	21.10	20.93				
20	QPSK	150	175	20.91	21.04	20.82				
20	QPSK	150	200	20.98	20.99	20.88				
20	QPSK	150	225	20.92	21.09	20.93				
20	QPSK	150	250	20.91	20.97	20.85				
20	QPSK	150	275	20.98	20.98	20.85				
20	QPSK	150	300	20.91	20.97	20.84				
20	QPSK	150	325	20.98	20.97	20.85				
20	QPSK	150	350	20.91	20.97	20.84				
20	QPSK	150	375	20.98	20.97	20.85				
20	QPSK	150	400	20.91	20.97	20.84				
20	QPSK	150	425	20.98	20.97	20.85				
20	QPSK	150	450	20.91	20.97	20.84				
20	QPSK	150	475	20.98	20.97	20.85				
20	QPSK	150	500	20.91	20.97	20.84				
20	QPSK	150	525	20.98	20.97	20.85				
20	QPSK	150	550	20.91	20.97	20.84				
20	QPSK	150	575	20.98	20.97	20.85				
20	QPSK	150	600	20.91	20.97	20.84				
20	QPSK	150	625	20.98	20.97	20.85				
20	QPSK	150	650	20.91	20.97	20.84				
20	QPSK	150	675	20.98	20.97	20.85				
20	QPSK	150	700	20.91	20.97	20.84				
20	QPSK	150	725	20.98	20.97	20.85				
20	QPSK	150	750	20.91	20.97	20.84				
20	QPSK	150	775	20.98	20.97	20.85				
20	QPSK	150	800	20.91	20.97	20.84				
20	QPSK	150	825	20.98	20.97	20.85				
20	QPSK	150	850	20.91	20.97	20.84				
20	QPSK	150	875	20.98	20.97	20.85				
20	QPSK	150	900	20.91	20.97	20.84				
20	QPSK	150	925	20.98	20.97	20.85				
20	QPSK	150	950	20.91	20.97	20.84				
20	QPSK	150	975	20.98	20.97	20.85				
20	QPSK	150	1000	20.91	20.97	20.84				

Band 5 Default Ant 0										
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.	Ch. 1 Freq.	Ch. 2 Freq.	Ch. 3 Freq.	Ch. 1 Freq.	Ch. 2 Freq.	Ch. 3 Freq.	MPR (dB)
10	QPSK	1	0	22.52	22.57	22.48				
10	QPSK	1	25	22.51	22.51	22.51				
10	QPSK	1	49	22.31	22.33	22.22				
10	QPSK	25	0	22.37	22.54	22.41				
10	QPSK	25	12	22.29	22.47	22.33				
10	QPSK	25	25	22.30	22.37	22.27				
10	QPSK	50	0	22.31	22.49	22.36				
10	QPSK	50	12	22.29	22.47	22.33				
10	QPSK	50	25	22.31	22.35	22.24				
10	QPSK	100	0	22.33	22.28	22.26				
10	QPSK	100	12	22.31	22.45	22.33				
10	QPSK	100	25	22.27	22.23	22.23				
10	QPSK	150	0	22.29	22.43	22.29				
10	QPSK	150	12	22.21	22.23	22.23				
10	QPSK	150	25	22.29	22.28	22.26				
10	QPSK	150	37	22.29	22.28	22.26				
10	QPSK	150	50	22.29	22.28	22.26				
10	QPSK	150	62	22.29	22.28	22.26				
10	QPSK	150	75	22.29	22.28	22.26				
10	QPSK	150	87	22.29	22.28	22.26				
10	QPSK	150	100	22.29	22.28	22.26				
10	QPSK	150</								







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	22.95	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	19.81				
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	22.96	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	21.65				
15	HQAM	36	20	21.73	21.68	21.67	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	19.85	19.81				
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	19.81				
15	SSQAM	50	24	19.69	19.87	19.60	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	25	22.84	22.85	22.71				
10	HQAM	1	0	22.87	22.98	22.79				
10	HQAM	1	49	22.80	22.95	22.83	24	0		
10	HQAM	1	25	22.81	22.91	22.88				
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	22.85				
10	HQAM	1	49	22.72	22.76	22.71				
10	HQAM	25	0	21.79	21.84	21.88				
10	HQAM	25	12	21.78	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				
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	22.96				
5	QPSK	12	7	22.89	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	24	0		
5	HQAM	1	12	22.88	22.90	22.87				
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	22.66				
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	22.91				
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	24	0		
3	HQAM	1	8	22.89	22.86	22.87				
3	HQAM	1	14	22.77	22.75	22.66				
3	HQAM	8	0	22.65	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	1	8							





### 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								
Frequency (MHz)				38750	38900	38150		
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	19.84		
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	24	19.77	19.89	19.76		
20	HQAM	50	24	19.73	19.85	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	19.57		
20	HQAM	1	49	19.81	19.84	19.78	20.6	0
20	HQAM	1	99	19.83	19.90	19.95		
20	HQAM	50	24	19.85	19.90	19.89		
20	HQAM	50	50	19.82	19.86	19.83	20.5	0.1
20	HQAM	100	0	19.85	19.88	19.79		
20	SSBAM	1	0	17.91	18.08	17.94		
20	SSBAM	1	49	17.90	17.92	17.94	19.5	1.1
20	SSBAM	1	99	17.86	17.85	17.87		
20	SSBAM	50	24	17.90	17.95	17.91		
20	SSBAM	50	24	17.90	17.95	17.90	19.5	1.1
20	SSBAM	50	50	17.77	17.87	17.81		
20	SSBAM	100	0	17.89	18.03	17.94		
Channel								
Frequency (MHz)				21623	21600	21715	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	20.99	20.95	20.74		
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	20	19.76	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	19.67		
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	20	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	19.66	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	20	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	17.79	17.82	17.72		
15	SSBAM	36	20	17.83	18.00	17.92		
15	SSBAM	36	20	17.82	17.89	17.88	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)				23173	23150	23275	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	19.83	19.87	19.67		
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	25	12	19.87	19.92	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	19.98		
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	19.89		
10	HQAM	1	0	19.83	19.74	19.67		
10	HQAM	1	25	19.81	19.80	19.71	20.6	0
10	HQAM	1	49	19.67	19.86	19.79		
10	HQAM	25	0	19.81	20.00	19.81		
10	HQAM	25	12	19.71	19.85	19.78		
10	HQAM	25	25	19.74	19.71	19.75	20.5	0.1
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)				25173	25150	25275	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	QPSK	25	0	19.68	19.82	19.67		
5	HQAM	1	0	19.84	19.86	19.70		
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	19.89	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	19.86		
5	HQAM	25	0	19.68	19.76	19.66		
5	HQAM	25	0	19.64	19.88	19.81	20.6	0
5	HQAM	1	12	19.77	19.69	19.70		
5	HQAM	1	24	19.46	19.83	19.74		
5	HQAM	12	0	19.78	19.89	19.81		
5	HQAM	12	7	19.75	19.78	19.71	20.5	0.1
5	HQAM	25	0	19.66	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	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39750	40186	40600	41066	41460		
20	QPSK	1	0	19.93	19.93	19.93	19.93	19.93		
20	QPSK	1	49	19.37	19.52	19.52	19.52	19.46	20.6	0
20	QPSK	1	99	19.28	19.22	19.49	19.32	19.31		
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	20.6	0
20	QPSK	50	24	19.31	19.32	19.31	19.14	19.18		
20	QPSK	100	0	19.29	19.43	19.50	19.35	19.32		
20	HQAM	1	0	19.57	19.33	19.44	19.03	19.20	20.6	0
20	HQAM	1	49	19.36	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	19.32	19.45	19.33		
20	HQAM	50	24	19.15	19.25	19.38	19.04	19.20	20.6	0
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	49	19.41	19.51	19.52	19.52	19.30		
20	HQAM	1	99	19.36	19.50	19.47	19.14	19.37	20.6	0
20	HQAM	1	99	19.35	19.21	19.29	19.11	19.08		
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	20.6	0
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	19.5	1.1
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	19.5	1.1
20	SSBAM	50	50	18.12	18.05	18.20	18.00	18.10		
20	SSBAM	100	0	18.14	18.08	18.10	18.07	18.07		
Channel										
Frequency (MHz)				39750	40173	40600	41066	41460	Tune-up limit (dBm)	MPR (dB)
16	QPSK	1	0	20.01	20.03	20.03	20.17	20.02		
16	QPSK	1	37	19.82	19.45	19.41	19.21	19.39	20.6	0
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	20.6	0
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	19.20	20.6	0
16	HQAM	1	37	19.00	19.05	19.12	18.92	19.08		
16	HQAM	1	74	19.00	19.00	19.20	19.00	18.99		
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	20.6	0
16	HQAM	36	39	19.04	19.13	19.19	18.95	19.01		
16	HQAM	75	0	19.00	19.13					



Band 41 PC2 FCC&IC DS13_Simultaneous Ant 0											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low+Mid Ch / Freq	Power High Ch / Freq	Power High+Mid Ch / Freq	Power High Ch / Freq	Power High+Mid Ch / Freq	Turn-up Int (dBm)	MPR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	20.96	20.96	21.03	21.03	20.96	20.96	22.2	0
20	QPSK	1	49	20.96	21.06	20.94	21.02	21.01	21.01		
20	QPSK	50	0	20.96	20.96	21.07	20.98	20.94	20.94		
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	20.96	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	21.00	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	100	0	20.96	20.96	20.96	20.94	20.72	20.72		
20	64QAM	1	0	21.07	21.02	21.04	20.92	20.91	20.91	22.2	0
20	64QAM	1	49	20.80	20.80	20.94	20.93	20.78	20.78		
20	64QAM	1	99	20.76	20.86	20.83	20.79	20.70	20.70		
20	64QAM	50	0	20.59	20.59	20.89	20.86	20.48	20.48	22.2	0
20	64QAM	50	24	20.69	20.65	20.74	20.62	20.56	20.56		
20	64QAM	100	0	20.58	20.83	20.79	20.77	20.56	20.56		
20	256QAM	1	0	20.76	20.68	20.94	20.70	20.53	20.53	22	0.2
20	256QAM	1	49	20.71	20.81	20.91	20.80	20.59	20.59		
20	256QAM	1	99	20.58	20.65	20.70	20.62	20.63	20.63		
20	256QAM	50	0	20.59	20.59	20.89	20.86	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	100	0	20.40	20.46	20.53	20.47	20.32	20.32		
20	256QAM	100	0	20.52	20.51	20.52	20.51	20.52	20.52		
Channel											
Frequency (MHz)											
15	QPSK	1	0	20.83	20.83	21.02	20.80	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	20.90	20.90	21.00	20.84	20.73	20.73	22.2	0
15	QPSK	36	20	20.79	20.76	20.91	20.74	20.51	20.51		
15	QPSK	75	0	20.77	20.77	20.89	20.77	20.56	20.56		
15	16QAM	1	0	21.01	20.84	21.02	20.80	20.86	20.86	22.2	0
15	16QAM	1	37	20.90	20.90	20.92	20.79	20.71	20.71		
15	16QAM	1	74	20.97	21.00	20.87	20.84	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	20.88	20.87	20.75	20.72	20.72		
15	16QAM	36	59	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	20.88	20.89	20.84	20.86	20.86	22.2	0
15	64QAM	36	20	20.52	20.55	20.71	20.54	20.36	20.36		
15	64QAM	36	59	20.57	20.57	20.73	20.45	20.38	20.38		
15	64QAM	75	0	20.52	20.58	20.73	20.55	20.40	20.40	22	0.2
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	20.51	20.51		
15	256QAM	1	74	20.50	20.52	20.59	20.48	20.54	20.54		
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	20.29	20.29		
15	256QAM	36	59	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	20.67	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	20.69	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	20.84	20.66	20.72	20.72	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	50	0	20.87	20.80	21.04	20.82	20.82	20.82	22.2	0
10	64QAM	1	0	20.84	20.80	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	20.88	20.58	20.58	22.2	0
10	64QAM	25	0	20.63	20.69	20.66	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	20.53	20.53		
10	256QAM	25	0	20.57	20.45	20.68	20.53	20.37	20.37	22	0.2
10	256QAM	25	12	20.54	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		
10	256QAM	50	0	20.53	20.48	20.61	20.33	20.39	20.39	22	0.2
Channel											
Frequency (MHz)											
5	QPSK	1	0	20.85	20.85	20.85	20.75	20.72	20.72	22.20	0
5	QPSK	1	19	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	20.80	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	20.76	20.55	20.55	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	20.87	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	20.81	20.66	20.66		
5	16QAM	25	0	20.99	20.90	21.10	20.81	20.68	20.68	22.2	0
5	64QAM	1	0	20.86	20.80	20.94	20.80	20.83	20.83		
5	64QAM	1	12	20.77	20.80	20.87	20.80	20.62	20.62	22.2	0
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	20.45	22	0.2
5	256QAM	1	12	20.80	20.62	20.87	20.76	20.51	20.51		



DCM900 Aet		DCM900															
		Base-Average Power (dBm)			Tx-UP			Frame-Average Power (dBm)			Tx-UP						
		198	199	201	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)	89.2	89.4	89.6	(dBm)				
	DCM 1 Tx-Use	31.42	31.48	31.36	32.50	22.42	22.48	22.36	23.50								
	OPRS 1 Tx-Use	31.38	31.44	31.33	32.40	22.39	22.45	22.33	23.40								
	OPRS 2 Tx-Use	29.27	29.30	29.32	29.50	22.27	22.29	22.30	23.50								
	OPRS 3 Tx-Use	26.80	26.91	26.80	28.00	22.34	22.55	22.44	23.74								
	OPRS 4 Tx-Use	25.16	25.22	25.17	26.00	22.16	22.22	22.17	23.00								
	EDGE 1 Tx-Use	24.00	24.17	24.05	25.00	18.03	18.17	18.05	18.50								
	EDGE 2 Tx-Use	22.20	22.41	22.34	23.00	16.20	16.41	16.34	17.00								
	EDGE 3 Tx-Use	21.15	21.21	21.08	22.00	15.89	16.07	15.82	17.74								
	EDGE 4 Tx-Use	18.50	18.50	18.53	20.00	15.99	16.08	16.01	17.00								
DCM900 Aet		DCM900															
		Base-Average Power (dBm)			Tx-UP			Frame-Average Power (dBm)			Tx-UP						
		189.2	189	189.8	Limit	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)	189.2	189	189.8	(dBm)				
	DCM 1 Tx-Use	21.50	21.50	21.52	22.50	13.50	13.51	13.52	15.50								
	OPRS 1 Tx-Use	22.52	22.52	22.52	28.50	18.52	18.67	18.67	19.50								
	OPRS 2 Tx-Use	20.06	20.00	24.98	28.00	19.06	19.00	18.98	20.00								
	OPRS 3 Tx-Use	20.36	20.42	20.32	26.50	19.10	19.18	19.06	20.24								
	OPRS 4 Tx-Use	20.62	20.74	20.63	21.50	17.62	17.74	17.63	18.50								
	EDGE 1 Tx-Use	12.76	12.86	12.72	13.50	13.76	13.86	13.72	14.50								
	EDGE 2 Tx-Use	21.13	21.22	21.13	22.00	15.13	15.22	15.13	16.00								
	EDGE 3 Tx-Use	14.82	14.96	14.82	17.00	13.82	13.96	13.82	18.74								
	EDGE 4 Tx-Use	17.01	18.00	17.07	19.00	14.91	15.00	14.97	16.00								
Default WCDMA II Aet		Default WCDMA II Aet								Default WCDMA II Aet							
		1982-4			1982-4			1982-4			1982-4			1982-4			
	Base	1982	1980	1988	Limit	1982	1980	1988	Limit	1982	1980	1988	Limit	1982	1980	1988	Limit
	TX Channel	1982	1980	1988	(dBm)	1982	1980	1988	(dBm)	1982	1980	1988	(dBm)	1982	1980	1988	(dBm)
	DCM 1 Tx-Use	21.46	21.52	21.44	22.50	21.42	21.44	21.31	22.40	21.14	21.17	21.04	23.00				
	OPRS 1 Tx-Use	21.48	21.51	21.51	23.50	21.45	21.45	21.37	22.40	21.17	21.17	21.00	23.00				
	OPRS 2 Tx-Use	20.55	20.64	20.47	21.50	20.46	20.57	20.32	21.40	20.23	20.23	20.00	22.00				
	OPRS 3 Tx-Use	20.48	20.51	20.52	21.50	20.42	20.50	20.41	21.40	20.12	20.12	20.17	22.00				
	OPRS 4 Tx-Use	20.02	20.14	20.10	21.00	19.91	20.02	19.95	20.90	19.67	19.70	19.69	21.50				
	EDGE 1 Tx-Use	18.56	18.18	18.36	21.00	18.57	18.31	18.54	20.00	18.56	18.29	18.48	21.50				
	EDGE 2 Tx-Use	20.50	20.70	20.45	21.50	20.46	20.63	20.35	21.40	20.21	20.32	20.01	22.00				
	EDGE 3 Tx-Use	20.37	20.42	20.36	21.50	20.33	20.29	20.28	21.40	20.08	20.08	19.84	22.00				
	EDGE 4 Tx-Use	19.00	19.90	19.92	21.00	19.94	19.84	19.86	20.00	19.90	19.98	19.95	21.50				
	OPRS 1 Tx-Use	19.87	19.84	19.89	21.00	19.82	19.80	19.83	20.00	19.49	19.47	19.64	21.50				
	OPRS 2 Tx-Use	20.96	20.81	20.80	21.50	20.43	20.38	20.56	21.40	20.10	20.22	20.28	22.00				
	OPRS 3 Tx-Use	18.53	18.67	18.52	19.50	18.42	18.53	18.39	19.40	18.09	18.19	18.13	20.00				
	OPRS 4 Tx-Use	18.20	18.48	18.36	20.00	18.43	18.31	18.47	20.00	18.18	18.36	18.16	21.50				
	EDGE 1 Tx-Use	18.46	18.48	18.44	19.50	18.37	18.45	18.35	19.40	18.04	18.14	18.03	20.00				
	EDGE 2 Tx-Use	20.59	20.40	20.39	21.50	20.50	20.36	20.33	21.40	20.21	20.03	20.08	22.00				



Band 2 Default Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power Ch./Freq.	Power Ch./Freq.	Turn-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)				1860	1860	1900				
20	QPSK	1	0	20.60	21.50	20.60			22	0
20	QPSK	1	4	20.74	20.98	20.60				
20	QPSK	1	9	20.88	20.39	20.60				
20	QPSK	50	0	20.60	21.54	20.60				
20	QPSK	50	4	20.69	20.87	20.60				
20	QPSK	50	9	20.88	20.32	20.60			22	0
20	QPSK	100	0	20.60	20.98	20.60				
20	QPSK	100	4	20.69	20.89	20.60				
20	16QAM	1	49	20.77	20.83	20.87			22	0
20	16QAM	1	99	20.69	20.73	20.77				
20	16QAM	50	0	20.69	20.74	20.89				
20	16QAM	50	24	20.72	20.85	20.89			21.5	0.5
20	16QAM	100	0	20.72	20.79	20.89				
20	16QAM	100	24	20.79	20.85	20.87				
20	64QAM	1	0	20.71	20.80	20.71				
20	64QAM	1	49	20.67	20.78	20.72			21.5	0.5
20	64QAM	50	0	20.67	20.74	20.89				
20	64QAM	50	24	20.74	20.83	20.89				
20	64QAM	100	0	20.74	20.83	20.89				
20	64QAM	100	24	20.81	20.87	20.89			20.5	1.5
20	256QAM	1	49	17.87	17.99	17.89			18.5	3.5
20	256QAM	1	99	17.82	17.88	17.81				
20	256QAM	50	0	17.81	17.92	17.89				
20	256QAM	50	24	17.73	17.83	17.89			18.5	3.5
20	256QAM	100	0	17.75	17.81	17.89				
20	256QAM	100	24	17.73	17.83	17.89				
Channel										
Frequency (MHz)				1865	1860	1925				
15	QPSK	1	0	20.86	21.02	20.86			22	0
15	QPSK	1	37	20.73	20.99	20.86				
15	QPSK	1	74	20.73	21.00	20.86				
15	QPSK	36	0	20.83	21.03	20.87			22	0
15	QPSK	36	24	20.79	20.91	20.87				
15	QPSK	36	36	20.80	20.83	20.73				
15	QPSK	75	0	20.80	20.96	20.73				
15	QPSK	75	0	20.75	20.91	20.87				
15	16QAM	1	37	20.78	20.78	20.84			22	0
15	16QAM	1	74	20.80	20.80	20.84				
15	16QAM	36	0	20.72	20.81	20.87				
15	16QAM	36	20	20.84	20.84	20.89			21.5	0.5
15	16QAM	75	0	20.80	20.80	20.89				
15	16QAM	75	0	20.73	20.83	20.78				
15	64QAM	1	0	20.70	20.72	20.87			21.5	0.5
15	64QAM	1	37	20.86	20.79	20.87				
15	64QAM	1	74	20.80	20.89	20.85				
15	64QAM	36	0	20.82	20.88	20.84				
15	64QAM	36	20	20.86	20.86	20.89			20.5	1.5
15	64QAM	75	0	20.86	20.86	20.89				
15	64QAM	75	0	20.73	20.83	20.78				
15	256QAM	1	37	17.84	17.89	17.89			18.5	3.5
15	256QAM	1	74	17.84	17.89	17.89				
15	256QAM	36	0	17.82	17.85	17.89			18.5	3.5
15	256QAM	36	20	17.73	17.82	17.89				
15	256QAM	75	0	17.82	17.82	17.89			18.5	3.5
15	256QAM	75	0	17.75	17.82	17.89				
Channel										
Frequency (MHz)				1865	1860	1925				
10	QPSK	1	0	20.84	20.84	20.79			22	0
10	QPSK	1	25	20.70	20.95	20.82				
10	QPSK	1	49	20.71	20.94	20.82				
10	QPSK	36	0	20.84	20.84	20.82			22	0
10	QPSK	36	12	20.84	20.95	20.84				
10	QPSK	36	25	20.84	20.93	20.78				
10	QPSK	75	0	20.85	20.91	20.87				
10	16QAM	1	25	20.79	20.95	20.74			22	0
10	16QAM	1	50	20.78	20.74	20.85				
10	16QAM	36	0	20.80	20.80	20.89				
10	16QAM	36	12	20.83	20.89	20.76			21.5	0.5
10	16QAM	75	0	20.83	20.89	20.86				
10	16QAM	75	0	20.73	20.87	20.77				
10	64QAM	1	25	20.80	20.80	20.89			21.5	0.5
10	64QAM	1	50	20.85	20.85	20.89				
10	64QAM	36	0	20.85	20.88	20.87				
10	64QAM	36	12	20.86	20.86	20.89			20.5	1.5
10	64QAM	75	0	20.86	20.86	20.89				
10	64QAM	75	0	20.73	20.83	20.78				
10	256QAM	1	25	17.81	17.82	17.89			18.5	3.5
10	256QAM	1	50	17.81	17.82	17.89				
10	256QAM	36	0	17.82	17.82	17.89			18.5	3.5
10	256QAM	36	12	17.81	17.82	17.89				
10	256QAM	75	0	17.82	17.82	17.89			18.5	3.5
10	256QAM	75	0	17.75	17.82	17.89				
Channel										
Frequency (MHz)				1865	1860	1925				
5	QPSK	1	0	20.83	20.83	20.78			22	0
5	QPSK	1	12	20.65	20.91	20.82				
5	QPSK	1	24	20.72	21.01	20.82				
5	QPSK	36	0	20.83	20.83	20.82			22	0
5	QPSK	36	12	20.87	20.84	20.86				
5	QPSK	36	24	20.87	20.84	20.86				
5	QPSK	75	0	20.78	20.90	20.78				
5	16QAM	1	12	20.73	20.74	20.79			22	0
5	16QAM	1	24	20.82	20.87	20.82				
5	16QAM	12	0	20.83	20.83	20.78				
5	16QAM	12	7	20.71	20.79	20.64			21.5	0.5
5	16QAM	36	0	20.81	20.78	20.82				
5	16QAM	36	0	20.81	20.78	20.82			21.5	0.5
5	16QAM	75	0	20.73	20.78	20.78				
5	16QAM	75	0	20.65	20.76	20.62			21.5	0.5
5	64QAM	1	12	20.80	20.88	20.83				
5	64QAM	12	0	20.81	20.82	20.86				
5	64QAM	12	7	20.81	20.82	20.86			20.5	1.5
5	64QAM	36	0	20.81	20.82	20.86				
5	64QAM	36	0	20.73	20.78	20.78				
5	64QAM	75	0	20.81	20.82	20.86				
5	64QAM	75	0	20.73	20.78	20.78				
5	256QAM	1	12	17.79	17.86	17.89			18.5	3.5
5	256QAM	1	24	17.78	17.78	17.89				
5	256QAM	36	0	17.81	17.83	17.89			18.5	3.5
5	256QAM	36	12	17.81	17.83	17.89				
5	256QAM	75	0	17.81	17.83	17.89			18.5	3.5
5	256QAM	75	0	17.75	17.78	17.89				
Channel										
Frequency (MHz)				1865	1860	1925				
3	QPSK	1	0	20.81	21.00	20.81			22	0
3	QPSK	1	14	20.70	20.93	20.83				
3	QPSK	36	0	20.81	20.81	20.84			22	0
3	QPSK	36	4	20.82	21.00	20.88				
3	QPSK	36	7	20.80	20.87	20.78				
3	QPSK	75	0	20.84	20.88	20.84				
3	16QAM	1	0	20.82	20.84	20.71			22	0
3	16QAM	1	8	20.72	20.75	20.77				
3	16QAM	36	0	20.85	20.88	20.87				
3	16QAM	36	8	20.74	20.88	20.78			21.5	0.5
3	16QAM	75	0	20.72	20.79	20.64				
3	16QAM	75	0	20.66	20.74	20.63			21.5	0.5
3	64QAM	1	14	20.86	20.71	20.86				
3	64QAM	1	28	20.81	20.81	20.86				
3	64QAM	36	0	20.79	20.79	20.86			20.5	1.5
3	64QAM	36	7	19.81	19.83	19.87				
3	64QAM	75	0	19.81	19.84					



Band 12 Default Ant 1										
Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Max Ch / Freq	Tune-up limit (dB)	MRR (dB)			
Channel										
Frequency (MHz)										
QPSK	1	0	21.61	21.73	21.68					
QPSK	1	25	21.63	21.75	21.70	23	0			
QPSK	1	49	21.47	21.49	21.52					
QPSK	25	0	21.60	21.70	21.65					
QPSK	25	12	21.55	21.63	21.59	23	0			
QPSK	25	25	21.46	21.48	21.48					
QPSK	50	0	21.55	21.57	21.45					
16QAM	1	0	21.55	21.63	21.51					
16QAM	1	25	21.40	21.45	21.39	23	0			
16QAM	1	49	21.55	21.48	21.44					
16QAM	5	0	21.59	21.59	21.49					
16QAM	25	12	21.34	21.45	21.40	22.5	0.5			
16QAM	25	25	21.36	21.39	21.41					
16QAM	50	0	21.53	21.56	21.50					
16QAM	1	0	21.34	21.50	21.36					
16QAM	1	25	21.26	21.52	21.30					
16QAM	1	49	21.34	21.36	21.38					
16QAM	25	0	20.40	20.53	20.43					
16QAM	25	12	20.50	20.43	20.31	21.5	1.5			
16QAM	25	25	20.28	20.34	20.34					
16QAM	50	0	20.25	20.37	20.31					
16QAM	1	0	18.44	18.62	18.40					
16QAM	1	25	18.42	18.62	18.49	19.5	3.5			
16QAM	1	49	18.41	18.37	18.33					
16QAM	5	0	18.26	18.32	18.26					
16QAM	25	12	18.26	18.37	18.30	19.5	3.5			
16QAM	25	25	18.24	18.32	18.32					
16QAM	50	0	18.24	18.32	18.32					
16QAM	50	0	18.24	18.32	18.32					
Channel										
Frequency (MHz)										
QPSK	1	0	21.58	21.63	21.54					
QPSK	1	25	21.52	21.56	21.54	23	0			
QPSK	1	24	21.33	21.44	21.40					
QPSK	12	0	21.51	21.58	21.46					
QPSK	12	7	21.49	21.58	21.53	23	0			
QPSK	12	13	21.34	21.39	21.41					
QPSK	25	0	21.40	21.46	21.38					
16QAM	1	0	21.48	21.51	21.40					
16QAM	1	12	21.30	21.37	21.23	23	0			
16QAM	1	24	21.22	21.37	21.29					
16QAM	12	0	21.31	21.46	21.41					
16QAM	12	7	21.23	21.39	21.27	22.5	0.5			
16QAM	12	13	21.07	21.52	21.30					
16QAM	25	0	21.26	21.43	21.34					
16QAM	1	0	21.20	21.38	21.22					
16QAM	1	12	21.13	21.57	21.29	22.5	0.5			
16QAM	1	24	21.13	21.26	21.20					
16QAM	12	0	20.31	20.41	20.30					
16QAM	12	7	20.23	20.34	20.23					
16QAM	12	13	20.17	20.20	20.18	21.5	1.5			
16QAM	25	0	20.15	20.22	20.24					
16QAM	1	0	18.30	18.42	18.31					
16QAM	1	12	18.31	18.52	18.42	19.5	3.5			
16QAM	1	24	18.28	18.31	18.25					
16QAM	5	0	18.12	18.42	18.25					
16QAM	12	7	18.17	18.24	18.23	19.5	3.5			
16QAM	12	13	18.20	18.23	18.28					
16QAM	25	0	18.23	18.42	18.21					
Channel										
Frequency (MHz)										
QPSK	1	0	21.42	21.53	21.52					
QPSK	1	3	21.35	21.50	21.40					
QPSK	1	5	21.40	21.44	21.45	23	0			
QPSK	3	0	21.47	21.57	21.46					
QPSK	3	1	21.48	21.59	21.50					
QPSK	3	3	21.35	21.33	21.35	23	0			
QPSK	6	0	21.38	21.42	21.40					
16QAM	1	0	21.47	21.57	21.37					
16QAM	1	3	21.34	21.40	21.30	23	0			
16QAM	1	5	21.38	21.42	21.40					
16QAM	3	0	21.28	21.46	21.39					
16QAM	3	1	21.28	21.44	21.28	23	0			
16QAM	3	3	21.23	21.37	21.30					
16QAM	6	0	21.21	21.48	21.34	22.5	0.5			
16QAM	1	0	21.28	21.41	21.27					
16QAM	1	3	21.13	21.21	21.19					
16QAM	1	5	21.19	21.28	21.18	22.5	0.5			
16QAM	3	0	21.03	21.38	21.32					
16QAM	3	1	21.03	21.23	21.20					
16QAM	3	3	21.19	21.22	21.17	21.5	1.5			
16QAM	6	0	20.35	20.41	20.20					
16QAM	1	0	18.27	18.49	18.40					
16QAM	1	3	18.33	18.55	18.44	19.5	3.5			
16QAM	1	5	18.29	18.28	18.24					
16QAM	3	0	18.27	18.30	18.26					
16QAM	3	1	18.14	18.30	18.24	19.5	3.5			
16QAM	3	3	18.15	18.24	18.22					
16QAM	6	0	18.27	18.30	18.20	19.5	3.5			

Band 13 Default Ant 1										
Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Max Ch / Freq	Tune-up limit (dB)	MRR (dB)			
Channel										
Frequency (MHz)										
QPSK	1	0	21.57							
QPSK	1	25	21.48			23	0			
QPSK	1	49	21.30							
QPSK	25	0	21.53							
QPSK	25	12	21.50			23	0			
QPSK	25	25	21.49							
QPSK	50	0	21.56							
16QAM	1	0	21.50							
16QAM	1	25	21.45			23	0			
16QAM	1	49	21.45							
16QAM	5	0	21.47							
16QAM	25	12	21.42			22.5	0.5			
16QAM	25	25	21.40							
16QAM	50	0	21.38							
16QAM	1	0	21.19							
16QAM	1	25	21.04			22.5	0.5			
16QAM	1	49	21.02							
16QAM	25	0	20.21							
16QAM	25	12	20.12			21.5	1.5			
16QAM	25	25	20.14							
16QAM	50	0	19.92							
16QAM	1	0	18.16							
16QAM	1	25	18.12			19.5	3.5			
16QAM	1	49	17.99							
16QAM	5	0	18.14							
16QAM	25	12	17.97			19.5	3.5			
16QAM	25	25	18.01							
16QAM	50	0	18.12							
Channel										
Frequency (MHz)										
QPSK	1	0	21.53	21.52	21.58					
QPSK	1	12	21.42	21.44	21.34	23	0			
QPSK	1	24	21.42	21.38	21.46					
QPSK	12	0	21.54	21.57	21.49					
QPSK	12	7	21.46	21.40	21.36	23	0			
QPSK	12	13	21.32	21.32	21.35					
QPSK	25	0	21.40	21.49	21.49					
16QAM	1	0	21.47	21.37	21.38					
16QAM	1	12	21.32	21.31	21.30	23	0			
16QAM	1	24	21.28	21.37	21.42					
16QAM	12	0	21.33	21.33	21.42					
16QAM	12	7	21.35	21.38	21.38	22.5	0.5			
16QAM	12	13	21.20	21.27	21.28					
16QAM	25	0	21.28	21.32	21.32					
16QAM	1	0	21.58	21.14	21.14					
16QAM	1	12	21.38	21.37	21.42	22.5	0.5			
16QAM	1	24	20.34	20.51	20.35					
16QAM	12	0	20.14	20.13	20.18					
16QAM	12	7	20.08	20.08	20.06	21.5	1.5			
16QAM	12	13	20.04	20.01						



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	1	99	20.83	20.92	20.87				
20	QPSK	50	0	20.92	21.06	20.96				
20	QPSK	24	0	20.83	20.92	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	HQAM	1	0	20.87	21.06	20.93				
20	HQAM	1	49	20.83	20.92	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	20.97	20.86	22	0		
20	HQAM	1	99	20.81	20.98	20.84				
20	HQAM	50	24	20.79	20.91	20.84	22	0		
20	HQAM	50	50	20.86	20.95	20.92				
20	HQAM	1	0	17.86	18.07	17.89				
20	HQAM	1	49	17.92	18.07	17.88	19	3		
20	HQAM	1	99	17.77	17.84	17.77				
20	HQAM	50	24	17.80	17.85	17.84	19	3		
20	HQAM	50	50	17.71	17.82	17.78				
20	HQAM	100	0	17.82	17.85	17.82				
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	20	0	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	20.98	20.88				
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	20.86	20.71				
15	HQAM	36	20	20.71	20.86	20.74	22	0		
15	HQAM	75	0	20.78	20.81	20.81				
15	HQAM	1	0	20.83	21.08	20.86	22	0		
15	HQAM	1	37	20.81	20.98	20.87				
15	HQAM	1	74	20.74	20.85	20.75				
15	HQAM	36	0	20.76	20.86	20.75	22	0		
15	HQAM	36	20	20.76	20.86	20.75				
15	HQAM	75	0	20.82	20.83	20.82				
15	HQAM	75	0	20.77	20.81	20.88				
15	HQAM	1	0	17.86	18.08	17.88				
15	HQAM	1	37	17.89	18.03	17.78	19	3		
15	HQAM	1	74	17.63	17.71	17.62				
15	HQAM	36	0	17.86	17.84	17.85				
15	HQAM	36	20	17.69	17.78	17.77	19	3		
15	HQAM	36	39	17.68	17.78	17.67				
15	HQAM	75	0	17.78	17.82	17.78				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.80	20.92	20.86				
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	20.86				
10	QPSK	25	12	20.77	20.77	20.76	22	0		
10	QPSK	25	25	20.63	20.78	20.73				
10	QPSK	75	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	20.81	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	20.68				
10	HQAM	50	0	20.76	20.81	20.85				
10	HQAM	1	0	20.80	21.00	20.89	22	0		
10	HQAM	1	25	20.73	20.81	20.76				
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	20.88	20.62	22	0		
10	HQAM	25	25	20.65	20.88	20.62				
10	HQAM	50	0	20.71	20.91	20.81				
10	HQAM	50	12	20.67	18.03	20.81				
10	HQAM	1	25	17.88	17.96	17.74	19	3		
10	HQAM	1	49	17.71	17.75	17.62				
10	HQAM	25	0	17.83	17.85	17.82				
10	HQAM	25	12	17.74	17.71	17.77	19	3		
10	HQAM	25	25	17.64	17.74	17.71				
10	HQAM	50	0	17.82	17.86	17.79				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.84	21.00	20.84				
5	QPSK	1	12	20.80	20.84	20.80	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	20.86				
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	22	0		
5	HQAM	1	12	20.85	20.88	20.81				
5	HQAM	1	24	20.77	20.79	20.69				
5	HQAM	12	0	20.75	20.92	20.84	22	0		
5	HQAM	12	7	20.77	20.74	20.70				
5	HQAM	12	13	20.59	20.68	20.63				
5	HQAM	25	0	20.74	20.84	20.86				
5	HQAM	1	0	17.77	18.03	17.77	19	3		
5	HQAM	1	12	17.81	18.02	17.74				
5	HQAM	1	24	17.73	17.70	17.66				
5	HQAM	12	0	17.78	17.87	17.75				
5	HQAM	12	7	17.70	17.71	17.74	19	3		
5	HQAM	12	13	17.62	17.70	17.74				
5	HQAM	25	0	17.83	18.04	17.83				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.86	20.99	20.88				
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	22	0		
3	HQAM	1	8	20.78	20.84	20.85				
3	HQAM	1	14	20.65	20.79	20.72				
3	HQAM	8	0	20.67	20.84	20.72	22	0		
3	HQAM	8	7	20.60	20.69	20.61				
3	HQAM	15	0	20.74	20.88	20.63				
3	HQAM	1	0	20.84	21.00	20.81	22	0		
3	HQAM	1	8	20.66	20.93	20.76				
3	HQAM	1	14	20.81	20.75	20.69				
3	HQAM	8	0	20.75	20.86	20.70	22	0		
3	HQAM	8	7	20.71	20.86	20.75				
3	HQAM	8	7	20.64	20.63	20.67	22	0		
3	HQAM	15	0	20.81	20.86	20.81				
3	HQAM	1	0	17.85	17.96	17.85				
3	HQAM	1	8	17.81	17.86	17.83				





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	20.97	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	17.93	17.83				
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	20.72	21.07	20.82	22	0		
15	QPSK	1	74	20.78	20.96	20.79				
15	QPSK	1	74	20.77	20.78	20.71				
15	QPSK	36	0	20.78	21.01	20.83				
15	QPSK	36	24	20.75	20.78	20.74	22	0		
15	QPSK	36	39	20.67	20.83	20.79				
15	HQAM	1	0	20.74	20.84	20.77				
15	HQAM	1	37	20.81	20.83	20.75	22	0		
15	HQAM	1	74	20.69	20.78	20.64				
15	HQAM	36	0	20.69	20.74	20.64				
15	HQAM	36	20	20.54	20.54	20.51	22	0		
15	HQAM	36	39	20.53	20.54	20.53				
15	HQAM	75	0	20.75	20.88	20.70				
15	HQAM	1	0	20.71	20.80	20.69	22	0		
15	HQAM	1	37	20.85	20.89	20.82				
15	HQAM	1	74	20.54	20.55	20.55	22	0		
15	HQAM	36	0	20.56	20.70	20.62				
15	HQAM	36	20	20.53	20.63	20.63				
15	HQAM	36	39	20.48	20.52	20.58	22	0		
15	HQAM	75	0	20.67	20.69	20.68				
15	SSQAM	1	0	17.76	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	17.63	17.60				
15	SSQAM	36	20	17.47	17.53	17.41	19	3		
15	SSQAM	36	39	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	20.76	20.97	20.88				
10	QPSK	25	12	20.68	20.78	20.79	22	0		
10	QPSK	25	25	20.76	20.81	20.74				
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	20.65	20.68				
10	HQAM	50	0	20.50	20.82	20.68				
10	HQAM	1	0	20.72	20.86	20.71	22	0		
10	HQAM	1	25	20.81	20.74	20.64				
10	HQAM	1	49	20.51	20.55	20.58				
10	HQAM	25	0	20.47	20.71	20.67	22	0		
10	HQAM	25	12	20.48	20.64	20.63				
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	20.11	21.02	20.83				
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	22	0		
5	QPSK	12	13	20.67	20.80	20.79				
5	HQAM	1	0	20.73	20.81	20.67				
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	22	0		
5	HQAM	1	0	20.70	20.83	20.66				
5	HQAM	1	12	20.65	20.77	20.64	22	0		
5	HQAM	1	24	20.82	20.54	20.61				
5	HQAM	12	0	20.53	20.67	20.60	22	0		
5	HQAM	12	7	20.48	20.58	20.49				
5	HQAM	12	13	20.50	20.53	20.39				
5	HQAM	25	0	20.70	20.77	20.70	22	0		
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	20.11	21.02	20.83				
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	20.84	20.67				
3	QPSK	8	4	20.74	20.80	20.69	22	0		
3	QPSK	8	7	20.69	20.82	20.85				
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	22	0		
3	HQAM	8	4	20.55	20.53	20.58				
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	22	0		
3	HQAM	1	8	20.64	20.72	20.64				
3	HQAM	1	14	20.51	20.57	20.59				
3	HQAM	8	0	20.48	20.68	20.61	22	0		
3	HQAM	8	4	20.45	20.61	20.46				
3	HQAM	8	7	20.49	20.53	20.43	22	0		
3	HQAM									



Band 38 DS13_Simultaneous 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)				38750	38900	39150			
20	QPSK	1	0	20.15	20.15	20.15	21.2	0	
20	QPSK	1	49	20.17	20.10	19.98			
20	QPSK	50	24	19.99	20.14	20.07			
20	QPSK	50	24	19.95	20.05	20.00			
20	QPSK	100	0	20.01	20.04	19.91			
20	16QAM	1	0	19.97	19.99	20.02	21.2	0	
20	16QAM	1	49	19.97	19.99	20.00			
20	16QAM	1	99	19.87	19.94	19.85			
20	16QAM	50	24	19.93	20.16	19.92			
20	16QAM	50	24	19.97	20.03	20.15			
20	16QAM	100	0	19.91	19.99	20.10			
20	16QAM	100	0	19.99	20.14	20.06			
20	16QAM	1	49	20.08	20.10	19.91	21.2	0	
20	16QAM	1	99	19.93	20.00	19.92			
20	16QAM	50	24	19.75	20.11	19.90			
20	16QAM	50	24	19.97	20.07	19.94	21.2	0	
20	16QAM	100	0	19.96	20.09	19.92			
20	256QAM	1	0	18.83	19.00	18.85			
20	256QAM	1	49	18.79	19.00	18.78	20.5	0.7	
20	256QAM	1	99	18.76	18.77	18.78			
20	256QAM	50	24	18.81	19.06	18.87			
20	256QAM	50	24	18.97	19.06	18.96	20.5	0.7	
20	256QAM	100	0	18.89	18.85	18.94			
20	256QAM	100	0	18.99	19.15	18.98			
Channel									
Frequency (MHz)				31723	31800	31875	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	20.09	20.14	20.03	21.2	0	
15	QPSK	1	37	19.95	20.08	19.90			
15	QPSK	1	74	19.86	20.00	19.94			
15	QPSK	36	20	19.92	20.06	19.98	21.2	0	
15	QPSK	36	20	19.82	19.82	19.83			
15	16QAM	1	0	19.92	19.96	19.98	21.2	0	
15	16QAM	1	37	19.84	19.96	19.88			
15	16QAM	1	74	19.90	19.96	19.79			
15	16QAM	36	20	19.91	19.96	19.88	21.2	0	
15	16QAM	36	20	19.84	19.84	19.83			
15	16QAM	36	20	19.84	19.84	19.81			
15	16QAM	75	0	19.77	19.85	19.86			
15	16QAM	75	0	19.72	19.88	19.90			
15	16QAM	1	37	19.85	19.92	19.79	21.2	0	
15	16QAM	1	74	19.80	19.92	19.75			
15	16QAM	36	20	19.90	19.91	19.78			
15	16QAM	36	20	19.79	19.93	19.74	21.2	0	
15	16QAM	75	0	19.82	19.85	19.78			
15	16QAM	75	0	19.85	19.91	19.72			
15	256QAM	1	0	18.77	18.90	18.81	20.5	0.7	
15	256QAM	1	37	18.70	19.01	18.72			
15	256QAM	1	74	18.87	18.74	18.74			
15	256QAM	36	20	18.86	19.11	18.92	20.5	0.7	
15	256QAM	36	20	18.94	18.94	18.88			
15	256QAM	36	20	18.85	18.88	18.84			
15	256QAM	75	0	18.89	19.10	18.86	20.5	0.7	
Channel									
Frequency (MHz)				25723	25800	25875	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	20.06	20.10	20.01	21.2	0	
10	QPSK	1	25	19.93	20.00	19.91			
10	QPSK	1	49	19.95	20.04	20.09			
10	QPSK	25	12	19.95	20.07	19.98	21.2	0	
10	QPSK	25	12	19.78	19.79	19.80			
10	QPSK	25	25	19.92	19.98	19.89			
10	16QAM	1	0	19.91	19.95	19.97	21.2	0	
10	16QAM	1	0	20.00	19.97	19.85			
10	16QAM	1	25	19.81	19.89	19.86			
10	16QAM	1	49	19.96	19.92	19.80			
10	16QAM	25	0	19.82	20.02	19.93			
10	16QAM	25	12	19.87	19.88	19.92	21.2	0	
10	16QAM	25	12	19.78	19.80	19.80			
10	16QAM	25	25	19.85	19.89	19.92			
10	16QAM	1	25	19.85	19.89	19.88	21.2	0	
10	16QAM	1	49	19.84	19.96	19.77			
10	16QAM	25	0	19.86	19.89	19.87			
10	16QAM	25	12	19.71	19.90	19.79	21.2	0	
10	16QAM	25	25	19.86	19.88	19.89			
10	256QAM	1	0	18.76	18.92	18.70			
10	256QAM	1	25	18.84	18.91	18.72	20.5	0.7	
10	256QAM	1	49	18.82	18.73	18.68			
10	256QAM	25	0	18.83	19.11	18.88			
10	256QAM	25	12	18.96	19.03	18.94	20.5	0.7	
10	256QAM	25	25	18.77	18.94	18.87			
10	256QAM	50	0	18.91	19.04	18.88			
Channel									
Frequency (MHz)				26723	26800	26875	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	20.06	20.09	19.95	21.2	0	
5	QPSK	1	19	20.03	20.00	19.95			
5	QPSK	1	24	19.85	20.04	20.04			
5	QPSK	12	0	19.89	20.07	19.80	21.2	0	
5	QPSK	12	7	19.84	20.03	19.81			
5	QPSK	12	19	19.95	20.03	19.86			
5	QPSK	25	0	19.95	20.05	19.94			
5	QPSK	25	0	19.91	20.03	19.91			
5	16QAM	1	12	19.77	19.88	19.91	21.2	0	
5	16QAM	1	24	19.85	19.95	19.84			
5	16QAM	12	0	19.89	19.93	19.87			
5	16QAM	12	7	19.84	19.96	19.96	21.2	0	
5	16QAM	12	13	19.97	19.88	19.88			
5	16QAM	25	0	19.75	19.99	19.89			
5	16QAM	1	0	19.71	19.96	19.88	21.2	0	
5	16QAM	1	12	19.86	19.88	19.87			
5	16QAM	1	24	19.80	19.90	19.78			
5	16QAM	12	0	19.86	19.90	19.79	21.2	0	
5	16QAM	25	0	19.86	19.91	19.88			
5	16QAM	1	0	18.73	18.88	18.71			
5	256QAM	1	12	18.72	18.87	18.66	20.5	0.7	
5	256QAM	1	24	18.64	19.73	18.70			
5	256QAM	12	7	18.82	19.01	18.94	20.5	0.7	
5	256QAM	12	13	18.85	19.88	18.90			
5	256QAM	25	0	18.85	19.08	18.91			

Band 41 FCC&IC DS13_Simultaneous Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power High Mod Ch / Freq	Power High Mod Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
20	QPSK	1	0	20.39	20.41	20.39	20.41	20.41	21.2	0
20	QPSK	1	49	20.21	20.31	20.39	20.35	20.30		
20	QPSK	1	99	20.15	20.18	20.26	20.35	20.37		
20	QPSK	50	0	20.21	20.30	20.30	20.22	20.19		
20	QPSK	50	24	20.24	20.25	20.34	20.30	20.12	21.2	0
20	QPSK	50	24	20.15	20.30	20.32	20.30	20.08		
20	QPSK	100	0	20.08	20.24	20.20	20.14	20.10		
20	16QAM	1	0	20.07	20.19	20.27	20.20	20.11	21.2	0
20	16QAM	1	49	20.07	20.21	20.28	20.28	20.28		
20	16QAM	1	99	20.17	20.25	20.31	20.24	20.18		
20	16QAM	50	24	20.25	20.27	20.31	20.28	20.18	21.2	0
20	16QAM	50	24	20.29	20.29	20.28	20.19	20.22		
20	16QAM	50	50	20.01	20.17	20.27	20.15	20.09		
20	16QAM	100	0	20.08	20.14	20.16	20.06	20.11		
20	16QAM	1	0	20.15	20.08	20.25	20.09	20.14		
20	16QAM	1	49	19.93	20.02	20.18	20.04	19.93	21.2	0
20	16QAM	1	99	19.94	20.04	20.06	19.97	19.97		
20	16QAM	50	24	20.19	20.18	20.34	20.24	20.20		
20	16QAM	50	24	20.14	20.12	20.06	20.03	20.09	21.2	0
20	16QAM	50	50	19.98	20.02	20.22	19.95	19.97		
20	16QAM	100	0	20.14	20.27	20.27	20.14	20.17		
20	256QAM	1	0	18.62	18.40	18.70	18.50	18.65		
20	256QAM	1	49	18.64	18.47	18.70	18.55	18.66	20	1.2
20	256QAM	1	99	18.43	18.43	18.53	18.51	18.38		
20	256QAM	50	24	18.61	18.67	18.70	18.70	18.41		
20	256QAM	50	24	18.61	18.59	18.64	18.62	18.52	20	1.2
20	256QAM	50	50	18.51	18.53	18.61	18.63	18.59		
20	256QAM	100	0	18.77	18.58	18.71	18.63	18.73		
Channel										
Frequency (MHz)				39750	40173	40620	41055	41490	Tune-up limit (dBm)	MPR (dB)
16	QPSK	1	0	20.33	20.31	20.39	20.17	20.23	21.2	0
16	QPSK	1	37	20.08	20.21	20.31	20.27	20.07		
16	QPSK	1	74	20.07	20.03	20.16	20.13	20.04	21	0
16	QPSK	36	20	20.11	20.25	20.36	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	16QAM	1	0	20.01	20.15	20.18	20.09	20.06	21.2	0
16	16QAM	1	37	20.03	20.20	20.28	20.16	19.97		
16	16QAM	1	74	20.05	20.18</					



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	22.15	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	22.08	22.14	22.14	22.14	22.14	22.14	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	21.98	22.15	22.15	22.15	22.15	22.15	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	22.11	22.11	22.11	21.84	21.84	22.8	0
20	16QAM	1	99	22.04	22.05	22.10	21.99	22.04	22.04	22.8	0
20	16QAM	50	0	22.01	22.12	22.16	22.20	21.96	21.96	22.8	0
20	16QAM	50	24	21.96	21.92	22.08	22.07	21.99	21.99	22.8	0
20	16QAM	50	50	21.99	22.16	22.14	22.07	21.98	21.98	22.8	0
20	16QAM	100	0	22.07	22.13	22.25	22.11	22.04	22.04	22.8	0
20	16QAM	100	0	21.91	21.91	22.09	22.05	22.02	22.02	22.8	0
20	16QAM	100	49	21.97	22.08	22.12	22.07	22.01	22.01	22.8	0
20	16QAM	100	0	22.04	22.11	22.15	22.12	22.02	22.02	22.8	0
20	16QAM	50	0	22.26	22.16	22.24	22.21	21.99	21.99	22.8	0
20	16QAM	50	50	21.92	21.95	22.07	22.03	22.04	22.04	22.8	0
20	16QAM	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	21.81	21.81	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	21.87	21.56	21.85	21.54	21.84	21.84	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	50	50	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	21.34	21.34	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	QPSK	75	0	21.78	21.88	21.96	21.97	21.80	21.80	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	21.87	21.87	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	21.87	22.02	21.89	21.89	22.8	0
15	16QAM	36	50	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	16QAM	75	0	21.78	21.87	22.03	22.02	21.91	21.91	22.8	0
15	16QAM	1	37	21.84	22.00	22.02	22.04	21.98	21.98	22.8	0
15	16QAM	74	0	21.90	21.98	22.07	22.01	21.96	21.96	22.8	0
15	16QAM	36	0	21.84	21.93	22.16	22.10	21.91	21.91	22.8	0
15	16QAM	36	20	21.91	22.11	22.19	22.12	21.94	21.94	22.8	0
15	16QAM	36	50	21.83	21.83	21.88	21.88	21.80	21.80	22.8	0
15	16QAM	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	21.33	21.45	21.45	22.3	0.5
15	256QAM	1	37	21.26	21.28	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	50	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	22.22	22.22	22.22	22.22	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	25	0	21.91	22.00	22.00	22.00	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	21.92	22.08	22.00	22.06	21.80	21.80	22.8	0
10	16QAM	1	49	21.92	21.94	22.03	21.92	21.96	21.96	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	22.00	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	16QAM	50	0	21.84	21.82	22.06	22.00	21.80	21.80	22.8	0
10	16QAM	50	12	21.85	22.01	22.00	21.98	21.95	21.95	22.8	0
10	16QAM	1	25	21.90	21.96	22.08	22.07	21.90	21.90	22.8	0
10	16QAM	25	0	21.98	21.88	22.08	22.10	21.84	21.84	22.8	0
10	16QAM	25	12	21.98	22.05	22.12	22.17	21.91	21.91	22.8	0
10	16QAM	25	25	21.83	21.88	22.03	21.92	21.90	21.90	22.8	0
10	16QAM	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	21.33	21.33	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	21.95	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	22.00	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	21.89	21.76	21.76	22.8	0
5	QPSK	25	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	21.96	21.91	21.92	21.92	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	16QAM	1	0	21.82	21.81	22.03	21.96	21.88	21.88	22.8	0
5	16QAM	1	12	21.93	21.95	22.00	22.02	21.95	21.95	22.8	0
5	16QAM	1	24	21.94	21.97	22.06	22.05	21.90	21.90	22.8	0
5	16QAM	12									



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)	1912.3	1963	1913.3	(dBm)	1912.3	1963	1913.3	(dBm)	
OSM 1 Tx Watt	28.25	28.23	28.19	29.00	19.25	19.33	19.19	20.00	
OPNS 1 Tx Watt	28.23	28.20	28.19	29.00	19.23	19.33	19.19	20.00	
OPNS 2 Tx Watt	29.46	29.50	29.40	29.00	19.46	19.53	19.40	20.00	
OPNS 3 Tx Watt	23.98	24.13	24.00	25.00	19.72	19.87	19.74	20.74	
OPNS 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	21.98	22.83	21.94	23.00	15.98	16.83	15.94	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 VTCMA II LTE									
Default VTCMA II A42									
	VTCMA II			Turnup	VTCMA IV			Turnup	
Tx Channel	862	960	858	Limit	862	960	858	Limit	
Frequency (MHz)	1962	1960	1958	(dBm)	1962	1960	1958	(dBm)	
OSM 1900	30.56	30.57	30.52	31.70	21.52	21.44	21.37	22.80	
OSM 1900	30.83	30.70	30.56	31.70	21.47	21.53	21.44	22.80	
OSM Rate	19.82	19.92	19.81	20.70	20.82	20.86	20.82	21.80	
OSM Rate	19.81	19.89	19.75	20.70	20.47	20.61	20.43	21.80	
OSM Rate	19.52	19.27	19.26	20.20	19.61	20.04	19.65	21.00	
OSM Rate	19.28	19.38	19.28	20.20	19.98	20.06	20.05	21.30	
OSM Rate	19.74	19.80	19.73	20.70	20.48	20.58	20.59	21.80	
OSM Rate	19.58	19.50	19.58	20.70	20.29	20.37	20.31	21.80	
OSM Rate	19.10	19.22	19.09	20.20	19.80	19.87	19.83	21.30	
OSM Rate	19.12	19.14	19.14	20.20	19.76	19.80	19.84	21.30	
OSM Rate	19.80	19.94	19.98	20.70	20.42	20.65	20.60	21.80	
OSM Rate	17.22	17.80	17.59	18.20	16.46	16.83	16.59	18.00	
OSM Rate	18.05	18.00	18.02	19.70	16.49	16.51	16.48	20.00	
OSM Rate	17.81	17.70	17.84	18.70	16.38	16.44	16.33	19.80	
OSM Rate	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	8	19.86	19.74	19.61			
20	QPSK	1	12	19.87	19.75	19.62			
20	QPSK	1	16	19.88	19.76	19.63			
20	QPSK	1	20	19.89	19.77	19.64			
20	QPSK	1	24	19.90	19.78	19.65			
20	QPSK	1	28	19.91	19.79	19.66			
20	QPSK	1	32	19.92	19.80	19.67			
20	QPSK	1	36	19.93	19.81	19.68			
20	QPSK	1	40	19.94	19.82	19.69			
20	QPSK	1	44	19.95	19.83	19.70			
20	QPSK	1	48	19.96	19.84	19.71			
20	QPSK	1	52	19.97	19.85	19.72			
20	QPSK	1	56	19.98	19.86	19.73			
20	QPSK	1	60	19.99	19.87	19.74			
20	QPSK	1	64	20.00	19.88	19.75			
20	QPSK	1	68	20.01	19.89	19.76			
20	QPSK	1	72	20.02	19.90	19.77			
20	QPSK	1	76	20.03	19.91	19.78			
20	QPSK	1	80	20.04	19.92	19.79			
20	QPSK	1	84	20.05	19.93	19.80			
20	QPSK	1	88	20.06	19.94	19.81			
20	QPSK	1	92	20.07	19.95	19.82			
20	QPSK	1	96	20.08	19.96	19.83			
20	QPSK	1	100	20.09	19.97	19.84			
20	QPSK	1	104	20.10	19.98	19.85			
20	QPSK	1	108	20.11	19.99	19.86			
20	QPSK	1	112	20.12	20.00	19.87			
20	QPSK	1	116	20.13	20.01	19.88			
20	QPSK	1	120	20.14	20.02	19.89			
20	QPSK	1	124	20.15	20.03	19.90			
20	QPSK	1	128	20.16	20.04	19.91			
20	QPSK	1	132	20.17	20.05	19.92			
20	QPSK	1	136	20.18	20.06	19.93			
20	QPSK	1	140	20.19	20.07	19.94			
20	QPSK	1	144	20.20	20.08	19.95			
20	QPSK	1	148	20.21	20.09	19.96			
20	QPSK	1	152	20.22	20.10	19.97			
20	QPSK	1	156	20.23	20.11	19.98			
20	QPSK	1	160	20.24	20.12	19.99			
20	QPSK	1	164	20.25	20.13	20.00			
20	QPSK	1	168	20.26	20.14	20.01			
20	QPSK	1	172	20.27	20.15	20.02			
20	QPSK	1	176	20.28	20.16	20.03			
20	QPSK	1	180	20.29	20.17	20.04			
20	QPSK	1	184	20.30	20.18	20.05			
20	QPSK	1	188	20.31	20.19	20.06			
20	QPSK	1	192	20.32	20.20	20.07			
20	QPSK	1	196	20.33	20.21	20.08			
20	QPSK	1	200	20.34	20.22	20.09			
20	QPSK	1	204	20.35	20.23	20.10			
20	QPSK	1	208	20.36	20.24	20.11			
20	QPSK	1	212	20.37	20.25	20.12			
20	QPSK	1	216	20.38	20.26	20.13			
20	QPSK	1	220	20.39	20.27	20.14			
20	QPSK	1	224	20.40	20.28	20.15			
20	QPSK	1	228	20.41	20.29	20.16			
20	QPSK	1	232	20.42	20.30	20.17			
20	QPSK	1	236	20.43	20.31	20.18			
20	QPSK	1	240	20.44	20.32	20.19			
20	QPSK	1	244	20.45	20.33	20.20			
20	QPSK	1	248	20.46	20.34	20.21			
20	QPSK	1	252	20.47	20.35	20.22			
20	QPSK	1	256	20.48	20.36	20.23			
20	QPSK	1	260	20.49	20.37	20.24			
20	QPSK	1	264	20.50	20.38	20.25			
20	QPSK	1	268	20.51	20.39	20.26			
20	QPSK	1	272	20.52	20.40	20.27			
20	QPSK	1	276	20.53	20.41	20.28			
20	QPSK	1	280	20.54	20.42	20.29			
20	QPSK	1	284	20.55	20.43	20.30			
20	QPSK	1	288	20.56	20.44	20.31			
20	QPSK	1	292	20.57	20.45	20.32			
20	QPSK	1	296	20.58	20.46	20.33			
20	QPSK	1	300	20.59	20.47	20.34			
20	QPSK	1	304	20.60	20.48	20.35			
20	QPSK	1	308	20.61	20.49	20.36			
20	QPSK	1	312	20.62	20.50	20.37			
20	QPSK	1	316	20.63	20.51	20.38			
20	QPSK	1	320	20.64	20.52	20.39			
20	QPSK	1	324	20.65	20.53	20.40			
20	QPSK	1	328	20.66	20.54	20.41			
20	QPSK	1	332	20.67	20.55	20.42			
20	QPSK	1	336	20.68	20.56	20.43			
20	QPSK	1	340	20.69	20.57	20.44			
20	QPSK	1	344	20.70	20.58	20.45			
20	QPSK	1	348	20.71	20.59	20.46			
20	QPSK	1	352	20.72	20.60	20.47			
20	QPSK	1	356	20.73	20.61	20.48			
20	QPSK	1	360	20.74	20.62	20.49			
20	QPSK	1	364	20.75	20.63	20.50			
20	QPSK	1	368	20.76	20.64	20.51			
20	QPSK	1	372	20.77	20.65	20.52			
20	QPSK	1	376	20.78	20.66	20.53			
20	QPSK	1	380	20.79	20.67	20.54			
20	QPSK	1	384	20.80	20.68	20.55			
20	QPSK	1	388	20.81	20.69	20.56			
20	QPSK	1	392	20.82	20.70	20.57			
20	QPSK	1	396	20.83	20.71	20.58			
20	QPSK	1	400	20.84	20.72	20.59			
20	QPSK	1	404	20.85	20.73	20.60			
20	QPSK	1	408	20.86	20.74	20.61			
20	QPSK	1	412	20.87	20.75	20.62			
20	QPSK	1	416	20.88	20.76	20.63			
20	QPSK	1	420	20.89	20.77	20.64			
20	QPSK	1	424	20.90	20.78	20.65			
20	QPSK	1	428	20.91	20.79	20.66			
20	QPSK	1	432	20.92	20.80	20.67			
20	QPSK	1	436	20.93	20.81	20.68			
20	QPSK	1	440	20.94	20.82	20.69			
20	QPSK	1	444	20.95	20.83	20.70			
20	QPSK	1	448	20.96	20.84	20.71			
20	QPSK	1	452	20.97	20.85	20.72			
20	QPSK	1	456	20.98	20.86	20.73			
20	QPSK	1	460	20.99	20.87	20.74			
20	QPSK	1	464	21.00	20.88	20.75			
20	QPSK	1	468	21.01	20.89	20.76			
20	QPSK	1	472	21.02	20.90	20.77			
20	QPSK	1	476	21.03	20.91	20.78			
20	QPSK	1	480	21.04	20.92	20.79			
20	QPSK	1	484	21.05	20.93	20.80			
20	QPSK	1	488	21.06	20.94	20.81			
20	QPSK	1	492	21.07	20.95	20.82			
20	QPSK	1	496	21.08	20.96	20.83			
20	QPSK	1	500	21.09	20.97	20.84			
20	QPSK	1	504	21.10	20.98	20.85			
20	QPSK	1	508	21.11	20.99	20.86			
20	QPSK	1	512	21.12	21.00	20.87			
20	QPSK	1	516	21.13	21.01	20.88			
20	QPSK	1	520	21.14	21.02	20.89			
20	QPSK	1	524	21.15	21.03	20.90			
20	QPSK	1	528	21.16	21.04	20.91			
20	QPSK	1	532	21.17	21.05	20.92			
20	QPSK	1	536	21.18	21.06	20.93			
20	QPSK	1	540	21.19	21.07	20.94			
20	QPSK	1	544	21.20	21.08	20.95			
20	QPSK	1	548	21.21	21.09	20.96			



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			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	22.27			24	0
10	QPSK	25	25	22.29	22.32	22.24				
10	QPSK	50	0	22.34	22.41	22.37				
10	16QAM	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				
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	22.52	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	21.36	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	22.50	22.37				
5	QPSK	12	7	22.33	22.45	22.35			24	0
5	QPSK	12	13	22.24	22.38	22.17				
5	QPSK	25	0	22.22	22.47	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	22.10	22.43	22.07				
5	16QAM	12	7	22.18	22.28	22.25			24	0
5	16QAM	12	13	22.02	22.36	22.07				
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			22.5	1.5
5	256QAM	1	0	19.50	19.51	19.53				
5	256QAM	1	24	19.25	19.29	19.24			21	3
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	22.27				
3	16QAM	1	0	22.26	22.39	22.48				
3	16QAM	1	8	22.31	22.38	22.32			24	0
3	16QAM	8	0	22.13	22.38	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	22.23				
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	19.36				
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 (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	22.40	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	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	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				
10	8QAM	25	12	21.20	21.20	21.20			22.5	1.5
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								



### 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	21.1	0
20	QPSK	1	99	19.84	19.78	19.86		
20	QPSK	50	0	19.84	19.72	19.84		
20	QPSK	50	49	19.85	19.82	19.86	21.1	0
20	QPSK	50	99	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	21.1	0
20	QPSK	100	99	19.82	19.85	19.84		
20	16QAM	1	0	19.82	19.86	19.81		
20	16QAM	1	49	19.82	19.86	19.81	21.1	0
20	16QAM	1	99	19.82	19.86	19.81		
20	16QAM	50	0	19.84	19.88	19.85		
20	16QAM	50	49	19.80	19.87	19.80	21.1	0
20	16QAM	50	99	19.87	19.82	19.89		
20	16QAM	100	0	19.87	19.82	19.81		
20	16QAM	100	49	19.82	19.86	19.81	21.1	0
20	16QAM	100	99	19.82	19.86	19.81		
20	25QAM	1	0	19.82	19.86	19.81		
20	25QAM	1	49	19.82	19.86	19.81	21.1	0.1
20	25QAM	1	99	19.82	19.86	19.81		
20	25QAM	50	0	19.84	19.88	19.85		
20	25QAM	50	49	19.80	19.87	19.80	21.1	0.1
20	25QAM	50	99	19.82	19.85	19.84		
20	25QAM	100	0	19.84	19.88	19.85		
20	25QAM	100	49	19.82	19.86	19.81	21.1	0.1
20	25QAM	100	99	19.82	19.86	19.81		
Channel								
Frequency (MHz)								
20	QPSK	1	0	19.88	19.78	19.88		
20	QPSK	1	49	19.88	19.86	19.88	21.1	0
20	QPSK	1	99	19.81	19.70	19.84		
20	QPSK	36	0	19.87	19.86	19.86		
20	QPSK	36	49	19.84	19.85	19.84	21.1	0
20	QPSK	36	99	19.83	19.83	19.81		
20	QPSK	75	0	19.83	19.82	19.81		
20	QPSK	75	49	19.86	19.81	19.87	21.1	0
20	QPSK	75	99	19.85	19.81	19.87		
20	16QAM	1	0	19.82	19.84	19.84		
20	16QAM	1	49	19.82	19.84	19.84	21.1	0
20	16QAM	1	99	19.82	19.84	19.84		
20	16QAM	36	0	19.82	19.86	19.85		
20	16QAM	36	49	19.82	19.86	19.85	21.1	0
20	16QAM	36	99	19.82	19.86	19.85		
20	16QAM	75	0	19.82	19.86	19.85		
20	16QAM	75	49	19.82	19.86	19.85	21.1	0
20	16QAM	75	99	19.82	19.86	19.85		
20	16QAM	100	0	19.82	19.86	19.85		
20	16QAM	100	49	19.82	19.86	19.85	21.1	0
20	16QAM	100	99	19.82	19.86	19.85		
20	25QAM	1	0	19.82	19.86	19.85		
20	25QAM	1	49	19.82	19.86	19.85	21.1	0.1
20	25QAM	1	99	19.82	19.86	19.85		
20	25QAM	36	0	19.82	19.86	19.85		
20	25QAM	36	49	19.82	19.86	19.85	21.1	0.1
20	25QAM	36	99	19.82	19.86	19.85		
20	25QAM	75	0	19.82	19.86	19.85		
20	25QAM	75	49	19.82	19.86	19.85	21.1	0.1
20	25QAM	75	99	19.82	19.86	19.85		
20	25QAM	100	0	19.82	19.86	19.85		
20	25QAM	100	49	19.82	19.86	19.85	21.1	0.1
20	25QAM	100	99	19.82	19.86	19.85		
Channel								
Frequency (MHz)								
20	QPSK	1	0	19.85	19.85	19.85		
20	QPSK	1	25	19.85	19.87	19.87	21.1	0
20	QPSK	1	49	19.82	19.81	19.82		
20	QPSK	1	74	19.81	19.82	19.84		
20	QPSK	36	0	19.82	19.86	19.86		
20	QPSK	36	25	19.84	19.85	19.84	21.1	0
20	QPSK	36	49	19.83	19.83	19.81		
20	QPSK	75	0	19.82	19.86	19.86		
20	QPSK	75	25	19.82	19.86	19.86	21.1	0
20	QPSK	75	49	19.82	19.86	19.86		
20	QPSK	100	0	19.82	19.86	19.86		
20	QPSK	100	25	19.82	19.86	19.86	21.1	0
20	QPSK	100	49	19.82	19.86	19.86		
20	16QAM	1	0	19.82	19.86	19.86		
20	16QAM	1	25	19.82	19.86	19.86	21.1	0
20	16QAM	1	49	19.82	19.86	19.86		
20	16QAM	36	0	19.82	19.86	19.86		
20	16QAM	36	25	19.82	19.86	19.86	21.1	0
20	16QAM	36	49	19.82	19.86	19.86		
20	16QAM	75	0	19.82	19.86	19.86		
20	16QAM	75	25	19.82	19.86	19.86	21.1	0
20	16QAM	75	49	19.82	19.86	19.86		
20	16QAM	100	0	19.82	19.86	19.86		
20	16QAM	100	25	19.82	19.86	19.86	21.1	0
20	16QAM	100	49	19.82	19.86	19.86		
20	25QAM	1	0	19.82	19.86	19.86		
20	25QAM	1	25	19.82	19.86	19.86	21.1	0.1
20	25QAM	1	49	19.82	19.86	19.86		
20	25QAM	36	0	19.82	19.86	19.86		
20	25QAM	36	25	19.82	19.86	19.86	21.1	0.1
20	25QAM	36	49	19.82	19.86	19.86		
20	25QAM	75	0	19.82	19.86	19.86		
20	25QAM	75	25	19.82	19.86	19.86	21.1	0.1
20	25QAM	75	49	19.82	19.86	19.86		
20	25QAM	100	0	19.82	19.86	19.86		
20	25QAM	100	25	19.82	19.86	19.86	21.1	0.1
20	25QAM	100	49	19.82	19.86	19.86		

### Band 26 Default 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)								
15	QPSK	1	0	22.20	22.24	22.17		
15	QPSK	1	37	22.12	22.10	22.14	23.0	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	0
15	QPSK	36	50	21.99	22.02	22.02		
15	QPSK	75	0	22.09	22.09	22.09		
15	QPSK	75	37	22.09	22.18	22.18	23.0	0
15	16QAM	1	0	21.99	22.01	22.10		
15	16QAM	1	37	22.02	22.02	22.06	23.0	0
15	16QAM	36	0	21.98	21.91	21.87		
15	16QAM	36	25	21.92	21.92	22.04	23.0	0
15	16QAM	36	50	21.97	22.02	22.07		
15	16QAM	75	0	21.97	22.02	22.07		
15	16QAM	75	37	22.09	22.09	22.04	23.0	0
15	16QAM	75	74	22.05	22.17	22.05		
15	16QAM	36	0	20.76	20.88	20.87		
15	16QAM	36	25	20.65	20.78	20.80	22.1	1
15	16QAM	36	50	20.76	20.85	20.79		
15	16QAM	75	0	20.82	20.92	20.84		
15	16QAM	75	37	20.78	20.85	20.85	23.0	3
15	16QAM	75	74	20.78	20.85	20.85		
15	25QAM	1	0	19.11	19.14	19.06		
15	25QAM	1	37	19.12	19.20	19.14	23.0	3
15	25QAM	1	74	19.11	19.14	19.06		
15	25QAM	36	0	18.91	18.99	19.02		
15	25QAM	36	25	18.88	18.87	18.99	23.0	3
15	25QAM	36	50	18.88	18.87	18.99		
15	25QAM	75	0	18.84	18.83	18.81		
Channel								
Frequency (MHz)								
15	QPSK	1	0	22.14	22.20	22.10		
15	QPSK	1	37	22.12	22.10	22.10	23.0	0
15	QPSK	1	74	21.90	21.98	21.99		
15	QPSK	36	0	22.12	22.12	21.86		
15	QPSK	36	25	21.83	21.84	21.81	23.0	0
15	QPSK	36	50	21.94	21.96	21.92		
15	QPSK	75	0	22.04	22.04	22.05		
15	QPSK	75	37	22.03	22.09	22.09	23.0	0
15	16QAM	1	0	21.93	21.99	21.92		
15	16QAM	1	37	21.93	22.07	21.96	23.0	0
15	16QAM	36	0	21.93	21.99	21.92		
15	16QAM	36						



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	39000	38150			
20	QPSK	1	0	16.47	16.53	16.42			
20	QPSK	1	49	16.45	16.48	16.40	17.6	0	
20	QPSK	50	24	16.43	16.46	16.38			
20	QPSK	50	0	16.43	16.50	16.39			
20	QPSK	50	24	16.28	16.40	16.36	17.6	0	
20	QPSK	100	0	16.27	16.42	16.35			
20	16QAM	1	0	16.42	16.43	16.31	17.6	0	
20	16QAM	1	49	16.29	16.43	16.36			
20	16QAM	1	99	16.32	16.36	16.26			
20	16QAM	50	0	16.33	16.40	16.36			
20	16QAM	50	24	16.29	16.37	16.31	17.6	0	
20	16QAM	50	50	16.31	16.49	16.36			
20	16QAM	100	0	16.29	16.33	16.26			
20	16QAM	100	0	16.22	16.47	16.31			
20	16QAM	100	49	16.30	16.33	16.37	17.6	0	
20	16QAM	100	99	16.25	16.41	16.31			
20	16QAM	50	0	16.34	16.48	16.40			
20	16QAM	50	24	16.25	16.47	16.26	17.6	0	
20	16QAM	50	50	16.30	16.39	16.28			
20	16QAM	100	0	16.31	16.48	16.34			
20	16QAM	100	0	16.37	16.45	16.44			
20	16QAM	100	49	16.28	16.45	16.32	17.6	0	
20	16QAM	100	99	16.38	16.46	16.37			
20	256QAM	1	0	16.39	16.49	16.37			
20	256QAM	1	49	16.39	16.49	16.37			
20	256QAM	50	24	16.39	16.47	16.36	17.6	0	
20	256QAM	50	50	16.29	16.37	16.27			
20	256QAM	100	0	16.31	16.46	16.35			
Channel									
Frequency (MHz)				37125	36900	38175	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	16.29	16.49	16.37			
15	QPSK	75	0	16.24	16.31	16.29			
15	16QAM	1	0	16.29	16.35	16.24	17.6	0	
15	16QAM	1	37	16.22	16.34	16.21			
15	16QAM	1	74	16.28	16.37	16.16			
15	16QAM	36	0	16.22	16.29	16.27			
15	16QAM	36	20	16.10	16.31	16.26	17.6	0	
15	16QAM	36	39	16.25	16.45	16.28			
15	16QAM	75	0	16.17	16.30	16.15			
15	16QAM	75	0	16.36	16.35	16.16			
15	16QAM	1	37	16.19	16.26	16.26	17.6	0	
15	16QAM	1	74	16.16	16.31	16.19			
15	16QAM	36	0	16.28	16.43	16.29			
15	16QAM	36	20	16.18	16.36	16.19	17.6	0	
15	16QAM	36	39	16.27	16.36	16.26			
15	16QAM	75	0	16.20	16.35	16.30			
15	256QAM	1	0	16.31	16.34	16.38	17.6	0	
15	256QAM	1	37	16.22	16.34	16.27			
15	256QAM	1	74	16.24	16.38	16.27			
15	256QAM	36	0	16.26	16.32	16.34			
15	256QAM	36	20	16.22	16.42	16.34	17.6	0	
15	256QAM	36	39	16.20	16.23	16.18			
15	256QAM	75	0	16.22	16.37	16.30			
Channel									
Frequency (MHz)				25775	25950	26125	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	16.26			
10	QPSK	25	12	16.13	16.33	16.20	17.6	0	
10	QPSK	25	25	16.28	16.42	16.33			
10	16QAM	1	0	16.17	16.31	16.21	17.6	0	
10	16QAM	1	25	16.18	16.38	16.27			
10	16QAM	1	49	16.24	16.22	16.14			
10	16QAM	25	0	16.21	16.34	16.30			
10	16QAM	25	12	16.22	16.29	16.26	17.6	0	
10	16QAM	25	25	16.25	16.37	16.32			
10	16QAM	50	0	16.22	16.19	16.21			
10	16QAM	1	0	16.16	16.37	16.23			
10	16QAM	1	25	16.20	16.25	16.20	17.6	0	
10	16QAM	1	49	16.16	16.34	16.21			
10	16QAM	25	0	16.24	16.42	16.34			
10	16QAM	25	12	16.19	16.42	16.18	17.6	0	
10	16QAM	25	25	16.17	16.30	16.21			
10	16QAM	50	0	16.17	16.36	16.25			
10	256QAM	1	0	16.33	16.31	16.32			
10	256QAM	1	25	16.24	16.36	16.26	17.6	0	
10	256QAM	1	49	16.34	16.39	16.28			
10	256QAM	25	0	16.25	16.31	16.33			
10	256QAM	25	12	16.29	16.37	16.34			
10	256QAM	25	25	16.21	16.30	16.13	17.6	0	
10	256QAM	50	0	16.28	16.38	16.19			
Channel									
Frequency (MHz)				25775	25950	26175	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	16.32	16.49	16.37			
5	QPSK	1	12	16.33	16.45	16.36	17.6	0	
5	QPSK	1	24	16.30	16.39	16.34			
5	QPSK	12	0	16.29	16.43	16.36			
5	QPSK	12	7	16.24	16.36	16.31	17.6	0	
5	QPSK	12	13	16.30	16.36	16.39			
5	QPSK	25	0	16.10	16.35	16.26			
5	QPSK	25	12	16.29	16.34	16.19	17.6	0	
5	16QAM	1	12	16.23	16.34	16.27			
5	16QAM	1	24	16.20	16.33	16.20			
5	16QAM	12	0	16.26	16.27	16.31			
5	16QAM	12	7	16.16	16.28	16.19	17.6	0	
5	16QAM	12	13	16.16	16.35	16.27			
5	16QAM	25	0	16.22	16.29	16.18			
5	16QAM	1	0	16.09	16.40	16.17	17.6	0	
5	16QAM	1	12	16.19	16.24	16.22			
5	16QAM	1	24	16.19	16.35	16.20			
5	16QAM	12	0	16.25	16.36	16.29			
5	16QAM	12	7	16.18	16.42	16.26	17.6	0	
5	16QAM	12	13	16.19	16.28	16.22			
5	16QAM	25	0	16.16	16.42	16.26			
5	256QAM	1	0	16.30	16.35	16.32			
5	256QAM	1	12	16.24	16.32	16.18	17.6	0	
5	256QAM	1	24	16.20	16.36	16.28			
5	256QAM	12	0	16.25	16.38	16.22			
5	256QAM	12	7	16.25	16.34	16.24	17.6	0	
5	256QAM	12	13	16.18	16.33	16.19			
5	256QAM	25	0	16.20	16.41	16.24			

Band 41 PC3 FCC&C 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	40560	41055	41460		
20	QPSK	1	0	16.51	16.63	16.59	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	16.49	16.43		
20	QPSK	100	0	16.33	16.48	16.58	16.54	16.36		
20	16QAM	1	0	16.51	16.56	16.49	16.41	16.35	17.6	
20	16QAM	1	49	16.31	16.39	16.49	16.31	16.26		
20	16QAM	1	99	16.30	16.45	16.44	16.36	16.32		
20	16QAM	50	0	16.36	16.47	16.59	16.59	16.36		
20	16QAM	50	24	16.34	16.39	16.54	16.51	16.40	17.6	
20	16QAM	50	50	16.32	16.40	16.54	16.41	16.52		
20	16QAM	100	0	16.27	16.39	16.52	16.41	16.29		
20	16QAM	100	0	16.35	16.39	16.52	16.49	16.31		
20	16QAM	100	49	16.36	16.43	16.48	16.37	16.29	17.6	
20	16QAM	100	99	16.36	16.43	16.48	16.30	16.37		
20	16QAM	50	0	16.30	16.50	16.61	16.53	16.31		
20	16QAM	50	24	16.33	16.36	16.59	16.54	16.32	17.6	
20	16QAM	50	50	16.34	16.38	16.49	16.37	16.34		
20	16QAM	100	0	16.49	16.49	16.59	16.55	16.24		
20	256QAM	1	0	16.52	16.47	16.61	16.45	16.45		
20	256QAM	1	49	16.40	16.40	16.52	16.47	16.52	17.6	
20	256QAM	1	99	16.39	16.19	16.45	16.32	16.27		
20	256QAM	50	0	16.48	16.42	16.56	16.47	16.43		
20	256QAM	50	24	16.24	16.49	16.38	16.28	16.33	17.6	
20	256QAM	50	50	16.23	16.39	16.42	16.34	16.32		
20	256QAM	100	0	16.48	16.50	16.53	16.28	16.28		
Channel										
Frequency (MHz)				39750	40173	40560	41058	41515	Tune-up limit (dBm)	MPR (dB)
16	QPSK	1	0	16.41	16.43	16.39	16.34	16.35		
16	QPSK	1	37	16.31	16.49	16.61	16.54	16.47	17.60	0
16	QPSK									





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	18.52	19.2	0
20	QPSK	50	0	18.30	18.52	18.54	18.49	18.45	18.52	19.2	0
20	QPSK	50	24	18.18	18.29	18.39	18.28	18.26	18.39	19.2	0
20	QPSK	100	0	18.26	18.39	18.46	18.42	18.26	18.39	19.2	0
20	16QAM	1	0	18.37	18.49	18.54	18.36	18.30	18.49	19.2	0
20	16QAM	1	49	18.29	18.34	18.39	18.42	18.38	18.39	19.2	0
20	16QAM	1	99	18.24	18.34	18.38	18.28	18.25	18.34	19.2	0
20	16QAM	50	0	18.30	18.43	18.59	18.50	18.37	18.59	19.2	0
20	16QAM	50	24	18.28	18.34	18.39	18.42	18.38	18.39	19.2	0
20	16QAM	100	0	18.26	18.38	18.48	18.26	18.40	18.38	19.2	0
20	64QAM	1	0	18.29	18.42	18.56	18.29	18.35	18.42	19.2	0
20	64QAM	1	49	18.30	18.32	18.42	18.35	18.24	18.32	19.2	0
20	64QAM	1	99	18.22	18.31	18.46	18.25	18.29	18.31	19.2	0
20	64QAM	50	0	18.30	18.39	18.46	18.50	18.19	18.39	19.2	0
20	64QAM	50	24	18.28	18.30	18.35	18.42	18.28	18.35	19.2	0
20	64QAM	100	0	18.26	18.35	18.45	18.48	18.18	18.35	19.2	0
20	256QAM	1	0	18.21	18.37	18.57	18.20	18.24	18.37	19.2	0
20	256QAM	1	49	18.28	18.28	18.40	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	18.48	18.29	18.18	18.30	19.2	0
20	256QAM	50	24	18.32	18.31	18.45	18.36	18.18	18.32	19.2	0
20	256QAM	100	0	18.30	18.38	18.35	18.27	18.23	18.38	19.2	0
Channel											
Frequency (MHz)											
15	QPSK	1	0	18.25	18.51	18.54	18.43	18.25	18.51	19.2	0
15	QPSK	1	37	18.23	18.47	18.43	18.34	18.33	18.47	19.2	0
15	QPSK	1	74	18.31	18.47	18.38	18.24	18.28	18.47	19.2	0
15	QPSK	1	0	18.25	18.22	18.50	18.40	18.18	18.22	19.2	0
15	QPSK	36	20	18.07	18.24	18.25	18.21	18.19	18.24	19.2	0
15	QPSK	36	39	18.27	18.30	18.35	18.23	18.19	18.30	19.2	0
15	QPSK	75	0	18.10	18.31	18.41	18.29	18.18	18.31	19.2	0
15	16QAM	1	0	18.27	18.37	18.29	18.23	18.21	18.37	19.2	0
15	16QAM	1	37	18.28	18.35	18.34	18.29	18.19	18.35	19.2	0
15	16QAM	1	74	18.13	18.31	18.29	18.19	18.19	18.31	19.2	0
15	16QAM	36	0	18.17	18.39	18.53	18.47	18.27	18.39	19.2	0
15	16QAM	36	39	18.27	18.21	18.32	18.20	18.20	18.27	19.2	0
15	16QAM	75	0	18.08	18.25	18.25	18.15	18.23	18.25	19.2	0
15	64QAM	1	0	18.19	18.22	18.35	18.25	18.05	18.22	19.2	0
15	64QAM	1	37	18.25	18.28	18.35	18.21	18.09	18.25	19.2	0
15	64QAM	1	74	18.15	18.27	18.37	18.20	18.18	18.27	19.2	0
15	64QAM	36	0	18.17	18.38	18.32	18.40	18.08	18.38	19.2	0
15	64QAM	36	39	18.19	18.15	18.51	18.38	18.22	18.19	19.2	0
15	64QAM	75	0	18.17	18.17	18.30	18.20	18.11	18.17	19.2	0
15	64QAM	75	0	18.20	18.28	18.30	18.23	18.00	18.28	19.2	0
15	256QAM	1	0	18.06	18.24	18.49	18.36	18.15	18.24	19.2	0
15	256QAM	1	37	18.20	18.30	18.38	18.20	18.05	18.30	19.2	0
15	256QAM	1	74	18.02	18.28	18.26	18.13	18.19	18.28	19.2	0
15	256QAM	36	0	18.01	18.21	18.35	18.21	18.16	18.21	19.2	0
15	256QAM	36	39	18.18	18.18	18.41	18.25	18.11	18.18	19.2	0
15	256QAM	75	0	18.26	18.25	18.22	18.21	18.11	18.26	19.2	0
15	256QAM	75	0	18.07	18.24	18.50	18.30	18.11	18.24	19.2	0
Channel											
Frequency (MHz)											
10	QPSK	1	0	18.41	18.47	18.47	18.43	18.37	18.47	19.2	0
10	QPSK	1	25	18.32	18.48	18.47	18.43	18.37	18.48	19.2	0
10	QPSK	1	49	18.32	18.40	18.35	18.32	18.32	18.40	19.2	0
10	QPSK	1	0	18.17	18.31	18.30	18.25	18.18	18.31	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	18.26	19.2	0
10	QPSK	1	0	18.18	18.30	18.34	18.26	18.14	18.30	19.2	0
10	16QAM	1	0	18.29	18.44	18.32	18.32	18.22	18.44	19.2	0
10	16QAM	1	25	18.08	18.27	18.32	18.19	18.13	18.27	19.2	0
10	16QAM	1	49	18.18	18.26	18.29	18.14	18.11	18.26	19.2	0
10	16QAM	25	0	18.16	18.37	18.46	18.43	18.20	18.37	19.2	0
10	16QAM	25	12	18.22	18.25	18.39	18.23	18.23	18.22	19.2	0
10	16QAM	50	0	18.15	18.18	18.23	18.25	18.13	18.18	19.2	0
10	64QAM	1	0	18.14	18.22	18.36	18.23	18.11	18.22	19.2	0
10	64QAM	1	25	18.20	18.27	18.33	18.18	18.12	18.27	19.2	0
10	64QAM	1	49	18.19	18.27	18.35	18.27	18.25	18.27	19.2	0
10	64QAM	25	0	18.22	18.29	18.40	18.30	18.05	18.29	19.2	0
10	64QAM	25	12	18.21	18.21	18.48	18.37	18.21	18.21	19.2	0
10	64QAM	50	0	18.09	18.17	18.33	18.22	18.13	18.17	19.2	0
10	64QAM	50	0	18.22	18.31	18.43	18.42	18.05	18.31	19.2	0
10	256QAM	1	0	18.17	18.26	18.45	18.37	18.15	18.17	19.2	0
10	256QAM	1	25	18.17	18.19	18.41	18.33	18.24	18.17	19.2	0
10	256QAM	1	49	18.10	18.27	18.34	18.21	18.15	18.27	19.2	0
10	256QAM	25	0	18.10	18.26	18.45	18.38	18.20	18.26	19.2	0
10	256QAM	25	12	18.19	18.22	18.36	18.25	18.19	18.22	19.2	0
10	256QAM	50	0	18.15	18.35	18.31	18.22	18.12	18.35	19.2	0
10	256QAM	50	0	18.13	18.27	18.38	18.17	18.13	18.27	19.2	0
Channel											
Frequency (MHz)											
5	QPSK	1	0	18.44	18.41	18.59	18.45	18.43	18.41	19.2	0
5	QPSK	1	12	18.30	18.48	18.47	18.39	18.33	18.30	19.2	0
5	QPSK	1	24	18.26	18.38	18.44	18.34	18.29	18.38	19.2	0
5	QPSK	12	0	18.21	18.28	18.50	18.40	18.11	18.21	19.2	0
5	QPSK	12	7	18.05	18.22	18.31	18.16	18.18	18.22	19.2	0
5	QPSK	12	18	18.27	18.41	18.35	18.31	18.13	18.35	19.2	0
5	QPSK	25	0	18.14	18.34	18.38	18.23	18.14	18.34	19.2	0
5	16QAM	1	0	18.28	18.39	18.38	18.29	18.19	18.39	19.2	0
5	16QAM	1	12	18.12	18.29	18.34	18.13	18.08	18.29	19.2	0
5	16QAM	1	24	18.14	18.30	18.35	18.21	18.16	18.30	19.2	0
5	16QAM	12	0	18.27	18.35	18.44	18.43	18.25	18.35	19.2	0
5	16QAM	12	7	18.22	18.28	18.45	18.34	18.18	18.28	19.2	0
5	16QAM	12	13	18.12	18.28	18.42	18.15	18.30	18.28	19.2	0
5	16QAM	25	0	18.09	18.23	18.28	18.21	18.25	18.23	19.2	0
5	64QAM	1	0	18.22	18.19	18.34	18.23	18.09	18.19	19.2	0
5	64QAM	1	12	18.26	18.24	18.29	18.16	18.16	18.24	19.2	0
5	64QAM	1	24	18.15	18.20	18.37	18.22	18.21	18.21	19.2	0
5	64QAM	12	0	18.17	18.35	18.39	18.36	18.16	18.35	19.2	0
5	64QAM	12	7	18.16	18.24	18.31	18.33	18.19	18.24	19.2	0
5	64QAM	12	13	18.15	18.24	18.37	18.27	18.14	18.24	19.2	0
5	64QAM	25	0								



CSM1900 Act1		DRG Simulations							
	Band	Frequency Range (MHz)			TuneUp	Frame-Sizing Prot. (dB)			TuneUp
	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	29.42	30.00	30.00	21.00
DRM 1 Tx Wd		29.38	29.40	29.32	30.00	29.38	29.45	29.32	21.00
DRM 2 Tx Wd		29.26	29.42	29.38	27.00	29.28	29.42	29.38	21.00
DRM 3 Tx Wd		24.50	24.57	24.43	25.00	24.24	24.51	24.17	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		23.33	23.43	23.49	24.00	17.33	17.43	17.48	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
<b>DRG Simulation WCDMA 1915</b>									
	Band	WCDMA II			TuneUp	WCDMA IV			TuneUp
	Rx Channel	862	960	858	Limit	812	861	810	Limit
Frequency (MHz)		1662	1660	1668	(dB)	1612	1610	1618	(dB)
SOPF Rate (G)	AWG 12 2Mbps	19.56	20.00	20.00	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	17.64	17.66	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										
1860 1860 1900										
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	20.15	20.11				
20	16QAM	50	24	20.01	20.19	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	64QAM	1	0	19.98	19.18	20.00				
20	64QAM	1	49	20.02	20.10	20.05	21.3	0		
20	64QAM	1	99	19.95	20.10	20.07				
20	64QAM	50	0	20.05	20.14	20.11				
20	64QAM	50	24	19.99	20.18	20.02	21.3	0		
20	64QAM	50	50	19.90	20.08	19.96				
20	64QAM	100	0	20.01	20.16	20.12				
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	19.40				
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										
1877.5 1890 1925.5										
15	QPSK	1	0	19.99	20.18	20.02				
15	QPSK	1	37	19.97	20.18	20.02	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	19.98				
15	16QAM	75	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	19.98				
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	64QAM	1	0	19.93	20.09	19.90				
15	64QAM	1	37	19.95	19.99	19.98	21.3	0		
15	64QAM	1	74	19.98	19.97	19.94				
15	64QAM	36	0	19.99	20.00	20.01				
15	64QAM	36	24	19.87	20.06	19.98	21.3	0		
15	64QAM	36	39	19.92	19.97	19.93				
15	64QAM	75	0	19.87	20.04	19.97				
15	256QAM	1	0	19.35	19.36	19.35				
15	256QAM	1	37	19.39	19.40	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	19.42				
Channel										
1855 1890 1925										
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	25	12	19.93	20.00	19.91	21.3	0		
10	QPSK	25	25	19.88	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	25	0	19.95	20.12	19.99				
10	16QAM	25	12	19.89	20.04	20.07	21.3	0		
10	16QAM	25	25	19.95	20.03	19.98				
10	16QAM	50	0	19.92	19.92	19.99				
10	64QAM	1	0	19.84	20.09	19.90				
10	64QAM	1	24	19.85	19.98	19.82	21.3	0		
10	64QAM	1	49	19.82	19.98	19.86				
10	64QAM	25	0	19.91	20.07	19.95				
10	64QAM	25	12	19.88	20.03	19.98	21.3	0		
10	64QAM	25	25	19.87	19.99	19.85				
10	64QAM	50	0	19.94	20.07	19.87				
10	256QAM	1	0	19.38	19.37	19.37				
10	256QAM	1	24	19.38	19.37	19.34	21	0.3		
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	19.30	19.26	21	0.3		
10	256QAM	25	25	19.14	19.28	19.20				
10	256QAM	50	0	19.33	19.44	19.39				
Channel										
1825 1890 1975										
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	7	19.93	20.01	20.00	21.3	0		
5	QPSK	12	13	19.90	20.00	19.98				
5	QPSK	12	19	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	20.06				
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	64QAM	1	0	19.88	20.12	19.86				
5	64QAM	1	12	19.97	19.95	19.99	21.3	0		
5	64QAM	1	24	19.85	20.05	19.92				
5	64QAM	12	0	19.86	20.03	20.04				
5	64QAM	12	7	19.93	20.12	19.93	21.3	0		
5	64QAM	12	13	19.92	19.98	19.81				
5	64QAM	25	0	19.87	19.90	19.88				
5	256QAM	1	0	19.37	19.39	19.38				
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	19.33				
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										
1861.5 1890 1918.5										
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	19.92	20.11	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	64QAM	1	0	19.83	20.07	19.90			</	



Band 25 DSIS_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	20.27	20.34	20.22	21.3	0		
20	QPSK	1	66	20.12	20.28	20.17				
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	19.99				
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	20.29	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	20.06				
20	64QAM	100	0	20.07	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	19.80	19.80				
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	20.31	20.08				
19	QPSK	1	37	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	19.97				
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	20.02	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	19.47	21	0.3		
19	256QAM	1	74	19.30	19.31	19.36				
19	256QAM	36	0	19.32	19.43	19.38				
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	20.06	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	19.98	20.03	19.93				
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	20.02	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	19.97	20.03	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	19.93	19.83				
19	256QAM	1	26	19.30	19.59	19.44	21	0.3		
19	256QAM	1	49	19.32	19.35	19.36				
19	256QAM	1	26	19.30	19.59	19.44				
19	256QAM	1	49	19.32	19.35	19.36	21	0.3		
19	256QAM	25	12	19.32	19.32	19.33				
19	256QAM	25	25	19.37	19.28	19.25				
19	256QAM	50	0	19.41	19.52	19.47				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.13	20.20	20.12				
5	QPSK	1	14	20.09	20.22	20.12	21.3	0		
5	QPSK	12	0	20.08	20.06	20.06				
5	QPSK	12	7	19.98	20.11	19.99	21.3	0		
5	QPSK	12	13	19.95	20.07	20.08				
5	16QAM	1	0	19.95	20.02	19.89				
5	16QAM	1	12	20.01	20.19	20.06	21.3	0		
5	16QAM	1	24	19.98	20.07	19.90				
5	16QAM	12	0	20.10	20.10	19.84				
5	16QAM	12	7	20.03	20.06	20.08	21.3	0		
5	16QAM	12	13	19.97	20.13	19.84				
5	16QAM	25	0	20.10	20.18	20.12				
5	64QAM	1	0	19.93	19.98	19.89				
5	64QAM	1	12	19.91	20.04	19.98	21.3	0		
5	64QAM	1	24	19.97	19.98	20.04				
5	64QAM	12	0	19.98	20.16	19.98				
5	64QAM	12	7	20.10	20.09	19.92	21.3	0		
5	64QAM	12	13	19.92	20.09	20.03				
5	64QAM	25	0	19.93	19.97	19.99				
5	256QAM	1	0	19.87	19.97	19.88				
5	256QAM	1	12	19.30	19.52	19.38	21	0.3		
5	256QAM	1	24	19.38	19.52	19.31				
5	256QAM	1	12	19.31	19.30	19.28				
5	256QAM	12	0	19.37	19.58	19.42	21	0.3		
5	256QAM	12	7	19.32	19.41	19.26				
5	256QAM	12	13	19.38	19.32	19.20				
5	256QAM	25	0	19.31	19.50	19.40				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.14	20.21	20.17				
3	QPSK	1	8	20.13	20.18	20.04	21.3	0		
3	QPSK	1	14	20.08	20.17	20.13				
3	QPSK	8	0	20.05	20.10	20.10				
3	QPSK	8	4	20.06	20.09	20.00	21.3	0		
3	QPSK	8	7	19.98	20.06	20.02				
3	16QAM	1	0	20.08	20.10	19.97				
3	16QAM	1	8	20.02	20.15	20.12	21.3	0		
3	16QAM	1	14	19.91	20.03	19.96				
3	16QAM	8	0	20.01	20.14	20.02				
3	16QAM	8	4	19.99	20.13	19.98	21.3	0		
3	16QAM	8	7	19.99	20.14	20.10				
3	16QAM	16	0	20.01	20.15	20.10				
3	64QAM	1	0	19.91	20.01	19.93				
3	64QAM	1	8	19.92	20.10	20.00	21.3	0		
3	64QAM	1	14	19.96	20.06	19.94				
3	64QAM	8	0	20.03	20.10	20.06				
3	64QAM	8	4	20.10						



### 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	19.25	19.34	19.18	20.6	0
20	16QAM	100	0	19.22	19.41	19.25	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	19.25	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	19.18	19.27	20.6	0
20	25QAM	1	0	19.22	19.41	19.17	20.5	0.1
20	25QAM	1	49	19.20	19.36	19.21	20.5	0.1
20	25QAM	1	99	19.30	19.28	19.26	20.5	0.1
20	25QAM	50	24	19.27	19.32	19.25	20.5	0.1
20	25QAM	50	24	19.38	19.14	19.32	20.5	0.1
20	25QAM	50	50	19.18	19.22	19.28	20.5	0.1
20	25QAM	100	0	19.21	19.40	19.18	20.5	0.1
Channel								
Frequency (MHz)								
15	QPSK	1	0	19.27	19.29	19.27	20.6	0
15	QPSK	1	37	19.18	19.11	19.04	20.6	0
15	QPSK	1	74	19.02	19.10	19.00	20.6	0
15	QPSK	36	20	19.21	19.05	19.05	20.6	0
15	QPSK	36	20	19.00	19.18	19.06	20.6	0
15	QPSK	75	0	19.02	19.01	19.08	20.6	0
15	16QAM	1	0	19.09	19.06	19.12	20.6	0
15	16QAM	1	37	19.04	19.04	19.04	20.6	0
15	16QAM	1	74	19.13	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	19.06	19.06	20.6	0
15	16QAM	36	59	19.17	19.18	19.03	20.6	0
15	16QAM	75	0	19.20	19.24	19.09	20.6	0
15	16QAM	75	0	19.04	19.33	19.23	20.6	0
15	16QAM	1	37	19.06	19.14	19.04	20.6	0
15	16QAM	1	74	19.04	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	19.04	19.02	19.08	20.6	0
15	16QAM	75	0	19.17	19.28	19.17	20.6	0
15	25QAM	1	0	19.21	19.42	19.25	20.5	0.1
15	25QAM	1	37	19.03	19.27	19.15	20.5	0.1
15	25QAM	1	74	19.19	19.12	19.08	20.5	0.1
15	25QAM	36	20	19.17	19.34	19.05	20.5	0.1
15	25QAM	36	20	19.23	19.02	19.02	20.5	0.1
15	25QAM	36	59	19.27	19.11	19.16	20.5	0.1
15	25QAM	75	0	19.20	19.31	19.24	20.5	0.1
Channel								
Frequency (MHz)								
10	QPSK	1	0	19.16	19.24	19.14	20.6	0
10	QPSK	1	25	19.07	19.21	19.06	20.6	0
10	QPSK	1	49	19.08	19.05	19.02	20.6	0
10	QPSK	25	12	19.06	19.20	19.07	20.6	0
10	QPSK	25	12	19.07	19.19	19.06	20.6	0
10	QPSK	25	25	19.23	19.07	19.05	20.6	0
10	16QAM	1	0	19.01	19.01	19.11	20.6	0
10	16QAM	1	25	19.01	19.06	19.06	20.6	0
10	16QAM	1	49	19.07	19.09	19.02	20.6	0
10	16QAM	25	12	19.13	19.26	19.14	20.6	0
10	16QAM	25	12	19.07	19.24	19.14	20.6	0
10	16QAM	25	25	19.14	19.05	19.08	20.6	0
10	16QAM	50	12	19.41	19.38	19.24	20.6	0
10	16QAM	50	12	19.07	19.22	19.15	20.6	0
10	16QAM	1	25	19.08	19.28	19.05	20.6	0
10	16QAM	1	49	19.79	19.16	19.07	20.6	0
10	16QAM	25	12	19.16	19.02	19.12	20.6	0
10	16QAM	25	12	19.17	19.22	19.05	20.6	0
10	16QAM	25	25	19.03	19.09	19.08	20.6	0
10	16QAM	50	12	19.22	19.19	19.02	20.6	0
10	25QAM	1	0	19.22	19.39	19.05	20.5	0.1
10	25QAM	1	49	19.00	19.10	19.20	20.5	0.1
10	25QAM	25	0	19.21	19.33	19.15	20.5	0.1
10	25QAM	25	12	19.27	19.09	19.15	20.5	0.1
10	25QAM	25	25	19.22	19.09	19.09	20.5	0.1
10	25QAM	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	19.05	19.01	19.02	20.6	0
5	QPSK	12	0	19.06	19.19	19.00	20.6	0
5	QPSK	12	7	19.03	19.07	19.09	20.6	0
5	QPSK	12	19	19.00	19.03	19.12	20.6	0
5	QPSK	25	0	19.06	19.11	19.03	20.6	0
5	QPSK	25	0	19.00	19.07	19.03	20.6	0
5	16QAM	1	12	19.08	19.03	19.00	20.6	0
5	16QAM	1	24	19.11	19.00	19.00	20.6	0
5	16QAM	12	0	19.20	19.38	19.18	20.6	0
5	16QAM	12	7	19.01	19.17	19.09	20.6	0
5	16QAM	12	13	19.10	19.16	19.05	20.6	0
5	16QAM	25	0	19.28	19.23	19.20	20.6	0
5	16QAM	1	0	19.07	19.29	19.29	20.6	0
5	16QAM	1	12	19.06	19.08	19.17	20.6	0
5	16QAM	1	24	19.09	19.10	19.09	20.6	0
5	16QAM	12	0	19.04	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	19.05	19.15	20.6	0
5	16QAM	25	0	19.20	19.17	19.16	20.6	0
5	25QAM	1	0	19.07	19.33	19.24	20.5	0.1
5	25QAM	1	12	19.13	19.26	19.21	20.5	0.1
5	25QAM	1	24	19.11	19.12	19.02	20.5	0.1
5	25QAM	12	7	19.14	19.17	19.16	20.5	0.1
5	25QAM	12	13	19.14	19.21	19.16	20.5	0.1
5	25QAM	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	19.27	19.34	20.6	0
20	QPSK	50	24	19.08	19.30	19.18	20.6	0
20	QPSK	100	0	19.27	19.28	19.40	20.6	0
20	16QAM	1	0	19.08	19.26	19.49	20.6	0
20	16QAM	1	49	19.02	19.25	19.42	20.6	0
20	16QAM	1	99	19.05	19.25	19.54	20.6	0
20	16QAM	50	24	19.02	19.26	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	19.04	19.27	19.32	20.6	0
20	16QAM	100	0	19.04	19.35	19.25	20.6	0
20	16QAM	1	49	19.06	19.43	19.40	20.6	0
20	16QAM	1	99	19.34	19.23	19.06	20.6	0
20	16QAM	50	24	19.12	19.04	19.25	20.6	0
20	16QAM	50	24	19.18	19.11	19.22	20.6	0
20	16QAM	100	0	19.17	19.18	19.30	20.6	0
20	25QAM	1	0	19.42	19.31	19.52	19	1.6
20	25QAM	1	49	19.28	19.32	19.31	19	1.6
20	25QAM	1	99	19.22	19.31	19.28	19	1.6
20	25QAM	50	24	19.01	19.42	19.50	19	1.6
20	25QAM	50	24	19.41	19.48	19.51	19	1.6
20	25QAM	50	50	19.43	19.35	19.49	19	1.6
20	25QAM	100	0	19.07	19.46	19.42	19	1.6
Channel								
Frequency (MHz)								
16	QPSK	1	0	19.41	19.43	19.39	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	19.28	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	19.04	19.04	20.6	0
16	16QAM	1	74	19.03	19.41	19.31	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	19.31	20.6	0
16	16QAM	75	0	19.32	19.46	19.47	20.6	0
16	16QAM	75	0	19.04	19.35	19.43	20.6	0
16	16QAM	1	37	19.40	19.40	19.29	20.6	0
16	16QAM	1	74	19.32	19.16	19.40	20.6	0
16	16QAM	36	20	19.34	19.30	19.32	20.6	0
16	16QAM	36	20	19.07	19.09	19.31	20.6	0
16	16QAM	36	59	19.05	19.05	19.05	20.6	0
16	16QAM	75	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	20.99	20.81	21.06	20.98	20.96	20.96		
20	QPSK	50	24	20.51	20.60	20.71	20.75	20.57	20.57	22.2	0
20	QPSK	100	0	20.52	20.50	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	20.95	20.93	21.09	20.98	20.89	20.89		
20	16QAM	1	99	20.78	20.84	20.94	20.84	20.72	20.72		
20	16QAM	50	0	20.69	20.79	20.90	20.72	20.72	20.72	22.2	0
20	16QAM	50	24	20.65	20.79	20.89	20.84	20.70	20.70		
20	16QAM	100	0	20.60	20.63	20.73	20.60	20.58	20.58		
20	64QAM	1	0	20.99	20.73	20.96	20.72	20.69	20.69	22.2	0
20	64QAM	1	49	20.88	20.86	20.96	20.82	20.77	20.77		
20	64QAM	1	99	20.64	20.81	20.92	20.71	20.74	20.74		
20	64QAM	50	0	20.70	20.88	20.96	20.82	20.83	20.83	22.2	0
20	64QAM	50	24	20.62	20.76	20.89	20.75	20.64	20.64		
20	64QAM	100	0	20.65	20.60	20.77	20.60	20.59	20.59		
20	64QAM	100	0	20.78	20.80	20.88	20.81	20.68	20.68		
20	256QAM	1	0	20.78	20.88	21.02	20.82	20.89	20.89	22.2	0
20	256QAM	1	49	20.82	20.82	20.98	20.82	20.81	20.81		
20	256QAM	1	99	20.66	20.82	20.92	20.76	20.70	20.70		
20	256QAM	50	0	20.71	20.69	20.86	20.69	20.69	20.69	22.2	0
20	256QAM	50	24	20.66	20.71	20.88	20.79	20.67	20.67		
20	256QAM	100	0	20.53	20.81	20.78	20.70	20.56	20.56		
20	256QAM	100	0	20.72	20.84	20.95	20.83	20.72	20.72		
Channel											
Frequency (MHz)											
15	QPSK	1	0	20.81	20.85	21.03	20.82	20.81	20.81	22	0
15	QPSK	1	37	20.95	20.81	21.07	20.88	20.95	20.95		
15	QPSK	1	74	20.87	20.79	20.96	20.88	20.73	20.73		
15	QPSK	36	0	20.97	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	75	0	20.51	20.60	20.66	20.64	20.57	20.57		
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	20.89	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	64QAM	1	0	20.75	20.83	20.84	20.79	20.64	20.64		
15	64QAM	1	37	20.80	20.77	20.87	20.79	20.63	20.63		
15	64QAM	1	74	20.59	20.75	20.73	20.67	20.69	20.69	22.2	0
15	64QAM	36	0	20.59	20.86	20.83	20.80	20.70	20.70		
15	64QAM	36	20	20.55	20.87	20.86	20.72	20.54	20.54		
15	64QAM	36	39	20.44	20.53	20.61	20.54	20.41	20.41		
15	64QAM	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	20.77	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	20.86	20.85	20.79	20.79		
15	256QAM	36	20	20.67	20.85	20.78	20.80	20.70	20.70		
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	20.71	20.49	20.49		
Channel											
Frequency (MHz)											
10	QPSK	1	0	20.90	20.81	21.11	20.87	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	20.68	20.74	20.84	20.76	20.64	20.64	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	16QAM	1	0	20.45	20.52	20.78	20.67	20.51	20.51	22.2	0
10	16QAM	1	0	20.88	20.90	21.05	20.81	20.78	20.78		
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	25	20.51	20.51	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	64QAM	1	0	20.72	20.82	20.87	20.87	20.68	20.68	22.2	0
10	64QAM	1	25	20.80	20.83	20.92	20.70	20.67	20.67		
10	64QAM	1	49	20.59	20.76	20.73	20.67	20.63	20.63		
10	64QAM	25	0	20.59	20.77	20.84	20.62	20.78	20.78	22.2	0
10	64QAM	25	12	20.56	20.64	20.84	20.71	20.56	20.56		
10	64QAM	25	25	20.48	20.53	20.72	20.58	20.54	20.54		
10	64QAM	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	20.79	20.69	20.69		
10	256QAM	1	49	20.59	20.72	20.75	20.66	20.65	20.65		
10	256QAM	25	0	20.57	20.86	20.82	20.50	20.74	20.74	22.2	0
10	256QAM	25	12	20.43	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		
Channel											
Frequency (MHz)											
5	QPSK	1	0	20.92	20.87	21.14	20.92	20.81	20.81	22	0
5	QPSK	1	12	20.95	20.75	21.09	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	19	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	16QAM	1	0	20.83	20.84	21.08	20.93	20.77	20.77		
5	16QAM	1	12	20.82	20.84	20.96	20.91	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	20.67	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	20.63	20.87	20.64	20.48	20.48		
5	16QAM	25	0	20.50	20.80	20.84	20.68	20.68	20.68	22.2	0
5	64QAM	1	0	20.70	20.82	20.89	20.82	20.60	20.60		
5	64QAM	1	12	20.79	20.75	20.87	20.79	20.70	20.70	22.2	0
5	64QAM	1	24	20.61	20.71	20.70	20.67	20.71	20.71		
5	64QAM	12	0	20.58	20.80	20.89	20.80	20.71	20.71	22.2	0
5	64QAM	12	7	20.58	20.82	20.84	20.66	20.62	20.62		
5	64QAM	12	13	20.48	20.50	20.84	20.68	20.56	20.56		
5	64QAM	25	0	20.71	20.60	20.81	20.75	20.44	20.44	22.2	0
5	256QAM	1	0	20.70							



Reduced Power Mode for DSIS-Standalone

L200000 Amd												
Device	Best Average Power (dBm)			Fringe Average Power (dBm)								
TX Channel	198	199	201	Limit	198	199	201	Limit				
Frequency (MHz)	88.2	88.4	88.8	(dBm)	88.2	88.4	88.8	(dBm)				
DSIS-1 Tx (w/)	32.90	32.97	32.94	33.50	23.30	23.27	23.24	24.50				
OPRS-1 Tx (w/)	32.83	32.90	32.91	33.50	23.83	23.84	23.91	24.50				
OPRS-2 Tx (w/)	29.30	29.41	29.28	30.50	23.30	23.41	23.28	24.50				
OPRS-3 Tx (w/)	28.91	28.95	28.86	30.00	24.81	24.72	24.80	26.74				
OPRS-4 Tx (w/)	25.41	25.41	25.40	27.50	23.41	23.41	23.40	24.50				
EDGE-1 Tx (w/)	25.40	25.40	25.37	26.50	18.40	18.40	18.37	17.50				
EDGE-2 Tx (w/)	23.77	23.80	23.79	26.00	17.77	17.80	17.79	18.50				
EDGE-3 Tx (w/)	22.88	22.89	22.82	23.50	18.40	18.43	18.38	19.24				
EDGE-4 Tx (w/)	20.90	20.93	20.90	21.50	17.90	17.93	17.90	18.50				
L201000 Amd												
Device	Best Average Power (dBm)			Fringe Average Power (dBm)								
TX Channel	512	561	560	Limit	512	561	560	Limit				
Frequency (MHz)	160.2	160.8	160.9	(dBm)	160.2	160.8	160.9	(dBm)				
DSIS-1 Tx (w/)	27.61	27.68	27.67	28.50	18.61	18.68	18.67	19.50				
OPRS-1 Tx (w/)	27.84	27.81	27.88	28.50	18.84	18.81	18.88	19.50				
OPRS-2 Tx (w/)	24.84	24.84	24.83	26.00	18.84	18.84	18.83	26.00				
OPRS-3 Tx (w/)	23.53	23.50	23.53	24.50	18.07	18.11	18.07	20.54				
OPRS-4 Tx (w/)	20.70	20.70	20.88	21.50	17.70	17.70	17.88	18.50				
EDGE-1 Tx (w/)	22.39	22.87	22.73	23.50	19.39	19.87	19.73	14.50				
EDGE-2 Tx (w/)	21.00	21.50	21.11	22.00	18.00	18.50	18.11	18.50				
EDGE-3 Tx (w/)	20.07	20.12	20.04	21.00	18.07	18.08	18.04	18.74				
EDGE-4 Tx (w/)	17.86	18.00	18.04	18.00	14.86	15.00	15.04	18.00				
Default WCDMA V Amd												
Device	WCDMA V Amd			WCDMA V Amd			WCDMA V Amd					
TX Channel	9302	9400	9308	Limit	1312	1410	1513	Limit	4152	4182	4232	Limit
SA Channel	9302	9400	9308	(dBm)	1312	1410	1513	(dBm)	4152	4182	4232	(dBm)
Frequency (MHz)	1820.4	1890	1907.8	(dBm)	1718.4	1724.8	1752.8	(dBm)	396.4	396.4	346.8	(dBm)
ISPP Ref#1	WCDMA V Amd	22.67	23.05	23.53	21.70	20.30	20.47	20.38	21.00	21.43	22.87	23.40
ISPP Ref#2	RAC W Amd	20.82	20.60	20.67	21.70	20.45	20.51	20.41	21.00	22.45	22.52	22.48
ISPP Ref#3	HSDPA Subcat-1	19.72	19.76	19.70	20.70	19.59	19.66	19.50	20.50	21.55	21.60	21.48
ISPP Ref#4	HSDPA Subcat-2	19.08	19.71	19.65	20.70	19.90	19.93	19.92	20.50	21.66	21.60	21.54
ISPP Ref#5	HSDPA Subcat-3	19.39	19.20	19.21	20.20	19.00	19.11	19.28	20.00	21.61	21.14	21.04
ISPP Ref#6	HSDPA Subcat-4	19.16	19.30	19.21	20.20	18.96	19.18	19.03	20.00	20.98	21.04	21.06
ISPP Ref#7	HSPA+ Subcat-1	19.70	19.83	19.84	20.70	19.54	19.68	19.48	20.50	21.55	21.72	21.42
ISPP Ref#8	HSPA+ Subcat-2	19.50	19.50	19.41	20.20	19.38	19.40	19.32	20.00	21.54	21.62	21.52
ISPP Ref#9	HSPA+ Subcat-3	19.08	19.12	19.05	20.20	18.92	18.93	18.89	20.00	20.95	20.93	20.92
ISPP Ref#10	HSPA+ Subcat-4	19.02	19.15	19.12	20.20	18.90	18.90	19.01	20.00	20.89	21.00	21.03
ISPP Ref#11	HSPA+ Subcat-5	19.06	19.21	19.70	20.70	19.95	19.93	19.91	20.50	21.63	21.88	21.97
ISPP Ref#12	HSPA+ Subcat-6	17.71	17.70	17.84	18.70	17.64	17.60	17.61	18.50	19.87	19.83	19.86
ISPP Ref#13	HSPA+ Subcat-7	18.66	18.71	18.70	19.70	18.52	18.58	18.58	19.00	20.50	20.90	20.91
ISPP Ref#14	HSPA+ Subcat-8	17.81	17.80	17.87	18.70	17.44	17.51	17.48	18.50	19.40	19.82	19.40
ISPP Ref#15	HSPA+ Subcat-9	19.94	19.90	19.82	20.70	19.83	19.48	19.38	20.50	21.56	21.44	21.40



Band 2 Default Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq. (Ch./Freq.)	Power Ch./Freq. (Ch./Freq.)	Power Ch./Freq. (Ch./Freq.)	Time-up (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	24	0	
20	QPSK	1	147	23.06	23.13	23.05			
20	QPSK	1	196	23.04	23.06	23.04			
20	QPSK	50	50	22.92	23.04	22.96			
20	QPSK	100	0	22.99	23.05	22.91			
20	QPSK	100	9	22.95	23.02	22.97			
20	16QAM	1	49	22.85	22.88	22.90	24	0	
20	16QAM	1	99	22.79	22.85	22.80			
20	16QAM	50	50	22.69	22.82	22.74			
20	16QAM	50	24	22.34	22.46	22.35	23.5	0.5	
20	16QAM	50	24	22.34	22.46	22.34			
20	16QAM	50	50	22.26	22.42	22.27			
20	16QAM	100	0	22.29	22.52	22.47			
20	64QAM	1	0	22.72	22.82	22.72			
20	64QAM	1	49	22.68	22.76	22.67			
20	64QAM	50	50	21.84	22.21	21.86	23.5	0.5	
20	64QAM	50	0	21.84	22.21	21.86			
20	64QAM	50	24	21.48	21.50	21.50			
20	64QAM	50	24	21.48	21.56	21.35	22.5	1.5	
20	64QAM	100	0	21.43	21.52	21.38			
20	256QAM	1	0	19.82	19.85	19.85			
20	256QAM	1	99	19.82	19.85	19.80	20.5	3.5	
20	256QAM	1	99	19.86	19.82	19.87			
20	256QAM	50	50	19.70	19.81	19.78			
20	256QAM	100	0	19.67	19.80	19.72			
Channel									
Frequency (MHz)									
15	QPSK	1	0	23.03	23.10	22.99			
15	QPSK	1	49	22.97	22.94	22.94			
15	QPSK	1	74	22.91	22.86	22.83	24	0	
15	QPSK	1	74	22.91	22.86	22.83			
15	QPSK	36	0	22.87	22.89	22.90			
15	QPSK	36	36	22.81	22.84	22.87			
15	QPSK	36	36	22.87	22.86	22.82	24	0	
15	QPSK	75	0	22.91	22.86	22.83			
15	QPSK	75	0	22.90	22.80	22.79			
15	16QAM	1	37	22.77	22.80	22.83	24	0	
15	16QAM	1	74	22.69	22.76	22.75			
15	16QAM	36	0	22.60	22.65	22.65			
15	16QAM	36	36	22.21	22.37	22.26	23.5	0.5	
15	16QAM	36	36	22.21	22.37	22.26			
15	16QAM	75	0	22.67	22.68	22.69			
15	16QAM	75	0	22.67	22.48	22.42			
15	64QAM	1	0	22.42	22.45	22.44	23.5	0.5	
15	64QAM	1	74	22.42	22.45	22.34			
15	64QAM	36	0	21.58	21.67	21.49			
15	64QAM	36	36	21.58	21.67	21.43	23.0	0	
15	64QAM	36	36	21.25	21.25	21.23			
15	64QAM	75	0	21.38	21.37	21.29			
15	256QAM	1	0	19.69	19.72	19.72			
15	256QAM	1	37	19.69	19.62	19.77	20.5	3.5	
15	256QAM	1	37	19.42	19.51	19.42			
15	256QAM	36	0	19.48	19.63	19.50			
15	256QAM	36	36	19.48	19.63	19.50	20.5	3.5	
15	256QAM	36	36	19.86	19.73	19.87			
15	256QAM	75	0	19.69	19.73	19.87			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.88	22.88	22.81			
10	QPSK	1	49	22.92	22.94	22.92			
10	QPSK	1	24	22.89	22.95	22.94	24	0	
10	QPSK	1	24	22.89	22.95	22.94			
10	QPSK	25	12	22.81	23.00	22.94			
10	QPSK	25	25	22.80	22.89	22.89			
10	QPSK	50	0	22.88	22.90	22.86			
10	16QAM	1	0	22.88	22.90	22.86			
10	16QAM	1	25	22.79	22.94	22.88	24	0	
10	16QAM	1	49	22.79	22.94	22.88			
10	16QAM	25	0	22.48	22.51	22.42			
10	16QAM	25	12	22.20	22.24	22.20			
10	16QAM	25	12	22.20	22.24	22.20	23.5	0.5	
10	16QAM	50	0	22.28	22.24	22.24			
10	16QAM	50	0	22.28	22.27	22.69			
10	64QAM	1	0	22.56	22.56	22.56	23.5	0.5	
10	64QAM	1	49	22.43	22.45	22.32			
10	64QAM	25	0	21.56	21.65	21.45			
10	64QAM	25	25	21.38	21.28	21.27	22.5	1.5	
10	64QAM	50	0	21.31	21.31	21.27			
10	256QAM	1	0	19.69	19.72	19.87			
10	256QAM	1	25	19.77	19.82	19.82	21	2	
10	256QAM	1	49	19.67	19.67	19.66			
10	256QAM	1	49	19.67	19.67	19.66			
10	256QAM	12	12	19.66	19.69	19.65	21	2	
10	256QAM	12	12	19.66	19.61	19.64			
10	256QAM	25	25	19.65	19.61	19.64			
10	256QAM	25	0	19.62	19.63	19.60			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.88	22.88	22.81			
5	QPSK	1	24	22.89	22.95	22.94			
5	QPSK	1	24	22.89	22.95	22.94	24	0	
5	QPSK	1	24	22.89	22.95	22.94			
5	QPSK	12	7	22.85	23.03	22.97			
5	QPSK	12	13	22.80	22.98	22.92			
5	QPSK	25	0	22.81	23.00	22.94			
5	QPSK	25	25	22.80	22.89	22.89			
5	16QAM	1	0	22.88	22.90	22.86			
5	16QAM	1	25	22.79	22.94	22.88	24	0	
5	16QAM	1	49	22.79	22.94	22.88			
5	16QAM	12	0	22.40	22.49	22.41			
5	16QAM	12	7	22.22	22.21	22.27			
5	16QAM	12	7	22.22	22.21	22.27	23.5	0.5	
5	16QAM	25	0	22.28	22.38	22.24			
5	16QAM	25	0	22.28	22.38	22.24			
5	64QAM	1	0	22.56	22.56	22.56	23.5	0.5	
5	64QAM	1	24	22.42	22.44	22.34			
5	64QAM	12	0	21.54	21.68	21.43			
5	64QAM	12	13	21.31	21.46	21.43	22.5	1.5	
5	64QAM	25	0	21.30	21.44	21.29			
5	256QAM	1	0	19.74	19.87	19.87			
5	256QAM	1	12	19.75	19.78	19.87	20.5	3.5	
5	256QAM	1	24	19.48	19.55	19.49			
5	256QAM	12	12	19.66	19.75	19.71			
5	256QAM	12	12	19.66	19.61	19.64			
5	256QAM	25	25	19.65	19.74	19.64			
5	256QAM	25	0	19.62	19.73	19.68			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.88	22.88	22.81			
3	QPSK	1	14	22.89	22.95	22.83			
3	QPSK	1	14	22.89	22.95	22.83	24	0	
3	QPSK	1	14	22.89	22.95	22.83			
3	QPSK	8	4	22.83	23.04	22.92			
3	QPSK	8	7	22.86	22.99	22.83			
3	QPSK	15	0	22.87	23.06	22.90			
3	16QAM	1	0	22.85	22.88	22.83			
3	16QAM	1	6	22.71	22.87	22.78	24	0	
3	16QAM	1	14	22.69	22.74	22.65			
3	16QAM	8	4	22.23	22.41	22.24			
3	16QAM	8	4	22.23	22.30	22.14	23.5	0.5	
3	16QAM	15	0	22.31	22.45	22.24			
3	16QAM	15	0	22.31	22.45	22.24			
3	64QAM	1	0	22.56	22.57	22.60	23.5	0.5	
3	64QAM	1	14	22.42	22.47	22.34			
3	64QAM	1	14	22.42	22.43	22.38			
3	64QAM	8	4	21.58	21.68	21.46			
3	64QAM	8	4	21.58	21.68	21.46	23	0	
3	64QAM	8	7	21.40	21.67	21.52			
3	64QAM	15	0	21.30	21.42	21.31			
3	64QAM	15	0	21.30	21.42	21.31	23	0	







Band 25 Default Ant0										
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)										
20	QPSK	1	0	23.16	23.21	23.16	24	0		
20	QPSK	1	49	22.97	23.01	23.03				
20	QPSK	50	0	23.00	23.15	23.05				
20	QPSK	50	24	22.95	23.05	23.00				
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	23.00	22.91				
20	16QAM	1	49	22.94	22.99	22.95	24	0		
20	16QAM	1	99	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	16QAM	1	0	22.86	23.05	22.91				
20	16QAM	1	49	22.79	22.96	22.87	23.5	0.5		
20	16QAM	1	99	21.82	21.95	21.79				
20	16QAM	25	24	21.78	21.79	21.74	22.5	1.5		
20	16QAM	50	24	21.73	21.82	21.72				
20	16QAM	100	0	21.69	21.86	21.84				
20	256QAM	1	49	19.79	19.90	19.83	20.5	3.5		
20	256QAM	1	99	19.77	19.88	19.78				
20	256QAM	50	24	19.73	19.82	19.72				
20	256QAM	50	50	19.77	19.90	19.74	20.5	3.5		
20	256QAM	50	24	19.70	19.74	19.71				
20	256QAM	100	0	19.65	19.88	19.81				
Channel										
Frequency (MHz)										
19	QPSK	1	0	23.06	23.13	23.04	24	0		
19	QPSK	1	49	22.99	23.00	23.00				
19	QPSK	1	74	22.84	22.90	22.87				
19	QPSK	36	0	22.94	23.01	22.95				
19	QPSK	36	20	22.82	22.89	22.88				
19	QPSK	36	36	22.84	22.95	22.75	24	0		
19	QPSK	75	0	22.77	22.86	22.85				
19	16QAM	1	0	22.82	22.88	22.84				
19	16QAM	1	37	22.81	22.87	22.85	24	0		
19	16QAM	1	74	22.68	22.84	22.87				
19	16QAM	36	0	22.70	22.81	22.75				
19	16QAM	36	20	22.68	22.68	22.62	23.5	0.5		
19	16QAM	75	0	22.49	22.53	22.50				
19	16QAM	1	0	22.74	22.90	22.77	23.5	0.5		
19	16QAM	1	49	22.70	22.87	22.77				
19	16QAM	1	74	22.70	22.78	22.68				
19	16QAM	36	0	21.74	21.85	21.85				
19	16QAM	36	49	21.73	21.84	21.88				
19	16QAM	36	49	21.68	21.79	21.59	22.5	1.5		
19	16QAM	75	0	21.65	21.84	21.80				
19	256QAM	1	49	19.79	19.90	19.83	20.5	3.5		
19	256QAM	1	99	19.77	19.79	19.73				
19	256QAM	36	36	19.73	19.82	19.72				
19	256QAM	36	20	19.69	19.87	19.80	20.5	3.5		
19	256QAM	36	20	19.67	19.70	19.61				
19	256QAM	75	0	19.63	19.85	19.85				
Channel										
Frequency (MHz)										
18	QPSK	1	0	22.95	23.00	22.98	24	0		
18	QPSK	1	49	22.90	22.96	22.90				
18	QPSK	12	0	22.87	22.89	22.83				
18	QPSK	25	25	22.87	22.89	22.83	24	0		
18	QPSK	25	25	22.84	22.88	22.71				
18	16QAM	1	0	22.90	22.95	22.83				
18	16QAM	1	25	22.81	22.91	22.88	24	0		
18	16QAM	1	49	22.68	22.84	22.88				
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	12	22.62	22.68	22.67				
18	16QAM	50	0	22.67	22.80	22.54				
18	16QAM	1	0	22.82	22.91	22.85	23.5	0.5		
18	16QAM	1	49	22.78	22.87	22.78				
18	16QAM	1	49	22.72	22.78	22.71				
18	16QAM	25	0	21.79	21.84	21.68				
18	16QAM	25	12	21.74	21.84	21.68	22.5	1.5		
18	16QAM	25	25	21.68	21.77	21.61				
18	16QAM	50	0	21.62	21.56	21.52				
18	256QAM	1	25	19.88	19.75	19.72	20.5	3.5		
18	256QAM	1	49	19.74	19.73	19.68				
18	256QAM	12	13	19.82	19.87	19.81				
18	256QAM	25	12	19.71	19.83	19.88	20.5	3.5		
18	256QAM	25	25	19.65	19.61	19.60				
18	256QAM	50	0	19.55	19.65	19.61				
Channel										
Frequency (MHz)										
17	QPSK	1	0	23.12	23.15	23.13	24	0		
17	QPSK	1	8	22.98	22.96	22.96				
17	QPSK	1	14	22.94	22.93	22.99				
17	QPSK	8	0	22.94	22.95	22.96				
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	8	22.84	23.02	22.85	24	0		
17	16QAM	1	14	22.77	22.75	22.86				
17	16QAM	8	0	22.66	22.87	22.79				
17	16QAM	8	4	22.65	22.65	22.67	23.5	0.5		
17	16QAM	15	0	22.57	22.69	22.60				
17	16QAM	15	0	22.48	22.60	22.53				
17	16QAM	1	0	22.76	22.92	22.80	23.5	0.5		
17	16QAM	1	8	22.68	22.81	22.76				
17	16QAM	1	14	22.65	22.72	22.69				
17	16QAM	8	0	21.76	21.81	21.67				
17	16QAM	8	7	21.67	21.69	21.62	22.5	1.5		
17	16QAM	15	0	21.61	21.74	21.57				
17	256QAM	1	8	19.76	19.86	19.83	20.5	3.5		
17	256QAM	1	8	19.69	19.85	19.77				
17	256QAM	1	14	19.60	19.72	19.60				
17	256QAM	8	0	19.75	19.83	19.81				
17	256QAM	8	4	19.68	19.83	19.80	20.5	3.5		
17	256QAM	8	7	19.60	19.71	19.60				
17	256QAM	15	0	19.50	19.61	19.61				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	23.12	23.12	23.15	24	0		
1.4	QPSK	1	3	22.98	22.97	22.95				
1.4	QPSK	1	5	22.93	22.90	22.99				
1.4	QPSK	3	0	22.95	23.00	22.97				
1.4	QPSK	3	1	22.81	22.87	22.82				
1.4	QPSK	3	1	22.81	22.94	22.71	24	0		
1.4	16QAM	1	0	22.92	23.04	22.93				
1.4	16QAM	1	3	22.84	23.00	22.81				
1.4	16QAM	3	0	22.78	22.89	22.78	24	0		
1.4	16QAM	3	1	22.65	22.76	22.64				
1.4	16QAM	3	3	22.90	23.03	22.79				
1.4	16QAM	3	0	22.70	22.67	22.69	23.5	0.5		
1.4	16QAM	3	1	22.67	22.62	22.62				
1.4	16QAM	1	0	22.97	22.90	22.69	23.5	0.5		
1.4	16QAM	1	3	22.72	22.88	22.83				
1.4	16QAM	6	0	21.68	21.81	21.70	22.5	1.5		
1.4	256QAM	1	0	19.86	19.92	19.81				
1.4	256QAM	1	3	19.69	19.76	19.78				
1.4	256QAM	1	5	19.71	19.78	19.66				
1.4	256QAM	3	0	19.73	19.93	19.72	20.5	3.5		
1.4	256QAM	3	1	19.69	19.76	19.67				
1.4	256QAM	3	1	19.65	19.65	19.58				
1.4	256QAM	6	0	19.54	19.67	19.62	20.5	3.5		

Band										
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### 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	21.40	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	21.43	21.51	21.38	23	0
15	16QAM	75	0	21.62	21.50	21.63	23	0
15	64QAM	1	0	21.43	21.61	21.38	23	0
15	64QAM	1	39	21.43	21.58	21.41	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	4	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	21.63	21.51	23	0
10	QPSK	1	49	21.70	21.70	21.44	23	0
10	QPSK	25	0	21.49	21.67	21.49	23	0
10	QPSK	25	12	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	21.50	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	25	21.30	21.60	21.37	23	0
10	64QAM	1	0	21.30	21.45	21.34	23	0
10	64QAM	1	49	21.34	21.50	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	25	21.41	21.58	21.45	23	0
10	64QAM	50	0	21.54	21.51	21.48	23	0
10	256QAM	1	4	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	18.67	18.74	20.5	2.5
10	256QAM	25	12	18.75	18.81	18.83	20.5	2.5
10	256QAM	25	25	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	21.47	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	21.46	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	21.46	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	21.40	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	21.56	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	1	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	22.34	22.07	22.87	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	1	99	22.84	22.69	22.50	23.5	0.5
20	64QAM	50	0	21.67	21.83	21.73	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	20.20	20.11	20.05			
20	16QAM	100	0	20.03	20.26	20.03			
20	16QAM	1	49	19.94	20.04	20.16			21.5
20	16QAM	1	99	20.10	20.01	20.06			
20	16QAM	50	0	19.85	20.04	20.30			
20	16QAM	50	24	19.83	19.90	19.89			
20	16QAM	50	50	19.82	19.86	19.83			20.5
20	16QAM	100	0	19.85	19.88	19.79			
20	256QAM	1	0	17.91	18.08	17.94			
20	256QAM	1	49	17.82	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	16QAM	75	0	19.94	20.23	20.09			21.5
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	19.91	19.81			20.5
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	19.59			
15	256QAM	1	0	17.78	17.97	17.88			18.5
15	256QAM	1	37	17.70	17.84	17.72			
15	256QAM	1	74	17.72	17.82	17.72			
15	256QAM	36	0	17.83	18.00	17.92			18.5
15	256QAM	36	20	17.82	17.82	17.82			
15	256QAM	36	39	17.64	17.77	17.71			
15	256QAM	75	0	17.79	17.96	17.84			18.5
Channel									
Frequency (MHz)				25721	25695	25670	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	20.56	20.63	20.70			
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	16QAM	50	0	19.98	20.00	20.01			21.5
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			20.5
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			18.5
10	256QAM	1	25	17.72	17.97	17.86			
10	256QAM	1	49	17.71	17.70	17.74			
10	256QAM	12	0	17.84	17.83	17.84			18.5
10	256QAM	25	12	17.86	17.81	17.85			
10	256QAM	25	25	17.05	17.82	17.89			
10	256QAM	50	0	17.85	17.88	17.84			18.5
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	20.20	20.39	20.28			
5	QPSK	25	0	20.31	20.44	20.23			
5	16QAM	1	12	20.28	20.39	20.16			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	19.80			
5	16QAM	25	0	19.82	19.96	19.83			
5	16QAM	1	0	19.84	20.12	20.00			21.5
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			20.5
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			18.5
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			18.5
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			18.5

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)				39750	40185	40600	41055	41460	
20	QPSK	1	0	22.49	22.62	22.69	22.78	22.80	
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	22.06	22.15	22.16	22.15	22.02	
20	QPSK	50	49	22.08	22.36	22.32	22.06	22.13	23.5
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	22.14	
20	16QAM	1	49	22.01	22.04	22.10	22.09	22.00	23.5
20	16QAM	1	99	22.02	22.03	22.13	22.04	22.00	
20	16QAM	50	0	21.92	21.16	21.98	21.24	21.99	
20	16QAM	50	24	21.12	21.57	21.99	21.25	21.97	
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	16QAM	1	0	21.41	21.33	21.43	21.36	21.36	
20	16QAM	1	49	21.52	21.27	21.37	21.27	21.36	22.5
20	16QAM	1	99	21.18	21.38	21.38	21.30	21.30	
20	16QAM	50	0	20.27	20.27	20.40	20.20	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	21.5
20	16QAM	100	0	20.10	20.14	20.22	20.20	20.20	
20	256QAM	1	0	18.24	18.20	18.37	18.24	18.23	
20	256QAM	1	49	18.27	18.18	18.37	18.18	18.24	19.5
20	256QAM	1	99	18.10	18.08	18.23	18.15	18.16	
20	256QAM	50	0	18.09	18.14	18.24	18.10	18.09	
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	18.00	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	21.9					



Band 41 PC2 FCC&IC Ant0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up Int (dBm)	MFR (dB)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
20	QPSK	1	0	24.61	24.58	24.63	24.63	24.39	25.1	0
20	QPSK	1	49	24.52	24.19	24.57	24.36	24.37		
20	QPSK	50	0	24.26	24.46	24.46	24.46	24.36		
20	QPSK	50	0	24.46	24.35	24.33	24.22	24.08		
20	QPSK	50	24	24.35	24.22	24.36	24.29	24.07		
20	QPSK	100	0	24.31	24.19	24.37	24.29	24.18		
20	16QAM	1	0	24.50	24.49	24.54	24.41	24.41	25.1	0
20	16QAM	1	49	24.35	24.20	24.39	24.31	24.06		
20	16QAM	1	99	24.33	24.38	24.40	24.39	24.21		
20	16QAM	50	0	24.26	24.15	24.36	24.27	24.10		
20	16QAM	50	24	24.15	24.20	24.29	24.31	24.06		
20	16QAM	50	50	24.11	24.05	24.17	24.11	23.97	25	0.1
20	64QAM	100	0	24.29	24.21	24.26	24.19	24.17		
20	64QAM	100	0	24.13	24.15	24.23	24.15	24.10		
20	64QAM	1	49	24.02	24.11	24.16	24.15	23.98	25	0.1
20	64QAM	1	99	24.08	24.03	24.14	24.03	23.96		
20	64QAM	50	0	23.28	23.22	23.38	23.20	23.14		
20	64QAM	50	24	23.15	23.14	23.27	23.19	23.03		
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		
20	256QAM	1	0	21.61	21.42	21.59	21.46	21.29		
20	256QAM	1	49	21.54	21.40	21.69	21.52	21.30	22	3.1
20	256QAM	1	99	21.24	21.37	21.38	21.38	21.28		
20	256QAM	50	0	21.69	21.57	21.63	21.59	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	22	3.1
20	256QAM	100	0	21.32	21.20	21.31	21.29	21.08		
Channel										
Frequency (MHz)				25013	25443	25873	26303	26733		
15	QPSK	1	0	24.21	24.16	24.15	24.41	24.12	25.10	0
15	QPSK	1	37	24.45	24.11	24.80	24.32	24.23		
15	QPSK	1	74	24.12	24.27	24.42	24.27	24.27		
15	QPSK	36	0	24.30	24.26	24.44	24.20	24.09		
15	QPSK	36	20	24.32	24.17	24.23	24.22	24.01	25.1	0
15	QPSK	36	39	23.94	24.15	24.15	24.09	24.01		
15	QPSK	75	0	24.18	24.15	24.26	24.17	24.13		
15	16QAM	1	0	24.48	24.38	24.47	24.30	24.30	25.1	0
15	16QAM	1	37	24.21	24.28	24.36	24.41	24.26		
15	16QAM	1	74	24.20	24.31	24.32	24.32	24.14		
15	16QAM	36	0	24.22	24.02	24.24	24.16	23.97		
15	16QAM	36	20	24.02	24.02	24.22	24.05	23.92	25	0.1
15	16QAM	36	39	24.08	23.99	24.08	24.06	23.86		
15	16QAM	75	0	24.10	24.08	24.27	24.04	24.02		
15	64QAM	1	0	24.04	24.10	24.16	24.09	23.99		
15	64QAM	1	37	23.89	24.04	23.97	23.98	23.88	25	0.1
15	64QAM	1	74	24.03	23.89	24.10	23.94	23.92		
15	64QAM	36	0	23.19	23.16	23.35	23.02	23.05		
15	64QAM	36	20	23.05	22.99	23.22	23.15	22.87	24	1.1
15	64QAM	36	39	23.06	22.96	23.14	23.08	22.96		
15	64QAM	75	0	23.04	23.03	23.09	23.15	23.02		
15	256QAM	1	0	21.43	21.30	21.51	21.39	21.22		
15	256QAM	1	37	21.42	21.27	21.46	21.35	21.19	22	3.1
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		
15	256QAM	36	20	21.08	21.12	21.07	21.09	20.98	22	3.1
15	256QAM	36	39	21.10	21.08	21.07	21.09	20.98		
15	256QAM	75	0	21.21	21.12	21.31	21.26	21.07		
Channel										
Frequency (MHz)				25013	25443	25873	26303	26733		
10	QPSK	1	0	24.23	24.17	24.17	24.43	24.14	25.10	0
10	QPSK	1	25	24.38	24.05	24.53	24.33	24.33		
10	QPSK	1	49	24.16	24.37	24.40	24.38	24.29		
10	QPSK	1	74	24.43	24.05	24.46	24.29	24.06		
10	QPSK	25	12	24.23	24.15	24.23	24.15	23.95	25.1	0
10	QPSK	25	25	23.95	24.01	24.15	24.27	24.06		
10	16QAM	1	0	24.38	24.16	24.27	24.26	24.06		
10	16QAM	1	0	24.38	24.37	24.40	24.30	24.34		
10	16QAM	1	25	24.22	24.31	24.34	24.37	24.11	25.1	0
10	16QAM	1	49	24.21	24.32	24.29	24.32	24.17		
10	16QAM	25	0	24.23	24.09	24.31	24.12	24.03		
10	16QAM	25	12	24.12	24.15	24.22	24.06	23.91	25	0.1
10	16QAM	25	25	24.04	23.96	24.14	24.05	23.87		
10	16QAM	50	0	24.18	24.14	24.28	24.08	24.13		
10	64QAM	1	0	24.08	24.09	24.26	24.08	23.97		
10	64QAM	1	25	23.94	23.88	24.02	23.92	23.86	25	0.1
10	64QAM	25	12	23.21	23.08	23.25	23.15	23.03		
10	64QAM	25	25	23.02	22.97	23.20	23.08	22.96	24	1.1
10	64QAM	50	0	22.97	22.97	23.15	23.18	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	21.30	21.25	22	3.1
10	256QAM	1	49	21.14	21.30	21.35	21.30	21.22		
10	256QAM	25	0	21.28	21.21	21.38	21.32	21.20		
10	256QAM	25	12	21.09	21.04	21.21	21.17	20.94	22	3.1
10	256QAM	25	25	20.90	21.07	21.13	21.15	20.95		
10	256QAM	50	0	21.28	21.16	21.27	21.11	21.02		
Channel										
Frequency (MHz)				2688.5	2744.5	2793	2840.50	2897.5		
5	QPSK	1	0	24.26	24.46	24.53	24.33	24.36	25.10	0
5	QPSK	1	12	24.43	24.15	24.86	24.32	24.28		
5	QPSK	1	24	24.18	24.33	24.42	24.28	24.28		
5	QPSK	10	0	24.30	24.33	24.43	24.30	23.94		
5	QPSK	10	7	24.30	24.12	24.26	24.24	23.99		
5	QPSK	12	18	23.97	24.12	24.11	24.17	24.03	25.1	0
5	QPSK	25	0	24.26	24.05	24.36	24.23	24.06		
5	16QAM	1	0	24.42	24.46	24.41	24.28	24.33		
5	16QAM	1	12	24.32	24.31	24.30	24.41	24.21	25.1	0
5	16QAM	1	24	24.21	24.31	24.28	24.25	24.18		
5	16QAM	10	0	24.20	24.02	24.31	24.20	24.02		
5	16QAM	10	7	24.15	24.14	24.19	24.06	23.97	25	0.1
5	16QAM	10	13	24.06	23.98	24.03	24.07	23.86		
5	16QAM	25	0	24.12	24.15	24.26	24.08	24.07		
5	64QAM	1	0	24.07	24.10	24.21	24.05	24.00		
5	64QAM	1	12	23.91	23.97	24.02	24.07	23.92	25	0.1
5	64QAM	1	24	23.97	23.99	24.11	23.99	23.89		
5	64QAM	10	0	23.18	23.14	23.27	23.10	23.06		
5	64QAM	10	7	23.08	23.06	23.15	23.10	22.99	24	1.1
5	64QAM	12	13	23.00	22.98	23.16	23.05	22.91		
5	64QAM	25	0	23.08	23.11	23.11	23.18	23.08		
5	256QAM	1	0	21.45	21.34	21.49	21.41	21.22		
5	256QAM	1	12	21.48	21.25	21.46	21.27	21.17	22	3.1
5	256QAM	1	24	21.19	21.30	21.32	21.28	21.22		
5	256QAM	10	7	21.10	21.07	21.22	21.20	20.93	22	3.1
5	256QAM	10	13	21.09	21.06	21.15	21.16	20.99		
5	256QAM	25	0	21.24	21.17	21.25	21.12	21.06		

Band 48 Default Ant0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq</			



DCM900 Aet		Default					
		Base-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 side	31.42	31.48	31.36	22.42	22.48	22.36
	OPRS-2 Tx side	26.80	26.86	26.80	22.54	22.60	22.54
	OPRS-3 Tx side	25.16	25.22	25.17	20.16	20.22	20.17
	EDGE-1 Tx side	24.00	24.17	24.05	18.03	18.17	18.00
	EDGE-2 Tx side	22.20	22.41	22.34	16.20	16.41	16.34
	EDGE-3 Tx side	21.15	21.21	21.08	15.89	16.07	15.82
	EDGE-4 Tx side	18.50	18.60	18.53	13.99	14.08	14.01

  

DCM1900 Aet		Default					
		Base-Average Power (dBm)			Frame-Average Power (dBm)		
	TX Channel	1892.2	1892	1890.8	1892.2	1892	1890.8
	Frequency (MHz)	912	910	910	912	910	910
	OPRS-1 Tx side	27.52	27.67	27.67	18.50	18.67	18.67
	OPRS-2 Tx side	25.06	25.00	24.98	19.06	19.00	18.98
	OPRS-3 Tx side	25.36	25.42	25.32	19.10	19.16	19.06
	OPRS-4 Tx side	20.62	20.74	20.63	17.82	17.74	17.83
	EDGE-1 Tx side	12.76	12.86	12.72	13.76	13.86	13.72
	EDGE-2 Tx side	21.13	21.22	21.13	15.13	15.22	15.13
	EDGE-3 Tx side	14.82	14.96	14.82	11.82	11.96	11.82
	EDGE-4 Tx side	17.91	18.00	17.97	14.91	15.00	14.97

  

	Base	Default WCDMA II Aet			Default WCDMA IV Aet			Default WCDMA V Aet		
	TX Channel	9582	9600	9588	1432	1413	1513	4152	4162	4238
	Frequency (MHz)	1852.4	1860	1867.6	1712.4	1724.8	1752.8	836.4	838.4	846.8
ISPP-Rel#0	HRPA-Subnet0	21.46	21.50	21.44	23.00	23.42	23.31	22.50	21.14	21.04
ISPP-Rel#0	HRPA-Subnet1	21.48	21.51	21.51	23.00	23.45	23.32	22.50	21.17	21.00
ISPP-Rel#0	HRPA-Subnet2	20.85	20.64	20.47	22.00	20.46	20.57	20.32	21.50	20.23
ISPP-Rel#0	HRPA-Subnet3	20.48	20.51	20.52	22.00	20.42	20.50	20.41	21.50	20.22
ISPP-Rel#0	HRPA-Subnet4	20.02	20.14	20.10	21.50	19.91	20.02	19.95	21.00	19.87
ISPP-Rel#0	DCHHRPA-Subnet1	19.56	20.18	20.36	21.50	19.87	20.31	20.54	21.00	19.86
ISPP-Rel#0	DCHHRPA-Subnet2	20.50	20.70	20.45	22.00	20.46	20.63	20.35	21.00	20.21
ISPP-Rel#0	DCHHRPA-Subnet3	20.37	20.42	20.36	22.00	20.33	20.20	20.28	21.00	20.08
ISPP-Rel#0	DCHHRPA-Subnet4	19.00	19.96	19.92	21.50	19.84	19.84	19.86	21.00	19.95
ISPP-Rel#0	HRPA-Subnet5	19.87	18.54	18.50	21.50	19.82	19.80	19.83	21.00	19.49
ISPP-Rel#0	HRPA-Subnet6	20.96	20.81	20.80	22.00	20.43	20.58	20.56	21.00	20.22
ISPP-Rel#0	HRPA-Subnet7	18.53	18.67	18.52	20.00	18.42	18.53	18.39	19.50	18.09
ISPP-Rel#0	HRPA-Subnet8	18.50	18.48	18.48	21.00	18.43	18.51	18.49	19.50	18.16
ISPP-Rel#0	HRPA-Subnet9	18.46	18.48	18.44	20.00	18.37	18.45	18.35	19.50	18.04
ISPP-Rel#0	HRPA-Subnet10	20.59	20.40	20.39	22.00	20.55	20.36	20.33	21.00	20.21



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.	Ch. 1 / Freq.	Ch. 2 / Freq.	Ch. 3 / Freq.	Turn-up (dB)	MPR (dB)		
20	QPSK	1	0	20.90	21.00	20.98				
20	QPSK	1	4	20.92	20.98	20.78				
20	QPSK	1	8	20.90	20.90	20.90				
20	QPSK	1	12	20.90	21.00	20.98				
20	QPSK	1	16	20.92	20.98	20.78				
20	QPSK	1	20	20.90	20.90	20.90				
20	QPSK	1	24	20.92	20.98	20.78				
20	QPSK	1	28	20.90	20.90	20.90				
20	QPSK	1	32	20.92	20.98	20.78				
20	QPSK	1	36	20.90	20.90	20.90				
20	QPSK	1	40	20.92	20.98	20.78				
20	QPSK	1	44	20.90	20.90	20.90				
20	QPSK	1	48	20.92	20.98	20.78				
20	QPSK	1	52	20.90	20.90	20.90				
20	QPSK	1	56	20.92	20.98	20.78				
20	QPSK	1	60	20.90	20.90	20.90				
20	QPSK	1	64	20.92	20.98	20.78				
20	QPSK	1	68	20.90	20.90	20.90				
20	QPSK	1	72	20.92	20.98	20.78				
20	QPSK	1	76	20.90	20.90	20.90				
20	QPSK	1	80	20.92	20.98	20.78				
20	QPSK	1	84	20.90	20.90	20.90				
20	QPSK	1	88	20.92	20.98	20.78				
20	QPSK	1	92	20.90	20.90	20.90				
20	QPSK	1	96	20.92	20.98	20.78				
20	QPSK	1	100	20.90	20.90	20.90				
20	QPSK	1	104	20.92	20.98	20.78				
20	QPSK	1	108	20.90	20.90	20.90				
20	QPSK	1	112	20.92	20.98	20.78				
20	QPSK	1	116	20.90	20.90	20.90				
20	QPSK	1	120	20.92	20.98	20.78				
20	QPSK	1	124	20.90	20.90	20.90				
20	QPSK	1	128	20.92	20.98	20.78				
20	QPSK	1	132	20.90	20.90	20.90				
20	QPSK	1	136	20.92	20.98	20.78				
20	QPSK	1	140	20.90	20.90	20.90				
20	QPSK	1	144	20.92	20.98	20.78				
20	QPSK	1	148	20.90	20.90	20.90				
20	QPSK	1	152	20.92	20.98	20.78				
20	QPSK	1	156	20.90	20.90	20.90				
20	QPSK	1	160	20.92	20.98	20.78				
20	QPSK	1	164	20.90	20.90	20.90				
20	QPSK	1	168	20.92	20.98	20.78				
20	QPSK	1	172	20.90	20.90	20.90				
20	QPSK	1	176	20.92	20.98	20.78				
20	QPSK	1	180	20.90	20.90	20.90				
20	QPSK	1	184	20.92	20.98	20.78				
20	QPSK	1	188	20.90	20.90	20.90				
20	QPSK	1	192	20.92	20.98	20.78				
20	QPSK	1	196	20.90	20.90	20.90				
20	QPSK	1	200	20.92	20.98	20.78				
20	QPSK	1	204	20.90	20.90	20.90				
20	QPSK	1	208	20.92	20.98	20.78				
20	QPSK	1	212	20.90	20.90	20.90				
20	QPSK	1	216	20.92	20.98	20.78				
20	QPSK	1	220	20.90	20.90	20.90				
20	QPSK	1	224	20.92	20.98	20.78				
20	QPSK	1	228	20.90	20.90	20.90				
20	QPSK	1	232	20.92	20.98	20.78				
20	QPSK	1	236	20.90	20.90	20.90				
20	QPSK	1	240	20.92	20.98	20.78				
20	QPSK	1	244	20.90	20.90	20.90				
20	QPSK	1	248	20.92	20.98	20.78				
20	QPSK	1	252	20.90	20.90	20.90				
20	QPSK	1	256	20.92	20.98	20.78				
20	QPSK	1	260	20.90	20.90	20.90				
20	QPSK	1	264	20.92	20.98	20.78				
20	QPSK	1	268	20.90	20.90	20.90				
20	QPSK	1	272	20.92	20.98	20.78				
20	QPSK	1	276	20.90	20.90	20.90				
20	QPSK	1	280	20.92	20.98	20.78				
20	QPSK	1	284	20.90	20.90	20.90				
20	QPSK	1	288	20.92	20.98	20.78				
20	QPSK	1	292	20.90	20.90	20.90				
20	QPSK	1	296	20.92	20.98	20.78				
20	QPSK	1	300	20.90	20.90	20.90				
20	QPSK	1	304	20.92	20.98	20.78				
20	QPSK	1	308	20.90	20.90	20.90				
20	QPSK	1	312	20.92	20.98	20.78				
20	QPSK	1	316	20.90	20.90	20.90				
20	QPSK	1	320	20.92	20.98	20.78				
20	QPSK	1	324	20.90	20.90	20.90				
20	QPSK	1	328	20.92	20.98	20.78				
20	QPSK	1	332	20.90	20.90	20.90				
20	QPSK	1	336	20.92	20.98	20.78				
20	QPSK	1	340	20.90	20.90	20.90				
20	QPSK	1	344	20.92	20.98	20.78				
20	QPSK	1	348	20.90	20.90	20.90				
20	QPSK	1	352	20.92	20.98	20.78				
20	QPSK	1	356	20.90	20.90	20.90				
20	QPSK	1	360	20.92	20.98	20.78				
20	QPSK	1	364	20.90	20.90	20.90				
20	QPSK	1	368	20.92	20.98	20.78				
20	QPSK	1	372	20.90	20.90	20.90				
20	QPSK	1	376	20.92	20.98	20.78				
20	QPSK	1	380	20.90	20.90	20.90				
20	QPSK	1	384	20.92	20.98	20.78				
20	QPSK	1	388	20.90	20.90	20.90				
20	QPSK	1	392	20.92	20.98	20.78				
20	QPSK	1	396	20.90	20.90	20.90				
20	QPSK	1	400	20.92	20.98	20.78				
20	QPSK	1	404	20.90	20.90	20.90				
20	QPSK	1	408	20.92	20.98	20.78				
20	QPSK	1	412	20.90	20.90	20.90				
20	QPSK	1	416	20.92	20.98	20.78				
20	QPSK	1	420	20.90	20.90	20.90				
20	QPSK	1	424	20.92	20.98	20.78				
20	QPSK	1	428	20.90	20.90	20.90				
20	QPSK	1	432	20.92	20.98	20.78				
20	QPSK	1	436	20.90	20.90	20.90				
20	QPSK	1	440	20.92	20.98	20.78				
20	QPSK	1	444	20.90	20.90	20.90				
20	QPSK	1	448	20.92	20.98	20.78				
20	QPSK	1	452	20.90	20.90	20.90				
20	QPSK	1	456	20.92	20.98	20.78				
20	QPSK	1	460	20.90	20.90	20.90				
20	QPSK	1	464	20.92	20.98	20.78				
20	QPSK	1	468	20.90	20.90	20.90				
20	QPSK	1	472	20.92	20.98	20.78				
20	QPSK	1	476	20.90	20.90	20.90				
20	QPSK	1	480	20.92	20.98	20.78				
20	QPSK	1	484	20.90	20.90	20.90				
20	QPSK	1	488	20.92	20.98	20.78				
20	QPSK	1	492	20.90	20.90	20.90				
20	QPSK	1	496	20.92	20.98	20.78				
20	QPSK	1	500	20.90	20.90	20.90				
20	QPSK	1	504	20.92	20.98	20.78				
20	QPSK	1	508	20.90	20.90	20.90				
20	QPSK	1	512	20.92	20.98	20.78				
20	QPSK	1	516	20.90	20.90	20.90				



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)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.81	21.73	21.68				
10	QPSK	1	25	21.82	21.74	21.69				
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	21.63				
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	21.33		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	18.42	18.42	18.46		19.5	3.5	
10	256QAM	1	49	18.41	18.37	18.33				
10	256QAM	25	0	18.44	18.42	18.46				
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	18.35	18.30				
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.56	21.63	21.54				
5	QPSK	1	25	21.57	21.66	21.44				
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	1	21.51	21.48	21.40				
5	16QAM	1	12	21.36	21.37	21.23		23	0	
5	16QAM	1	24	21.32	21.39	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	8QAM	1	0	21.20	21.36	21.22		22.5	0.5	
5	8QAM	1	12	21.15	21.25	21.20				
5	8QAM	1	24	20.31	20.41	20.36				
5	8QAM	12	0	20.33	20.34	20.16				
5	8QAM	12	13	20.17	20.20	20.15		21.5	1.5	
5	8QAM	25	0	20.15	20.22	20.24				
5	256QAM	1	0	18.36	18.32	18.36				
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	18.32	18.27	18.28				
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	20.96				
3	QPSK	1	8	21.42	21.43	21.38				
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	7	0	21.47	21.47	21.37				
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	21.30	21.27				
3	16QAM	15	0	21.22	21.47	21.39				
3	8QAM	1	0	21.20	21.40	21.29		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				
3	8QAM	8	4	20.33	20.38	20.25				
3	8QAM	8	7	20.16	20.19	20.27		21.5	1.5	
3	256QAM	1	0	18.30	18.23	18.26				
3	256QAM	1	8	18.27	18.49	18.43		19.5	3.5	
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	18.10	18.20				
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	21.28	21.43	21.40				
1.4	16QAM	3	0	21.28	21.48	21.39		23	0	
1.4	8QAM	1	0	21.26	21.44	21.28				
1.4	8QAM	3	0	21.23	21.37	21.36				
1.4	8QAM	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	20.39	20.41	20.29		21.5	1.5	
1.4	256QAM	1	0	18.37	18.40	18.44				
1.4	256QAM	1	3	18.33	18.50	18.44		19.5	3.5	
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	6	0	18.19	18.24	18.22				
1.4	256QAM	6	3	18.21	18.30	18.19		19.5	3.5	

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)	MPR (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	QPSK	50	12	21.51	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	21.49	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				





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	20.73				
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	21.06	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	20.79				
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	20.89				
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	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	20.88	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	20.91	20.96	20.91				
15	16QAM	36	20	20.71	20.86	20.74			22	0
15	16QAM	36	39	20.87	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	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	17.88	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	20.87	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	16QAM	1	0	20.79	20.88	20.88				
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	20.86	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	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	28	17.88	17.99	17.74			19	3
10	256QAM	1	49	17.71	17.75	17.62				
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	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	20.86				
5	QPSK	12	7	20.73	20.83	20.74			22	0
5	QPSK	12	13	20.64	20.80	20.74				
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			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			19	3
5	256QAM	1	12	17.81	17.82	17.74				
5	256QAM	1	24	17.73	17.79	17.69			19	3
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	25	0	17.83	17.84	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			22	0
3	16QAM	1	8	20.78	20.84	20.85				
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	20.86	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	20.79			22	0
3	64QAM	1	14	20.81	20.79	20.89				
3	64QAM	8	0	20.75	20.84	20.79				
3	64QAM	8	4	20.71	20.83	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	8								



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 (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	20.99	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	20.88	20.85	22	0		
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	20.90	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	20.89				
20	64QAM	100	0	20.74	20.83	20.82				
20	256QAM	1	49	17.67	17.69	17.61	19	3		
20	256QAM	1	99	17.93	17.91	17.95				
20	256QAM	1	99	17.79	17.80	17.85				
20	256QAM	50	24	17.60	17.75	17.62	19	3		
20	256QAM	50	50	17.47	17.58	17.47				
20	256QAM	100	0	17.73	17.75	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	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	20.83	20.75				
15	16QAM	1	39	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	22	0		
15	16QAM	36	39	20.59	20.60	20.68				
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	20.68	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	20.48	20.48	22	0		
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	19	3		
15	256QAM	1	39	17.78	17.80	17.83				
15	256QAM	1	74	17.85	17.85	17.81				
15	256QAM	36	0	17.46	17.70	17.60	19	3		
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	17.43	17.74				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.92	21.07	20.92				
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	20.90	20.88				
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	20.60	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	20.48	20.45				
10	64QAM	50	0	20.87	20.79	20.75				
10	256QAM	1	0	17.86	17.82	17.82	19	3		
10	256QAM	1	25	17.88	17.86	17.87				
10	256QAM	1	49	17.85	17.78	17.79				
10	256QAM	25	0	17.53	17.43	17.59	19	3		
10	256QAM	25	12	17.57	17.52	17.45				
10	256QAM	25	25	17.36	17.45	17.43	19	3		
10	256QAM	50	0	17.62	17.62	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	20.84	20.80				
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	20.84	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	20.92	20.82	20.84				
5	64QAM	1	0	20.76	20.88	20.69				
5	64QAM	1	12	20.85	20.77	20.64	22	0		
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	22	0		
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	19	3		
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	17.62	17.69	19	3		
5	256QAM	12	7	17.54	17.50	17.47				
5	256QAM	12	13	17.39	17.49	17.44	19	3		
5	256QAM	25	0	17.44	17.38	17.75				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.91	21.08	20.92				
3	QPSK	1	8	20.85	20.86	20.74	22	0		
3	QPSK	1	14	20.75	20.85	20.68				
3	QPSK	8	0	20.73	20.80	20.88				
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	20.68	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	20.65	20.61	20.65				
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	20.88	20.69				
3	64QAM	8	4	20.45	20.61	20.46	22	0		
3	64QAM	8	7	20.49	20.53	20.43				
3	256QAM									



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)	MFR (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	21.95	22.09	21.99				
30	HQAM	100	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	21.90	21.94	21.85				
30	HQAM	100	0	21.91	22.05	21.96				
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	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	21.82	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	23	0		
15	HQAM	1	37	22.17	22.28	22.23				
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	21.88				
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	18.75				
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	18.92				
15	256QAM	36	39	18.85	18.88	18.84				
15	256QAM	75	0	18.89	19.00	18.95				
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	22.31	22.38	22.38	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	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	21.91	21.88				
10	HQAM	25	25	21.78	21.85	21.77				
10	HQAM	50	0	21.87	22.00	21.80				
10	HQAM	1	0	22.16	22.38	22.37	23	0		
10	HQAM	1	49	22.15	22.29	22.27				
10	HQAM	1	25	22.21	22.31	22.23				
10	HQAM	12	0	22.03	22.10	22.12	23	0		
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	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	12	0	18.83	19.11	18.89	20.5	2.5		
10	256QAM	12	13	18.90	19.03	18.90				
10	256QAM	25	0	18.80	19.03	18.80				
10	256QAM	25	12	18.85	18.94	18.87				
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	23	0		
5	HQAM	1	0	22.31	22.41	22.34				
5	HQAM	1	12	22.21	22.24	22.13	23	0		
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	21.76	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)	MFR (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	22.60	23.5	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	23.5	0		
20	QPSK	100	0	22.47	22.50	22.54	23.4	0		
20	HQAM	1	0	22.71	22.84	22.81	23.5	0		
20	HQAM	1	49	22.69	22.53	22.83	23.5	0		
20	HQAM	1	99	22.54	22.47	22.84	23.4	0		
20										



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	23.91	23.91	23.91	23.91	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	23.84	25.1	0
20	QPSK	50	24	23.81	23.80	24.01	23.86	23.78	23.78	25.1	0
20	QPSK	50	48	23.70	23.69	23.85	23.70	23.70	23.70	25.1	0
20	QPSK	100	0	23.69	23.67	23.88	23.64	23.90	23.90	25.1	0
20	HQAM	1	0	23.77	23.72	23.86	23.79	23.74	23.74	25.1	0
20	HQAM	1	49	23.64	23.62	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	23.51	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	50	48	23.22	23.20	23.34	23.18	23.36	23.36	25.1	0
20	HQAM	100	0	23.22	23.20	23.29	23.29	23.29	23.29	25.1	0
20	HQAM	1	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	23.69	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	0.1
20	HQAM	50	24	23.03	23.02	23.03	23.16	23.10	23.10	25	0.1
20	HQAM	50	48	23.06	23.12	23.10	23.09	23.05	23.05	25	0.1
20	HQAM	100	0	23.11	23.08	23.11	23.03	23.03	23.03	25	0.1
20	SSBQAM	1	0	21.51	21.49	21.68	21.44	21.58	21.58	23	2.1
20	SSBQAM	1	49	21.43	21.41	21.68	21.42	21.52	21.52	23	2.1
20	SSBQAM	1	99	21.30	21.36	21.56	21.41	21.51	21.51	23	2.1
20	SSBQAM	50	0	21.37	21.38	21.56	21.34	21.46	21.46	23	2.1
20	SSBQAM	50	24	21.27	21.23	21.48	21.24	21.38	21.38	23	2.1
20	SSBQAM	50	48	21.23	21.28	21.41	21.20	21.36	21.36	23	2.1
20	SSBQAM	100	0	21.50	21.50	21.56	21.56	21.54	21.54	23	2.1
Channel											
Frequency (MHz)				39725	40172	40620	41068	41515	41925		
15	QPSK	1	0	23.09	23.07	23.09	23.17	23.12	23.12	25	0
15	QPSK	1	37	23.83	23.93	24.05	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	23.84	25	0
15	QPSK	38	20	23.60	23.67	23.84	23.61	23.75	23.75	25	0
15	QPSK	75	0	23.62	23.65	23.78	23.60	23.65	23.65	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	23.62	23.50	23.68	23.68	25	0
15	HQAM	1	74	23.51	23.59	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	23.27	23.28	23.14	23.14	25	0
15	HQAM	38	39	23.33	23.33	23.32	23.31	23.10	23.10	25	0
15	HQAM	75	0	23.20	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	23.59	23.36	23.54	23.54	25	0
15	HQAM	1	74	23.31	23.46	23.56	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	0.1
15	HQAM	38	20	23.13	23.18	23.20	23.19	23.14	23.14	25	0.1
15	HQAM	38	39	23.12	23.12	23.12	23.12	23.12	23.12	25	0.1
15	SSBQAM	1	0	23.09	23.15	23.12	23.15	23.03	23.03	23	2.1
15	SSBQAM	1	0	21.44	21.44	21.54	21.33	21.45	21.45	23	2.1
15	SSBQAM	1	37	21.29	21.29	21.29	21.29	21.29	21.29	23	2.1
15	SSBQAM	1	74	21.25	21.20	21.52	21.31	21.41	21.41	23	2.1
15	SSBQAM	38	0	21.28	21.27	21.39	21.26	21.30	21.30	23	2.1
15	SSBQAM	38	20	21.12	21.14	21.25	21.18	21.27	21.27	23	2.1
15	SSBQAM	38	39	21.14	21.22	21.37	21.12	21.30	21.30	23	2.1
15	SSBQAM	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	23.87	23.87	23.87	23.87	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	23.86	23.80	23.80	25	0
10	QPSK	25	12	23.70	23.61	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	23.62	23.71	23.62	23.85	23.85	25	0
10	HQAM	1	0	23.60	23.78	23.89	23.64	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	23.62	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	23.14	23.01	23.27	23.07	23.14	23.14	25	0
10	HQAM	25	25	23.11	23.04	23.23	23.07	23.27	23.27	25	0
10	HQAM	50	0	23.04	23.10	23.30	23.11	23.15	23.15	25	0
10	HQAM	50	12	23.36	23.07	23.60	23.46	23.60	23.60	25	0
10	HQAM	50	25	23.28	23.47	23.54	23.45	23.46	23.46	25	0
10	HQAM	1	0	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	0.1
10	HQAM	25	12	22.79	22.77	22.91	22.87	22.82	22.82	25	0.1
10	HQAM	25	25	22.75	22.62	22.85	22.69	22.88	22.88	25	0.1
10	HQAM	50	0	22.64	22.66	22.85	22.75	22.75	22.75	25	0.1
10	SSBQAM	1	0	21.45	21.46	21.56	21.35	21.48	21.48	23	2.1
10	SSBQAM	1	25	21.29	21.34	21.51	21.37	21.46	21.46	23	2.1
10	SSBQAM	1	49	21.28	21.25	21.45	21.33	21.42	21.42	23	2.1
10	SSBQAM	25	0	21.33	21.29	21.44	21.25	21.41	21.41	23	2.1
10	SSBQAM	25	12	21.31	21.31	21.50	21.16	21.30	21.30	23	2.1
10	SSBQAM	25	25	21.11	21.14	21.27	21.11	21.29	21.29	23	2.1
10	SSBQAM	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	23.87	23.84	23.84	25	0
5	QPSK	1	12	23.62	23.68	23.80	23.61	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	23.62	23.68	23.80	23.74	23.70	23.70	25	0
5	QPSK	12	7	23.61	23.78	23.81	23.62	23.67	23.67	25	0
5	QPSK	12	13	23.65	23.65	23.85	23.49	23.75	23.75	25	0
5	QPSK	25	0	23.53	23.61	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	23.56	23.82	23.62	23.66	23.66	25	0
5	HQAM	1	24	23.56	23.62	23.68	23.59	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	22.96	23.06	23.28	22.84				



OSM 1900 Avg									
Default									
	Best Average Power (dBm)			TimeUp	Frame-Average Power (dBm)			TimeUp	
TX Channel	812	861	810	Limit	812	861	810	Limit	
Frequency (MHz)	1812	1862	1812	(dBm)	1812	1862	1812	(dBm)	
OSM 1 Tx Wd	28.25	28.23	28.19	29.00	19.25	19.33	19.19	20.00	
OSM 1 Tx Wd	28.23	28.20	28.19	29.00	19.23	19.33	19.19	20.00	
OSM 2 Tx Wd	29.46	29.50	29.40	29.00	19.46	19.53	19.40	20.00	
OSM 3 Tx Wd	23.98	24.13	24.00	25.00	13.72	13.87	13.74	20.74	
OSM 4 Tx Wd	21.90	22.00	21.80	23.00	13.90	13.99	13.80	20.00	
EDGE 1 Tx Wd	23.89	23.64	23.81	24.00	14.59	14.64	14.81	15.00	
EDGE 2 Tx Wd	21.86	22.83	21.83	23.00	13.86	16.83	13.86	19.00	
EDGE 3 Tx Wd	20.78	20.55	20.70	21.00	10.52	10.59	10.44	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									
	WCDMA II			TimeUp	WCDMA IV			TimeUp	
TX Channel	862	860	858	Limit	812	861	810	Limit	
Frequency (MHz)	862	860	858	(dBm)	812	861	810	(dBm)	
SOPF Rel 99	21.56	21.52	21.46	22.00	11.72	11.74	11.72	22.00	
SOPF Rel 99	21.54	21.52	21.49	22.00	11.47	11.53	11.44	23.00	
SOPF Rate	20.93	20.74	20.49	21.00	20.92	20.86	20.92	21.00	
SOPF Rate	20.56	20.69	20.53	21.00	20.47	20.61	20.43	21.00	
SOPF Rate	20.71	20.77	20.74	21.00	19.81	20.04	19.65	21.00	
SOPF Rate	20.02	20.10	20.02	21.00	19.98	20.06	20.05	21.00	
SOPF Rate	20.55	20.73	20.51	21.00	20.48	20.58	20.59	21.00	
SOPF Rate	20.34	20.41	20.40	21.00	20.29	20.37	20.31	21.00	
SOPF Rate	19.88	19.98	19.84	21.00	19.80	19.87	19.83	21.00	
SOPF Rate	19.93	19.91	19.90	21.00	19.76	19.80	19.84	21.00	
SOPF Rate	20.59	20.72	20.71	21.00	20.49	20.65	20.60	21.00	
SOPF Rate	19.59	19.60	19.45	19.00	19.46	19.49	19.59	19.00	
SOPF Rate	19.08	19.00	19.00	20.00	19.49	19.51	19.48	20.00	
SOPF Rate	18.43	18.57	18.41	19.00	18.38	18.44	18.33	19.00	
SOPF Rate	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 (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	21.12	21.14	21.07				
20	QPSK	1	49	21.12	21.14	21.07	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	50	20.98	21.01	20.98				
20	QPSK	100	0	21.01	21.12	21.03				
20	QPSK	100	24	21.01	21.12	21.06	22	0		
20	QPSK	100	49	20.94	21.03	20.99				
20	HQAM	1	0	20.96	20.99	20.83				
20	HQAM	1	99	20.96	21.07	20.97	22	0		
20	HQAM	50	24	20.90	20.95	20.94				
20	HQAM	50	50	20.87	20.90	20.84				
20	HQAM	100	0	20.97	21.18	21.10				
20	HQAM	100	24	21.01	21.07	21.02	22	0		
20	HQAM	100	49	20.93	21.06	20.98				
20	HQAM	50	0	19.87	19.97	19.84				
20	HQAM	50	24	19.79	19.90	19.73	21	1		
20	HQAM	50	50	19.83	19.94	19.85				
20	HQAM	100	0	19.90	21.09	20.99				
20	HQAM	100	24	19.80	19.94	19.88				
20	HQAM	100	49	19.85	19.97	19.89	19	3		
20	HQAM	50	0	18.02	18.08	18.02				
20	HQAM	50	24	17.96	17.99	17.88	19	3		
20	HQAM	50	50	17.88	17.95	17.88				
20	HQAM	100	0	17.87	17.95	17.88				
20	HQAM	100	24	17.82	17.92	17.85				
20	HQAM	100	49	17.85	17.92	17.85				
15	QPSK	1	0	21.01	21.18	20.82				
15	QPSK	1	49	20.99	21.07	20.87	22	0		
15	QPSK	1	99	20.84	20.98	20.84				
15	QPSK	50	0	20.97	21.08	21.06				
15	QPSK	50	24	20.79	21.03	20.84	22	0		
15	QPSK	50	50	20.82	20.92	20.87				
15	QPSK	100	0	20.96	21.07	20.97				
15	QPSK	100	24	21.01	21.04	21.04	22	0		
15	HQAM	1	0	20.90	20.93	20.88				
15	HQAM	1	99	20.90	20.93	20.88	22	0		
15	HQAM	50	24	20.87	20.88	20.82				
15	HQAM	50	50	20.80	20.98	20.82				
15	HQAM	100	0	20.77	20.87	20.88				
15	HQAM	100	24	20.83	20.92	20.88	22	0		
15	HQAM	100	49	20.76	20.99	20.82				
15	HQAM	50	0	20.88	21.07	21.04				
15	HQAM	50	24	20.83	20.92	20.88	22	0		
15	HQAM	50	50	20.85	20.95	20.85				
15	HQAM	100	0	19.82	19.89	19.78				
15	HQAM	100	24	19.84	19.94	19.83	21	1		
15	HQAM	100	49	19.79	19.83	19.84				
15	HQAM	50	0	19.87	19.88	19.86				
15	HQAM	50	24	19.80	19.86	19.82				
15	HQAM	50	50	19.83	19.86	19.86				
15	HQAM	100	0	17.80	17.85	17.88	19	3		
15	HQAM	100	24	17.71	17.91	17.82				
15	HQAM	100	49	17.83	17.82	17.82				
15	HQAM	50	0	17.77	17.82	17.85				
10	QPSK	1	0	21.11	21.16	21.11				
10	QPSK	1	25	20.97	21.02	20.85	22	0		
10	QPSK	1	49	20.79	20.90	20.86				
10	QPSK	50	0	21.03	21.06	21.06				
10	QPSK	50	12	20.88	20.92	20.85	22	0		
10	QPSK	50	25	20.82	20.95	20.91				
10	QPSK	100	0	21.03	21.08	21.07				
10	HQAM	1	0	21.03	21.08	21.07				
10	HQAM	1	25	20.88	20.90	20.81	22	0		
10	HQAM	1	49	20.84	20.93	20.84				
10	HQAM	50	0	20.74	20.93	20.84				
10	HQAM	50	12	20.87	20.88	20.86	22	0		
10	HQAM	50	25	20.80	20.95	20.90				
10	HQAM	100	0	21.01	21.16	21.09				
10	HQAM	100	1	20.93	21.10	21.08	22	0		
10	HQAM	100	25	20.84	21.02	20.98				
10	HQAM	50	0	20.86	20.75	20.78				
10	HQAM	50	12	20.81	21.06	21.02	22	0		
10	HQAM	50	25	20.83	21.06	21.02				
10	HQAM	100	0	20.99	21.14	21.06				
10	HQAM	100	1	20.88	20.98	20.93	22	0		
10	HQAM	100	25	20.81	20.96	20.88				
10	HQAM	25	0	19.83	19.90	19.87				
10	HQAM	25	12	19.87	19.92	19.86	21	1		
10	HQAM	25	25	19.74	19.84	19.69				
10	HQAM	50	0	19.76	19.86	19.82				
10	HQAM	50	12	19.83	19.91	19.83				
10	HQAM	50	25	19.89	19.18	19.04	19	3		
10	HQAM	100	0	17.84	17.91	17.90				
10	HQAM	100	1	17.83	17.83	17.83				
10	HQAM	100	25	17.81	17.84	17.89				
10	HQAM	100	25	17.87	17.80	17.82				
10	HQAM	50	0	17.74	17.86	17.82				
5	QPSK	1	0	21.12	21.12	21.12				
5	QPSK	1	12	20.90	21.03	20.87				
5	QPSK	1	24	20.91	21.07	20.84				
5	QPSK	50	0	21.03	21.03	21.03				
5	QPSK	50	12	20.84	21.03	20.80	22	0		
5	QPSK	50	25	20.85	20.87	20.86				
5	HQAM	1	0	21.04	21.17	21.04				
5	HQAM	1	12	20.89	21.16	21.08	22	0		
5	HQAM	1	24	20.94	21.02	20.81				
5	HQAM	50	0	20.99	21.06	20.99				
5	HQAM	50	12	20.87	20.91	20.93	22	0		
5	HQAM	50	25	20.91	21.13	20.93				
5	HQAM	100	0	20.99	21.08	20.97				
5	HQAM	100	12	20.87	20.96	20.94	22	0		
5	HQAM	100	24	20.82	20.93	20.94				
5	HQAM	100	25	20.89	20.88	19.87				
5	HQAM	100	25	19.73	19.82	19.83	21	1		
5	HQAM	25	0	19.75	19.84	19.82				
5	HQAM	25	12	19.81	19.89	19.81				
5	HQAM	25	25	17.88	18.18	18.04	19	3		
5	HQAM	50	0	17.85	17.95	17.90				
5	HQAM	50	12	17.87	17.80	17.82				
5	HQAM	50	25	17.83	17.84	17.79				
5	HQAM	100	0	17.88	17.91	17.84				
5	HQAM	100	12	17.85	17.92	17.85				
5	HQAM	100	24	17.80	17.93	17.86				
5	HQAM	100	25	17.82	17.85	17.82				
5	HQAM	25	0	19.83	19.93	19.83				
5	HQAM	25	12	19.87	19.92	19.86	21	1		
5	HQAM	25	25	17.85	17.83	17.80	19	3		
5	HQAM	50	0	17.88	17.90	17.85				
5	HQAM	50	12	17.80	17.89	17.86				
5	HQAM	50	25	17.82	17.85	17.82				
5	HQAM	100	0	17.89	17.92	17.86				
5	HQAM	100	12	17.81	17.88	17.87				
5	HQAM	100	24	17.80	17.87	17.87				
5	HQAM	100	25	17.85	17.88	17.85				
5	HQAM	25	0	19.89	19.90	19.89				
5	HQAM	25	12	19.82	19.88	19.82				
5	HQAM	25	25	17.83	17.82	17.80	19	3		
5	HQAM	50	0	17.89	17.90	17.89				



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 (dB)	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	22.33	22.42	22.42				
10	QPSK	25	25	22.29	22.32	22.34	24	0		
10	QPSK	50	0	22.34	22.41	22.37				
10	16QAM	1	0	22.41	22.53	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	5	0	22.51	22.52	22.54				
10	16QAM	25	12	22.18	22.41	22.38	24	0		
10	16QAM	25	25	22.27	22.39	22.40				
10	16QAM	50	0	22.40	22.51	22.38				
10	64QAM	1	0	22.40	22.44	22.34	24	0		
10	64QAM	1	25	22.39	22.41	22.42				
10	64QAM	1	49	22.14	22.41	22.39				
10	64QAM	25	0	21.24	21.36	21.17				
10	64QAM	25	12	21.13	21.21	21.08	22.5	1.5		
10	64QAM	25	25	21.00	21.09	21.04				
10	64QAM	50	0	21.25	21.30	21.19				
10	256QAM	1	25	19.35	19.58	19.51	21	3		
10	256QAM	1	49	19.34	19.36	19.43				
10	256QAM	25	0	19.26	19.48	19.48				
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	19.30	19.17				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.43	22.48	22.39				
5	QPSK	1	25	22.33	22.42	22.40	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	16QAM	1	0	22.42	22.47	22.42				
5	16QAM	1	25	22.35	22.46	22.38	24	0		
5	16QAM	1	12	22.25	22.45	22.27				
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	22.10	22.16	22.07				
5	16QAM	25	0	22.37	22.43	22.53				
5	64QAM	1	0	22.37	22.39	22.29	24	0		
5	64QAM	1	25	22.30	22.38	22.28				
5	64QAM	1	24	22.05	22.32	22.21				
5	64QAM	12	0	21.17	21.31	21.05	22.5	1.5		
5	64QAM	12	7	21.00	21.16	20.97				
5	64QAM	12	13	21.02	20.92	20.89				
5	64QAM	25	0	21.13	21.18	21.15				
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	19.20	19.20	19.12				
5	256QAM	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	22.38	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	16QAM	1	0	22.37	22.39	22.28				
3	16QAM	1	8	22.31	22.38	22.32	24	0		
3	16QAM	1	14	22.06	22.36	22.08				
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	64QAM	1	0	22.27	22.31	22.21	24	0		
3	64QAM	1	8	22.34	22.38	22.28				
3	64QAM	1	14	22.06	22.28	22.20				
3	64QAM	8	0	21.15	21.27	21.02	22.5	1.5		
3	64QAM	8	4	21.04	21.12	20.95				
3	64QAM	8	7	20.98	21.00	20.99				
3	256QAM	1	0	21.19	21.24	21.12				
3	256QAM	1	8	19.27	19.51	19.47	21	3		
3	256QAM	1	14	19.24	19.31	19.35				
3	256QAM	8	0	19.10	19.31	19.25	21	3		
3	256QAM	8	4	19.24	19.15	19.17				
3	256QAM	8	7	19.00	19.23	19.09				
3	256QAM	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	22.50	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	16QAM	1	0	22.32	22.45	22.40				
1.4	16QAM	1	3	22.28	22.47	22.25	24	0		
1.4	16QAM	1	5	22.04	22.37	22.13				
1.4	16QAM	3	0	22.47	22.47	22.40				
1.4	16QAM	3	1	22.25	22.31	22.25				
1.4	16QAM	3	3	22.17	22.32	22.23	24	0		
1.4	64QAM	1	0	22.26	22.43	22.35	24	0		
1.4	64QAM	1	3	22.25	22.29	22.28				
1.4	64QAM	1	5	22.01	22.33	22.19				
1.4	64QAM	3	0	22.38	22.38	22.40				
1.4	64QAM	3	1	22.18	22.32	22.22	22.5	1.5		
1.4	64QAM	3	3	22.15	22.29	22.21				
1.4	256QAM	1	0	21.19	21.29	21.11	22.5	1.5		
1.4	256QAM	1	3	19.28	19.57	19.55	21	3		
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	21	3		
1.4	256QAM	6	0	19.17	19.21	19.09				

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 (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.53						
10	QPSK	1	25	22.40			24	0		
10	QPSK	1	49	22.43						
10	QPSK	25	0	22.45						
10	QPSK	25	12	22.38			24	0		
10	QPSK	25	25	22.28						
10	QPSK	50	0	22.32						
10	16QAM	1	0	22.43						
10	16QAM	1	25	22.47			24	0		
10	16QAM	1	49	22.40						
10	16QAM	5	0	22.54						
10	16QAM	25	12	22.35						
10	16QAM	25	25	22.26						
10	16QAM	50	0	22.45						
10	64QAM	1	0	22.38			24	0		
10	64QAM	1	25	22.42						
10	64QAM	1	49	22.41						
10	64QAM	25	0	21.30						
10	64QAM	25	12	21.20			22.5	1.5		
10	64QAM	25	25	21.04						
10	64QAM	50	0	21.28						
10	256QAM	1	0	19.49						
10	256QAM	1	25	19.59			21	3		
10	256QAM	1	49	19.30						
10	256QAM	25	0	19.42						
10	256QAM	25	12	19.26			21	3		
10	256QAM	25	25	19.24		</				







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	21.50	22.5	0.5		
20	HQAM	1	99	21.51	21.63	21.50				
20	HQAM	50	0	20.63	20.75	20.50				
20	HQAM	50	24	20.49	20.58	20.50				
20	HQAM	50	50	20.45	20.51	20.40	21.5	1.5		
20	HQAM	100	0	20.52	20.58	20.40				
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	18.46	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	50	18.45	18.56	18.40				
20	256QAM	100	0	18.51	18.50	18.50				
Channel										
Frequency (MHz)										
15	QPSK	1	0	21.73	21.75	21.75				
15	QPSK	1	37	21.84	21.93	21.80	23	0		
15	QPSK	1	74	21.88	21.96	21.70				
15	QPSK	36	0	22.00	22.00	21.90				
15	QPSK	36	20	21.86	21.95	21.80	23	0		
15	QPSK	36	39	21.88	21.91	21.80				
15	QPSK	75	0	21.94	22.04	21.91				
15	HQAM	1	0	21.98	22.04	21.87				
15	HQAM	1	37	21.87	21.91	21.80	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	21.40	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	21.81	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	20.40	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	18.48	18.65	18.50				
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	18.40				
15	256QAM	75	0	18.50	18.62	18.41				
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.75	21.65	21.75				
10	QPSK	1	25	21.97	21.84	21.83	23	0		
10	QPSK	1	49	21.97	21.98	21.81				
10	QPSK	12	0	21.84	22.00	21.80				
10	QPSK	25	12	21.88	21.90	21.80	23	0		
10	QPSK	25	25	21.99	21.89	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	21.81	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	18.46	18.57	18.44				
10	256QAM	25	25	18.52	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	21.83	22.00	21.80				
5	QPSK	12	0	21.84	22.01	21.80				
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	21.80	23	0		
5	HQAM	1	24	21.74	21.78	21.80				
5	HQAM	12	0	21.42	21.67	21.42	22.5	0.5		
5	HQAM	12	7	21.40	21.41	21.39				
5	HQAM	12	13	21.38	21.37	21.31				
5	HQAM	25	0	21.39	21.89	21.44				
5	HQAM	1	0	21.48	21.73	21.50	22.5	0.5		
5	HQAM	1	12	21.42	21.67	21.46				
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	20.54	20.50	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	21.63				
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	50	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	50	20.62	20.70	20.70				
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	50	18.82	18.73	18.76	18.72	18.61		
20	256QAM	100	0	18.87	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	21.54	23			



Band 41 PC2 FCC&CIS5_Standalone 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	Tune-up Int (dBm)	MPE (dB)
Channel											
Frequency (MHz)											
50	QPSK	1	0	23.77	23.78	23.81	23.82	23.85	23.86	25.00	0
50	QPSK	1	49	23.83	23.89	23.88	23.84	23.79	23.79	25.00	0
50	QPSK	1	99	23.84	23.89	23.79	23.67	23.76	23.76	25.00	0
50	QPSK	50	0	23.55	23.66	23.74	23.81	23.78	23.78	25.00	0
50	QPSK	50	24	23.45	23.64	23.64	23.48	23.51	23.51	25.00	0
50	QPSK	50	49	23.65	23.65	23.65	23.48	23.52	23.52	25.00	0
50	QPSK	100	0	23.31	23.54	23.62	23.64	23.64	23.64	25.00	0
50	HQAM	1	0	23.52	23.67	23.79	23.88	23.96	23.96	25.00	0
50	HQAM	1	49	23.68	23.68	23.75	23.69	23.54	23.54	25.00	0
50	HQAM	1	99	23.43	23.53	23.63	23.57	23.53	23.53	25.00	0
50	HQAM	50	0	23.33	23.50	23.58	23.61	23.55	23.55	25.00	0
50	HQAM	50	24	23.35	23.59	23.59	23.48	23.52	23.52	25.00	0
50	HQAM	50	50	23.37	23.52	23.57	23.55	23.40	23.40	25.00	0
50	HQAM	100	0	23.44	23.48	23.56	23.47	23.52	23.52	25.00	0
50	BQAM	1	0	23.71	23.85	23.82	23.85	23.87	23.87	25.00	0
50	BQAM	1	49	23.72	23.85	23.82	23.82	23.70	23.70	25.00	0
50	BQAM	1	99	23.73	23.89	23.89	23.72	23.70	23.70	25.00	0
50	BQAM	50	0	23.58	23.66	23.78	23.60	23.61	23.61	25.00	0
50	BQAM	50	24	23.43	23.55	23.63	23.61	23.51	23.51	25.00	0
50	BQAM	50	50	23.46	23.51	23.61	23.54	23.48	23.48	25.00	0
50	BQAM	100	0	23.50	23.58	23.67	23.67	23.61	23.61	25.00	0
50	25QAM	1	0	21.69	21.81	21.95	21.76	21.81	21.81	23.2	2
50	25QAM	1	49	21.72	21.79	21.81	21.71	21.81	21.81	23.2	2
50	25QAM	1	99	21.62	21.68	21.79	21.75	21.64	21.64	23.2	2
50	25QAM	50	0	21.56	21.68	21.74	21.63	21.67	21.67	23.2	2
50	25QAM	50	24	21.38	21.53	21.59	21.50	21.52	21.52	23.2	2
50	25QAM	50	50	21.38	21.51	21.54	21.48	21.43	21.43	23.2	2
50	25QAM	100	0	21.60	21.68	21.78	21.63	21.63	21.63	23.2	2
Channel											
Frequency (MHz)											
15	QPSK	1	0	23.61	23.73	23.81	23.82	23.87	23.87	25.00	0
15	QPSK	1	37	23.49	23.83	23.81	23.48	23.85	23.85	25.00	0
15	QPSK	1	74	23.39	23.68	23.66	23.44	23.54	23.54	25.00	0
15	QPSK	38	0	23.66	23.69	23.69	23.60	23.66	23.66	25.00	0
15	QPSK	38	20	23.42	23.41	23.54	23.52	23.48	23.48	25.00	0
15	QPSK	75	0	23.41	23.38	23.62	23.59	23.52	23.52	25.00	0
15	HQAM	1	0	23.44	23.59	23.62	23.74	23.72	23.72	25.00	0
15	HQAM	1	37	23.50	23.49	23.65	23.56	23.47	23.47	25.00	0
15	HQAM	1	74	23.33	23.57	23.50	23.35	23.47	23.47	25.00	0
15	HQAM	38	0	23.24	23.28	23.58	23.45	23.54	23.54	25.00	0
15	HQAM	38	20	23.14	23.31	23.31	23.40	23.35	23.35	25.00	0
15	HQAM	38	50	23.30	23.34	23.58	23.21	23.39	23.39	25.00	0
15	HQAM	75	0	23.34	23.52	23.52	23.32	23.43	23.43	25.00	0
15	BQAM	1	0	23.82	23.88	23.89	23.87	23.83	23.83	25.00	0
15	BQAM	1	37	23.86	23.89	23.73	23.80	23.87	23.87	25.00	0
15	BQAM	1	74	23.68	23.77	23.72	23.77	23.66	23.66	25.00	0
15	BQAM	38	0	23.47	23.60	23.62	23.54	23.48	23.48	25.00	0
15	BQAM	38	20	23.32	23.52	23.51	23.38	23.41	23.41	25.00	0
15	BQAM	38	50	23.32	23.68	23.68	23.32	23.32	23.32	25.00	0
15	BQAM	75	0	23.44	23.55	23.52	23.61	23.51	23.51	25.00	0
15	25QAM	1	0	21.64	21.89	21.82	21.70	21.66	21.66	23.2	2
15	25QAM	1	37	21.63	21.73	21.73	21.63	21.63	21.63	23.2	2
15	25QAM	1	74	21.48	21.61	21.62	21.60	21.52	21.52	23.2	2
15	25QAM	38	0	21.50	21.54	21.68	21.59	21.61	21.61	23.2	2
15	25QAM	38	20	21.31	21.44	21.45	21.46	21.38	21.38	23.2	2
15	25QAM	38	50	21.30	21.44	21.51	21.44	21.38	21.38	23.2	2
15	25QAM	75	0	21.40	21.54	21.61	21.50	21.40	21.40	23.2	2
Channel											
Frequency (MHz)											
10	QPSK	1	0	23.71	23.78	23.81	23.82	23.78	23.78	25.00	0
10	QPSK	1	25	23.62	23.64	23.68	23.71	23.65	23.65	25.00	0
10	QPSK	1	49	23.44	23.39	23.78	23.48	23.70	23.70	25.00	0
10	QPSK	1	99	23.62	23.68	23.68	23.58	23.71	23.71	25.00	0
10	QPSK	25	12	23.35	23.42	23.60	23.61	23.41	23.41	25.00	0
10	QPSK	25	25	23.46	23.34	23.45	23.40	23.38	23.38	25.00	0
10	QPSK	50	0	23.61	23.61	23.61	23.61	23.61	23.61	25.00	0
10	HQAM	1	0	23.60	23.67	23.61	23.69	23.74	23.74	25.00	0
10	HQAM	1	25	23.50	23.68	23.60	23.48	23.62	23.62	25.00	0
10	HQAM	1	49	23.50	23.62	23.62	23.57	23.42	23.42	25.00	0
10	HQAM	25	0	23.17	23.47	23.63	23.50	23.61	23.61	25.00	0
10	HQAM	25	12	23.18	23.31	23.31	23.25	23.25	23.25	25.00	0
10	HQAM	25	25	23.30	23.32	23.33	23.23	23.23	23.23	25.00	0
10	HQAM	50	0	23.37	23.44	23.43	23.38	23.26	23.26	25.00	0
10	BQAM	1	0	23.61	23.63	23.68	23.63	23.63	23.63	25.00	0
10	BQAM	1	25	23.68	23.70	23.72	23.71	23.69	23.69	25.00	0
10	BQAM	1	49	23.59	23.64	23.74	23.68	23.63	23.63	25.00	0
10	BQAM	25	0	23.54	23.63	23.62	23.50	23.58	23.58	25.00	0
10	BQAM	25	12	23.38	23.46	23.54	23.51	23.45	23.45	25.00	0
10	BQAM	25	25	23.32	23.48	23.46	23.44	23.40	23.40	25.00	0
10	BQAM	50	0	23.44	23.45	23.46	23.54	23.55	23.55	25.00	0
10	25QAM	1	0	21.58	21.70	21.81	21.68	21.69	21.69	23.2	2
10	25QAM	1	25	21.68	21.63	21.86	21.70	21.67	21.67	23.2	2
10	25QAM	1	49	21.48	21.64	21.69	21.69	21.58	21.58	23.2	2
10	25QAM	25	0	21.43	21.50	21.81	21.60	21.50	21.50	23.2	2
10	25QAM	25	12	21.35	21.43	21.47	21.37	21.45	21.45	23.2	2
10	25QAM	25	25	21.29	21.37	21.41	21.43	21.38	21.38	23.2	2
10	25QAM	50	0	21.35	21.48	21.60	21.58	21.55	21.55	23.2	2
Channel											
Frequency (MHz)											
5	QPSK	1	0	23.50	23.73	23.82	23.87	23.76	23.76	25.00	0
5	QPSK	1	12	23.63	23.72	23.87	23.48	23.66	23.66	25.00	0
5	QPSK	1	24	23.45	23.81	23.78	23.47	23.54	23.54	25.00	0
5	QPSK	12	0	23.39	23.75	23.78	23.59	23.71	23.71	25.00	0
5	QPSK	12	7	23.28	23.85	23.85	23.63	23.48	23.48	25.00	0
5	QPSK	12	13	23.29	23.51	23.49	23.34	23.33	23.33	25.00	0
5	QPSK	25	0	23.17	23.48	23.55	23.40	23.50	23.50	25.00	0
5	HQAM	1	0	23.63	23.48	23.59	23.68	23.70	23.70	25.00	0
5	HQAM	1	12	23.42	23.58	23.63	23.45	23.38	23.38	25.00	0
5	HQAM	1	24	23.32	23.60	23.60	23.40	23.50	23.50	25.00	0
5	HQAM	12	0	23.41	23.34	23.56	23.40	23.49	23.49	25.00	0
5	HQAM	12	7	23.39	23.39	23.48	23.36	23.45	23.45	25.00	0
5	HQAM	12	13	23.11	23.34	23.50	23.41	23.35	23.35	25.00	0
5	HQAM	25	0	23.30	23.46	23.67	23.34	23.83	23.83	25.00	0
5	BQAM	1	0	23.67	23.84	23.81	23.89	23.81	23.81	25	



OSM 1900 Airt		Default						
	Base Average Power (dBm)	IRMS	TimeUp	TimeDown	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 Wdth	20.56	20.68	20.63	30.00	20.56	20.68	20.63	21.00
OPNS 1 Tx Wdth	20.52	20.61	20.49	30.00	20.52	20.61	20.49	21.00
OPNS 2 Tx Wdth	21.00	21.12	20.97	30.00	21.00	21.12	20.97	22.00
OPNS 3 Tx Wdth	20.70	21.70	20.86	20.00	21.44	21.50	21.40	22.24
OPNS 4 Tx Wdth	20.14	20.27	21.40	24.00	20.14	20.27	20.68	21.00
EDGE 1 Tx Wdth	20.06	20.13	24.99	28.00	18.06	18.13	18.99	17.00
EDGE 2 Tx Wdth	20.33	20.43	20.40	24.00	17.33	17.43	17.46	18.00
EDGE 3 Tx Wdth	22.21	22.25	22.20	23.00	17.95	18.00	17.95	19.24
EDGE 4 Tx Wdth	20.13	20.18	20.08	21.00	17.13	17.18	17.08	18.00

  

OSM 1900A Airt		Default							
	Base Average Power (dBm)	IRMS	TimeUp	TimeDown	TimeUp				
Tx Channel	862	900	868	Limit	862	900	868	Limit	
Frequency (MHz)	1862.2	1900	1868	(dBm)	1862.2	1900	1868	(dBm)	
SOPP Rel (9)	22.56	23.00	23.00	24.00	22.56	22.56	22.56	24.00	
SOPP Rel (9)	RMV 12 2000	23.05	23.07	22.02	24.00	22.89	23.03	22.84	24.00
SOPP Rate	HEIPA Subclass 1	21.90	22.14	22.11	23.00	21.91	22.04	22.04	23.00
SOPP Rate	HEIPA Subclass 2	22.84	22.17	21.92	23.00	21.93	22.07	21.84	23.00
SOPP Rate	HEIPA Subclass 3	21.64	21.60	21.57	23.00	21.58	21.59	21.44	22.00
SOPP Rate	HEIPA Subclass 4	21.48	21.60	21.60	22.00	21.43	21.60	21.50	22.00
SOPP Rate	DC-HEIPA Subclass 1	22.08	22.17	21.98	23.00	21.90	22.00	21.90	23.00
SOPP Rate	DC-HEIPA Subclass 2	21.90	22.13	22.18	23.00	21.91	22.07	22.07	23.00
SOPP Rate	DC-HEIPA Subclass 3	21.37	21.57	21.48	22.00	21.28	21.46	21.34	22.00
SOPP Rate	DC-HEIPA Subclass 4	21.61	21.50	21.44	22.00	21.50	21.45	21.31	22.00
SOPP Rate	HEIPA Subclass 1	22.88	22.31	21.97	23.00	22.04	22.24	21.84	23.00
SOPP Rate	HEIPA Subclass 2	22.23	22.14	22.17	23.00	22.28	22.07	22.04	23.00
SOPP Rate	HEIPA Subclass 3	21.20	21.00	21.03	22.00	21.10	20.90	20.90	22.00
SOPP Rate	HEIPA Subclass 4	18.98	20.25	20.22	21.00	19.84	20.10	20.08	21.00
SOPP Rate	HEIPA Subclass 5	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 High Ch./Freq.	Power Peak Ch./Freq.	Turn-up time (min)	MPE (dB)		
Channel										
Frequency (MHz)										
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	22.45	24	0		
20	QPSK	50	50	22.38	22.47	22.38				
20	QPSK	100	0	22.45	22.50	22.41				
20	QPSK	100	0	22.49	22.58	22.53				
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	0	22.28	22.48	22.29				
20	HQAM	50	24	22.28	22.34	22.28	24	0		
20	HQAM	50	50	22.42	22.46	22.38				
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	19.27	19.63	19.48				
20	HQAM	50	24	19.33	19.39	19.36	21	3		
20	HQAM	50	50	19.25	19.35	19.32				
20	HQAM	100	0	19.38	19.43	19.33				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.80	22.88	22.81				
15	QPSK	1	49	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	22.43	22.31				
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	22.07	22.37	22.17				
15	HQAM	36	0	22.14	22.39	22.17				
15	HQAM	36	0	22.14	22.31	22.21	24	0		
15	HQAM	36	20	22.23	22.41	22.19				
15	HQAM	36	20	22.14	22.39	22.17				
15	HQAM	36	36	22.20	22.30	22.17	23	1		
15	HQAM	75	0	22.28	22.34	22.29				
15	HQAM	1	37	19.35	19.58	19.46				
15	HQAM	1	37	19.39	19.50	19.40	21	3		
15	HQAM	1	74	19.33	19.39	19.26				
15	HQAM	36	0	19.27	19.46	19.35				
15	HQAM	36	20	19.23	19.25	19.26	21	3		
15	HQAM	36	36	19.14	19.23	19.20				
15	HQAM	75	0	19.38	19.43	19.33				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.60	22.68	22.60				
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	50	0	22.34	22.49	22.41				
10	QPSK	50	0	22.29	22.49	22.37				
10	HQAM	1	25	22.24	22.33	22.30	24	0		
10	HQAM	1	49	22.14	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	12	22.21	22.38	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	22.13	22.38	22.13	24	0		
10	HQAM	25	25	22.20	22.29	22.20				
10	HQAM	50	0	22.37	22.34	22.25				
10	HQAM	1	25	19.38	19.51	19.37	21	3		
10	HQAM	1	49	19.27	19.31	19.27				
10	HQAM	25	0	19.25	19.46	19.35				
10	HQAM	25	12	19.28	19.30	19.28	21	3		
10	HQAM	25	25	19.14	19.28	19.10				
10	HQAM	50	0	19.33	19.54	19.39				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.62	22.67	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	22.41	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	22.37				
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	22.48	22.21				
5	HQAM	12	0	22.33	22.46	22.39				
5	HQAM	12	7	22.24	22.23	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	22.28	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	19.26				
5	HQAM	12	0	19.28	19.42	19.33				
5	HQAM	12	7	19.28	19.33	19.21	21	3		
5	HQAM	25	0	19.29	19.58	19.48				
Channel										
Frequency (MHz)										
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	22.37				
3	HQAM	1	0	22.32	22.53	22.41	24	0		
3	HQAM	1	8	22.26	22.36	22.23				
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	22.10	22.22	22.22				
3	HQAM	8	0	22.23	22.41	22.16				
3	HQAM	8	4	22.22	22.23	22.26	24	0		
3	HQAM	8	7	22.14	22.26	22.18				
3	HQAM	15	0	19.42	19.98	19.45				
3	HQAM	1	8	19.37	19.55	19.37	21	3		
3	HQAM	1	14	19.29	19.29	19.21				
3	HQAM	8	0	19.29	19.47	19.33				
3	HQAM	8	4	19.19	19.30	19.28	21	3		
3	HQAM	8	7	19.21	19.30	19.28				
3	HQAM	15	0	19.35	19.50	19.35				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.81	22.81	22.80				
1.4	QPSK	1	3	22.40	22.57	22.43				
1.4	QPSK	1	5	22.33	22.53	22.46	24	0		
1.4	QPSK	3	0	22.43	22.58	22.44				
1.4	QPSK	3	1	22.81	22.50	22.40				
1.4	QPSK	3	22	22.35	22.38	22.24	24	0		
1.4	QPSK	8	0	22.34	22.46	22.37				
1.4	HQAM	1	0	22.29	22.54	22.36				
1.4	HQAM	1	3	22.21	22.37	22.30	24	0		
1.4	HQAM	3	0	22.24	22.47	22.30				
1.4	HQAM	3	1	22.24	22.36	22.27				
1.4	HQAM	3	3	22.26	22.31	22.25				
1.4	HQAM	8	0	22.28	22.44	22.21	24	0		
1.4	HQAM	3	0	22.18	22.40	22.20				
1.4	HQAM	3	1	22.20	22.21	22.22	24	0		
1.4	HQAM	3	3	22.19	22.31	22.19				
1.4	HQAM									



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	22.60	22.70	22.72							
10	QPSK	1	0	22.60	22.68	22.68							
10	QPSK	1	99	22.36	22.55	22.65							
20	QPSK	50	0	22.50	22.60	22.67							
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	22.56	22.67							
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	22.56							
20	84QAM	1	0	22.39	22.52	22.46							
20	84QAM	1	49	22.35	22.40	22.52							
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	18.41	18.65	18.63							
20	256QAM	1	49	18.43	18.65	18.47							
20	256QAM	1	99	18.44	18.42	18.40							
20	256QAM	50	0	18.36	18.48	18.41							
20	256QAM	50	24	18.38	18.46	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	22.60							
10	QPSK	1	37	22.45	22.48	22.47							
10	QPSK	1	74	22.27	22.48	22.42							
10	QPSK	36	0	22.38	22.62	22.37							
10	QPSK	36	25	22.30	22.31	22.41							
10	QPSK	36	39	22.35	22.43	22.42							
10	QPSK	75	0	22.44	22.51	22.44							
15	16QAM	1	0	22.36	22.31	22.34							
15	16QAM	1	37	22.25	22.39	22.31							
15	16QAM	1	74	22.07	22.29	22.23							
15	16QAM	36	0	22.26	22.53	22.29							
15	16QAM	36	29	22.32	22.33	22.33							
15	16QAM	36	99	22.29	22.29	22.28							
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	22.43							
15	84QAM	1	74	22.22	22.24	22.13							
15	84QAM	36	0	21.34	21.52	21.34							
15	84QAM	36	29	21.36	21.39	21.33							
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	18.53	18.51							
15	256QAM	1	37	18.40	18.61	18.37							
15	256QAM	1	74	18.30	18.38	18.36							
15	256QAM	36	0	18.35	18.50	18.41							
15	256QAM	36	29	18.29	18.43	18.29							
15	256QAM	36	39	18.34	18.35	18.28							
15	256QAM	75	0	18.41	18.43	18.40							
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	22.38	22.47	22.47							
10	QPSK	12	0	22.48	22.53	22.56							
10	QPSK	25	12	22.26	22.37	22.40							
10	QPSK	25	25	22.30	22.38	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	22.28	22.36	22.38							
10	16QAM	50	0	22.33	22.52	22.34							
10	84QAM	1	0	22.39	22.42	22.33							
10	84QAM	1	24	22.23	22.35	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	21.25							
10	84QAM	50	0	21.54	21.54	21.44							
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	18.48	18.48							
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	18.41	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	22.46	22.44							
5	QPSK	12	7	22.30	22.46	22.38							
5	QPSK	12	13	22.28	22.44	22.38							
5	16QAM	1	0	22.39	22.45	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	22.28	22.39	22.29							
5	16QAM	25	0	22.36	22.49	22.35							
5	84QAM	1	0	22.32	22.47	22.42							
5	84QAM	1	12	22.28	22.34	22.17							
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	18.38	18.28							
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	18.39	18.42							
5	256QAM	12	7	18.32	18.41	18.29							
5	256QAM	12	13	18.38	18.39	18.29							
5	256QAM	25	0	18.41	18.40	18.40							
Channel													
Frequency (MHz)													
3	QPSK	1	0	22.47	22.65	22.63							
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	22.28	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	22.32							
3	16QAM	8	4	22.32	22.39	22.28							
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	21.38	21.32							
3	84QAM	8	7	21.13	21.22	21.21							
3	84QAM	15	0	21.52	21.59	21.49							
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	18.53	18.50							
3	256QAM	8	4										



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										
Frequency (MHz)										
20	QPSK	1	0	23.49	23.52	23.54	24	0		
20	QPSK	1	49	23.37	23.45	23.50				
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	23.44	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	22.94				
20	HQAM	50	50	22.73	22.74	22.71				
20	HQAM	100	0	22.66	22.67	22.65				
20	HQAM	1	49	22.77	22.87	22.81	23.5	0.5		
20	HQAM	1	99	22.66	22.76	22.67				
20	HQAM	50	0	21.80	22.01	21.90				
20	HQAM	50	24	21.82	21.80	21.80				
20	HQAM	50	50	21.72	21.88	21.79				
20	HQAM	100	0	21.97	22.01	21.91				
20	25QAM	1	0	19.81	20.02	19.87				
20	25QAM	1	49	19.81	20.02	19.87	20.5	3.5		
20	25QAM	1	99	19.80	19.77	19.79				
20	25QAM	50	0	19.80	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	19.81	19.81	19.81				
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.13	23.51	23.30	24	0		
15	QPSK	1	37	23.24	23.38	23.29				
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	23.07	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	22.87	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	1	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				
15	HQAM	36	20	21.75	21.81	21.87	22.5	1.5		
15	HQAM	36	50	21.64	21.74	21.69				
15	HQAM	75	0	21.63	21.65	21.78				
15	25QAM	1	0	19.75	19.85	19.75				
15	25QAM	1	37	19.88	19.83	19.74	20.5	3.5		
15	25QAM	1	74	19.59	19.63	19.68				
15	25QAM	36	0	19.80	19.69	19.76				
15	25QAM	36	20	19.82	19.73	19.82	20.5	3.5		
15	25QAM	36	50	19.77	19.77	19.66				
15	25QAM	75	0	19.88	19.60	19.85				
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.17	23.55	23.15	24	0		
10	QPSK	1	25	23.28	23.33	23.20				
10	QPSK	1	49	23.13	23.21	23.27				
10	QPSK	12	0	23.20	23.48	23.25				
10	QPSK	25	12	23.17	23.25	23.32	24	0		
10	QPSK	25	25	23.16	23.24	23.13				
10	QPSK	50	10	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	23.19	23.07				
10	HQAM	25	0	22.84	22.88	22.79				
10	HQAM	25	12	22.88	22.77	22.71	23.5	0.5		
10	HQAM	25	25	22.80	22.84	22.85				
10	HQAM	50	0	22.91	23.07	22.77				
10	HQAM	1	0	22.80	22.80	22.80				
10	HQAM	1	25	22.82	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				
10	HQAM	25	12	21.78	21.81	21.87	22.5	1.5		
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				
10	25QAM	1	25	19.74	19.88	19.72	20.5	3.5		
10	25QAM	1	49	19.87	19.84	19.75				
10	25QAM	25	0	19.76	19.85	19.73				
10	25QAM	25	12	19.85	19.70	19.85	20.5	3.5		
10	25QAM	25	25	19.78	19.81	19.85				
10	25QAM	50	0	19.84	20.05	19.85				
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.26	23.48	23.47	24	0		
5	QPSK	1	12	23.23	23.35	23.31				
5	QPSK	1	24	23.22	23.24	23.29				
5	QPSK	12	0	23.23	23.42	23.44				
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	23.25	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	1	0	22.67	22.67	22.74				
5	HQAM	1	12	22.65	22.80	22.76	23.5	0.5		
5	HQAM	1	24	22.59	22.70	22.50				
5	HQAM	12	0	21.71	21.87	21.78				
5	HQAM	12	7	21.71	21.80	21.68	22.5	1.5		
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	19.50	19.61				
5	25QAM	1	12	19.68	19.63	19.77	20.5	3.5		
5	25QAM	1	24	19.69	19.67	19.62				
5	25QAM	12	0	19.70	19.76	19.84				
5	25QAM	12	13	19.79	19.76	19.70	20.5	3.5		
5	25QAM	25	0	19.88	20.05	19.88				

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										
Frequency (MHz)										
20	QPSK	1	0	23.43	23.45	23.41	24	0		
20	QPSK	1	49	23.34	23.31	23.45				
20	QPSK	1	99	23.26	23.35	23.32				
20	QPSK	50	0	23.21	23.43	23.30				
20	QPSK	50	24	23.28	23.33	23.44	24	0		
20	QPSK	50	50	23.22	23.35	23.37				
20	HQAM	1	0	23.43	23.38	23.33	24	0		
20	HQAM	1	49	23.65	22.89	22.91				
20	HQAM	1	99	22.63	22.58	22.72				
20	HQAM	50	0	21.97	21.91	21.86	23	1		
20	HQAM	50	24	21.99	21.40	21.45				
20	HQAM	50	50	21.36	21.41	21.48				
20	HQAM	100	0	21.66	21.57	21.67				
20	HQAM	1	49	21.63	21.55	21.69	21.5			
20	HQAM	1	99	21.60	21.60	21.57	22	2		
20	HQAM	50	0	20.84	20.70	20.86				
20	HQAM	50	24	20.58	20.60	20.76				
20	HQAM	50	50	20.44	20.60	20.71				
20	HQAM	100	0	20.67	20.71	20.81	21	3		
20	25QAM	1	0	18.42	18.31	18.52				



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 limit (dBm)	MRR (dB)
Channel											
Frequency (MHz)											
50	QPSK	1	0	25.79	25.82	25.93	25.93	25.93	25.93	26.5	0
50	QPSK	1	49	25.72	25.84	25.89	25.79	25.79	25.87		
50	QPSK	1	99	25.69	25.89	25.90	25.80	25.84	25.85		
50	QPSK	50	0	25.50	25.54	25.71	25.50	25.47			
50	QPSK	50	24	25.41	25.45	25.54	25.52	25.38			
50	QPSK	50	49	25.38	25.49	25.52	25.42	25.32			
50	QPSK	100	0	25.37	25.49	25.64	25.20	25.35			
50	HQAM	1	0	25.69	25.75	25.84	25.83	25.72			
50	HQAM	1	49	25.65	25.87	25.85	25.70	25.60			
50	HQAM	1	99	25.58	25.89	25.74	25.70	25.56			
50	HQAM	50	0	25.49	25.55	25.72	25.38	25.54			
50	HQAM	50	24	25.42	25.50	25.60	25.47	25.41			
50	HQAM	50	49	25.41	25.47	25.56	25.46	25.39			
50	HQAM	100	0	25.42	25.50	25.74	25.55	25.55			
50	HQAM	100	0	25.57	25.55	25.84	25.65	25.55			
50	HQAM	100	49	25.61	25.65	25.75	25.65	25.59			
50	HQAM	100	99	25.65	25.69	25.63	25.57	25.44			
50	HQAM	50	0	24.51	24.64	24.75	24.64	24.55			
50	HQAM	50	24	24.50	24.65	24.65	24.56	24.45			
50	HQAM	50	50	24.32	24.44	24.50	24.47	24.37			
50	HQAM	100	0	24.52	24.65	24.63	24.56	24.45			
50	HQAM	100	49	21.73	21.82	21.93	21.79	21.73			
50	HQAM	100	99	21.72	21.81	21.92	21.78	21.71			
50	HQAM	100	99	21.56	21.67	21.71	21.71	21.67			
50	HQAM	50	0	21.61	21.67	21.74	21.65	21.57			
50	HQAM	50	24	21.55	21.58	21.58	21.62	21.59			
50	HQAM	50	50	21.41	21.54	21.61	21.52	21.39			
50	HQAM	100	0	21.52	21.62	21.66	21.59	21.50			
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	25.60	25.47	25.43			
15	QPSK	38	20	25.32	25.34	25.43	25.38	25.29			
15	QPSK	38	38	25.31	25.43	25.43	25.38	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	25.80	25.66	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	25.25			
15	HQAM	38	38	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	25.68	25.76	25.57	25.47			
15	HQAM	1	37	25.57	25.61	25.69	25.60	25.53			
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	38	24.34	24.44	24.50	24.40	24.32			
15	HQAM	75	0	24.44	24.52	24.57	24.51	24.41			
15	HQAM	1	0	21.63	21.70	21.81	21.66	21.62			
15	HQAM	1	37	21.65	21.73	21.80	21.68	21.64			
15	HQAM	1	74	21.50	21.59	21.68	21.68	21.56			
15	HQAM	38	0	21.47	21.50	21.67	21.61	21.43			
15	HQAM	38	20	21.44	21.48	21.66	21.58	21.56			
15	HQAM	38	38	21.33	21.40	21.57	21.43	21.33			
15	HQAM	75	0	21.58	21.58	21.72	21.51	21.45			
Channel											
Frequency (MHz)											
10	QPSK	1	0	25.81	25.81	25.99	25.81	25.81			
10	QPSK	1	25	25.84	25.83	25.82	25.62	25.58			
10	QPSK	1	49	25.85	25.82	25.84	25.72	25.54			
10	QPSK	25	0	25.61	25.63	25.80	25.66	25.64			
10	QPSK	25	12	25.31	25.36	25.43	25.44	25.34			
10	QPSK	25	25	25.29	25.37	25.43	25.28	25.20			
10	QPSK	50	0	25.30	25.35	25.42	25.44	25.29			
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	25.30			
10	HQAM	50	0	25.41	25.44	25.62	25.47	25.46			
10	HQAM	50	0	25.57	25.58	25.60	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	24.50	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	HQAM	50	0	21.63	21.79	21.84	21.69	21.64			
10	HQAM	1	25	21.65	21.63	21.86	21.64	21.64			
10	HQAM	1	49	21.49	21.55	21.65	21.65	21.55			
10	HQAM	25	0	21.57	21.51	21.67	21.61	21.53			
10	HQAM	25	12	21.63	21.63	21.66	21.67	21.52			
10	HQAM	25	25	21.35	21.47	21.55	21.45	21.31			
10	HQAM	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	25.69			
5	QPSK	1	12	25.69	25.69	25.81	25.72	25.58			
5	QPSK	1	24	25.65	25.59	25.85	25.77	25.55			
5	QPSK	12	0	25.64	25.62	25.80	25.68	25.60			
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	25.36	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	25.78	25.61	25.51			
5	HQAM	1	24	25.63	25.61	25.69	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	25.34	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	24.49	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	HQAM	1	0	21.68	21.76	21.84	21.71	21.69			
5	HQAM	1	12	21.64	21.65	21.82	21.64	21.63			
5	HQAM	1	24	21.48	21.57	21.69	21.62	21.52			
5	HQAM	12	0	21.47	21.51	21.70	21.54	21.43			
5	HQAM	12	7	21.44	21.49	21.42	21.49	21.56			
5	HQAM	12	13	21.34	21.44	21.59	21.39	21.35			
5	HQAM	25	0	21.39	21.58						



Reduced Power Mode for DSIS-Simultaneous

Item	Default Mode				Reduced Power Mode			
	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)
<b>DSIS Mode</b>								
TV Channel	198	195	201	198	195	201	198	195
Frequency (MHz)	66.2	65.4	66.9	66.2	65.4	66.9	66.2	65.4
OPRR-1 Tx (dB)	32.90	32.57	33.24	33.50	33.00	32.67	33.34	33.00
OPRR-2 Tx (dB)	32.85	32.50	33.15	33.50	33.00	32.65	33.15	33.00
OPRR-3 Tx (dB)	29.30	29.41	29.28	30.50	30.30	29.41	29.28	29.50
OPRR-4 Tx (dB)	28.91	28.55	28.86	30.00	29.85	29.72	28.86	29.74
EDGE-1 Tx (dB)	25.41	25.41	25.40	27.50	25.41	25.41	25.40	24.50
EDGE-2 Tx (dB)	25.40	25.40	25.37	26.50	19.42	19.46	19.37	17.50
EDGE-3 Tx (dB)	23.77	23.69	23.79	26.00	17.77	17.69	17.79	16.00
EDGE-4 Tx (dB)	22.88	22.60	22.82	23.50	18.40	18.43	18.38	19.24
EDGE-5 Tx (dB)	20.95	20.61	20.90	21.50	17.59	17.43	17.60	16.00
<b>Default Mode</b>								
TV Channel	512	503	510	512	503	510	512	503
Frequency (MHz)	272.4	272.6	272.9	282.0	281.8	282.1	282.0	281.9
OPRR-1 Tx (dB)	27.84	27.61	27.88	28.50	18.54	18.63	18.58	19.50
OPRR-2 Tx (dB)	24.94	24.94	24.93	26.00	18.54	18.54	18.53	20.00
OPRR-3 Tx (dB)	23.53	23.50	23.53	24.50	19.07	19.11	19.07	20.04
OPRR-4 Tx (dB)	20.70	20.70	20.68	21.50	17.70	17.75	17.69	18.50
EDGE-1 Tx (dB)	22.19	22.67	22.73	23.50	19.79	19.67	19.73	14.50
EDGE-2 Tx (dB)	21.09	21.10	21.11	22.00	18.09	18.59	18.11	18.00
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
<b>Default Mode</b>								
TV Channel	932	940	938	1312	1413	1513	1312	1413
Frequency (MHz)	1802.4	1800	1807.6	1718.4	1721.6	1728	1718.4	1721.6
OPRR-1 Tx (dB)	20.82	20.65	20.67	21.70	20.45	20.61	20.41	21.60
OPRR-2 Tx (dB)	19.72	19.76	19.70	20.70	19.59	19.66	19.50	20.50
OPRR-3 Tx (dB)	19.08	19.71	19.65	20.70	19.90	19.92	20.00	21.60
OPRR-4 Tx (dB)	19.19	19.20	19.21	20.20	19.00	19.11	19.08	20.00
OPRR-5 Tx (dB)	19.15	19.30	19.21	20.20	19.96	19.18	19.03	20.00
OPRR-6 Tx (dB)	19.70	19.85	19.84	20.70	19.54	19.68	19.48	20.50
OPRR-7 Tx (dB)	19.50	19.50	19.41	20.20	19.38	19.40	19.32	20.00
OPRR-8 Tx (dB)	19.08	19.12	19.05	20.20	19.02	19.03	19.00	20.00
OPRR-9 Tx (dB)	19.02	19.15	19.12	20.20	19.90	19.01	20.00	20.00
OPRR-10 Tx (dB)	19.06	19.71	19.70	20.70	19.95	19.61	20.00	21.61
OPRR-11 Tx (dB)	17.71	17.70	17.64	18.70	17.64	17.61	18.50	19.67
OPRR-12 Tx (dB)	18.66	18.71	18.70	19.70	19.52	19.58	19.50	20.50
OPRR-13 Tx (dB)	17.81	17.80	17.87	18.70	17.44	17.51	17.48	18.50
OPRR-14 Tx (dB)	19.94	19.60	19.52	20.70	19.53	19.48	19.38	20.50





### Band 2 DSI5\_Simultaneous Ant 0

BW (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Hgt / Freq	Power Ch / Freq	Turn-up Time (min)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	20.11	20.10	20.07		
20	QPSK	1	49	20.23	20.22	20.19	24	0
20	QPSK	1	99	20.36	20.37	20.37		
20	QPSK	50	0	20.38	20.13	20.05		
20	QPSK	50	24	20.34	20.34	20.38		
20	QPSK	50	50	20.32	20.04	20.06	24	0
20	QPSK	100	0	20.39	20.02	20.01		
20	QPSK	100	24	20.35	20.32	20.38		
20	QPSK	100	49	20.35	20.28	20.24	24	0
20	QPSK	150	0	20.37	20.25	20.20		
20	QPSK	150	24	20.34	20.28	20.24		
20	QPSK	150	49	20.32	20.25	20.20	23.5	0.5
20	QPSK	150	74	20.30	20.24	20.20		
20	QPSK	150	99	20.28	20.22	20.17	23.5	0.5
20	QPSK	200	0	20.26	20.16	20.10		
20	QPSK	200	24	20.24	20.14	20.10		
20	QPSK	200	49	20.22	20.14	20.10	23.5	1.5
20	QPSK	200	74	20.20	20.14	20.10		
20	QPSK	200	99	20.18	20.14	20.10		
20	QPSK	250	0	20.16	20.08	20.05		
20	QPSK	250	24	20.14	20.08	20.05		
20	QPSK	250	49	20.12	20.08	20.05	20.5	3.5
20	QPSK	250	74	20.10	20.08	20.05		
20	QPSK	250	99	20.08	20.08	20.05		
20	QPSK	300	0	20.06	20.02	20.00		
20	QPSK	300	24	20.04	20.02	20.00		
20	QPSK	300	49	20.02	20.02	20.00	20.5	3.5
20	QPSK	300	74	20.00	20.02	20.00		
20	QPSK	300	99	19.98	20.02	20.00		
20	QPSK	350	0	19.96	19.82	19.57		
20	QPSK	350	24	19.94	19.82	19.57		
20	QPSK	350	49	19.92	19.88	19.80	20.5	3.5
20	QPSK	350	74	19.90	19.88	19.80		
20	QPSK	350	99	19.88	19.82	19.57		
20	QPSK	400	0	19.86	19.73	19.63		
20	QPSK	400	24	19.84	19.73	19.63		
20	QPSK	400	49	19.82	19.73	19.63	20.5	3.5
20	QPSK	400	74	19.80	19.73	19.63		
20	QPSK	400	99	19.78	19.73	19.63		
20	QPSK	450	0	19.76	19.63	19.54		
20	QPSK	450	24	19.74	19.63	19.54		
20	QPSK	450	49	19.72	19.63	19.54	20.5	3.5
20	QPSK	450	74	19.70	19.63	19.54		
20	QPSK	450	99	19.68	19.63	19.54		
Channel								
Frequency (MHz)								
15	QPSK	1	0	20.11	20.10	20.07		
15	QPSK	1	49	20.23	20.22	20.19	21.0	0
15	QPSK	1	99	20.36	20.37	20.37		
15	QPSK	50	0	20.37	20.17	20.08		
15	QPSK	50	24	20.34	20.34	20.38		
15	QPSK	50	50	20.32	20.04	20.06	21.0	0
15	QPSK	100	0	20.39	20.02	20.01		
15	QPSK	100	24	20.35	20.32	20.38		
15	QPSK	100	49	20.35	20.28	20.24	21.0	0
15	QPSK	150	0	20.37	20.25	20.20		
15	QPSK	150	24	20.34	20.28	20.24		
15	QPSK	150	49	20.32	20.25	20.20	21.0	0
15	QPSK	200	0	20.39	20.02	20.01		
15	QPSK	200	24	20.35	20.32	20.38		
15	QPSK	200	49	20.35	20.28	20.24	21.0	0
15	QPSK	250	0	20.37	20.25	20.20		
15	QPSK	250	24	20.34	20.28	20.24		
15	QPSK	250	49	20.32	20.25	20.20	21.0	0
15	QPSK	300	0	20.39	20.02	20.01		
15	QPSK	300	24	20.35	20.32	20.38		
15	QPSK	300	49	20.35	20.28	20.24	21.0	0
15	QPSK	350	0	20.37	20.25	20.20		
15	QPSK	350	24	20.34	20.28	20.24		
15	QPSK	350	49	20.32	20.25	20.20	21.0	0
15	QPSK	400	0	20.39	20.02	20.01		
15	QPSK	400	24	20.35	20.32	20.38		
15	QPSK	400	49	20.35	20.28	20.24	21.0	0
15	QPSK	450	0	20.37	20.25	20.20		
15	QPSK	450	24	20.34	20.28	20.24		
15	QPSK	450	49	20.32	20.25	20.20	21.0	0
15	QPSK	500	0	20.39	20.02	20.01		
15	QPSK	500	24	20.35	20.32	20.38		
15	QPSK	500	49	20.35	20.28	20.24	21.0	0
15	QPSK	550	0	20.37	20.25	20.20		
15	QPSK	550	24	20.34	20.28	20.24		
15	QPSK	550	49	20.32	20.25	20.20	21.0	0
15	QPSK	600	0	20.39	20.02	20.01		
15	QPSK	600	24	20.35	20.32	20.38		
15	QPSK	600	49	20.35	20.28	20.24	21.0	0
15	QPSK	650	0	20.37	20.25	20.20		
15	QPSK	650	24	20.34	20.28	20.24		
15	QPSK	650	49	20.32	20.25	20.20	21.0	0
15	QPSK	700	0	20.39	20.02	20.01		
15	QPSK	700	24	20.35	20.32	20.38		
15	QPSK	700	49	20.35	20.28	20.24	21.0	0
15	QPSK	750	0	20.37	20.25	20.20		
15	QPSK	750	24	20.34	20.28	20.24		
15	QPSK	750	49	20.32	20.25	20.20	21.0	0
15	QPSK	800	0	20.39	20.02	20.01		
15	QPSK	800	24	20.35	20.32	20.38		
15	QPSK	800	49	20.35	20.28	20.24	21.0	0
15	QPSK	850	0	20.37	20.25	20.20		
15	QPSK	850	24	20.34	20.28	20.24		
15	QPSK	850	49	20.32	20.25	20.20	21.0	0
15	QPSK	900	0	20.39	20.02	20.01		
15	QPSK	900	24	20.35	20.32	20.38		
15	QPSK	900	49	20.35	20.28	20.24	21.0	0
15	QPSK	950	0	20.37	20.25	20.20		
15	QPSK	950	24	20.34	20.28	20.24		
15	QPSK	950	49	20.32	20.25	20.20	21.0	0
15	QPSK	1000	0	20.39	20.02	20.01		
15	QPSK	1000	24	20.35	20.32	20.38		
15	QPSK	1000	49	20.35	20.28	20.24	21.0	0
15	QPSK	1050	0	20.37	20.25	20.20		
15	QPSK	1050	24	20.34	20.28	20.24		
15	QPSK	1050	49	20.32	20.25	20.20	21.0	0
15	QPSK	1100	0	20.39	20.02	20.01		
15	QPSK	1100	24	20.35	20.32	20.38		
15	QPSK	1100	49	20.35	20.28	20.24	21.0	0
15	QPSK	1150	0	20.37	20.25	20.20		
15	QPSK	1150	24	20.34	20.28	20.24		
15	QPSK	1150	49	20.32	20.25	20.20	21.0	0
15	QPSK	1200	0	20.39	20.02	20.01		
15	QPSK	1200	24	20.35	20.32	20.38		
15	QPSK	1200	49	20.35	20.28	20.24	21.0	0
15	QPSK	1250	0	20.37	20.25	20.20		
15	QPSK	1250	24	20.34	20.28	20.24		
15	QPSK	1250	49	20.32	20.25	20.20	21.0	0
15	QPSK	1300	0	20.39	20.02	20.01		
15	QPSK	1300	24	20.35	20.32	20.38		
15	QPSK	1300	49	20.35	20.28	20.24	21.0	0
15	QPSK	1350	0	20.37	20.25	20.20		
15	QPSK	1350	24	20.34	20.28	20.24		
15	QPSK	1350	49	20.32	20.25	20.20	21.0	0
15	QPSK	1400	0	20.39	20.02	20.01		
15	QPSK	1400	24	20.35	20.32	20.38		
15	QPSK	1400	49	20.35	20.28	20.24	21.0	0
15	QPSK	1450	0	20.37	20.25	20.20		
15	QPSK	1450	24	20.34	20.28	20.24		
15	QPSK	1450	49	20.32	20.25	20.20	21.0	0
15	QPSK	1500	0	20.39	20.02	20.01		
15	QPSK	1500	24	20.35	20.32	20.38		
15	QPSK	1500	49	20.35	20.28	20.24	21.0	0
15	QPSK	1550	0	20.37	20.25	20.20		
15	QPSK	1550	24	20.34	20.28	20.24		
15	QPSK	1550	49	20.32	20.25	20.20	21.0	0
15	QPSK	1600	0					





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)	MRR (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	22.95	23.03	23.01				
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	84QAM	1	0	22.86	23.05	22.91			23.5	0.5
20	84QAM	1	49	22.79	22.95	22.87				
20	84QAM	1	99	21.92	21.99	21.79				
20	84QAM	50	0	21.78	21.79	21.74			22.5	1.5
20	84QAM	50	24	21.69	21.66	21.64				
20	84QAM	50	50	21.78	21.95	21.72				
20	256QAM	1	0	19.76	19.95	19.81			20.5	3.5
20	256QAM	1	49	19.79	19.90	19.83				
20	256QAM	1	99	19.77	19.85	19.78				
20	256QAM	50	0	19.76	19.90	19.80				
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	19.65				
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	22.88			24	0
19	QPSK	36	39	22.84	22.95	22.75				
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	84QAM	1	0	22.74	22.90	22.77			23.5	0.5
19	84QAM	1	37	22.67	22.86	22.81				
19	84QAM	1	74	22.70	22.65	22.65				
19	84QAM	36	0	21.74	21.85	21.85			22.5	1.5
19	84QAM	36	29	21.68	21.68	21.68				
19	84QAM	36	39	21.68	21.73	21.59				
19	84QAM	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	50	0	19.76	19.85	19.80				
19	256QAM	50	24	19.69	19.87	19.80			20.5	3.5
19	256QAM	50	39	19.67	19.70	19.61				
19	256QAM	75	0	19.65	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	22.86	22.94	22.89				
10	QPSK	25	12	22.87	22.85	22.83			23.7	0
10	QPSK	25	25	22.84	22.85	22.71				
10	QPSK	50	0	22.80	22.89	22.83				
10	16QAM	1	0	22.90	22.95	22.83				
10	16QAM	1	24	22.81	22.91	22.88			23.7	0
10	16QAM	1	49	22.66	22.79	22.68				
10	16QAM	25	0	22.74	22.80	22.70			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	84QAM	1	0	22.82	22.91	22.85			23.5	0.5
10	84QAM	1	24	22.64	22.68	22.68				
10	84QAM	1	49	22.72	22.76	22.71				
10	84QAM	25	0	21.79	21.84	21.68			22.5	1.5
10	84QAM	25	12	21.74	21.77	21.61				
10	84QAM	50	0	21.62	21.56	21.52				
10	256QAM	1	0	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	19.73				
10	256QAM	50	0	19.85	19.81	19.81				
10	256QAM	50	12	19.71	19.83	19.68			20.5	3.5
10	256QAM	50	25	19.65	19.61	19.60				
10	256QAM	50	0	19.65	19.67	19.63				
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.03	23.07	23.03				
5	QPSK	1	12	22.95	22.92	23.03			23.7	0
5	QPSK	1	24	22.86	22.90	22.95				
5	QPSK	12	0	22.86	22.94	22.89				
5	QPSK	12	7	22.88	22.90	22.84			23.7	0
5	QPSK	12	13	22.77	22.88	22.79				
5	QPSK	25	0	22.77	22.84	22.68				
5	16QAM	1	0	22.88	23.04	22.88				
5	16QAM	1	12	22.88	22.90	22.87			23.7	0
5	16QAM	1	24	22.67	22.73	22.73				
5	16QAM	12	0	22.70	22.84	22.73			23.5	0.5
5	16QAM	12	7	22.71	22.70	22.63				
5	16QAM	12	13	22.60	22.60	22.60				
5	16QAM	25	0	22.55	22.62	22.61				
5	84QAM	1	0	22.78	22.98	22.88			23.5	0.5
5	84QAM	1	12	22.71	22.82	22.81				
5	84QAM	1	24	22.65	22.69	22.76				
5	84QAM	12	0	21.78	21.84	21.70			22.5	1.5
5	84QAM	12	7	21.70	21.65	21.70				
5	84QAM	12	13	21.68	21.79	21.68				
5	84QAM	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				
5	256QAM	12	7	19.68	19.78	19.59			20.5	3.5
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	22.98	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				
3	QPSK	8	4	22.80	22.97	22.91			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				
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			23.5	0.5
3	16QAM	8	4	22.65	22.65	22.67				
3	16QAM	15	0	22.97	22.69	22.67				
3	84QAM	1	0	22.75	22.92	22.80			23.5	0.5
3	84QAM	1	8	22.66	22.91	22.79				
3	84QAM	1	14	22.65	22.72	22.69				
3	84QAM	8</								



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)										
20	QPSK	1	0	20.71	20.76	20.83	21.0	0		
20	QPSK	1	49	20.83	20.87	20.94				
20	QPSK	1	99	20.48	20.60	20.67				
20	QPSK	50	0	20.57	20.67	20.74				
20	QPSK	50	24	20.54	20.62	20.67				
20	QPSK	50	50	20.50	20.60	20.69				
20	QPSK	100	0	20.49	20.65	20.83				
20	16QAM	1	0	20.51	20.57	20.67	21.0	0		
20	16QAM	1	49	20.50	20.60	20.68				
20	16QAM	1	99	20.49	20.65	20.43				
20	16QAM	50	0	20.51	20.59	20.64				
20	16QAM	50	24	20.55	20.62	20.67				
20	16QAM	50	50	20.46	20.62	20.62				
20	16QAM	100	0	20.50	20.60	20.64				
20	64QAM	1	0	20.44	20.51	20.58				
20	64QAM	1	49	20.41	20.46	20.46				
20	64QAM	1	99	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	20.60	20.50				
20	64QAM	100	0	20.48	20.45	20.41				
20	256QAM	1	49	18.99	18.97	18.99				
20	256QAM	1	99	18.81	18.84	18.83			20.5	1.4
20	256QAM	50	0	18.74	18.80	18.80				
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	18.73	18.68				
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.56	20.70	20.59	21.0	0		
15	QPSK	1	39	20.55	20.60	20.63				
15	QPSK	1	74	20.36	20.50	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	39	20.42	20.50	20.54				
15	QPSK	75	0	20.41	20.46	20.44				
15	16QAM	1	0	20.43	20.36	20.27	21.0	0		
15	16QAM	1	39	20.45	20.58	20.51				
15	16QAM	1	74	20.33	20.40	20.48				
15	16QAM	36	0	20.52	20.48	20.43				
15	16QAM	36	20	20.45	20.56	20.53				
15	16QAM	36	39	20.34	20.44	20.44				
15	16QAM	75	0	20.49	20.55	20.61				
15	64QAM	1	0	20.33	20.46	20.24				
15	64QAM	1	39	20.36	20.46	20.38				
15	64QAM	1	74	20.32	20.35	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	39	20.50	20.55	20.39				
15	64QAM	75	0	20.41	20.40	20.36				
15	256QAM	1	39	18.78	18.80	18.80				
15	256QAM	1	74	18.92	18.80	18.79			20.5	1.4
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	18.83	18.68				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.17	20.46	20.46	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	20.46	20.48				
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	20.40	20.48				
10	16QAM	50	0	20.47	20.53	20.49				
10	64QAM	1	0	20.37	20.46	20.24				
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	25	18.76	18.80	18.81				
10	256QAM	1	25	18.79	18.82	18.80			20.5	1.4
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)										
5	QPSK	1	0	20.53	20.52	20.59	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	20.50	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	20.50	20.52				
5	16QAM	12	13	20.36	20.50	20.48				
5	16QAM	25	0	20.47	20.50	20.80				
5	64QAM	1	0	20.36	20.40	20.31				
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	12	18.76	18.79	18.80				
5	256QAM	1	12	18.71	18.84	18.80			20.5	1.4
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	18.62	18.61	18.61				
Channel										
Frequency (MHz)										
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				
3	64QAM	1	8	20.36	20.46	20.42				
3	64QAM	1	14	20.30	20.39	20.43				
3	64QAM	8	0	20.49	20.54	20.42				
3	64QAM									



### 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										
38750 38950 39150										
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	22	0		
20	QPSK	100	0	20.57	20.52	20.53				
20	16QAM	1	0	20.46	20.57	20.59				
20	16QAM	1	49	20.47	20.45	20.53				
20	16QAM	1	99	20.20	20.33	20.40	21.5	0.5		
20	16QAM	50	0	20.06	20.22	20.04				
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	20.05	21.5	0.5		
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	20.5	1.5		
20	16QAM	50	50	19.82	19.86	19.83				
20	16QAM	100	0	19.85	19.88	19.79				
20	16QAM	1	0	17.91	18.08	17.94				
20	256QAM	1	49	17.92	17.93	17.92	18.5	3.5		
20	256QAM	1	99	17.86	17.85	17.87				
20	256QAM	50	0	17.90	17.95	17.97				
20	256QAM	50	24	17.20	17.95	17.90				
20	256QAM	50	50	17.77	17.87	17.81	18.5	3.5		
20	256QAM	100	0	17.93	18.03	17.94				
Channel										
31623 31600 31575										
Frequency (MHz)										
15	QPSK	1	0	20.72	20.95	21.23	22	0		
15	QPSK	1	37	20.28	20.36	20.42				
15	QPSK	1	74	20.40	20.36	20.23				
15	QPSK	1	111	20.37	20.38	20.27				
15	QPSK	36	20	20.24	20.39	20.31	22	0		
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	39	19.92	19.92	19.81				
15	16QAM	36	59	19.78	19.93	19.83	21.5	0.5		
15	16QAM	75	0	19.85	19.99	19.88				
15	16QAM	1	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	21.5	0.5		
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	18.5	3.5		
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	17.92	17.72				
15	256QAM	36	0	17.83	18.00	17.92	18.5	3.5		
15	256QAM	36	39	17.82	17.82	17.82				
15	256QAM	36	59	17.64	17.77	17.71				
15	256QAM	75	0	17.79	17.96	17.84				
Channel										
30300 30300 30300										
Frequency (MHz)										
10	QPSK	1	0	20.36	20.62	20.62	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	12	20.37	20.42	20.23				
10	QPSK	25	12	20.24	20.48	20.20	22	0		
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				
10	16QAM	1	49	20.16	20.17	20.33	22	0		
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	25	0	19.86	20.04	19.84	21.5	0.5		
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	20.5	1.5		
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	18.5	3.5		
10	256QAM	1	25	17.72	17.97	17.86				
10	256QAM	1	49	17.71	17.95	17.74				
10	256QAM	25	0	17.84	17.83	17.84				
10	256QAM	25	12	17.86	17.81	17.85	18.5	3.5		
10	256QAM	25	25	17.20	17.82	17.89				
10	256QAM	50	0	17.85	17.88	17.84				
Channel										
2672.5 2695 2671.5										
Frequency (MHz)										
5	QPSK	1	0	20.56	20.81	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	10	0	20.38	20.46	20.50				
5	QPSK	12	7	20.24	20.42	20.36	22	0		
5	QPSK	12	19	20.11	20.29	20.18				
5	QPSK	25	0	20.29	20.39	20.28				
5	16QAM	1	0	20.31	20.44	20.23				
5	16QAM	1	12	20.28	20.39	20.16	22	0		
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	21.5	0.5		
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	21.5	0.5		
5	16QAM	10	0	19.78	19.89	19.81				
5	16QAM	10	7	19.75	19.76	19.75				
5	16QAM	12	13	19.72	19.78	19.71				
5	16QAM	25	0	19.96	19.76	19.86	20.5	1.5		
5	256QAM	1	0	17.83	18.01	17.86				
5	256QAM	1	12	17.74	18.03	17.82				
5	256QAM	1	24	17.74	17.92	17.78				
5	256QAM	10	0	17.79	17.86	17.86	18.5	3.5		
5	256QAM	10	13	17.70	17.81	17.70				
5	256QAM	25	0	17.87	17.89	17.89				
Channel										
39750 39750 39750										
Frequency (MHz)										
20	QPSK	1	0	20.99	21.02	21.02	22	0		
20	QPSK	1	49	20.81	21.06	21.02				
20	QPSK	50	24	20.83	20.96	20.90				
20	QPSK	50	0	20.97	20.91	20.99				
20	QPSK	50	24	20.76	20.83	20.77	22.2	0		
20	QPSK	100	0	20.88	20.73	20.82				
20	QPSK	100	0	20.90	20.78	21.02				
20	16QAM	1	0	20.87	20.79	20.87				
20	16QAM	1	49	20.83	20.71	20.82	22.2	0		
20	16QAM	1	99	20.82	20.82	20.78				
20	16QAM	50	0	20.86	20.87	21.09				
20	16QAM	50	24	20.79	20.85	20.84				
20	16QAM	50	50	20.78	20.79	20.80	22.2	0		
20	16QAM	100	0	21.02	21.09	20.82				
20	16QAM	1	0	21.11	20.97	21.01				
20	16QAM	1	49	20.99	21.00	21.07				
20	16QAM	1	99	20.85	20.95	20.86	22.2	0		
20	16QAM	50	0	20.27	20.27	20.40				
20	16QAM	50	24	20.23	20.24	20.22				
20	16QAM	50	50	20.19	20.18	20.24				
20	16QAM	100	0	20.10	20.14	20.22	21.5	0.7		
20	16QAM	1	0	18.24	18.20	18.37				
20	16QAM	1	49	18.27	18.18	18.37				
20	16QAM	1	99	18.10	18.08	18.23				
20	256QAM	1	49	18.09	18.14	18.09	19.5	2.7		
20	256QAM	1	99	18.10	18.14	18.16				
20	256QAM	50	0	18.19	18.14	18.24				
20	256QAM	50	24	18.19	18.14	18.10				
20	256QAM	50	50	18.12	18.05	18.20	19.5	2.7		
20	256QAM	100	0	18.14	18.08	18.10				
Channel										
39750 40173 40200 41058 41058										
Frequency (MHz)										
16	QPSK	1	0	20.93	21.02	21.12	22	0		
16	QPSK	1	37	20.71	21.04	20.92				
16	QPSK	1	74	20.78	20.70	20.81				
16	QPSK	36	20	20.91	20.89	20.88				
16	QPSK	36	39	20.70	20.74	20.71	22.2	0		
16	QPSK	36	59	20.68	20.72	20.69				
16	QPSK	75	0	20.82	20.74	20.81				
16	16QAM	1	0	20.84	20.89	20.90				
16	16QAM	1	37	20.89	20.87	20.79	22.2	0		
16	16QAM	1	74	20.82	20.80	20.70				
16	16QAM	36								



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	22.36	22.52	22.68	22.84	23.00	23.16	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	16QAM	1	0	22.47	22.63	22.79	22.95	23.11	23.27	23.8	0
20	16QAM	1	49	22.57	22.73	22.89	23.05	23.21	23.37	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	64QAM	1	0	21.99	22.15	22.31	22.47	22.63	22.79	23.8	0
20	64QAM	1	49	22.09	22.25	22.41	22.57	22.73	22.89	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	256QAM	1	0	21.61	21.77	21.93	22.09	22.25	22.41	23.8	1.8
20	256QAM	1	49	21.71	21.87	22.03	22.19	22.35	22.51	23.8	1.8
20	256QAM	50	0	21.24	21.40	21.56	21.72	21.88	22.04	23.8	1.8
20	256QAM	50	24	21.27	21.43	21.59	21.75	21.91	22.07	23.8	1.8
20	256QAM	100	0	21.14	21.30	21.46	21.62	21.78	21.94	23.8	1.8
20	256QAM	100	0	21.22	21.38	21.54	21.70	21.86	22.02	23.8	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	0	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	0	21.94	22.10	22.26	22.42	22.58	22.74	23.8	0
15	64QAM	1	37	21.66	21.82	21.98	22.14	22.30	22.46	23.8	0
15	64QAM	1	74	21.76	21.92	22.08	22.24	22.40	22.56	23.8	0
15	64QAM	36	0	21.77	21.93	22.09	22.25	22.41	22.57	23.8	0
15	64QAM	36	20	21.59	21.75	21.91	22.07	22.23	22.39	23.8	0
15	64QAM	36	39	21.58	21.74	21.90	22.06	22.22	22.38	23.8	0
15	64QAM	75	0	21.04	21.20	21.36	21.52	21.68	21.84	23.8	0
15	256QAM	1	0	21.43	21.59	21.75	21.91	22.07	22.23	23.8	1.8
15	256QAM	1	37	21.15	21.31	21.47	21.63	21.79	21.95	23.8	1.8
15	256QAM	1	74	21.25	21.41	21.57	21.73	21.89	22.05	23.8	1.8
15	256QAM	36	0	21.24	21.40	21.56	21.72	21.88	22.04	23.8	1.8
15	256QAM	36	20	21.06	21.22	21.38	21.54	21.70	21.86	23.8	1.8
15	256QAM	36	39	21.10	21.26	21.42	21.58	21.74	21.90	23.8	1.8
15	256QAM	75	0	21.21	21.37	21.53	21.69	21.85	22.01	23.8	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	0	22.28	22.44	22.60	22.76	22.92	23.08	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	22.09	22.25	22.41	22.57	22.73	22.89	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	21.97	22.13	22.29	22.45	22.61	22.77	23.8	0
10	64QAM	1	0	21.61	21.77	21.93	22.09	22.25	22.41	23.8	0
10	64QAM	1	25	21.49	21.65	21.81	21.97	22.13	22.29	23.8	0
10	64QAM	1	49	21.37	21.53	21.69	21.85	22.01	22.17	23.8	0
10	64QAM	25	0	21.67	21.83	21.99	22.15	22.31	22.47	23.8	0
10	64QAM	25	12	21.56	21.72	21.88	22.04	22.20	22.36	23.8	0
10	64QAM	25	25	21.45	21.61	21.77	21.93	22.09	22.25	23.8	0
10	256QAM	1	0	21.21	21.37	21.53	21.69	21.85	22.01	23.8	1.8
10	256QAM	1	25	21.09	21.25	21.41	21.57	21.73	21.89	23.8	1.8
10	256QAM	1	49	20.97	21.13	21.29	21.45	21.61	21.77	23.8	1.8
10	256QAM	25	0	21.09	21.25	21.41	21.57	21.73	21.89	23.8	1.8
10	256QAM	25	12	20.98	21.14	21.30	21.46	21.62	21.78	23.8	1.8
10	256QAM	25	25	20.87	21.03	21.19	21.35	21.51	21.67	23.8	1.8
10	256QAM	50	0	21.28	21.44	21.60	21.76	21.92	22.08	23.8	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	22.36	22.52	22.68	22.84	23.00	23.16	23.8	0
5	QPSK	10	7	22.18	22.34	22.50	22.66	22.82	22.98	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	21.95	22.11	22.27	22.43	22.59	22.75	23.8	0
5	16QAM	10	0	22.28	22.44	22.60	22.76	22.92	23.08	23.8	0
5	16QAM	10	7	22.07	22.23	22.39	22.55	22.71	22.87	23.8	0
5	16QAM	10	13	21.84	22.00	22.16	22.32	22.48	22.64	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	21.96	22.12	22.28	22.44	22.60	22.76	23.8	0
5	64QAM	1	24	21.78	21.94	22.10	22.26	22.42	22.58	23.8	0
5	64QAM	10	0	22.13	22.29	22.45	22.61	22.77	22.93	23.8	0
5	64QAM	10	7	21.95	22.11	22.27	22.43	22.59	22.75	23.8	0
5	64QAM	10	13	21.72	21.88	22.04	22.20	22.36	22.52	23.8	0
5	64QAM	25	0	22.07	22.23	22.39	22.55	22.71	22.87	23.8	0
5	64QAM	25	12	21.89	22.05	22.21	22.37	22.53	22.69	23.8	0
5	64QAM	25	25	21.70	21.86	22.02	22.18	22.34	22.50	23.8	0
5	256QAM	1	0	21.48	21.64	21.80	21.96	22.12	22.28	23.8	1.8
5	256QAM	1	24	21.30	21.46	21.62	21.78	21.94	22.10	23.8	1.8
5	256QAM	10	0	21.19	21.35	21.51	21.67	21.83	21.99	23.8	1.8
5	256QAM	10									



DCM92 Airt										
DCM92										
	Base Average Power (dBm)			Turnup Limit	Frame Average Power (dBm)			Turnup Limit		
TX Channel	198	199	201	Limit	198	199	201	Limit		
Frequency (MHz)	89.2	89.4	89.6	(dBm)	89.2	89.4	89.6	(dBm)		
OPM-1 Tx side	31.42	31.48	31.36	32.00	22.42	22.48	22.36	23.00		
OPM-1 Tx side	31.38	31.44	31.33	32.00	22.38	22.44	22.33	23.00		
OPRS-2 Tx side	25.27	25.29	25.32	26.00	22.27	22.29	22.30	23.00		
OPRS-3 Tx side	26.80	26.91	26.80	28.00	22.84	22.85	22.84	23.74		
OPRS-4 Tx side	25.16	25.22	25.17	26.00	22.16	22.22	22.17	23.00		
EDGE-1 Tx side	24.00	24.17	24.05	26.00	18.00	18.17	18.05	18.00		
EDGE-2 Tx side	22.20	22.41	22.34	23.00	16.20	16.41	16.34	17.00		
EDGE-3 Tx side	21.15	21.21	21.08	22.00	15.89	15.97	15.82	17.74		
EDGE-4 Tx side	18.50	18.00	18.03	20.00	15.99	16.00	16.01	17.00		

  

DCM100 Airt										
DCM100										
	Base Average Power (dBm)			Turnup Limit	Frame Average Power (dBm)			Turnup Limit		
TX Channel	189.2	189.3	189.8	Limit	189.2	189.3	189.8	Limit		
Frequency (MHz)	189.2	189.3	189.8	(dBm)	189.2	189.3	189.8	(dBm)		
OPM-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	17.00	11.86	11.96	11.86	18.74		
EDGE-4 Tx side	17.01	16.00	17.07	19.00	14.91	15.00	14.97	16.00		

  

DCS Simultaneous WCDMA IV Airt											
DCS Simultaneous WCDMA IV Airt											
	Base			Turnup Limit	DCS IV			Turnup Limit	Default WCDMA V Airt		
TX Channel	9582	9600	9588	Limit	1412	1413	1513	Limit	4152	4162	4238
Frequency (MHz)	1852.4	1860	1867.6	(dBm)	1712.4	1712.6	1752.6	(dBm)	836.4	838.4	846.6
ISPP-Param1	21.03	21.12	21.00	22.20	20.67	20.92	20.81	22.40	21.14	21.17	21.04
ISPP-Param2	21.08	21.15	21.12	22.30	20.91	20.91	20.84	22.40	21.17	21.01	21.00
ISPP-Param3	20.19	20.50	20.03	21.30	19.81	20.01	19.69	21.40	20.23	20.23	20.00
ISPP-Param4	20.15	20.11	20.19	21.30	19.84	19.85	19.83	21.40	20.12	20.02	20.17
ISPP-Param5	19.89	19.80	19.71	20.20	18.36	18.44	18.32	20.50	19.57	19.70	19.69
ISPP-Param6	19.56	19.46	19.74	20.20	18.23	18.45	18.50	20.50	19.56	19.73	19.64
ISPP-Param7	20.16	20.24	20.03	21.30	19.91	20.09	19.75	21.40	20.21	20.32	20.01
ISPP-Param8	19.96	19.97	19.92	21.30	19.79	19.73	19.74	21.40	20.08	20.08	19.84
ISPP-Param9	19.08	19.95	19.06	20.80	19.31	19.24	19.26	20.50	19.95	19.08	19.95
ISPP-Param10	19.54	19.53	19.64	20.80	19.25	19.18	19.31	20.50	19.49	19.47	19.64
ISPP-Param11	20.50	20.21	20.53	21.30	19.87	20.02	19.86	21.40	20.10	20.22	20.26
ISPP-Param12	18.17	18.20	18.17	19.30	17.78	18.00	17.79	19.40	18.09	18.19	18.13
ISPP-Param13	18.27	18.24	18.20	19.30	18.09	18.01	18.04	20.00	18.18	18.06	18.16
ISPP-Param14	18.00	18.00	18.10	19.30	17.82	17.81	17.72	19.40	18.04	18.14	18.03
ISPP-Param15	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	20.92	20.80				
20	QPSK	100	0	20.90	20.95	20.87				
20	QPSK	100	49	20.80	20.92	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	20.88	20.76				
20	HQAM	200	24	20.76	20.73	20.81			20.5	1.5
20	HQAM	200	74	20.79	20.85	20.81				
20	HQAM	200	99	20.86	20.82	20.80				
20	HQAM	400	0	20.78	20.85	20.75				
20	HQAM	400	49	20.74	20.80	20.74			21.5	0.5
20	HQAM	400	99	20.89	20.79	20.72				
20	HQAM	800	24	20.86	20.78	20.81			20.5	1.5
20	HQAM	800	74	20.84	20.78	20.86				
20	HQAM	800	99	20.83	20.76	20.89				
20	HQAM	1600	0	20.78	20.85	20.75				
20	HQAM	1600	49	20.74	20.80	20.74			21.5	0.5
20	HQAM	1600	99	20.89	20.79	20.72				
20	HQAM	3200	24	20.86	20.78	20.81			20.5	1.5
20	HQAM	3200	74	20.84	20.78	20.86				
20	HQAM	3200	99	20.83	20.76	20.89				
20	HQAM	6400	0	20.78	20.85	20.75				
20	HQAM	6400	49	20.74	20.80	20.74			21.5	0.5
20	HQAM	6400	99	20.89	20.79	20.72				
20	HQAM	12800	24	20.86	20.78	20.81			20.5	1.5
20	HQAM	12800	74	20.84	20.78	20.86				
20	HQAM	12800	99	20.83	20.76	20.89				
20	HQAM	25600	0	20.78	20.85	20.75				
20	HQAM	25600	49	20.74	20.80	20.74			21.5	0.5
20	HQAM	25600	99	20.89	20.79	20.72				
20	HQAM	51200	24	20.86	20.78	20.81			20.5	1.5
20	HQAM	51200	74	20.84	20.78	20.86				
20	HQAM	51200	99	20.83	20.76	20.89				
20	HQAM	102400	0	20.78	20.85	20.75				
20	HQAM	102400	49	20.74	20.80	20.74			21.5	0.5
20	HQAM	102400	99	20.89	20.79	20.72				
20	HQAM	204800	24	20.86	20.78	20.81			20.5	1.5
20	HQAM	204800	74	20.84	20.78	20.86				
20	HQAM	204800	99	20.83	20.76	20.89				
20	HQAM	409600	0	20.78	20.85	20.75				
20	HQAM	409600	49	20.74	20.80	20.74			21.5	0.5
20	HQAM	409600	99	20.89	20.79	20.72				
20	HQAM	819200	24	20.86	20.78	20.81			20.5	1.5
20	HQAM	819200	74	20.84	20.78	20.86				
20	HQAM	819200	99	20.83	20.76	20.89				
20	HQAM	1638400	0	20.78	20.85	20.75				
20	HQAM	1638400	49	20.74	20.80	20.74			21.5	0.5
20	HQAM	1638400	99	20.89	20.79	20.72				
20	HQAM	3276800	24	20.86	20.78	20.81			20.5	1.5
20	HQAM	3276800	74	20.84	20.78	20.86				
20	HQAM	3276800	99	20.83	20.76	20.89				
20	HQAM	6553600	0	20.78	20.85	20.75				
20	HQAM	6553600	49	20.74	20.80	20.74			21.5	0.5
20	HQAM	6553600	99	20.89	20.79	20.72				
20	HQAM	13107200	24	20.86	20.78	20.81			20.5	1.5
20	HQAM	13107200	74	20.84	20.78	20.86				
20	HQAM	13107200	99	20.83	20.76	20.89				
20	HQAM	26214400	0	20.78	20.85	20.75				
20	HQAM	26214400	49	20.74	20.80	20.74			21.5	0.5
20	HQAM	26214400	99	20.89	20.79	20.72				
20	HQAM	52428800	24	20.86	20.78	20.81			20.5	1.5
20	HQAM	52428800	74	20.84	20.78	20.86				
20	HQAM	52428800	99	20.83	20.76	20.89				
20	HQAM	104857600	0	20.78	20.85	20.75				
20	HQAM	104857600	49	20.74	20.80	20.74			21.5	0.5
20	HQAM	104857600	99	20.89	20.79	20.72				
20	HQAM	209715200	24	20.86	20.78	20.81			20.5	1.5
20	HQAM	209715200	74	20.84	20.78	20.86				
20	HQAM	209715200	99	20.83	20.76	20.89				
20	HQAM	419430400	0	20.78	20.85	20.75				
20	HQAM	419430400	49	20.74	20.80	20.74			21.5	0.5
20	HQAM	419430400	99	20.89	20.79	20.72				
20	HQAM	838860800	24	20.86	20.78	20.81			20.5	1.5
20	HQAM	838860800	74	20.84	20.78	20.86				
20	HQAM	838860800	99	20.83	20.76	20.89				
20	HQAM	1677721600	0	20.78	20.85	20.75				
20	HQAM	1677721600	49	20.74	20.80	20.74			21.5	0.5
20	HQAM	1677721600	99	20.89	20.79	20.72				
20	HQAM	3355443200	24	20.86	20.78	20.81			20.5	1.5
20	HQAM	3355443200	74	20.84	20.78	20.86				
20	HQAM	3355443200	99	20.83	20.76	20.89				
20	HQAM	6710886400	0	20.78	20.85	20.75				
20	HQAM	6710886400	49	20.74	20.80	20.74			21.5	0.5
20	HQAM	6710886400	99	20.89	20.79	20.72				
20	HQAM	13421772800	24	20.86	20.78	20.81			20.5	1.5
20	HQAM	13421772800	74	20.84	20.78	20.86				
20	HQAM	13421772800	99	20.83	20.76	20.89				
20	HQAM	26843545600	0	20.78	20.85	20.75				
20	HQAM	26843545600	49	20.74	20.80	20.74			21.5	0.5
20	HQAM	26843545600	99	20.89	20.79	20.72				
20	HQAM	53687091200	24	20.86	20.78	20.81			20.5	1.5
20	HQAM	53687091200	74	20.84	20.78	20.86				
20	HQAM	53687091200	99	20.83	20.76	20.89				
20	HQAM	107374182400	0	20.78	20.85	20.75				
20	HQAM	107374182400	49	20.74	20.80	20.74			21.5	0.5
20	HQAM	107374182400	99	20.89	20.79	20.72				
20	HQAM	214748364800	24	20.86	20.78	20.81			20.5	1.5
20	HQAM	214748364800	74	20.84	20.78	20.86				
20	HQAM	214748364800	99	20.83	20.76	20.89				
20	HQAM	429496729600	0	20.78	20.85	20.75				
20	HQAM	429496729600	49	20.74	20.80	20.74			21.5	0.5
20	HQAM	429496729600	99	20.89	20.79	20.72				
20	HQAM	858993459200	24	20.86	20.78	20.81			20.5	1.5
20	HQAM	858993459200	74	20.84	20.78	20.86				
20	HQAM	858993459200	99	20.83	20.76	20.89				
20	HQAM	1717986918400	0	20.78	20.85	20.75				
20	HQAM	1717986918400	49	20.74	20.80	20.74			21.5	0.5
20	HQAM	1717986918400	99	20.89	20.79	20.72				
20	HQAM	3435973836800	24	20.86	20.78	20.81			20.5	1.5
20	HQAM	3435973836800	74	20.84	20.78	20.86				
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	21.52				
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		18.5	3.5	
10	256QAM	25	25	18.24	18.32	18.32				
10	256QAM	50	0	18.33	18.25	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				
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	12	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	25	21.48	21.48	21.40				
5	16QAM	1	49	21.36	21.37	21.23		23	0	
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				
5	8QAM	1	25	21.12	21.27	21.11		22.5	0.5	
5	8QAM	1	49	21.13	21.26	21.20				
5	8QAM	12	0	20.31	20.41	20.36				
5	8QAM	12	7	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	18.26	18.23	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	20.86				
3	QPSK	1	25	21.02	21.03	21.05				
3	QPSK	1	49	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	8	7	21.32	21.40	21.38		23	0	
3	QPSK	15	0	21.52	21.53	21.53				
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	24	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	21.30	21.07				
3	16QAM	15	0	21.22	21.47	21.39				
3	8QAM	1	0	21.20	21.40	21.29		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				
3	8QAM	8	4	20.33	20.38	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	18.42	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	21.65				
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	21.67	21.67	21.60				
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	21.50	21.50	21.39				
1.4	16QAM	1	3	21.34	21.40	21.33				
1.4	16QAM	6	0	21.28	21.43	21.40				
1.4	16QAM	3	1	21.26	21.48	21.39		23	0	
1.4	16QAM	3	1	21.26	21.44	21.28				
1.4	16QAM	3	0	21.23	21.37	21.36				
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	20.39	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	6	0	18.19	18.24	18.22		19.5	3.5	
1.4	256QAM	6	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	21.65				
10	QPSK	1	25	21.43	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				
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	21.51	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	21.42	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	16QAM	1	0	21.19	21.19	21.19		22.5	0.5	
10	8QAM	1	25	21.04	21.04	21.04				



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	17.95	17.88				
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	25	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	20.76	20.82	20.78				
15	16QAM	36	0	20.71	20.86	20.74	22	0		
15	16QAM	36	25	20.67	20.82	20.71				
15	16QAM	36	39	20.71	20.86	20.74				
15	16QAM	75	0	20.78	20.81	20.81				
15	64QAM	1	0	20.83	21.06	20.88				
15	64QAM	1	32	20.83	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	22	0		
15	64QAM	36	25	20.76	20.86	20.75				
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	17.88				
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	17.95	17.86				
15	256QAM	36	25	17.89	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	20.92				
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	20.89	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	20.82	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	20.82				
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	20.85	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	25	13	17.62	17.70	17.74				
3	256QAM	25	25	17.63	17.64	17.63				
Channel										
2665 2665 2665										
1852.5 1850 1912.5										
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	20.81				
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	20.88	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	20.90	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	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	17.63				
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	17.75	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	20.69	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	20.88	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	20.48	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	37	17.76	17.80	17.81				
15	256QAM	1	74	17.85	17.85	17.81	19	3		
15	256QAM	36	0	17.46	17.50	17.46				
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	17.43	17.74				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.71	20.80	20.71				
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	20.78	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	22	0		
10	16QAM	25	25	20.56	20.58	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	20.48	20.43	22	0		
10	64QAM	25	25	20.47	20.48	20.45				
10	64QAM	50	0	20.87	20.79	20.75				
10	256QAM	1	25	17.86	17.82	17.82				
10	256QAM	1	25	17.86	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	17.45	17.43	19	3		
10	256QAM	50	0	17.62	17.62	17.78				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.71	20.80	20.71				
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	20.84	20.80				
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	20.87				
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	20.67	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	20.81				
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	20.70				
5	256QAM	1	0	17.82	18.00	17.83				
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	17.55	17.62	17.49				
5	256QAM	12	7	17.54	17.50	17.47	19	3		
5	256QAM	12	13	17.39	17.47	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	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	20.55				
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	20.88	20.69				
3	64QAM	8	4	20.45	20.61	20.46				
3	64QAM	8	7	20.49	20					



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	20.46	20.39	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	20.37			
15	16QAM	1	74	20.27	20.34	20.36			
15	16QAM	36	0	20.09	20.20	20.21			
15	16QAM	36	20	19.97	19.87	19.96			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	18.11	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	12	0	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	20.48	20.30			
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	25	20.04	20.01	20.03			
10	16QAM	50	0	19.95	20.25	20.07			
10	16QAM	50	0	20.32	20.64	20.68			21.9
10	16QAM	1	25	20.32	20.32	20.27			
10	16QAM	1	49	20.20	20.26	20.23			21.9
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			20.5
10	25QAM	25	25	18.77	18.94	18.87			1.4
10	25QAM	50	0	18.91	18.04	18.88			
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	19	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	19	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	18.86			20.5
5	25QAM	1	24	18.64	18.73	18.70			1.4
5	25QAM	12	0	18.82	18.81	18.94			
5	25QAM	12	19	18.85	18.88	18.90			20.5
5	25QAM	25	0	18.95	18.06	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	20.74	20.77	20.77		
20	QPSK	1	49	20.69	20.60	20.76	20.70	20.59		21.9
20	QPSK	50	24	20.64	20.62	20.66	20.66	20.66		
20	QPSK	50	0	20.59	20.60	20.65	20.65	20.67		
20	QPSK	50	24	20.52	20.64	20.62	20.64	20.67		21.9
20	QPSK	100	0	20.38	20.51	20.51	20.51	20.41		
20	QPSK	100	0	20.49	20.51	20.60	20.59	20.40		
20	16QAM	1	0	20.59	20.55	20.58	20.60	20.45		21.9
20	16QAM	1	49	20.58	20.62	20.53	20.45	20.58		
20	16QAM	1	99	20.37	20.42	20.50	20.37	20.30		
20	16QAM	50	0	20.69	20.61	20.61	20.76	20.76		
20	16QAM	50	24	20.63	20.60	20.67	20.75	20.58		
20	16QAM	50	50	20.67	20.60	20.67	20.61	20.48		21.9
20	16QAM	100	0	20.67	20.69	20.79	20.64	20.54		
20	16QAM	100	0	20.77	20.52	20.63	20.79	20.55		
20	16QAM	1	49	20.63	20.60	20.54	20.77	20.68		21.9
20	16QAM	1	99	20.60	20.74	20.52	20.56	20.60		
20	16QAM	50	0	20.59	20.58	20.64	20.53	20.60		
20	16QAM	50	24	20.66	20.78	20.56	20.61	20.61		21
20	16QAM	50	50	20.70	20.68	20.62	20.74	20.79		0.9
20	16QAM	100	0	20.68	20.67	20.60	20.65	20.79		
20	25QAM	1	0	18.82	18.60	18.90	18.70	18.86		
20	25QAM	1	49	18.84	18.67	18.90	18.75	18.79		19
20	25QAM	1	99	18.63	18.63	18.73	18.71	18.58		2.9
20	25QAM	50	0	18.68	18.67	18.60	18.60	18.64		
20	25QAM	50	24	18.81	18.79	18.84	18.82	18.82		19
20	25QAM	50	50	18.71	18.73	18.81	18.83	18.79		2.9
20	25QAM	100	0	18.87	18.81	18.81	18.83	18.83		
Channel										
Frequency (MHz)										
16	QPSK	1	0	20.62	20.54	20.79	20.73	20.62		
16	QPSK	1	37	20.44	20.43	20.51	20.46	20.36		22
16	QPSK	1	74	20.48	20.49	20.64	20.47	20.38		
16	QPSK	36	0	20.65	20.61	20.62	20.61	20.67		
16	QPSK	36	20	20.38	20.50	20.55	20.55	20.49		21.9
16	QPSK	36	20	20.38	20.50	20.55	20.55	20.49		
16	QPSK	75	0	20.46	20.48	20.50	20.48	20.26		
16	16QAM	1	0	20.54	20.49	20.52	20.46	20.34		
16	16QAM	1								



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	39	22.42	22.42	22.50	22.38	22.29	22.29		
15	QPSK	75	0	22.42	22.48	22.50	22.48	22.36	22.36		
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	22.20	22.20		
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	39	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	22.40	22.28	22.38	22.20	22.17	22.17		
15	16QAM	36	20	22.10	22.09	22.28	22.20	22.17	22.17		
15	16QAM	36	39	22.04	22.28	22.35	22.12	22.16	22.16	23.5	0
15	16QAM	75	0	22.18	22.18	22.18	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	39	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	12	22.50	22.40	22.48	22.40	22.30	22.30	23.5	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	22.35	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	12	22.20	22.20	22.20	22.20	22.20	22.20		
10	16QAM	25	0	22.28	22.48	22.40	22.40	22.33	22.33		
10	16QAM	25	12	22.32	22.21	22.46	22.34	22.07	22.07	23.5	0
10	16QAM	25	25	22.43	22.30	22.50	22.18	22.21	22.21		
10	16QAM	1	49	22.34	22.11	22.28	22.25	22.17	22.17	23.5	0
10	16QAM	25	12	22.20	22.16	22.36	22.09	22.32	22.32		
10	16QAM	25	25	22.18	22.03	22.30	22.17	22.36	22.36	23.5	0
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	21.33	21.45	21.45		
10	256QAM	25	0	21.33	21.29	21.44	21.25	21.41	21.41	23	0.5
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	21.25	21.25		
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	23.5	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	22.40	22.40	23.5	0
5	QPSK	25	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	23.5	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	23.5	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	22.20	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	12								



EN	OSM1900 Avg2	Default							
		Best Average Price (BPA)			Limit	Frank-Average Price (FAP)		Topup	
TX Channel		\$12	\$61	\$10	Limit	\$12	\$61	\$10	Limit
Frequency (MHz)	1812	1820	1818	1816	1800	1812	1800	1808	1800
OSM 1 Tx Wd	28.25	28.23	28.19	29.00	19.25	19.33	19.19	20.00	
OPNR 1 Tx Wd	28.23	28.20	28.19	29.00	19.23	19.33	19.13	20.00	
OPNR 2 Tx Wd	29.46	29.50	29.40	29.00	19.46	19.53	19.40	20.00	
OPNR 3 Tx Wd	23.98	24.13	24.00	25.00	19.72	19.87	19.74	20.74	
OPNR 4 Tx Wd	21.90	22.00	21.90	23.00	19.90	19.99	19.98	20.00	
EDGE 1 Tx Wd	23.89	23.64	23.81	24.00	14.59	14.64	14.81	15.00	
EDGE 2 Tx Wd	17.98	18.03	18.04	23.00	15.98	16.03	16.04	19.00	
EDGE 3 Tx Wd	20.78	20.55	20.70	21.00	15.52	16.59	16.44	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				
Band		WCDMA R			Topup	WCDMA T			Topup
TX Channel		\$62	\$60	\$58	Limit	\$12	\$61	\$10	Limit
Frequency (MHz)	5662	5660	5658	5656	5517	5638	5638	5638	5638
OSM 12 Wdop	21.56	21.52	21.46	22.00	19.72	19.74	19.72	21.00	
SOPP Rel 99	RMC 12 2Wdop	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	19.88	20.06	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	21.50
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	20.49	20.65	20.60	22.00
SOPP Rate	HEIPA Subclass 2	19.59	19.60	19.45	19.00	19.46	19.49	19.59	20.00
SOPP Rate	HEIPA Subclass 3	19.08	19.09	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	20.92				
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	21.10				
20	QPSK	50	49	20.88	21.01	20.86				
20	QPSK	100	0	21.01	21.12	21.03				
20	QPSK	100	24	21.06	21.20	21.10				
20	QPSK	100	49	20.84	21.03	20.89				
20	16QAM	1	99	20.96	20.99	20.94				
20	16QAM	50	24	20.82	20.90	20.84				
20	16QAM	50	49	20.76	20.86	20.81				
20	16QAM	100	0	20.92	21.01	20.96				
20	16QAM	100	24	20.87	21.18	21.10				
20	64QAM	1	49	21.01	21.07	21.04				
20	64QAM	50	0	19.87	19.87	19.84				
20	64QAM	50	24	19.79	19.84	19.73				
20	64QAM	50	49	19.76	19.84	19.78				
20	64QAM	100	0	19.82	19.84	19.82				
20	64QAM	100	24	19.76	19.84	19.78				
20	64QAM	100	49	19.76	19.84	19.78				
20	256QAM	1	49	19.05	19.20	17.99				
20	256QAM	1	99	18.02	18.08	18.02				
20	256QAM	1	49	18.07	18.24	18.07				
20	256QAM	50	24	17.86	17.98	17.86				
20	256QAM	50	49	17.86	17.98	17.86				
20	256QAM	100	0	17.87	17.97	17.86				
20	256QAM	100	24	17.87	17.97	17.86				
20	256QAM	100	49	17.87	17.97	17.86				
Channel				1897.5	1892	1902.5	Turn-up (min)	MPR (dB)		
15	QPSK	1	0	21.01	21.18	20.92				
15	QPSK	1	24	20.92	20.96	20.94				
15	QPSK	1	74	20.84	20.98	20.82				
15	QPSK	36	0	20.97	21.06	21.06				
15	QPSK	36	24	20.79	20.93	20.84				
15	QPSK	36	39	20.81	20.92	20.85				
15	QPSK	75	0	20.96	21.04	20.96				
15	QPSK	75	24	20.81	21.04	20.92				
15	16QAM	1	37	20.96	20.93	20.86				
15	16QAM	1	74	20.87	20.96	20.86				
15	16QAM	36	0	20.80	20.98	20.92				
15	16QAM	36	24	20.77	20.87	20.88				
15	16QAM	36	39	20.73	20.83	20.82				
15	16QAM	75	0	20.76	20.90	20.82				
15	16QAM	75	24	20.86	21.07	21.04				
15	16QAM	75	39	20.86	21.07	21.04				
15	64QAM	1	74	20.85	20.90	20.89				
15	64QAM	36	0	19.82	19.89	19.78				
15	64QAM	36	24	19.83	19.88	19.84				
15	64QAM	36	39	19.79	19.83	19.84				
15	64QAM	75	0	19.77	19.86	19.86				
15	64QAM	75	24	19.77	19.86	19.86				
15	64QAM	75	39	19.76	19.86	19.86				
15	256QAM	1	37	18.00	18.18	17.88				
15	256QAM	1	74	17.86	17.89	17.82				
15	256QAM	36	24	17.77	17.87	17.82				
15	256QAM	36	39	17.77	17.87	17.82				
15	256QAM	75	0	17.77	17.86	17.86				
15	256QAM	75	24	17.77	17.86	17.86				
15	256QAM	75	39	17.77	17.86	17.86				
Channel				1895	1890	1905	Turn-up (min)	MPR (dB)		
10	QPSK	1	0	20.97	21.02	20.85				
10	QPSK	1	24	20.97	21.02	20.85				
10	QPSK	1	49	20.79	20.99	20.86				
10	QPSK	1	74	20.80	20.96	20.86				
10	QPSK	25	12	20.86	20.92	20.85				
10	QPSK	25	25	20.82	20.86	20.91				
10	QPSK	50	0	21.03	21.08	20.97				
10	16QAM	1	25	20.88	20.90	20.91				
10	16QAM	1	50	20.88	20.90	20.91				
10	16QAM	25	0	20.84	20.93	20.94				
10	16QAM	25	12	20.77	20.86	20.86				
10	16QAM	25	25	20.76	20.85	20.86				
10	16QAM	50	0	20.81	20.90	20.87				
10	16QAM	50	12	20.80	21.04	21.06				
10	64QAM	1	25	20.87	20.88	20.86				
10	64QAM	1	50	20.88	20.84	20.83				
10	64QAM	25	0	19.83	19.89	19.73				
10	64QAM	25	12	19.82	19.89	19.84				
10	64QAM	25	25	19.82	19.71	19.85				
10	64QAM	50	0	19.85	19.86	19.85				
10	64QAM	50	12	19.82	19.83	19.84				
10	256QAM	1	25	17.99	18.11	17.87				
10	256QAM	1	50	17.94	18.01	17.89				
10	256QAM	25	12	17.78	17.81	17.81				
10	256QAM	25	25	17.81	17.82	17.81				
10	256QAM	50	0	17.78	17.86	17.82				
10	256QAM	50	12	17.78	17.86	17.82				
10	256QAM	50	25	17.78	17.86	17.82				
Channel				1892.5	1890	1917.5	Turn-up (min)	MPR (dB)		
5	QPSK	1	0	21.04	21.17	21.03				
5	QPSK	1	12	21.06	21.03	20.87				
5	QPSK	1	24	20.91	21.07	20.84				
5	QPSK	12	0	20.94	21.03	20.90				
5	QPSK	12	12	20.84	21.03	20.86				
5	QPSK	12	18	20.94	20.87	20.86				
5	QPSK	25	0	21.04	21.17	21.04				
5	16QAM	1	12	20.93	21.10	20.81				
5	16QAM	1	24	20.85	20.98	20.81				
5	16QAM	12	0	20.96	21.16	21.03				
5	16QAM	12	12	20.87	20.91	20.83				
5	16QAM	12	18	20.86	21.01	20.83				
5	16QAM	25	0	20.91	21.13	20.83				
5	16QAM	25	12	20.99	21.06	20.87				
5	16QAM	25	18	20.97	20.96	20.84				
5	16QAM	50	0	20.97	21.09	20.84				
5	16QAM	50	12	20.82	20.93	20.84				
5	16QAM	50	18	20.82	20.93	20.84				
5	16QAM	75	0	19.82	19.89	19.67				
5	16QAM	75	12	19.79	19.82	19.78				
5	16QAM	75	18	19.74	19.73	19.67				
5	16QAM	100	0	19.76	19.84	19.62				
5	16QAM	100	12	19.80	19.88	19.61				
5	16QAM	100	18	19.78	19.81	19.64				
5	256QAM	1	25	17.89	18.18	18.04				
5	256QAM	1	50	17.94	17.91	17.80				
5	256QAM	12	12	17.83	17.83	17.83				
5	256QAM	12	18	17.87	17.84	17.82				
5	256QAM	25	12	17.78	17.80	17.82				
5	256QAM	25	18	17.80	17.86	17.80				
5	256QAM	50	0	17.78	17.86	17.82				
5	256QAM	50	12	17.78	17.86	17.82				
5	256QAM	50	18	17.78	17.86	17.82				
Channel				1897.5	1897.5	1907.5	Turn-up (min)	MPR (dB)		
3	QPSK	1	0	21.04	21.17	21.03				
3	QPSK	1	8	20.87	21.01	20.86				
3	QPSK	1	14	20.90	21.06	20.81				
3	QPSK	1	20	20.95	21.06	20.91				
3	QPSK	8	0	20.96	21.02	20.87				
3	QPSK	8	7	20.84	20.85	20.83				



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	22.40				
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	22.52	22.24			24	0
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			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	22.53	22.38				
10	16QAM	50	0	22.40	22.53	22.38				
10	8QAM	1	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	21.36	21.04				
10	8QAM	50	0	21.25	21.30	21.19				
10	256QAM	1	0	19.52	19.60	19.46				
10	256QAM	1	25	19.35	19.58	19.51			21	3
10	256QAM	1	49	19.34	19.36	19.43				
10	256QAM	25	0	19.34	19.36	19.44				
10	256QAM	25	12	19.34	19.29	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	25	22.30	22.43	22.29			24	0
5	QPSK	1	49	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	22.42	22.47	22.52				
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	49	22.05	22.32	22.21				
5	8QAM	12	0	21.28	21.27	21.25				
5	8QAM	12	7	21.11	21.26	21.17			22.5	1.5
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			21	3
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	28	22.32	22.48	22.07				
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	22.27				
3	16QAM	1	0	22.26	22.39	22.46				
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	22.35	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	20.99				
3	8QAM	15	0	21.19	21.24	21.12				
3	256QAM	1	0	19.29	19.45	19.41				
3	256QAM	1	8	19.27	19.51	19.37			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	19.25	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			24	0
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			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	6	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				
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	0	22.16	22.32	22.22				
1.4	8QAM	3	3	22.15	22.29	22.21			22.5	1.5
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			21	3
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			21	3
1.4	256QAM	3	3	19.08	19.20	19.14				
1.4	256QAM	6	0	19.17	19.25	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 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	22.40	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		</		





Band 25 DS15_SimultaneousAnt 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power Hsp./F.Freq.	Power Hsp./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	QPSK	100	99	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	50	99	21.15	21.15	21.15				
20	64QAM	1	0	21.05	21.09	20.93				
20	64QAM	1	49	21.01	21.14	21.05			22.7	0
20	64QAM	1	99	21.07	21.07	21.08				
20	64QAM	50	0	21.03	21.17	21.09				
20	64QAM	50	24	21.16	21.12	21.06			22.7	0
20	64QAM	50	99	21.08	21.15	21.15				
20	256QAM	1	0	19.98	19.98	19.92			21	1.7
20	256QAM	1	99	19.89	19.83	19.97				
20	256QAM	50	0	19.98	19.98	19.92				
20	256QAM	50	24	19.95	19.99	19.97			21	1.7
20	256QAM	50	99	19.82	19.84	19.87				
20	256QAM	100	0	19.15	19.15	19.15				
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.18	21.25	21.12				
10	QPSK	1	49	21.10	21.10	21.11			22.7	0
10	QPSK	1	99	21.05	21.09	21.07				
10	QPSK	36	0	21.08	21.12	21.11				
10	QPSK	36	49	21.13	21.13	21.01			22.7	0
10	QPSK	36	99	21.07	21.15	21.09				
10	QPSK	75	0	21.01	21.08	21.09				
10	QPSK	75	49	20.97	21.06	20.99			22.7	0
10	16QAM	1	37	21.01	21.08	21.06				
10	16QAM	1	74	21.04	21.04	21.04			22.7	0
10	16QAM	36	0	21.08	21.13	20.98				
10	16QAM	36	20	20.98	21.03	21.03			22.7	0
10	16QAM	36	99	21.05	21.10	21.10				
10	64QAM	1	0	20.90	21.04	20.94			22.7	0
10	64QAM	1	49	21.01	21.02	21.01				
10	64QAM	1	99	20.96	21.02	21.01				
10	64QAM	36	0	20.83	21.12	21.01			22.7	0
10	64QAM	36	49	20.97	21.05	21.04				
10	64QAM	36	99	20.93	21.05	21.04				
10	64QAM	75	0	21.01	21.08	20.97			22.7	0
10	256QAM	1	37	19.91	20.10	19.98			21	1.7
10	256QAM	1	74	19.77	19.78	19.91				
10	256QAM	36	0	19.87	19.87	19.87				
10	256QAM	36	20	19.81	19.92	19.97			21	1.7
10	256QAM	36	99	19.72	19.92	19.75				
10	256QAM	75	0	19.83	19.83	19.78				
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.15	21.15	21.15				
5	QPSK	1	25	21.16	21.18	21.08			22.7	0
5	QPSK	1	49	20.99	21.20	21.16				
5	QPSK	12	0	21.08	21.08	21.08				
5	QPSK	12	7	21.06	21.14	21.04			22.7	0
5	QPSK	12	25	21.02	21.13	21.06				
5	16QAM	1	0	20.98	21.00	20.91				
5	16QAM	1	25	21.07	21.07	21.07			22.7	0
5	16QAM	12	0	21.09	21.08	21.11				
5	16QAM	12	7	21.05	21.04	21.04			22.7	0
5	16QAM	12	25	21.02	21.10	21.11				
5	64QAM	1	0	20.99	21.03	20.99			22.7	0
5	64QAM	1	49	20.93	21.02	20.99				
5	64QAM	12	0	20.98	21.00	20.97				
5	64QAM	12	7	21.03	21.10	21.10			22.7	0
5	64QAM	12	25	21.03	21.10	21.10				
5	256QAM	1	25	19.92	20.07	19.91			21	1.7
5	256QAM	1	49	19.82	19.82	19.86				
5	256QAM	12	0	19.86	19.86	19.88				
5	256QAM	12	7	19.78	19.87	19.88			20	3
5	256QAM	12	25	19.77	19.83	19.76				
5	256QAM	25	0	19.83	19.83	19.87				
Channel										
Frequency (MHz)										
3	QPSK	1	0	21.13	21.13	21.13				
3	QPSK	1	8	21.13	21.11	21.06			22.7	0
3	QPSK	1	14	21.04	21.04	21.04				
3	QPSK	3	0	21.04	21.06	21.06				
3	QPSK	3	8	21.03	21.07	21.06			22.7	0
3	QPSK	3	14	21.03	21.00	21.02				
3	16QAM	1	0	21.06	21.04	20.93				
3	16QAM	1	12	21.01	21.12	21.15			22.7	0
3	16QAM	1	25	21.03	21.10	21.10				
3	16QAM	12	0	21.09	21.07	20.93				
3	16QAM	12	7	21.06	21.12	21.03			22.7	0
3	16QAM	12	25	21.00	21.07	21.09				
3	64QAM	1	0	20.92	21.02	20.85				
3	64QAM	1	8	20.96	21.09	20.99			22.7	0
3	64QAM	1	14	20.99	21.09	20.99				
3	64QAM	12	0	20.89	21.11	20.94				
3	64QAM	12	7	21.06	21.09	20.99			22.7	0
3	64QAM	12	25	20.96	21.11	21.11				
3	64QAM	25	0	20.97	21.06	20.99				
3	256QAM	1	8	19.81	20.06	19.88			21	1.7
3	256QAM	1	12	19.85	20.09	19.89				
3	256QAM	12	0	19.76	19.76	19.91				
3	256QAM	12	7	19.78	19.86	19.90			21	1.7
3	256QAM	12	25	19.83	19.89	19.89				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	21.17	21.21	21.07				
1.4	QPSK	1	3	21.11	21.11	21.06			22.7	0
1.4	QPSK	1	5	21.07	21.12	21.04				
1.4	QPSK	3	0	21.09	21.10	20.99				
1.4	QPSK	3	3	21.05	21.10	21.08			22.7	0
1.4	QPSK	3	7	21.03	21.07	20.94				
1.4	QPSK	3	11	21.01	21.10	21.10				
1.4	16QAM	1	0	20.96	21.10	20.94			22.7	0
1.4	16QAM	1	8	20.99	21.16	21.09				
1.4	16QAM	3	0	20.99	21.01	21.00				
1.4	16QAM	3	4	21.08	21.04	21.01			22.7	0
1.4	16QAM	3	11	20.98	21.15	21.07				
1.4	16QAM	15	0	21.04	21.10	21.20				
1.4	64QAM	1	0	20.97	21.00	20.92			22.7	0
1.4	64QAM	1	8	20.99	21.09	20.97				
1.4	64QAM	3	0	21.01	21.07	21.03				
1.4	64QAM	3	7	20.99	21.10	21.03			22.7	0
1.4	64QAM	15	0	20.99	21.09	20.97				
1.4	256QAM	1	0	19.84	20.06	19.89			21	1.7
1.4	256QAM	1	8	19.81	20.11	19.88				
1.4	256QAM	3	0	19.84	19.88	19.88				
1.4	256QAM	3	8	19.91	20.03	19.89			21	1.7
1.4	256QAM	3	11	19.92	19.89	19.85				
1.4	256QAM	15	0	19.89	20.00	19.77				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	21.17	21.21	21.07				
1.4	QPSK	1	3	21.11	21.10	21.06			22.7	0
1.4	QPSK	1	5	21.07	21.12	21.04				
1.4	QPSK	3	0	21						



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 limit (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.50	18.60	18.70	19.9	0		
20	QPSK	1	49	18.51	18.55	18.31	19.9	0		
20	QPSK	1	99	18.46	18.50	18.46	19.9	0		
20	QPSK	50	0	18.40	18.50	18.52	19.9	0		
20	QPSK	50	24	18.25	18.41	18.33	19.9	0		
20	QPSK	50	49	18.44	18.48	18.44	19.9	0		
20	QPSK	100	0	18.29	18.39	18.38	19.9	0		
20	HQAM	1	0	18.36	18.47	18.32	19.9	0		
20	HQAM	1	49	18.43	18.35	18.32	19.9	0		
20	HQAM	1	99	18.36	18.47	18.23	19.9	0		
20	HQAM	50	0	18.28	18.48	18.40	19.9	0		
20	HQAM	50	24	18.26	18.47	18.21	19.9	0		
20	HQAM	50	49	18.26	18.38	18.20	19.9	0		
20	HQAM	100	0	18.40	18.21	18.26	19.9	0		
20	HQAM	100	0	18.25	18.35	18.35	19.9	0		
20	HQAM	1	49	18.36	18.41	18.48	19.9	0		
20	HQAM	1	99	18.33	18.39	18.37	19.9	0		
20	HQAM	50	0	18.44	18.47	18.35	19.9	0		
20	HQAM	50	24	18.34	18.49	18.20	19.9	0		
20	HQAM	50	49	18.42	18.39	18.20	19.9	0		
20	HQAM	100	0	18.37	18.36	18.24	19.9	0		
20	256QAM	1	0	18.39	18.37	18.41	19.5	0.4		
20	256QAM	1	49	18.32	18.40	18.42	19.5	0.4		
20	256QAM	1	99	18.32	18.55	18.29	19.5	0.4		
20	256QAM	50	0	18.40	18.37	18.29	19.5	0.4		
20	256QAM	50	24	18.48	18.45	18.31	19.5	0.4		
20	256QAM	50	49	18.29	18.36	18.27	19.5	0.4		
20	256QAM	100	0	18.42	18.30	18.17	19.5	0.4		
Channel										
Frequency (MHz)										
15	QPSK	1	0	18.43	18.51	18.30	19.9	0		
15	QPSK	1	37	18.46	18.51	18.20	19.9	0		
15	QPSK	1	74	18.41	18.43	18.36	19.9	0		
15	QPSK	36	0	18.34	18.40	18.30	19.9	0		
15	QPSK	36	20	18.18	18.33	18.20	19.9	0		
15	QPSK	36	39	18.40	18.37	18.20	19.9	0		
15	QPSK	75	0	18.22	18.32	18.38	19.9	0		
15	HQAM	1	0	18.31	18.44	18.23	19.9	0		
15	HQAM	1	37	18.36	18.29	18.20	19.9	0		
15	HQAM	1	74	18.31	18.39	18.17	19.9	0		
15	HQAM	36	0	18.18	18.38	18.34	19.9	0		
15	HQAM	36	20	18.23	18.40	18.21	19.9	0		
15	HQAM	36	39	18.22	18.34	18.16	19.9	0		
15	HQAM	75	0	18.39	18.30	18.20	19.9	0		
15	HQAM	1	37	18.30	18.34	18.39	19.9	0		
15	HQAM	1	74	18.29	18.36	18.22	19.9	0		
15	HQAM	36	0	18.36	18.30	18.20	19.9	0		
15	HQAM	36	20	18.31	18.44	18.19	19.9	0		
15	HQAM	36	39	18.34	18.37	18.20	19.9	0		
15	HQAM	75	0	18.33	18.45	18.14	19.9	0		
15	256QAM	1	0	18.30	18.28	18.40	19.5	0.4		
15	256QAM	1	37	18.36	18.42	18.30	19.5	0.4		
15	256QAM	1	74	18.32	18.40	18.23	19.5	0.4		
15	256QAM	36	0	18.28	18.34	18.20	19.5	0.4		
15	256QAM	36	20	18.43	18.33	18.20	19.5	0.4		
15	256QAM	36	39	18.22	18.33	18.17	19.5	0.4		
15	256QAM	75	0	18.39	18.33	18.15	19.5	0.4		
Channel										
Frequency (MHz)										
10	QPSK	1	0	18.40	18.30	18.20	19.9	0		
10	QPSK	1	25	18.49	18.49	18.28	19.9	0		
10	QPSK	1	49	18.45	18.42	18.41	19.9	0		
10	QPSK	12	0	18.32	18.43	18.30	19.9	0		
10	QPSK	25	12	18.23	18.32	18.28	19.9	0		
10	QPSK	25	25	18.42	18.34	18.22	19.9	0		
10	QPSK	50	0	18.30	18.33	18.20	19.9	0		
10	HQAM	1	0	18.27	18.38	18.20	19.9	0		
10	HQAM	1	25	18.36	18.29	18.15	19.9	0		
10	HQAM	1	49	18.28	18.43	18.15	19.9	0		
10	HQAM	25	0	18.23	18.42	18.38	19.9	0		
10	HQAM	25	12	18.22	18.41	18.27	19.9	0		
10	HQAM	25	25	18.22	18.35	18.18	19.9	0		
10	HQAM	50	0	18.35	18.40	18.32	19.9	0		
10	HQAM	50	12	18.40	18.37	18.20	19.9	0		
10	HQAM	1	25	18.29	18.36	18.41	19.9	0		
10	HQAM	25	0	18.37	18.39	18.20	19.9	0		
10	HQAM	25	12	18.28	18.44	18.10	19.9	0		
10	HQAM	25	25	18.33	18.31	18.14	19.9	0		
10	HQAM	50	0	18.28	18.48	18.20	19.9	0		
10	256QAM	1	0	18.29	18.33	18.40	19.5	0.4		
10	256QAM	1	49	18.28	18.45	18.20	19.5	0.4		
10	256QAM	1	99	18.29	18.33	18.40	19.5	0.4		
10	256QAM	25	0	18.25	18.35	18.31	19.5	0.4		
10	256QAM	25	12	18.45	18.45	18.24	19.5	0.4		
10	256QAM	25	25	18.23	18.25	18.20	19.5	0.4		
10	256QAM	50	0	18.33	18.36	18.17	19.5	0.4		
Channel										
Frequency (MHz)										
5	QPSK	1	0	18.47	18.54	18.38	19.9	0		
5	QPSK	1	12	18.43	18.49	18.20	19.9	0		
5	QPSK	1	24	18.45	18.40	18.39	19.9	0		
5	QPSK	12	0	18.33	18.42	18.27	19.9	0		
5	QPSK	12	7	18.15	18.33	18.20	19.9	0		
5	QPSK	12	13	18.40	18.33	18.20	19.9	0		
5	QPSK	25	0	18.37	18.35	18.20	19.9	0		
5	HQAM	1	0	18.28	18.44	18.26	19.9	0		
5	HQAM	1	12	18.41	18.26	18.19	19.9	0		
5	HQAM	1	24	18.30	18.38	18.16	19.9	0		
5	HQAM	12	0	18.20	18.40	18.31	19.9	0		
5	HQAM	12	7	18.18	18.38	18.16	19.9	0		
5	HQAM	12	13	18.16	18.34	18.16	19.9	0		
5	HQAM	25	0	18.30	18.16	18.32	19.9	0		
5	HQAM	1	0	18.18	18.29	18.37	19.9	0		
5	HQAM	1	12	18.28	18.33	18.44	19.9	0		
5	HQAM	1	24	18.25	18.30	18.20	19.9	0		
5	HQAM	12	0	18.36	18.47	18.15	19.9	0		
5	HQAM	12	13	18.36	18.36	18.21	19.9	0		
5	HQAM	25	0	18.36	18.47	18.15	19.9	0		
5	256QAM	1	0	18.38	18.29	18.44	19.5	0.4		
5	256QAM	1	12	18.25	18.40	18.41	19.5	0.4		
5	256QAM	1	24	18.23	18.46	18.20	19.5	0.4		
5	256QAM	12	0	18.27	18.37	18.20	19.5	0.4		
5	256QAM	12	7	18.39	18.41	18.26	19.5	0.4		
5	256QAM	12	13	18.24	18.30	18.20	19.5	0.4		
5	256QAM	25	0	18.40	18.32	18.15	19.5	0.4		

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 limit (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.50	18.73	18.13	19.9	0		
20	QPSK	1	49	18.48	18.53	18.72	19.9	0		
20	QPSK	1	99	18.46	18.60	18.56	19.9	0		
20	QPSK	50	0	18.38	18.45	18.73	19.9	0		
20	QPSK	50	24	18.24	18.36	18.42	19.9	0		
20	QPSK	50	49	18.44	18.54	18.38	19.9	0		
20	QPSK	100	0	18.30	18.52	18.61	19.9	0		
20	HQAM	1	0	18.38	18.51	18.38	19.9	0		
20	HQAM	1	49	18.38	18.38	18.35	19.9	0		
20	HQAM	1	99	18.23	18.56	18.56	19.9	0		
20	HQAM	50	0	18.21	18.50	18.71	19.9	0		
20	HQAM	50	24	18.45	18.48	18.67	19.9	0		



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	19.99	20.07	20.07		
20	QPSK	1	99	20.00	20.00	20.00	20.07	19.96			
20	QPSK	50	0	19.99	19.99	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	19.99	19.99	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	19.99	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	19.99	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	19.90	19.94	19.96	19.79	19.82			
20	BQAM	1	45	19.97	19.95	19.95	19.81	19.92			
20	BQAM	1	99	19.90	19.93	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	25SQAM	1	0	19.76	19.88	20.16	20.09	19.92			
20	25SQAM	1	45	19.81	19.93	20.24	20.00	19.80			
20	25SQAM	1	99	19.80	19.90	19.97	19.78	19.84			
20	25SQAM	50	0	19.80	19.80	20.02	19.77	19.82			
20	25SQAM	50	24	19.88	19.80	20.14	19.94	19.81			
20	25SQAM	50	49	19.81	19.81	19.85	19.80	19.90			
20	25SQAM	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	19.90	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	19.96	19.81	19.71			
15	HQAM	1	74	19.80	19.85	19.83	19.82	19.86			
15	HQAM	36	0	19.89	20.02	20.14	20.00	19.87			
15	HQAM	36	20	19.82	19.82	20.00	19.98	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	19.76			
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	25SQAM	1	0	19.72	19.80	20.14	20.05	19.88			
15	25SQAM	1	37	19.84	19.73	19.89	19.89	19.71			
15	25SQAM	1	74	19.77	19.85	19.85	19.71	19.78			
15	25SQAM	36	0	19.77	19.87	20.04	19.89	19.84			
15	25SQAM	36	20	19.83	19.70	19.89	19.89	19.72			
15	25SQAM	36	39	19.78	19.88	19.91	19.86	19.87			
15	25SQAM	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	19.90	19.83	20.04	19.86	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	19.99	20.11	19.99	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	19.89	19.86			
10	BQAM	1	25	19.91	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	20.04	19.89	19.80			
10	25SQAM	1	0	19.73	19.92	20.10	20.03	19.85			
10	25SQAM	1	25	19.87	19.70	19.86	19.98	19.70			
10	25SQAM	1	49	19.72	19.87	19.93	19.73	19.81			
10	25SQAM	25	0	19.76	19.81	20.08	19.89	19.91			
10	25SQAM	25	12	19.80	19.75	20.00	19.86	19.70			
10	25SQAM	25	25	19.76	19.81	19.85	19.94	19.83			
10	25SQAM	50	0	19.68	19.86	20.05	19.87	19.80			
Channel											
Frequency (MHz)											
5	QPSK	1	0	20.05	20.10	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	19.91	19.87	19.99	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	19.91	19.74	19.81			
5	BQAM	1	0	19.89	19.74	19.86	20.04	19.68			
5	BQAM	1	12	19.93	19.86	19.89	19.71	19.86			
5	BQAM	1	24	19.76	19.79	19.86	19.96	19.81			
5	BQAM	12	0	19.80	20.08	20.05	19.80	19.70			
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	20.08	19.96	19.82			
5	25SQAM	1	0	19.72	19.82	20.13	20.05	19.84			
5	25SQAM	1	12	19.87	19.69	19.99	19.99	19.72			
5	25SQAM	1	24	19.71	19.81	19.89	19.70	19.80			
5	25SQAM	12	0	19.70	19.78	20.12	19.82	19.74			
5	25SQAM	12	13	19.77	19.85	19.91	19.90	19.81			
5	25SQAM	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/1900 Act	DRG Simulations						
		Band A (MHz)			Band B (MHz)		Band C (MHz)	
TX Channel		812	861	810	Limit	812	861	810
Frequency (MHz)		1912	1961	1910	(MHz)	1912	1961	1910
DRM 1 Tx Wd		20.04	20.01	20.00	30.00	20.04	20.01	20.00
DRM 1 Tx Wd		20.47	20.50	20.45	30.00	20.47	20.50	20.45
DRM 2 Tx Wd		20.76	20.84	20.79	30.00	20.76	20.84	20.79
DRM 3 Tx Wd		20.17	20.22	20.20	30.00	20.17	20.20	20.19
DRM 4 Tx Wd		22.80	22.87	22.80	30.00	22.80	22.87	22.80
EDGE 1 Tx Wd		20.06	20.13	20.09	20.00	18.06	18.13	18.09
EDGE 2 Tx Wd		21.33	21.41	21.39	20.00	17.33	17.41	17.39
EDGE 3 Tx Wd		22.21	22.25	22.22	20.00	17.21	17.25	17.24
EDGE 4 Tx Wd		20.13	20.18	20.08	21.00	17.13	17.18	17.08
		DRG Simulation WCDMA 1900 MHz				DRG Simulation WCDMA 1900 MHz		
Band		WCDMA B			Tuneup	WCDMA IV		
TX Channel		862	909	858	Limit	862	909	858
Frequency (MHz)		1962	1990	1958	(MHz)	1962	1990	1958
SOPP Rel 99		22.00	22.00	22.00	21.00	20.24	20.24	20.24
SOPP Rel 99		22.11	22.22	22.17	21.00	20.34	20.45	20.37
SOPP Rate		21.12	21.24	21.17	22.00	19.30	19.44	19.47
SOPP Rate		21.18	21.21	21.03	22.00	19.33	19.32	19.24
SOPP Rate		20.76	20.80	20.62	21.00	18.61	18.60	18.60
SOPP Rate		20.07	20.03	20.73	21.00	18.81	18.84	18.93
SOPP Rate		21.14	21.22	21.05	22.00	19.34	19.52	19.36
SOPP Rate		21.16	21.18	21.20	22.00	19.32	19.43	19.44
SOPP Rate		20.51	20.60	20.60	21.00	18.81	18.80	18.69
SOPP Rate		20.92	20.71	20.61	21.00	18.71	18.60	18.71
SOPP Rate		21.14	21.38	21.07	22.00	19.44	19.62	19.33
SOPP Rate		20.26	20.28	20.24	20.00	17.55	17.64	17.66
SOPP Rate		20.36	20.11	20.11	21.00	18.49	18.40	18.30
SOPP Rate		19.09	19.37	19.35	20.00	17.27	17.67	17.43
SOPP Rate		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	21.06	21.07	21.12	22.8	0		
20	QPSK	1	99	20.99	21.10	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	21.01				
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	64QAM	1	49	20.98	21.07	20.93	22.8	0		
20	64QAM	1	99	21.04	21.10	21.05				
20	64QAM	50	0	21.00	21.13	20.99				
20	64QAM	50	24	21.00	21.13	20.99	22.8	0		
20	64QAM	50	50	21.02	21.06	21.01				
20	64QAM	100	0	20.92	20.98	20.93				
20	256QAM	1	49	19.51	19.63	19.45	21	1.8		
20	256QAM	1	99	19.38	19.43	19.33				
20	256QAM	50	0	19.34	19.39	19.36				
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	19.33	19.31				
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	39	20.95	20.99	20.97	22.8	0		
15	QPSK	36	75	20.94	21.14	21.01				
15	16QAM	1	37	20.95	21.04	21.07	22.8	0		
15	16QAM	1	74	20.97	20.98	20.85				
15	16QAM	36	0	21.02	20.99	20.86				
15	16QAM	36	39	20.98	20.99	20.87	22.8	0		
15	16QAM	36	75	20.98	20.98	21.02				
15	64QAM	1	0	20.88	20.89	20.83				
15	64QAM	1	37	20.84	20.86	20.82	22.8	0		
15	64QAM	1	74	20.87	21.03	20.81				
15	64QAM	36	0	20.89	21.04	20.99				
15	64QAM	36	39	20.83	20.98	20.82	22.8	0		
15	64QAM	36	75	20.83	20.95	20.87				
15	64QAM	75	0	20.89	20.95	20.87				
15	256QAM	1	37	19.39	19.50	19.40	21	1.8		
15	256QAM	1	74	19.33	19.30	19.26				
15	256QAM	36	0	19.25	19.35	19.28				
15	256QAM	36	39	19.24	19.29	19.20	21	1.8		
15	256QAM	75	0	19.23	19.29	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	20.95	21.03	21.07				
10	QPSK	12	0	21.03	21.06	20.98				
10	QPSK	25	12	20.90	20.92	20.89	22.8	0		
10	QPSK	25	25	20.93	20.98	20.88				
10	16QAM	1	0	20.89	21.00	20.79				
10	16QAM	1	24	20.91	21.00	21.06	22.8	0		
10	16QAM	1	49	20.86	20.98	20.87				
10	16QAM	12	0	20.97	21.01	20.92				
10	16QAM	12	12	20.93	20.98	20.90	22.8	0		
10	16QAM	12	25	20.92	21.05	20.96				
10	16QAM	50	0	20.93	20.92	20.91				
10	256QAM	1	24	19.38	19.45	19.41				
10	256QAM	1	49	19.38	19.57	19.34	21	1.8		
10	256QAM	12	0	19.27	19.31	19.27				
10	256QAM	12	12	19.25	19.45	19.24				
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	19.24	19.20				
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.13	21.20	21.14				
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	22.8	0		
5	QPSK	12	13	20.92	21.03	20.98				
5	QPSK	25	0	20.92	21.08	20.98				
5	16QAM	1	0	20.82	21.00	20.77				
5	16QAM	1	12	20.91	21.01	21.09	22.8	0		
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	64QAM	1	0	20.82	20.93	20.83	22.8	0		
5	64QAM	1	12	20.92	21.01	20.97				
5	64QAM	1	24	20.85	20.94	20.89				
5	64QAM	12	0	20.97	21.06	21.01	22.8	0		
5	64QAM	12	7	20.85	21.02	20.88				
5	64QAM	12	13	20.81	20.95	20.87				
5	64QAM	25	0	20.86	20.98	20.84				
5	64QAM	15	0	20.89	20.98	20.89	22.8	0		
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	19.20				
5	256QAM	25	0	19.13	19.29	19.16				
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	21.09	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	22.8	0		
3	16QAM	8	0	20.96	20.98	20.84				
3	16QAM	8	4	20.92	20.96	20.83				
3	16QAM	15	0	20.90	20.99	20.92				
3	16QAM	15	0	21.00	21.01	20.99	22.8	0		
3	64QAM	1	0	20.77	20.91	20.78				
3	64QAM	1	8	20.84	21.00	20.89	22.8	0		
3	64QAM	1	14	20.82	21.00	20.90				
3	64QAM	8	0	20.95	21.10	20.97				
3	64QAM	8	4	20.90	21.04	20.91	22.8	0		
3	64QAM	8	7	20.93	21.01	20.90				
3	64QAM	15	0	20.89	20.98	20.89				
3	256QAM	1	8	19.37	19.50	19.37	21	1.8		
3	256QAM	1	14	19.27	19.39	19.21				
3	256QAM	8	0	19.29	19.47	19.33				
3	256QAM	8	4	19.19	19.30	19.26	21	1.8		
3	256QAM	8	7	19.27	19.39	19.28				
3	256QAM	15	0	19.36	19.55	19.36				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	21.18	21.18	21.14				
1.4	QPSK	1	3	20.86	21.11	21.05	22.8	0		



Band 25 DS15_Simultaneous Ant 3										
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	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	47	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	21.04				
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	21.05	20.98	22.8	0		
15	64QAM	75	0	21.01	21.02	20.97				
15	256QAM	1	0	19.30	19.31	19.38	21	1.8		
15	256QAM	1	37	19.29	19.29	19.27				
15	256QAM	1	74	19.29	19.28	19.28				
15	256QAM	36	20	19.32	19.31	19.19	21	1.8		
15	256QAM	36	36	19.24	19.25	19.16				
15	256QAM	75	0	19.24	19.25	19.16				
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.06	21.06	21.06				
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	21.04				
10	16QAM	50	0	21.14	21.10	21.10				
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	21.00	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	21.08	21.08	21.11				
5	16QAM	1	0	21.02	21.03	20.91	22.8	0		
5	16QAM	1	12	21.00	21.06	21.05				
5	16QAM	12	0	20.98	21.12	21.01	22.8	0		
5	16QAM	12	7	21.03	21.10	21.06				
5	16QAM	25	0	21.07	21.08	21.19				
5	64QAM	1	0	20.89	20.96	20.91				
5	64QAM	1	0	20.98	21.14	20.99	22.8	0		
5	64QAM	1	24	20.96	20.98	20.99				
5	64QAM	12	0	21.00	21.08	21.10	22.8	0		
5	64QAM	12	7	20.97	21.07	21.02				
5	64QAM	12	13	21.00	21.10	21.00				
5	64QAM	25	0	21.08	20.96	20.97				
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	21.15	21.15				
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	21.04	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	21.12	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	21.02				
3	64QAM	8	4	20.98	21.09	21.01	22.8	0		
3	64QAM	8	7	20.98	21.11	20.92				
3	16QAM	15	0	20.98	20.98	20.96				
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	8	4</							



### 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)								
20	QPSK	1	0	21.90	22.04	21.77	23	0
20	QPSK	1	49	21.82	21.88	21.73	23	0
20	QPSK	50	24	21.75	21.82	21.75	23	0
20	QPSK	50	24	21.71	21.78	21.72	23	0
20	QPSK	100	0	21.66	21.74	21.73	23	0
20	16QAM	1	0	21.76	21.85	21.88	23	0
20	16QAM	1	49	21.66	21.68	21.82	23	0
20	16QAM	1	99	21.65	21.81	21.87	23	0
20	16QAM	50	0	21.85	21.96	21.70	23	0
20	16QAM	50	24	21.74	21.90	21.70	23	0
20	16QAM	50	50	21.66	21.74	21.68	23	0
20	16QAM	100	0	21.67	21.81	21.85	23	0
20	16QAM	100	0	21.65	21.73	21.65	23	0
20	16QAM	1	49	21.66	21.82	21.52	23	0
20	16QAM	1	99	21.76	21.80	21.65	23	0
20	16QAM	50	0	21.80	21.91	21.90	22.5	0.5
20	16QAM	50	24	21.82	21.90	21.80	22.5	0.5
20	16QAM	50	50	21.72	21.86	21.78	22.5	0.5
20	16QAM	100	0	21.87	21.91	21.91	22.5	0.5
20	256QAM	1	0	19.81	20.02	19.87	20.5	2.5
20	256QAM	1	49	19.82	20.02	19.85	20.5	2.5
20	256QAM	1	99	19.80	19.77	19.75	20.5	2.5
20	256QAM	50	0	19.85	19.85	19.85	20.5	2.5
20	256QAM	50	24	19.85	19.85	19.81	20.5	2.5
20	256QAM	50	50	19.82	19.85	19.77	20.5	2.5
20	256QAM	100	0	19.81	19.83	19.88	20.5	2.5
Channel								
Frequency (MHz)								
15	QPSK	1	0	21.72	21.95	21.72	23	0
15	QPSK	1	37	21.74	21.84	21.84	23	0
15	QPSK	1	74	21.68	21.76	21.80	23	0
15	QPSK	36	0	21.67	21.79	21.81	23	0
15	QPSK	36	20	21.81	21.74	21.65	23	0
15	QPSK	36	39	21.81	21.84	21.89	23	0
15	QPSK	75	0	21.68	21.84	21.89	23	0
15	16QAM	1	0	21.69	21.83	21.72	23	0
15	16QAM	1	37	21.69	21.82	21.86	23	0
15	16QAM	1	74	21.58	21.77	21.59	23	0
15	16QAM	36	0	21.79	21.86	21.68	23	0
15	16QAM	36	20	21.82	21.86	21.82	23	0
15	16QAM	36	39	21.83	21.87	21.86	23	0
15	16QAM	75	0	21.82	21.78	21.53	23	0
15	16QAM	75	0	21.82	21.86	21.82	23	0
15	16QAM	1	37	21.52	21.58	21.44	23	0
15	16QAM	74	0	21.52	21.89	21.81	23	0
15	16QAM	36	0	21.75	21.87	21.84	22.5	0.5
15	16QAM	36	20	21.87	21.81	21.87	22.5	0.5
15	16QAM	36	39	21.84	21.71	21.78	22.5	0.5
15	16QAM	75	0	21.83	21.95	21.70	20.5	2.5
15	256QAM	1	0	19.75	19.85	19.75	20.5	2.5
15	256QAM	1	37	19.80	19.90	19.74	20.5	2.5
15	256QAM	1	74	19.80	19.83	19.88	20.5	2.5
15	256QAM	36	0	19.80	19.99	19.76	20.5	2.5
15	256QAM	36	20	19.82	19.73	19.78	20.5	2.5
15	256QAM	36	39	19.77	19.77	19.68	20.5	2.5
15	256QAM	75	0	19.80	20.00	19.80	20.5	2.5
Channel								
Frequency (MHz)								
10	QPSK	1	0	21.81	21.99	21.81	23	0
10	QPSK	1	25	21.75	21.96	21.83	23	0
10	QPSK	1	49	21.73	21.72	21.81	23	0
10	QPSK	25	0	21.72	21.82	21.82	23	0
10	QPSK	25	12	21.66	21.76	21.87	23	0
10	QPSK	25	25	21.83	21.87	21.59	23	0
10	16QAM	1	0	21.71	21.79	21.76	23	0
10	16QAM	1	25	21.66	21.87	21.66	23	0
10	16QAM	1	49	21.60	21.74	21.64	23	0
10	16QAM	25	0	21.77	21.84	21.67	23	0
10	16QAM	25	12	21.87	21.84	21.64	23	0
10	16QAM	25	25	21.81	21.87	21.64	23	0
10	16QAM	50	0	21.84	21.78	21.53	23	0
10	16QAM	50	0	21.68	21.87	21.66	23	0
10	16QAM	1	25	21.82	21.82	21.45	23	0
10	16QAM	1	49	21.53	21.84	21.56	23	0
10	16QAM	25	0	21.70	21.81	21.85	23	0
10	16QAM	25	12	21.78	21.81	21.87	22.5	0.5
10	16QAM	25	25	21.84	21.75	21.84	22.5	0.5
10	16QAM	50	0	21.86	21.81	21.88	22.5	0.5
10	16QAM	50	0	19.73	19.91	19.75	20.5	2.5
10	256QAM	1	0	19.74	19.88	19.72	20.5	2.5
10	256QAM	1	49	19.87	19.84	19.70	20.5	2.5
10	256QAM	25	0	19.78	19.85	19.73	20.5	2.5
10	256QAM	25	12	19.86	19.70	19.84	20.5	2.5
10	256QAM	25	25	19.75	19.81	19.80	20.5	2.5
10	256QAM	50	0	19.84	20.05	19.88	20.5	2.5
Channel								
Frequency (MHz)								
5	QPSK	1	0	21.83	21.95	21.74	23	0
5	QPSK	1	19	21.78	21.87	21.84	23	0
5	QPSK	1	24	21.72	21.73	21.88	23	0
5	QPSK	12	0	21.89	21.82	21.80	23	0
5	QPSK	12	7	21.68	21.70	21.84	23	0
5	QPSK	12	19	21.83	21.84	21.87	23	0
5	QPSK	25	0	21.82	21.84	21.87	23	0
5	16QAM	1	0	21.73	21.81	21.70	23	0
5	16QAM	1	12	21.81	21.81	21.58	23	0
5	16QAM	1	24	21.60	21.74	21.60	23	0
5	16QAM	12	0	21.81	21.87	21.83	23	0
5	16QAM	12	7	21.69	21.90	21.68	23	0
5	16QAM	12	19	21.56	21.89	21.82	23	0
5	16QAM	25	0	21.82	21.73	21.85	23	0
5	16QAM	1	0	21.89	21.86	21.82	23	0
5	16QAM	1	12	21.47	21.87	21.46	23	0
5	16QAM	1	24	21.84	21.85	21.58	23	0
5	16QAM	12	0	21.71	21.81	21.78	22.5	0.5
5	16QAM	12	7	21.71	21.80	21.80	22.5	0.5
5	16QAM	12	19	21.59	21.78	21.73	22.5	0.5
5	16QAM	25	0	21.76	21.90	21.78	22.5	0.5
5	16QAM	1	0	19.87	19.99	19.81	20.5	2.5
5	256QAM	1	12	19.88	19.93	19.77	20.5	2.5
5	256QAM	1	24	19.89	19.87	19.82	20.5	2.5
5	256QAM	12	0	19.75	19.78	19.84	20.5	2.5
5	256QAM	12	19	19.78	19.76	19.70	20.5	2.5
5	256QAM	25	0	19.88	20.05	19.88	20.5	2.5

### 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)								
20	QPSK	1	0	22.01	21.95	21.93	23	0
20	QPSK	1	49	21.87	21.88	22.05	23	0
20	QPSK	50	24	21.77	21.88	21.97	23	0
20	QPSK	50	24	21.80	21.80	21.81	23	0
20	QPSK	100	0	21.79	21.69	21.87	23	0
20	16QAM	1	0	21.81	21.83	21.82	23	0
20	16QAM	1	49	21.84	21.74	21.89	23	0
20	16QAM	1	99	21.80	21.70	21.89	23	0
20	16QAM	50	0	21.87	21.81	21.81	23	0
20	16QAM	50	24	21.80	21.80	21.85	23	0
20	16QAM	50	50	21.89	21.41	21.48	23	1
20	16QAM	100	0	21.88	21.80	21.82	23	0
20	16QAM	100	0	21.83	21.55	21.65	23	1
20	16QAM	1	49	21.50	21.80	21.87	23	1
20	16QAM	1	99	21.44	21.82	21.86	23	1
20	16QAM	50	0	20.84	20.70	20.85	21	2
20	16QAM	50	24	20.58	20.60	20.76	21	2
20	16QAM	50	50	20.84	20.60	20.71	21	2
20	16QAM	100	0	20.87	20.71	20.81	21	2
20	256QAM	1	0	18.42	18.31	18.52	19	4
20	256QAM	1	49	18.38	18.35	18.52	19	4
20	256QAM	1	99	18.22	18.31	18.38	19	4
20	256QAM	50	0	18.41	18.42	18.50	19	4
20	256QAM	50	24	18.41	18.48	18.51	19	



Band 41 PC2 FCC&IC DSI5_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	23.24	23.24	24.6	0
20	16QAM	50	50	22.92	22.97	23.08	22.80	22.84	22.84	24.6	0
20	16QAM	100	0	22.91	22.95	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	23.38	23.22	23.07	23.07	24.6	0
20	16QAM	100	99	23.02	23.14	23.12	23.21	23.21	23.21	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	23.09	23.09	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	22.22	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	22.20	22.19	22.30	22.18	22.09	22.09	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	22.99	22.99	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	23.20	23.09	23.09	24.6	0
15	16QAM	36	50	22.78	22.88	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	23.26	23.25	23.21	23.10	23.10	24.6	0
15	16QAM	36	50	23.02	23.02	23.08	23.08	23.08	23.08	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	22.09	22.09	23	1.6
15	256QAM	1	74	22.00	22.09	22.18	22.18	22.09	22.09	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	21.95	22.08	22.05	21.95	21.95	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	23.11	23.20	23.11	23.11	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	22.87	22.87	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	23.06	23.06	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	23.00	22.97	22.97	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	22.87	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	23.00	23.14	22.82	22.82	24.6	0
5	16QAM	12	0	23.25	23.34	23.3					





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)	69.2	69.4	69.8	(dBm)	69.2	69.4	69.8	(dBm)												
OPRR-1 Tx (dB)	32.90	32.97	32.94	33.50	23.90	23.97	23.94	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)	26.91	26.95	26.86	30.00	24.85	24.72	24.80	30.74												
OPRR-4 Tx (W)	25.41	25.41	25.40	27.50	23.41	23.41	23.40	24.50												
EDGE-1 Tx (W)	25.40	25.40	25.37	26.50	19.42	19.46	19.37	17.50												
EDGE-2 Tx (W)	23.77	23.80	23.79	26.00	17.77	17.80	17.79	19.50												
EDGE-3 Tx (W)	22.88	22.89	22.82	23.50	18.40	18.43	18.38	19.24												
EDGE-4 Tx (W)	20.50	20.60	20.60	21.00	17.50	17.60	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	102.8	103.3	(dBm)	102.2	102.8	103.3	(dBm)												
OPRR-1 Tx (dB)	27.61	27.68	27.67	28.50	18.61	18.68	18.67	19.50												
OPRR-1 Tx (W)	27.54	27.61	27.58	28.50	18.54	18.61	18.58	19.50												
OPRR-2 Tx (W)	24.94	24.94	24.93	26.00	18.94	18.94	18.93	26.00												
OPRR-3 Tx (W)	23.53	23.50	23.53	24.50	19.07	19.11	19.07	20.54												
OPRR-4 Tx (W)	20.70	20.70	20.68	21.50	17.70	17.75	17.69	19.50												
EDGE-1 Tx (W)	22.39	22.67	22.73	23.50	19.79	19.87	19.73	14.50												
EDGE-2 Tx (W)	21.00	21.10	21.11	22.00	18.00	18.10	18.11	18.50												
EDGE-3 Tx (W)	20.07	20.12	20.04	21.00	15.91	15.98	15.76	16.74												
EDGE-4 Tx (W)	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													
TX Channel	902	960	938	Limit	1312	1413	1513	Limit	4152	4182	4233	Limit								
SA Channel	902	960	938	(dB)	1312	1413	1513	(dB)	4152	4182	4233	(dB)								
Frequency (MHz)	1824.4	1890	1907.6	(MHz)	1718.4	1724.8	1729.8	(MHz)	836.4	836.4	846.6	(MHz)								
ISPP Ref #	20.62	20.62	20.62	22.00	20.45	20.51	20.41	22.00	22.45	22.52	22.45	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 #	19.08	19.71	19.65	21.00	19.50	19.58	19.52	21.00	21.66	21.60	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	18.90	19.18	19.03	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	23.50								
ISPP Ref #	19.08	19.12	19.05	20.50	18.92	19.03	18.89	20.50	20.95	20.93	20.92	22.00								
ISPP Ref #	19.02	19.15	19.12	20.50	18.90	19.00	19.01	20.50	20.89	21.00	21.03	22.50								
ISPP Ref #	19.46	19.71	19.70	21.00	19.55	19.63	19.61	21.00	21.63	21.68	21.67	23.00								
ISPP Ref #	17.71	17.70	17.64	19.00	17.64	17.60	17.61	19.00	19.67	19.63	19.56	21.00								
ISPP Ref #	18.66	18.71	18.70	20.00	18.52	18.58	18.56	20.00	20.50	20.50	20.51	22.00								
ISPP Ref #	17.81	17.80	17.87	19.00	17.44	17.51	17.48	19.00	19.40	19.52	19.40	21.00								
ISPP Ref #	19.94	19.90	19.82	21.00	19.83	19.48	19.38	21.00	21.59	21.44	21.40	23.00								



Band 2 Airtel										
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)										
20	QPSK	1	0	23.11	23.16	23.07				
20	QPSK	1	49	22.83	22.88	22.79	24	0		
20	QPSK	1	99	22.96	23.01	22.92				
20	QPSK	50	0	22.98	23.03	22.94				
20	QPSK	50	24	22.98	23.03	22.94				
20	QPSK	50	49	22.98	23.03	22.94				
20	QPSK	100	0	22.98	23.03	22.94				
20	QPSK	100	24	22.98	23.03	22.94				
20	QPSK	100	49	22.98	23.03	22.94				
20	QPSK	150	0	22.98	23.03	22.94				
20	QPSK	150	24	22.98	23.03	22.94				
20	QPSK	150	49	22.98	23.03	22.94				
20	QPSK	200	0	22.98	23.03	22.94				
20	QPSK	200	24	22.98	23.03	22.94				
20	QPSK	200	49	22.98	23.03	22.94				
20	QPSK	250	0	22.98	23.03	22.94				
20	QPSK	250	24	22.98	23.03	22.94				
20	QPSK	250	49	22.98	23.03	22.94				
20	QPSK	300	0	22.98	23.03	22.94				
20	QPSK	300	24	22.98	23.03	22.94				
20	QPSK	300	49	22.98	23.03	22.94				
20	QPSK	350	0	22.98	23.03	22.94				
20	QPSK	350	24	22.98	23.03	22.94				
20	QPSK	350	49	22.98	23.03	22.94				
20	QPSK	400	0	22.98	23.03	22.94				
20	QPSK	400	24	22.98	23.03	22.94				
20	QPSK	400	49	22.98	23.03	22.94				
20	QPSK	450	0	22.98	23.03	22.94				
20	QPSK	450	24	22.98	23.03	22.94				
20	QPSK	450	49	22.98	23.03	22.94				
20	QPSK	500	0	22.98	23.03	22.94				
20	QPSK	500	24	22.98	23.03	22.94				
20	QPSK	500	49	22.98	23.03	22.94				
20	QPSK	550	0	22.98	23.03	22.94				
20	QPSK	550	24	22.98	23.03	22.94				
20	QPSK	550	49	22.98	23.03	22.94				
20	QPSK	600	0	22.98	23.03	22.94				
20	QPSK	600	24	22.98	23.03	22.94				
20	QPSK	600	49	22.98	23.03	22.94				
20	QPSK	650	0	22.98	23.03	22.94				
20	QPSK	650	24	22.98	23.03	22.94				
20	QPSK	650	49	22.98	23.03	22.94				
20	QPSK	700	0	22.98	23.03	22.94				
20	QPSK	700	24	22.98	23.03	22.94				
20	QPSK	700	49	22.98	23.03	22.94				
20	QPSK	750	0	22.98	23.03	22.94				
20	QPSK	750	24	22.98	23.03	22.94				
20	QPSK	750	49	22.98	23.03	22.94				
20	QPSK	800	0	22.98	23.03	22.94				
20	QPSK	800	24	22.98	23.03	22.94				
20	QPSK	800	49	22.98	23.03	22.94				
20	QPSK	850	0	22.98	23.03	22.94				
20	QPSK	850	24	22.98	23.03	22.94				
20	QPSK	850	49	22.98	23.03	22.94				
20	QPSK	900	0	22.98	23.03	22.94				
20	QPSK	900	24	22.98	23.03	22.94				
20	QPSK	900	49	22.98	23.03	22.94				
20	QPSK	950	0	22.98	23.03	22.94				
20	QPSK	950	24	22.98	23.03	22.94				
20	QPSK	950	49	22.98	23.03	22.94				
20	QPSK	1000	0	22.98	23.03	22.94				
20	QPSK	1000	24	22.98	23.03	22.94				
20	QPSK	1000	49	22.98	23.03	22.94				
20	QPSK	1050	0	22.98	23.03	22.94				
20	QPSK	1050	24	22.98	23.03	22.94				
20	QPSK	1050	49	22.98	23.03	22.94				
20	QPSK	1100	0	22.98	23.03	22.94				
20	QPSK	1100	24	22.98	23.03	22.94				
20	QPSK	1100	49	22.98	23.03	22.94				
20	QPSK	1150	0	22.98	23.03	22.94				
20	QPSK	1150	24	22.98	23.03	22.94				
20	QPSK	1150	49	22.98	23.03	22.94				
20	QPSK	1200	0	22.98	23.03	22.94				
20	QPSK	1200	24	22.98	23.03	22.94				
20	QPSK	1200	49	22.98	23.03	22.94				
20	QPSK	1250	0	22.98	23.03	22.94				
20	QPSK	1250	24	22.98	23.03	22.94				
20	QPSK	1250	49	22.98	23.03	22.94				
20	QPSK	1300	0	22.98	23.03	22.94				
20	QPSK	1300	24	22.98	23.03	22.94				
20	QPSK	1300	49	22.98	23.03	22.94				
20	QPSK	1350	0	22.98	23.03	22.94				
20	QPSK	1350	24	22.98	23.03	22.94				
20	QPSK	1350	49	22.98	23.03	22.94				
20	QPSK	1400	0	22.98	23.03	22.94				
20	QPSK	1400	24	22.98	23.03	22.94				
20	QPSK	1400	49	22.98	23.03	22.94				
20	QPSK	1450	0	22.98	23.03	22.94				
20	QPSK	1450	24	22.98	23.03	22.94				
20	QPSK	1450	49	22.98	23.03	22.94				
20	QPSK	1500	0	22.98	23.03	22.94				
20	QPSK	1500	24	22.98	23.03	22.94				
20	QPSK	1500	49	22.98	23.03	22.94				
20	QPSK	1550	0	22.98	23.03	22.94				
20	QPSK	1550	24	22.98	23.03	22.94				
20	QPSK	1550	49	22.98	23.03	22.94				
20	QPSK	1600	0	22.98	23.03	22.94				
20	QPSK	1600	24	22.98	23.03	22.94				
20	QPSK	1600	49	22.98	23.03	22.94				
20	QPSK	1650	0	22.98	23.03	22.94				
20	QPSK	1650	24	22.98	23.03	22.94				
20	QPSK	1650	49	22.98	23.03	22.94				
20	QPSK	1700	0	22.98	23.03	22.94				
20	QPSK	1700	24	22.98	23.03	22.94				
20	QPSK	1700	49	22.98	23.03	22.94				
20	QPSK	1750	0	22.98	23.03	22.94				
20	QPSK	1750	24	22.98	23.03	22.94				
20	QPSK	1750	49	22.98	23.03	22.94				
20	QPSK	1800	0	22.98	23.03	22.94				
20	QPSK	1800	24	22.98	23.03	22.94				
20	QPSK	1800	49	22.98	23.03	22.94				
20	QPSK	1850	0	22.98	23.03	22.94				
20	QPSK	1850	24	22.98	23.03	22.94				
20	QPSK	1850	49	22.98	23.03	22.94				
20	QPSK	1900	0	22.98	23.03	22.94				
20	QPSK	1900	24	22.98	23.03	22.94				
20	QPSK	1900	49	22.98	23.03	22.94				
20	QPSK	1950	0	22.98	23.03	22.94				
20	QPSK	1950	24	22.98	23.03	22.94				
20	QPSK	1950	49	22.98	23.03	22.94				
20	QPSK	2000	0	22.98	23.03	22.94				
20	QPSK	2000	24	22.98	23.03	22.94				
20	QPSK	2000	49	22.98	23.03	22.94				
20	QPSK	2050	0	22.98	23.03	22.94				
20	QPSK	2050	24	22.98	23.03	22.94				
20	QPSK	2050	49	22.98	23.03	22.94				
20	QPSK	2100	0	22.98	23.03	22.94				
20	QPSK	2100	24	22.98	23.03	22.94				
20	QPSK	2100	49	22.98	23.03	22.94				



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)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.84	22.92	22.79				
10	QPSK	1	25	22.86	22.88	22.84	24	0		
10	QPSK	1	49	22.88	22.82	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	HQAM	1	25	22.84	22.82	22.88	24	0		
10	HQAM	1	49	22.84	22.85	22.86				
10	HQAM	5	0	22.85	22.81	22.81				
10	HQAM	25	12	22.83	22.82	22.88	23.5	0.5		
10	HQAM	25	25	22.80	22.79	22.88				
10	HQAM	50	0	22.87	22.87	22.82				
10	HQAM	1	0	22.26	22.41	22.29	23.5	0.5		
10	HQAM	1	25	22.14	22.25	22.19				
10	HQAM	1	49	22.10	22.22	22.15				
10	HQAM	25	0	21.84	21.87	21.80				
10	HQAM	25	12	21.84	21.88	21.81	22.5	1.5		
10	HQAM	25	25	21.86	21.79	21.84				
10	HQAM	50	0	21.43	21.54	21.41				
10	25SSBAM	1	25	19.33	19.40	19.35	20.5	3.5		
10	25SSBAM	1	49	19.30	19.33	19.28				
10	25SSBAM	5	0	19.36	19.35	19.40				
10	25SSBAM	25	12	19.29	19.34	19.30	20.5	3.5		
10	25SSBAM	25	25	19.20	19.33	19.22				
10	25SSBAM	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	22.82	22.80	24	0		
5	QPSK	1	24	22.47	22.54	22.47				
5	QPSK	12	0	22.80	22.75	22.88				
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	HQAM	1	12	22.50	22.48	22.47	24	0		
5	HQAM	1	25	22.50	22.49	22.48				
5	HQAM	12	0	22.80	22.47	22.88				
5	HQAM	12	7	22.28	22.33	22.19	23.5	0.5		
5	HQAM	12	13	22.36	22.34	22.31				
5	HQAM	25	0	22.31	22.34	22.19				
5	HQAM	1	0	22.15	22.30	22.22	23.5	0.5		
5	HQAM	1	24	22.07	22.29	22.27				
5	HQAM	1	24	21.98	22.07	22.07				
5	HQAM	12	0	21.48	21.83	21.41				
5	HQAM	12	7	21.63	21.68	21.70				
5	HQAM	12	13	21.29	21.32	21.33	22.5	1.5		
5	HQAM	25	0	21.33	21.48	21.34				
5	25SSBAM	1	0	19.36	19.36	19.31				
5	25SSBAM	1	12	19.21	19.31	19.29	20.5	3.5		
5	25SSBAM	1	24	19.17	19.23	19.18				
5	25SSBAM	12	0	19.22	19.27	19.27				
5	25SSBAM	12	7	19.27	19.27	19.27	20.5	3.5		
5	25SSBAM	12	13	19.20	19.21	19.11				
5	25SSBAM	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	22.80	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	22.51	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	HQAM	1	0	22.39	22.39	22.47				
3	HQAM	1	8	22.48	22.48	22.48	24	0		
3	HQAM	8	0	22.46	22.44	22.42				
3	HQAM	8	0	22.26	22.44	22.28				
3	HQAM	8	4	22.23	22.37	22.16	23.5	0.5		
3	HQAM	8	7	22.52	22.32	22.30				
3	HQAM	15	0	22.23	22.35	22.19				
3	HQAM	1	0	22.23	22.28	22.17	23.5	0.5		
3	HQAM	1	8	22.02	22.02	22.08				
3	HQAM	1	14	22.00	22.15	22.04				
3	HQAM	8	0	21.45	21.61	21.40				
3	HQAM	8	4	21.40	21.48	21.37				
3	HQAM	8	7	21.35	21.36	21.33	22.5	1.5		
3	HQAM	15	0	21.37	21.50	21.31				
3	25SSBAM	1	0	19.28	19.41	19.28				
3	25SSBAM	1	8	19.26	19.31	19.24	20.5	3.5		
3	25SSBAM	1	14	19.23	19.30	19.21				
3	25SSBAM	8	0	19.18	19.46	19.23				
3	25SSBAM	8	4	19.18	19.22	19.18	20.5	3.5		
3	25SSBAM	8	7	19.06	19.22	19.07				
3	25SSBAM	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	22.51				
1.4	QPSK	1	5	22.48	22.87	22.53	24	0		
1.4	QPSK	3	0	22.50	22.67	22.67				
1.4	QPSK	3	1	22.54	22.35	22.55				
1.4	QPSK	3	3	22.44	22.54	22.57				
1.4	QPSK	8	0	22.58	22.73	22.66	24	0		
1.4	HQAM	1	0	22.50	22.62	22.65				
1.4	HQAM	1	3	22.49	22.46	22.50				
1.4	HQAM	1	5	22.45	22.46	22.43				
1.4	HQAM	3	0	22.47	22.60	22.66	24	0		
1.4	HQAM	3	1	22.49	22.45	22.47				
1.4	HQAM	3	3	22.37	22.48	22.40				
1.4	HQAM	8	0	22.17	22.30	22.14	23.5	0.5		
1.4	HQAM	1	0	22.33	22.41	22.29				
1.4	HQAM	1	3	22.22	22.40	22.17				
1.4	HQAM	1	5	22.13	22.33	22.18	23.5	0.5		
1.4	HQAM	3	0	22.02	22.21	22.09				
1.4	HQAM	3	1	21.99	22.18	22.05				
1.4	HQAM	3	3	22.22	22.28	22.18				
1.4	HQAM	8	0	21.46	21.60	21.41	22.5	1.5		
1.4	25SSBAM	1	0	19.29	19.47	19.22				
1.4	25SSBAM	1	3	19.21	19.31	19.24	20.5	3.5		
1.4	25SSBAM	1	5	19.22	19.27	19.22				
1.4	25SSBAM	3	0	19.18	19.37	19.24				
1.4	25SSBAM	3	1	19.16	19.21	19.24				
1.4	25SSBAM	3	3	19.15	19.21	19.09	20.5	3.5		
1.4	25SSBAM	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)	MPE (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	22.85			24	0		
10	QPSK	25	25	22.82						
10	QPSK	50	0	22.85						
10	HQAM	1	0	22.89						
10	HQAM	1	25	22.86			24	0		
10	HQAM	1	49	22.79						
10	HQAM	5	0	22.74						
10	HQAM	25	12	22.82			23.5	0.5		
10	HQAM	25	25	22.84						
10	HQAM	50	0	22.70						
10	HQAM	1	0	22.82						
10	HQAM	1	25	22.41			23.5	0.5		
10	HQAM	1	49	22.49						
10	HQAM	25	0	21.91						



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	22.97	23.03	23.03				
20	QPSK	1	99	22.87	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	22.99			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	19.89			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	19.65				
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	22.73	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				
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	19.85	19.63				
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.03	23.09	23.00			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	22.52	22.68	22.65				
10	HQAM	1	49	22.72	22.76	22.71				
10	HQAM	25	0	21.79	21.84	21.68			22.5	1.5
10	HQAM	25	12	21.74	21.76	21.67				
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	1	99	19.65	19.81	19.67			20.5	3.5
10	HQAM	25	12	19.71	19.83	19.68				
10	HQAM	25	25	19.65	19.81	19.60				
10	HQAM	50	0	19.65	19.87	19.63				
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.03	23.07	23.00			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				
5	HQAM	1	0	22.88	23.04	22.88			24	0
5	HQAM	1	12	22.88	22.90	22.87				
5	HQAM	1	24	22.87	22.77	22.73				
5	HQAM	12	0	22.70	22.84	22.73			23.5	0.5
5	HQAM	12	7	22.71	22.70	22.63				
5	HQAM	12	13	22.60	22.60	22.60				
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	21.79	21.68				
5	HQAM	25	0	21.60	21.94	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	19.84	19.64				
5	HQAM	25	0	19.57	19.84	19.54				
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	22.90			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				
3	HQAM	1	0	22.84	23.02	22.85			24	0
3	HQAM	1	8	22.89	22.86	22.87				
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	22.79				
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	21.88	21.62				
3	HQAM	15	0	19.76	19.98	19.83				



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				
20	QPSK	50	50	22.85	22.98	22.92	24	0		
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	22.88				
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	22.90	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	18.78	18.78				
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.08	23.16	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	36	22.78	22.87	22.78				
15	HQAM	1	0	22.82	22.91	22.82				
15	HQAM	1	37	22.88	23.01	22.85				
15	HQAM	1	74	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	22.88	22.64				
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	18.78	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	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	22.83				
10	QPSK	25	12	22.80	23.01	22.85				
10	QPSK	25	25	22.81	22.87	22.86	24	0		
10	HQAM	1	0	22.74	22.98	22.84				
10	HQAM	1	25	22.68	23.07	22.85				
10	HQAM	1	49	22.81	22.83	22.80	24	0		
10	HQAM	12	0	22.76	22.76	22.80				
10	HQAM	12	12	22.57	22.70	22.55	23.5	0.5		
10	HQAM	25	12	22.51	22.59	22.59				
10	HQAM	25	25	22.52	22.52	22.48				
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	22.85				
5	QPSK	12	13	22.76	22.89	22.83	24	0		
5	QPSK	25	4	22.84	22.98	22.87				
5	HQAM	1	0	22.72	22.98	22.82				
5	HQAM	1	12	22.80	22.90	22.76	24	0		
5	HQAM	1	24	22.75	22.96	22.85				
5	HQAM	12	0	22.47	22.74	22.63				
5	HQAM	12	7	22.57	22.81	22.59	23.5	0.5		
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	21.59	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	18.78				
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	22.78	22.90	22.88				
3	HQAM	1	0	22.76	23.07	22.84				
3	HQAM	1	8	22.82	22.98	22.87	24	0		
3	HQAM	1	14	22.78	22.85	22.82				
3	HQAM	8	0	22.56	22.73	22.63				
3	HQAM	8	4	22.54	22.52	22.49	23.5	0.5		
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				



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				
30	QPSK	1	99	20.47	20.43	20.49				
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	20.38	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	19.99				
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	17.90	17.82	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	17.85	17.80	18.5	3.5		
30	25QAM	50	50	17.77	17.87	17.81				
30	25QAM	100	0	17.79	17.80	17.80				
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	19.80				
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	19.86	19.89				
15	HQAM	36	39	19.74	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	17.82				
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	17.80	17.81				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.50	20.40	20.40	22	0		
10	QPSK	1	25	20.31	20.39	20.41				
10	QPSK	1	49	20.35	20.28	20.34				
10	QPSK	25	0	20.32	20.32	20.32				
10	QPSK	25	12	20.24	20.46	20.30	22	0		
10	QPSK	25	25	20.17	20.25	20.22				
10	HQAM	1	0	20.34	20.42	20.30	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	19.89	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	50	12	19.82	20.01	20.01	21.5	0.5		
10	HQAM	1	0	19.86	19.83	19.84				
10	HQAM	1	49	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				
10	HQAM	50	0	19.80	19.83	19.72				
10	25QAM	1	0	17.81	17.80	17.84	18.5	3.5		
10	25QAM	1	49	17.73	17.87	17.78				
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	17.86	17.84				

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	22.44	24	0		
20	QPSK	1	49	22.33	22.54	22.52				
20	QPSK	1	99	22.31	22.41	22.39				
20	QPSK	50	0	22.27	22.18	22.34				
20	QPSK	50	24	22.05	22.15	22.16	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	21.30	21.18	21.38	22.5	1.5		
20	HQAM	50	24	21.20	21.17	21.20				
20	HQAM	50	50	21.01	21.08	21.16				
20	HQAM	100	0	21.06	21.21	21.35				
20	HQAM	1	0	21.41	21.33	21.49	22.5	1.5		
20	HQAM	1	49	21.30	21.27	21.37				
20	HQAM	1	99	21.18	21.04	21.30				
20	HQAM	50	0	20.27	20.27	20.40	21.5	2.5		
20	HQAM	50	24	20.23	20.24	20.32				
20	HQAM	50	50	20.10	20.18	20.24				
20	HQAM	100	0	20.16	20.14	20.22				
20	25QAM	1	0	18.24	18.20	18.37	19.5	4.5		
20	25QAM	1	49	18.27	18.18	18.37				
20	25QAM	1	99	18.10	18.08	18.23				
20	25QAM	50	0	18.14	18.14	18.24	19.5	4.5		
20	25QAM	50	24	18.18	18.14	18.24				
20	25QAM	50	50	18.12	18.05	18.20				
20	25QAM	100	0	18.14	18.16	18.28				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.17	22.02	22.15	24.00	0		
15	QPSK	1	37	22.17	22.37	22.46				
15	QPSK	1	74	22.14	22.26	22.26				
15	QPSK	36	0	22.29	22.08	22.24	23.5	0.5		
15	QPSK	36	20	21.99	22.01	22.09				
15	QPSK	75	0	22.12	22.05	22.09				
15	QPSK	75	0	22.13	21.96	22.15				
15	HQAM	1	0	22.09	21.88	22.16	23.5	0.5		
15	HQAM	1	37	21.99	22.07	22.15				
15	HQAM	1	74	21.99	21.91	22.04				
15	HQAM	36	0	21.28	21.04	21.28	22.5	1.5		
15	HQAM	36	20	20.88	21.03	21.05				
15	HQAM	36	39	20.88	21.03	21.01				
15	HQAM	75	0	21.17	21.17	21.20	22.5	1.5		



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)				39750	40185	40620	41055	41490		
20	QPSK	1	0	25.50	25.42	25.34	25.26	25.18	26.00	0
20	QPSK	1	49	25.46	25.33	25.59	25.40	25.36	26.00	0
20	QPSK	1	99	25.32	25.28	25.40	25.36	25.31	26.00	0
20	QPSK	50	0	25.42	25.34	25.45	25.21	25.08	26.00	0
20	QPSK	50	24	25.32	25.43	25.38	25.29	25.10	26.00	0
20	QPSK	100	0	25.32	25.40	25.38	25.28	25.13	26.00	0
20	QPSK	100	49	25.55	25.46	25.60	25.48	25.41	26.00	0
20	QPSK	100	99	25.35	25.39	25.45	25.49	25.57	26.00	0
20	HQAM	1	0	25.30	25.34	25.42	25.44	25.22	26.00	0
20	HQAM	1	49	24.26	24.15	24.36	24.27	24.10	26.00	0
20	HQAM	50	24	24.19	24.20	24.30	24.13	24.07	26.00	0
20	HQAM	50	50	24.11	24.05	24.17	24.11	23.97	26.00	0
20	HQAM	100	0	24.25	24.21	24.30	24.15	24.07	26.00	0
20	HQAM	100	49	24.18	24.15	24.23	24.10	24.10	26.00	0
20	HQAM	100	99	24.02	24.11	24.10	24.10	23.96	26.00	0
20	HQAM	1	99	24.05	24.03	24.14	24.03	23.96	26.00	0
20	HQAM	50	0	23.28	23.22	23.38	23.20	23.14	26.00	0
20	HQAM	50	24	23.15	23.14	23.27	23.19	23.03	26.00	0
20	HQAM	50	50	23.14	23.10	23.21	23.15	23.06	26.00	0
20	HQAM	100	0	23.11	23.17	23.23	23.22	23.02	26.00	0
20	HQAM	100	49	21.51	21.42	21.55	21.46	21.29	26.00	0
20	HQAM	100	99	21.54	21.49	21.55	21.45	21.30	26.00	0
20	SSBAM	1	0	21.24	21.37	21.38	21.38	21.28	26.00	0
20	SSBAM	50	0	21.26	21.21	21.24	21.24	21.14	26.00	0
20	SSBAM	50	24	21.22	21.16	21.29	21.24	21.04	26.00	0
20	SSBAM	50	50	21.14	21.12	21.21	21.20	21.05	26.00	0
20	SSBAM	100	0	21.32	21.29	21.33	21.33	21.16	26.00	0
20	SSBAM	100	49	39725	40172	40620	41068	41515	26.00	0
15	QPSK	1	0	25.52	25.47	25.50	25.33	25.22	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	25.19	24.91	26.00	0
15	QPSK	38	20	25.20	25.08	25.34	25.19	24.95	26.00	0
15	QPSK	75	0	24.43	24.33	24.31	24.24	24.04	26.00	0
15	QPSK	75	20	24.24	24.15	24.24	24.15	24.00	26.00	0
15	QPSK	75	40	24.24	24.15	24.23	24.15	24.00	26.00	0
15	HQAM	1	0	25.43	25.36	25.51	25.38	25.36	26.00	0
15	HQAM	1	37	25.25	25.20	25.25	25.14	25.02	26.00	0
15	HQAM	1	74	25.16	25.21	25.28	25.28	25.10	26.00	0
15	HQAM	38	0	24.22	24.02	24.24	24.16	23.97	26.00	0
15	HQAM	38	20	24.02	24.02	24.10	24.02	23.84	26.00	0
15	HQAM	38	39	24.08	23.99	24.08	24.06	23.86	26.00	0
15	HQAM	75	0	24.19	24.08	24.27	24.04	24.02	26.00	0
15	HQAM	75	1	24.04	24.10	24.16	24.09	23.91	26.00	0
15	HQAM	1	37	23.89	24.04	23.97	23.96	23.88	26.00	0
15	HQAM	1	74	24.03	23.89	24.10	23.94	23.92	26.00	0
15	HQAM	38	0	23.18	23.18	23.25	23.05	23.05	26.00	0
15	HQAM	38	20	23.05	23.09	23.22	23.15	22.97	26.00	0
15	HQAM	38	39	23.09	23.09	23.21	23.15	22.96	26.00	0
15	HQAM	75	0	23.04	23.03	23.08	23.15	22.92	26.00	0
15	SSBAM	1	0	21.43	21.39	21.51	21.39	21.22	26.00	0
15	SSBAM	1	37	21.43	21.37	21.38	21.38	21.27	26.00	0
15	SSBAM	1	74	21.20	21.26	21.32	21.23	21.10	26.00	0
15	SSBAM	38	0	21.24	21.17	21.34	21.25	21.11	26.00	0
15	SSBAM	38	20	21.08	21.12	21.21	21.15	20.99	26.00	0
15	SSBAM	38	39	21.10	21.08	21.07	21.09	20.98	26.00	0
15	SSBAM	75	0	21.21	21.12	21.31	21.26	21.07	26.00	0
15	SSBAM	75	40	21.03	21.03	21.03	21.03	20.85	26.00	0
10	QPSK	1	0	25.51	25.43	25.45	25.38	25.40	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	26.00	0
10	QPSK	12	0	25.34	25.28	25.28	25.18	25.03	26.00	0
10	QPSK	25	12	25.28	25.05	25.22	25.14	25.03	26.00	0
10	QPSK	25	25	24.92	25.06	25.09	25.14	24.97	26.00	0
10	HQAM	1	0	25.30	25.30	25.25	25.24	25.06	26.00	0
10	HQAM	1	49	25.47	25.40	25.60	25.41	25.36	26.00	0
10	HQAM	1	99	25.20	25.34	25.40	25.38	25.12	26.00	0
10	HQAM	12	0	24.02	24.06	24.22	24.06	23.91	26.00	0
10	HQAM	12	49	24.24	24.16	24.22	24.06	23.91	26.00	0
10	HQAM	25	0	24.23	24.09	24.31	24.12	24.04	26.00	0
10	HQAM	25	12	24.02	24.06	24.22	24.06	23.91	26.00	0
10	HQAM	25	25	24.04	24.06	24.14	24.04	23.85	26.00	0
10	HQAM	50	0	24.18	24.14	24.28	24.08	24.13	26.00	0
10	HQAM	50	12	24.09	24.09	24.26	24.06	23.97	26.00	0
10	HQAM	50	25	24.04	24.06	24.14	24.04	23.85	26.00	0
10	HQAM	100	0	23.94	23.98	24.02	23.92	23.86	26.00	0
10	HQAM	100	49	23.21	23.08	23.20	23.15	23.03	26.00	0
10	HQAM	100	99	23.05	23.10	23.24	23.09	22.89	26.00	0
10	HQAM	25	12	23.02	22.87	23.20	23.08	22.96	26.00	0
10	HQAM	25	25	22.97	22.97	23.10	23.19	22.98	26.00	0
10	SSBAM	1	0	21.47	21.39	21.54	21.36	21.18	26.00	0
10	SSBAM	1	49	21.51	21.46	21.47	21.39	21.25	26.00	0
10	SSBAM	1	99	21.14	21.20	21.25	21.30	21.22	26.00	0
10	SSBAM	12	0	21.28	21.21	21.39	21.32	21.20	26.00	0
10	SSBAM	12	7	21.00	21.04	21.20	21.17	20.94	26.00	0
10	SSBAM	25	12	20.99	21.07	21.13	21.15	20.96	26.00	0
10	SSBAM	25	25	21.28	21.16	21.27	21.11	21.02	26.00	0
10	SSBAM	50	0	2488.5	2548.5	2608.5	2668.5	2728.5	26.00	0
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	26.00	0
5	QPSK	1	24	25.15	25.24	25.39	25.21	25.25	26.00	0
5	QPSK	12	0	25.39	25.32	25.41	25.39	25.03	26.00	0
5	QPSK	12	7	25.24	25.15	25.38	25.12	25.03	26.00	0
5	QPSK	12	13	24.93	25.06	25.02	25.17	25.05	26.00	0
5	QPSK	25	0	25.21	25.05	25.29	25.22	25.09	26.00	0
5	QPSK	25	12	25.47	25.42	25.52	25.38	25.27	26.00	0
5	HQAM	1	0	25.29	25.29	25.33	25.35	25.24	26.00	0
5	HQAM	1	24	25.10	25.21	25.36	25.24	25.16	26.00	0
5	HQAM	12	0	24.20	24.02	24.31	24.20	24.02	26.00	0
5	HQAM	12	7	24.15	24.14	24.19	24.06	23.97	26.00	0
5	HQAM	12	13	24.06	23.98	24.03	24.07	23.89	26.00	0
5	HQAM	25	0	24.12	24.15	24.28	24.08	24.07	26.00	0
5	HQAM	25	12	24.07	24.10	24.21	24.09	24.00	26.00	0
5	HQAM	25	12	23.91	23.97	24.02	24.07	23.92	26.00	0
5	HQAM	1	24	23.97	23.99	24.11	23.99	23.89	26.00	0
5	HQAM	12	0	23.18	23.15	23.27	23.07	23.06	26.00	0
5	HQAM	12	7	23.08	23.06	23.13	23.10	22.99	26.00	0
5	HQAM	12	13	23.00	22.98	23.16	23.05	22.91	26.00	0
5	HQAM	25	0	23.06	23.11	23.11	23.16	22.96	26.00	0
5	SSBAM	1	0	21.45	21.34	21.40	21.41	21.22	26.00	0
5	SSBAM	1	12	21.48	21.25	21.46	21.37	21.17	26.00	0
5	SSBAM	1	24	21.19	21.20	21.32	21.28	21.22	26.00	0
5	SSBAM	12	0	21.19	21.07	21.22	21.20	21.03	26.00	0
5	SSBAM	12	13	21.08	21.06	21.15	21.19	20.96	26.00	0
5	SSBAM	25	0	21.24	21.16	21.25	21.12	21.02	26.00	0

Band 48 Default 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)				55540	55975	56410	56845	57280		
20	QPSK	1	0	21.28	21.44	21.41	21.40	21.29	23.00	0
20	QPSK	1	49	21.23	21.39	21.34	21.34	21.25	23.00	0
20	QPSK	1	99	21.16	21.31	21.29	21.29	21.20	23.00	0
20	QPSK	50	0	21.25	21.37	21.32	21.32	21.23	23	



CDMA2000 1X									
TX Channel	Burst Average Power (dBm)			Tx Power Limit (dBm)	Frame Average Power (dBm)			Tx Power Limit (dBm)	
	198.2	198.4	198.6		198.2	198.4	198.6		
CDMA 1 Tx Limit	31.42	31.48	31.36	32.00	22.42	22.48	22.36	23.00	
OPRS 1 Tx Limit	31.38	31.44	31.33	32.00	22.39	22.44	22.33	23.00	
OPRS 2 Tx Limit	25.27	25.30	25.32	26.00	22.27	22.29	22.30	23.00	
OPRS 3 Tx Limit	26.80	26.91	26.80	28.00	22.34	22.55	22.44	23.14	
OPRS 4 Tx Limit	25.16	25.22	25.17	26.00	22.16	22.22	22.17	23.00	
EDGE 1 Tx Limit	24.00	24.17	24.05	25.00	18.03	18.17	18.05	18.00	
EDGE 2 Tx Limit	22.20	22.41	22.34	23.00	18.20	18.41	18.34	17.00	
EDGE 3 Tx Limit	21.15	21.21	21.08	22.00	18.89	18.97	18.82	17.74	
EDGE 4 Tx Limit	18.99	19.06	18.93	20.00	18.99	19.08	18.91	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	199.4	199.6		199.2	199.4	199.6		
CDMA 1 Tx Limit	27.52	27.67	27.57	28.50	18.52	18.67	18.57	19.50	
OPRS 1 Tx Limit	25.06	25.00	24.98	26.00	19.06	19.00	18.98	20.00	
OPRS 2 Tx Limit	25.36	25.42	25.32	26.50	19.10	19.16	19.06	20.24	
OPRS 3 Tx Limit	20.62	20.74	20.63	21.50	17.62	17.74	17.63	18.50	
EDGE 1 Tx Limit	22.76	22.86	22.72	23.50	13.76	13.86	13.72	14.50	
EDGE 2 Tx Limit	21.13	21.22	21.13	22.00	13.13	13.22	13.13	15.00	
EDGE 3 Tx Limit	14.86	14.96	14.86	15.00	13.86	13.96	13.74	15.00	
EDGE 4 Tx Limit	17.01	18.05	17.97	19.00	14.91	15.05	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		
CDMA 1 Tx Limit	26.02	26.00	26.00	23.00	16.02	16.00	16.00	16.00	
OPRS 1 Tx Limit	18.52	18.50	18.50	19.50	14.52	14.50	14.50	15.50	
OPRS 2 Tx Limit	21.46	21.52	21.44	23.00	17.46	17.44	17.31	21.00	
OPRS 3 Tx Limit	21.48	21.51	21.51	23.00	17.45	17.45	17.37	21.00	
OPRS 4 Tx Limit	20.85	20.84	20.47	22.00	16.46	16.57	16.32	20.00	
OPRS 5 Tx Limit	20.48	20.51	20.52	22.00	16.42	16.50	16.41	22.00	
OPRS 6 Tx Limit	20.02	20.14	20.10	21.50	16.01	16.02	16.05	19.50	
OPRS 7 Tx Limit	19.56	19.14	19.36	21.50	15.57	15.31	15.54	21.00	
OPRS 8 Tx Limit	20.50	20.70	20.45	22.00	16.46	16.63	16.35	20.21	
OPRS 9 Tx Limit	20.37	20.42	20.36	22.00	16.33	16.28	16.28	20.08	
OPRS 10 Tx Limit	19.00	19.96	19.92	21.50	15.04	15.84	15.86	19.95	
OPRS 11 Tx Limit	19.87	18.54	18.90	21.50	16.82	16.80	16.83	19.49	
OPRS 12 Tx Limit	20.96	20.81	20.80	22.00	18.43	18.36	18.36	20.22	
OPRS 13 Tx Limit	18.53	18.67	18.52	20.00	14.42	14.53	14.39	18.19	
OPRS 14 Tx Limit	18.53	18.61	18.58	21.00	14.43	14.53	14.47	18.19	
OPRS 15 Tx Limit	18.46	18.48	18.44	20.00	13.37	13.45	13.35	16.04	
OPRS 16 Tx Limit	20.59	20.40	20.39	22.00	16.59	16.36	16.33	20.21	





Band 2 Default Ant1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power Hgt./Ch./Freq.	Power Hgt./F.Freq.	Turn-up Time (min)	MFR (dB)		
Channel										
Frequency (MHz)										
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	20.98	20.99	20.98				
20	QPSK	50	0	20.99	21.04	20.99				
20	QPSK	50	24	20.97	20.98	20.97	22	0		
20	QPSK	50	50	20.98	20.99	20.98				
20	QPSK	100	0	20.99	20.99	20.97				
20	QPSK	100	25	20.97	20.98	20.97	22	0		
20	QPSK	100	50	20.98	20.98	20.97				
20	QPSK	150	0	20.99	20.99	20.97				
20	QPSK	150	25	20.97	20.98	20.97	21.5	0.5		
20	QPSK	150	50	20.98	20.98	20.97				
20	QPSK	200	0	20.99	20.99	20.97				
20	QPSK	200	25	20.97	20.98	20.97	20.5	1.5		
20	QPSK	200	50	20.98	20.98	20.97				
20	QPSK	250	0	20.99	20.99	20.97				
20	QPSK	250	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	250	50	20.98	20.98	20.97				
20	QPSK	300	0	20.99	20.99	20.97				
20	QPSK	300	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	300	50	20.98	20.98	20.97				
20	QPSK	350	0	20.99	20.99	20.97				
20	QPSK	350	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	350	50	20.98	20.98	20.97				
20	QPSK	400	0	20.99	20.99	20.97				
20	QPSK	400	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	400	50	20.98	20.98	20.97				
20	QPSK	450	0	20.99	20.99	20.97				
20	QPSK	450	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	450	50	20.98	20.98	20.97				
20	QPSK	500	0	20.99	20.99	20.97				
20	QPSK	500	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	500	50	20.98	20.98	20.97				
20	QPSK	550	0	20.99	20.99	20.97				
20	QPSK	550	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	550	50	20.98	20.98	20.97				
20	QPSK	600	0	20.99	20.99	20.97				
20	QPSK	600	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	600	50	20.98	20.98	20.97				
20	QPSK	650	0	20.99	20.99	20.97				
20	QPSK	650	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	650	50	20.98	20.98	20.97				
20	QPSK	700	0	20.99	20.99	20.97				
20	QPSK	700	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	700	50	20.98	20.98	20.97				
20	QPSK	750	0	20.99	20.99	20.97				
20	QPSK	750	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	750	50	20.98	20.98	20.97				
20	QPSK	800	0	20.99	20.99	20.97				
20	QPSK	800	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	800	50	20.98	20.98	20.97				
20	QPSK	850	0	20.99	20.99	20.97				
20	QPSK	850	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	850	50	20.98	20.98	20.97				
20	QPSK	900	0	20.99	20.99	20.97				
20	QPSK	900	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	900	50	20.98	20.98	20.97				
20	QPSK	950	0	20.99	20.99	20.97				
20	QPSK	950	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	950	50	20.98	20.98	20.97				
20	QPSK	1000	0	20.99	20.99	20.97				
20	QPSK	1000	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	1000	50	20.98	20.98	20.97				
20	QPSK	1050	0	20.99	20.99	20.97				
20	QPSK	1050	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	1050	50	20.98	20.98	20.97				
20	QPSK	1100	0	20.99	20.99	20.97				
20	QPSK	1100	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	1100	50	20.98	20.98	20.97				
20	QPSK	1150	0	20.99	20.99	20.97				
20	QPSK	1150	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	1150	50	20.98	20.98	20.97				
20	QPSK	1200	0	20.99	20.99	20.97				
20	QPSK	1200	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	1200	50	20.98	20.98	20.97				
20	QPSK	1250	0	20.99	20.99	20.97				
20	QPSK	1250	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	1250	50	20.98	20.98	20.97				
20	QPSK	1300	0	20.99	20.99	20.97				
20	QPSK	1300	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	1300	50	20.98	20.98	20.97				
20	QPSK	1350	0	20.99	20.99	20.97				
20	QPSK	1350	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	1350	50	20.98	20.98	20.97				
20	QPSK	1400	0	20.99	20.99	20.97				
20	QPSK	1400	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	1400	50	20.98	20.98	20.97				
20	QPSK	1450	0	20.99	20.99	20.97				
20	QPSK	1450	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	1450	50	20.98	20.98	20.97				
20	QPSK	1500	0	20.99	20.99	20.97				
20	QPSK	1500	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	1500	50	20.98	20.98	20.97				
20	QPSK	1550	0	20.99	20.99	20.97				
20	QPSK	1550	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	1550	50	20.98	20.98	20.97				
20	QPSK	1600	0	20.99	20.99	20.97				
20	QPSK	1600	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	1600	50	20.98	20.98	20.97				
20	QPSK	1650	0	20.99	20.99	20.97				
20	QPSK	1650	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	1650	50	20.98	20.98	20.97				
20	QPSK	1700	0	20.99	20.99	20.97				
20	QPSK	1700	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	1700	50	20.98	20.98	20.97				
20	QPSK	1750	0	20.99	20.99	20.97				
20	QPSK	1750	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	1750	50	20.98	20.98	20.97				
20	QPSK	1800	0	20.99	20.99	20.97				
20	QPSK	1800	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	1800	50	20.98	20.98	20.97				
20	QPSK	1850	0	20.99	20.99	20.97				
20	QPSK	1850	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	1850	50	20.98	20.98	20.97				
20	QPSK	1900	0	20.99	20.99	20.97				
20	QPSK	1900	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	1900	50	20.98	20.98	20.97				
20	QPSK	1950	0	20.99	20.99	20.97				
20	QPSK	1950	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	1950	50	20.98	20.98	20.97				
20	QPSK	2000	0	20.99	20.99	20.97				
20	QPSK	2000	25	20.97	20.98	20.97	18.5	3.5		
20	QPSK	2000	50	20.98	20.98	20.97				
20	QPSK	2050	0	20.99	20.99	20.97				
20	QPSK	2050	25	20.97	20.98	20.97	18.5	3.5		



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	21.5	1.5		
10	8QAM	25	25	20.28	20.38	20.33				
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	18.26	18.26				
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	21.39	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	21.37	21.27	22.5	0.5		
5	8QAM	1	24	21.03	21.20	21.20				
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	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	3	0	21.28	21.46	21.39	23	0		
1.4	16QAM	3	1	21.26	21.44	21.28				
1.4	16QAM	3	3	21.23	21.37	21.35				
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	21.42			22.5	0.5		
10	16QAM	25	12	21.40						
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						
10	256QAM	1	0	18.16			19.5	3.5		
10	256QAM	1	25	18.12						
10	256QAM	1	49	17.99						
10</										



Band 25 Default Ant1										
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch / Freq	Power Mid 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	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	20.90				
20	QPSK	50	50	20.76	20.87	20.82			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	20.89	21.09	20.99				
20	64QAM	50	24	20.81	20.94	20.84			22	0
20	64QAM	50	50	20.76	20.78	20.74				
20	256QAM	1	48	17.82	17.97	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	17.97	17.89				
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	20.91	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	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	20.99	20.97			22	0
15	64QAM	1	74	20.74	20.85	20.79				
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	17.97	17.88			19	3
15	256QAM	1	96	17.83	17.71	17.73				
15	256QAM	50	24	17.80	17.85	17.86				
15	256QAM	50	50	17.69	17.78	17.77			19	3
15	256QAM	36	39	17.86	17.78	17.67				
15	256QAM	75	0	17.82	17.96	17.87			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	20.98	20.88				
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	20.85	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	20.87				
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	17.89			19	3
10	256QAM	1	49	17.71	17.75	17.62				
10	256QAM	25	0	17.80	17.85	17.86				
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	17.96	17.87			19	3
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	20.93	20.86				
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	20.98	20.88				
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	20.67	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										
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	20.85	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	20.78				
3	64QAM	8	4	20.61	20.82	20.73			22	0
3	64QAM	8	7	20.64	20.83	20.87				
3	256QAM									



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	20.88	20.85	22	0		
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	20.90	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	20.56	20.60	20.49				
20	64QAM	100	0	20.74	20.83	20.82				
20	256QAM	1	49	17.67	17.89	17.81	19	3		
20	256QAM	1	99	17.93	18.10	17.95				
20	256QAM	1	99	17.79	17.80	17.85				
20	256QAM	50	24	17.60	17.75	17.62	19	3		
20	256QAM	50	50	17.47	17.58	17.47				
20	256QAM	100	0	17.73	17.75	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	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	20.83	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	22	0		
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	39	20.81	20.80	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	20.60	20.48	22	0		
15	64QAM	36	39	20.48	20.52	20.38				
15	64QAM	75	0	20.87	20.89	20.88				
15	256QAM	1	49	17.76	17.80	17.81	19	3		
15	256QAM	1	99	17.85	17.85	17.81				
15	256QAM	50	24	17.46	17.50	17.46	19	3		
15	256QAM	50	50	17.47	17.52	17.41				
15	256QAM	36	39	17.37	17.50	17.33	19	3		
15	256QAM	75	0	17.44	17.43	17.74				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.92	21.07	20.92				
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	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	20.56	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	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	49	17.86	17.82	17.82	19	3		
10	256QAM	1	25	17.88	17.86	17.87				
10	256QAM	1	49	17.85	17.78	17.79				
10	256QAM	50	12	17.53	17.43	17.59	19	3		
10	256QAM	25	12	17.57	17.52	17.45				
10	256QAM	25	25	17.36	17.45	17.43	19	3		
10	256QAM	50	0	17.62	17.62	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	20.84	20.82				
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	20.84	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	20.69				
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	20.61				
5	64QAM	12	0	20.53	20.67	20.60				
5	64QAM	12	7	20.48	20.59	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	12	17.82	18.00	17.83	19	3		
5	256QAM	1	12	17.80	17.98	17.82				
5	256QAM	1	24	17.70	17.76	17.71				
5	256QAM	12	0	17.85	17.82	17.89	19	3		
5	256QAM	12	7	17.54	17.50	17.47				
5	256QAM	12	13	17.39	17.49	17.44	19	3		
5	256QAM	25	0	17.44	17.38	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	20.86				
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	20.74	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	20.68	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	20.55				
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	20.88	20.69				
3	64QAM	8	4	20.45	20.61	20.46	22	0		
3	64QAM									



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	22.35	22.39	22.40				
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	22.43				
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	22.35	22.39				
20	HQAM	1	99	22.27	22.39	22.24				
20	HQAM	50	0	21.97	22.14	21.96				
20	HQAM	50	24	21.91	21.95	21.99	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	21.94	21.85				
20	HQAM	100	0	21.91	22.05	21.96				
20	HQAM	100	0	21.81	22.05	21.96				
20	25QAM	1	0	18.83	19.00	18.85	20.5	2.5		
20	25QAM	1	49	18.79	18.90	18.75				
20	25QAM	1	99	18.76	18.77	18.79				
20	25QAM	50	0	18.82	18.98	18.97				
20	25QAM	50	24	18.97	19.06	18.95	20.5	2.5		
20	25QAM	50	50	18.89	18.95	18.84				
20	25QAM	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	22.24	23	0		
15	QPSK	36	20	22.14	22.22	22.19				
15	QPSK	75	0	22.18	22.28	22.22	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	22.25				
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	21.89	22.5	0.5		
15	HQAM	36	20	21.83	21.92	21.79				
15	HQAM	36	39	21.78	21.85	21.87				
15	HQAM	75	0	21.82	21.91	21.85				
15	25QAM	1	0	18.77	18.90	18.81	20.5	2.5		
15	25QAM	1	37	18.70	18.81	18.75				
15	25QAM	1	74	18.67	18.74	18.74				
15	25QAM	36	0	18.86	19.11	18.92	20.5	2.5		
15	25QAM	36	20	18.93	19.04	18.93				
15	25QAM	36	39	18.85	18.88	18.84				
15	25QAM	75	0	18.89	18.90	18.86				
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	22.32	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	22.29	22.27				
10	HQAM	1	49	22.15	22.16	22.12	23	0		
10	HQAM	1	25	22.21	22.31	22.23				
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	25QAM	1	0	18.76	18.92	18.70	20.5	2.5		
10	25QAM	1	25	18.84	18.91	18.72				
10	25QAM	1	49	18.82	18.73	18.88				
10	25QAM	25	0	18.83	18.11	18.89	20.5	2.5		
10	25QAM	25	12	18.90	19.03	18.90				
10	25QAM	25	25	18.77	18.84	18.87				
10	25QAM	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	12	13	22.14	22.25	22.20	23	0		
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	21.76	21.79	21.73				
5	HQAM	25	0	21.76	21.98	21.87				
5	25QAM	1	0	18.73	18.89	18.71	20.5	2.5		
5	25QAM	1	12	18.72	18.87	18.66				
5	25QAM	1	24	18.64	18.73	18.70				
5	25QAM	12	0	18.82	19.01	18.84	20.5	2.5		
5	25QAM	12	13	18.85	18.88	18.90				
5	25QAM	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	22.92	22.92	22.94				
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						



Band 41 PC2 FCC&IC 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	Tune-up Int (dBm)	MPR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	25.50	25.47	25.51	25.50	25.49	25.50	27	0
20	QPSK	1	49	25.33	25.40	25.58	25.35	25.35	25.33		
20	QPSK	1	99	25.20	25.33	25.51	25.31	25.41	25.41		
20	QPSK	50	0	25.33	25.30	25.45	25.29	25.37	25.37		
20	QPSK	50	24	25.27	25.29	25.48	25.27	25.33	25.33	27	0
20	QPSK	100	0	25.15	25.15	25.25	25.15	25.15	25.15		
20	QPSK	100	0	25.19	25.19	25.28	25.22	25.28	25.28		
20	HQAM	1	0	25.18	25.28	25.42	25.23	25.34	25.34	27	0
20	HQAM	1	49	25.20	25.14	25.39	25.16	25.28	25.28		
20	HQAM	1	99	25.16	25.13	25.30	25.12	25.27	25.27		
20	HQAM	50	24	24.29	24.40	24.35	24.34	24.44	24.44		
20	HQAM	50	24	24.32	24.28	24.50	24.27	24.42	24.42		
20	HQAM	50	50	24.21	24.24	24.40	24.22	24.39	24.39	26	1
20	HQAM	100	0	24.25	24.23	24.40	24.19	24.36	24.36		
20	HQAM	100	0	24.27	24.25	24.35	24.27	24.35	24.35		
20	HQAM	100	49	24.55	24.53	24.74	24.54	24.66	24.66	26	1
20	HQAM	100	99	24.52	24.55	24.70	24.52	24.65	24.65		
20	HQAM	50	0	23.37	23.35	23.55	23.30	23.46	23.46		
20	HQAM	50	24	23.33	23.33	23.53	23.31	23.45	23.45		
20	HQAM	50	50	23.35	23.25	23.49	23.33	23.44	23.44	25	2
20	HQAM	100	0	23.23	23.29	23.44	23.31	23.33	23.33		
20	SSBQAM	1	0	21.51	21.49	21.65	21.44	21.58	21.58		
20	SSBQAM	1	49	21.43	21.41	21.65	21.42	21.52	21.52	23	4
20	SSBQAM	1	99	21.30	21.36	21.50	21.41	21.51	21.51		
20	SSBQAM	50	0	21.37	21.38	21.52	21.34	21.45	21.45		
20	SSBQAM	50	24	21.27	21.23	21.48	21.24	21.39	21.39	23	4
20	SSBQAM	50	50	21.23	21.28	21.41	21.20	21.35	21.35		
20	SSBQAM	100	0	21.10	21.10	21.15	21.10	21.14	21.14		
Channel											
Frequency (MHz)											
15	QPSK	1	0	25.47	25.39	25.51	25.39	25.50	25.50	27.00	0
15	QPSK	1	37	25.29	25.33	25.48	25.29	25.46	25.46		
15	QPSK	1	74	25.16	25.26	25.36	25.24	25.30	25.30		
15	QPSK	38	0	25.25	25.24	25.40	25.24	25.42	25.42		
15	QPSK	38	20	25.13	25.15	25.43	25.21	25.21	25.21	27	0
15	QPSK	75	0	25.04	25.06	25.28	25.17	25.24	25.24		
15	HQAM	1	0	25.05	25.14	25.20	25.18	25.28	25.28	27	0
15	HQAM	1	37	25.06	25.11	25.29	25.09	25.26	25.26		
15	HQAM	1	74	25.10	25.00	25.28	25.07	25.21	25.21		
15	HQAM	38	0	24.17	24.33	24.29	24.24	24.35	24.35	26	1
15	HQAM	38	20	24.25	24.18	24.45	24.15	24.31	24.31		
15	HQAM	38	39	24.11	24.09	24.37	24.10	24.28	24.28		
15	HQAM	75	0	24.20	24.08	24.25	24.05	24.17	24.17		
15	HQAM	75	0	24.44	24.07	24.22	24.47	24.30	24.30	26	1
15	HQAM	1	37	24.49	24.48	24.63	24.46	24.55	24.55		
15	HQAM	1	74	24.42	24.42	24.62	24.38	24.51	24.51		
15	HQAM	38	0	23.26	23.22	23.45	23.28	23.33	23.33	25	2
15	HQAM	38	20	23.23	23.28	23.40	23.19	23.34	23.34		
15	HQAM	38	39	23.22	23.21	23.34	23.19	23.32	23.32		
15	HQAM	75	0	23.19	23.25	23.32	23.15	23.23	23.23		
15	SSBQAM	1	0	21.44	21.44	21.54	21.33	21.45	21.45	23	4
15	SSBQAM	1	37	21.29	21.29	21.51	21.29	21.40	21.40		
15	SSBQAM	1	74	21.25	21.29	21.52	21.31	21.41	21.41		
15	SSBQAM	38	0	21.28	21.27	21.39	21.26	21.39	21.39	23	4
15	SSBQAM	38	20	21.12	21.14	21.35	21.18	21.27	21.27		
15	SSBQAM	38	39	21.14	21.22	21.37	21.12	21.30	21.30		
15	SSBQAM	75	0	21.08	21.10	21.21	21.00	21.10	21.10	23	4
Channel											
Frequency (MHz)											
10	QPSK	1	0	25.43	25.43	25.43	25.43	25.43	25.43	27.00	0
10	QPSK	1	25	25.25	25.31	25.48	25.25	25.42	25.42		
10	QPSK	1	49	25.21	25.18	25.38	25.17	25.37	25.37		
10	QPSK	1	99	25.02	25.08	25.40	25.02	25.30	25.30		
10	QPSK	25	12	25.17	25.21	25.43	25.22	25.38	25.38	27	0
10	QPSK	25	25	25.04	25.13	25.25	25.10	25.14	25.14		
10	HQAM	1	0	25.15	25.16	25.31	25.14	25.24	25.24		
10	HQAM	1	0	25.06	25.09	25.30	25.17	25.24	25.24		
10	HQAM	1	25	25.08	25.09	25.33	25.12	25.20	25.20	27	0
10	HQAM	1	49	25.09	25.07	25.30	25.17	25.24	25.24		
10	HQAM	25	0	24.21	24.28	24.44	24.25	24.39	24.39	26	1
10	HQAM	25	12	24.23	24.19	24.46	24.19	24.29	24.29		
10	HQAM	25	25	24.13	24.11	24.43	24.12	24.40	24.40		
10	HQAM	50	0	24.17	24.12	24.31	24.16	24.22	24.22		
10	HQAM	50	12	24.44	24.08	24.70	24.06	24.60	24.60	26	1
10	HQAM	1	25	24.43	24.40	24.80	24.40	24.61	24.61	26	1
10	HQAM	1	49	24.38	24.51	24.69	24.41	24.56	24.56		
10	HQAM	25	0	23.23	23.28	23.51	23.31	23.38	23.38		
10	HQAM	25	12	23.29	23.27	23.41	23.17	23.32	23.32		
10	HQAM	25	25	23.25	23.12	23.45	23.19	23.38	23.38		
10	HQAM	50	0	23.14	23.16	23.35	23.25	23.32	23.32		
10	SSBQAM	1	0	21.45	21.46	21.56	21.35	21.48	21.48	23	4
10	SSBQAM	1	49	21.29	21.34	21.51	21.37	21.46	21.46		
10	SSBQAM	1	99	21.26	21.25	21.45	21.33	21.42	21.42		
10	SSBQAM	25	0	21.33	21.29	21.44	21.25	21.41	21.41		
10	SSBQAM	25	12	21.21	21.11	21.30	21.16	21.30	21.30	23	4
10	SSBQAM	25	25	21.11	21.14	21.27	21.11	21.29	21.29		
10	SSBQAM	50	0	21.04	21.04	21.24	21.09	21.18	21.18		
Channel											
Frequency (MHz)											
5	QPSK	1	0	25.37	25.39	25.54	25.38	25.47	25.47	27.00	0
5	QPSK	1	12	25.22	25.27	25.41	25.20	25.43	25.43		
5	QPSK	1	24	25.15	25.21	25.39	25.19	25.29	25.29		
5	QPSK	12	0	25.20	25.27	25.38	25.21	25.32	25.32		
5	QPSK	12	7	25.17	25.25	25.35	25.23	25.22	25.22	27	0
5	QPSK	12	13	25.09	25.17	25.28	25.07	25.23	25.23		
5	QPSK	25	0	25.10	25.04	25.25	25.12	25.17	25.17		
5	HQAM	1	0	25.09	25.19	25.32	25.18	25.23	25.23		
5	HQAM	1	12	25.15	25.06	25.27	25.05	25.22	25.22	27	0
5	HQAM	1	24	25.07	25.00	25.20	25.04	25.16	25.16		
5	HQAM	12	0	24.22	24.35	24.43	24.28	24.41	24.41		
5	HQAM	12	7	24.24	24.18	24.44	24.12	24.36	24.36	26	1
5	HQAM	12	13	24.11	24.13	24.32	24.16	24.35	24.35		
5	HQAM	25	0	24.18	24.16	24.30	24.05	24.18	24.18		
5	HQAM	1	0	24.00	24.03	24.72	24.40	24.72	24.72	26	1
5	HQAM	1	12	24.46	24.63	24.86	24.36	24.60	24.60		
5	HQAM	1	24	24.45	24.41	24.56	24.42	24.53	24.53		
5	HQAM	12	0	23.24	23.21	23.46	23.21	23.31	23.31		
5	HQAM	12	7	23.20	23.25	23.45	23.24	23.42	23.42	25	2
5	HQAM	12	13	23.31	23.11	23.45	23.25	23.37	23.37		
5	HQ										



OSM1000 Awd												
Channel	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)				
OSM 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	16.46	16.52	16.40	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	21.90	22.00	21.98	23.00	13.60	13.69	13.68	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	21.52	22.50	12.56	12.60	12.52	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 Awd												
Band	WCCMA II			Tune-up	WCCMA IV			Tune-up				
Tx Channel	9882	9890	9838	Limit	1512	1513	1513	Limit				
Rx Channel	9882	9890	9838	(dBm)	1512	1518	1798	(dBm)				
Received (dBm)	89.2	89.8	89.8		132.4	139.9	71.6					
SOPF Rel 50	AWR 12 200us	21.00	21.50	21.46	22.00	21.42	21.44	21.37	23.00			
SOPF Rel 50	RMC 12 200us	21.54	21.52	21.49	22.00	21.47	21.53	21.44	23.00			
SOPF Rate	HEOPA Subclass 1	20.83	20.74	20.49	21.00	20.37	20.68	20.52	22.00			
SOPF Rate	HEOPA Subclass 2	20.58	20.60	20.53	21.00	20.47	20.61	20.43	22.00			
SOPF Rate	HEOPA Subclass 3	20.11	20.27	20.34	21.00	19.51	20.24	19.69	21.00			
SOPF Rate	HEOPA Subclass 4	20.02	20.18	20.09	21.40	19.98	20.06	20.02	21.50			
SOPF Rate	DC-HEOPA Subclass 1	20.55	20.73	20.51	21.00	20.40	20.50	20.39	22.00			
SOPF Rate	DC-HEOPA Subclass 2	20.34	20.41	20.40	21.00	20.25	20.37	20.31	22.00			
SOPF Rate	DC-HEOPA Subclass 3	19.88	19.98	19.84	21.40	19.80	19.87	19.83	21.50			
SOPF Rate	DC-HEOPA Subclass 4	19.93	19.90	19.92	21.40	19.78	19.90	19.84	21.00			
SOPF Rate	HEOPA Subclass 1	20.59	20.72	20.71	21.00	20.49	20.65	20.60	22.00			
SOPF Rate	HEOPA Subclass 2	20.52	20.60	20.45	21.00	20.44	20.49	20.29	22.00			
SOPF Rate	HEOPA Subclass 3	19.58	19.60	19.60	20.00	19.49	19.51	19.48	21.00			
SOPF Rate	HEOPA Subclass 4	18.43	18.27	18.41	19.00	18.38	18.44	18.33	20.00			
SOPF Rate	HEOPA Subclass 5	20.90	20.80	20.96	21.00	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 (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				
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				
20	QPSK	50	50	20.68	20.80	20.72				
20	QPSK	100	0	21.04	21.16	21.03				
20	QPSK	100	24	20.80	20.92	20.84				
20	QPSK	100	49	20.64	20.76	20.68				
20	QPSK	150	0	21.00	21.12	21.00				
20	QPSK	150	24	20.76	20.88	20.80				
20	QPSK	150	49	20.60	20.72	20.62				
20	QPSK	200	0	20.96	21.08	20.96				
20	QPSK	200	24	20.72	20.84	20.74				
20	QPSK	200	49	20.56	20.68	20.58				
20	QPSK	250	0	20.92	21.04	20.92				
20	QPSK	250	24	20.68	20.80	20.70				
20	QPSK	250	49	20.52	20.64	20.52				
20	QPSK	300	0	20.88	21.00	20.88				
20	QPSK	300	24	20.64	20.76	20.64				
20	QPSK	300	49	20.48	20.60	20.48				
20	QPSK	350	0	20.84	20.96	20.84				
20	QPSK	350	24	20.60	20.72	20.60				
20	QPSK	350	49	20.44	20.56	20.44				
20	QPSK	400	0	20.80	20.92	20.80				
20	QPSK	400	24	20.56	20.68	20.56				
20	QPSK	400	49	20.40	20.52	20.40				
20	QPSK	450	0	20.76	20.88	20.76				
20	QPSK	450	24	20.52	20.64	20.52				
20	QPSK	450	49	20.36	20.48	20.36				
20	QPSK	500	0	20.72	20.84	20.72				
20	QPSK	500	24	20.48	20.60	20.48				
20	QPSK	500	49	20.32	20.44	20.32				
20	QPSK	550	0	20.68	20.80	20.68				
20	QPSK	550	24	20.44	20.56	20.44				
20	QPSK	550	49	20.28	20.40	20.28				
20	QPSK	600	0	20.64	20.76	20.64				
20	QPSK	600	24	20.40	20.52	20.40				
20	QPSK	600	49	20.24	20.36	20.24				
20	QPSK	650	0	20.60	20.72	20.60				
20	QPSK	650	24	20.36	20.48	20.36				
20	QPSK	650	49	20.20	20.32	20.20				
20	QPSK	700	0	20.56	20.68	20.56				
20	QPSK	700	24	20.32	20.44	20.32				
20	QPSK	700	49	20.16	20.28	20.16				
20	QPSK	750	0	20.52	20.64	20.52				
20	QPSK	750	24	20.28	20.40	20.28				
20	QPSK	750	49	20.12	20.24	20.12				
20	QPSK	800	0	20.48	20.60	20.48				
20	QPSK	800	24	20.24	20.36	20.24				
20	QPSK	800	49	20.08	20.20	20.08				
20	QPSK	850	0	20.44	20.56	20.44				
20	QPSK	850	24	20.20	20.32	20.20				
20	QPSK	850	49	20.04	20.16	20.04				
20	QPSK	900	0	20.40	20.52	20.40				
20	QPSK	900	24	20.16	20.28	20.16				
20	QPSK	900	49	20.00	20.12	20.00				
20	QPSK	950	0	20.36	20.48	20.36				
20	QPSK	950	24	20.12	20.24	20.12				
20	QPSK	950	49	19.96	20.08	19.96				
20	QPSK	1000	0	20.32	20.44	20.32				
20	QPSK	1000	24	20.08	20.20	20.08				
20	QPSK	1000	49	19.92	20.04	19.92				
20	QPSK	1050	0	20.28	20.40	20.28				
20	QPSK	1050	24	20.04	20.16	20.04				
20	QPSK	1050	49	19.88	20.00	19.88				
20	QPSK	1100	0	20.24	20.36	20.24				
20	QPSK	1100	24	20.00	20.12	20.00				
20	QPSK	1100	49	19.84	19.96	19.84				
20	QPSK	1150	0	20.20	20.32	20.20				
20	QPSK	1150	24	19.96	20.08	19.96				
20	QPSK	1150	49	19.80	19.92	19.80				
20	QPSK	1200	0	20.16	20.28	20.16				
20	QPSK	1200	24	19.92	20.04	19.92				
20	QPSK	1200	49	19.76	19.88	19.76				
20	QPSK	1250	0	20.12	20.24	20.12				
20	QPSK	1250	24	19.88	20.00	19.88				
20	QPSK	1250	49	19.72	19.84	19.72				
20	QPSK	1300	0	20.08	20.20	20.08				
20	QPSK	1300	24	19.84	19.96	19.84				
20	QPSK	1300	49	19.68	19.80	19.68				
20	QPSK	1350	0	20.04	20.16	20.04				
20	QPSK	1350	24	19.80	19.92	19.80				
20	QPSK	1350	49	19.64	19.76	19.64				
20	QPSK	1400	0	20.00	20.12	20.00				
20	QPSK	1400	24	19.76	19.88	19.76				
20	QPSK	1400	49	19.60	19.72	19.60				
20	QPSK	1450	0	19.96	20.08	19.96				
20	QPSK	1450	24	19.72	19.84	19.72				
20	QPSK	1450	49	19.56	19.68	19.56				
20	QPSK	1500	0	19.92	20.04	19.92				
20	QPSK	1500	24	19.68	19.80	19.68				
20	QPSK	1500	49	19.52	19.64	19.52				
20	QPSK	1550	0	19.88	20.00	19.88				
20	QPSK	1550	24	19.64	19.76	19.64				
20	QPSK	1550	49	19.48	19.60	19.48				
20	QPSK	1600	0	19.84	19.96	19.84				
20	QPSK	1600	24	19.60	19.72	19.60				
20	QPSK	1600	49	19.44	19.56	19.44				
20	QPSK	1650	0	19.80	19.92	19.80				
20	QPSK	1650	24	19.56	19.68	19.56				
20	QPSK	1650	49	19.40	19.52	19.40				
20	QPSK	1700	0	19.76	19.88	19.76				
20	QPSK	1700	24	19.52	19.64	19.52				
20	QPSK	1700	49	19.36	19.48	19.36				
20	QPSK	1750	0	19.72	19.84	19.72				
20	QPSK	1750	24	19.48	19.60	19.48				
20	QPSK	1750	49	19.32	19.44	19.32				
20	QPSK	1800	0	19.68	19.80	19.68				
20	QPSK	1800	24	19.44	19.56	19.44				
20	QPSK	1800	49	19.28	19.40	19.28				
20	QPSK	1850	0	19.64	19.76	19.64				
20	QPSK	1850	24	19.40	19.52	19.40				
20	QPSK	1850	49	19.24	19.36	19.24				
20	QPSK	1900	0	19.60	19.72	19.60				
20	QPSK	1900	24	19.36	19.48	19.36				
20	QPSK	1900	49	19.20	19.32	19.20				
20	QPSK	1950	0	19.56	19.68	19.56				
20	QPSK	1950	24	19.32	19.44	19.32				
20	QPSK	1950	49	19.16	19.28	19.16				
20	QPSK	2000	0	19.52	19.64	19.52				
20	QPSK	2000	24	19.28	19.40	19.28				
20	QPSK	2000	49	19.12	19.24	19.12				
20	QPSK	2050	0	19.48	19.60	19.48				
20	QPSK	2050	24	19.24	19.36	19.24				
20	QPSK	2050	49	19.08	19.20	19.08				
20	QPSK	2100	0	19.44	19.56	19.44				
20	QPSK	2100	24	19.20	19.32	19.20				
20	QPSK	2100	49	19.04						





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	22.40				
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	22.52	22.24			24	0
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			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	22.44	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	21.36	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	22.40			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	22.43	22.05			24	0
5	QPSK	12	13	22.24	22.38	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	22.15				
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	12	22.09	22.31	22.18				
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	21.28	21.17				
5	8QAM	12	13	20.98	20.97	21.01			22.5	1.5
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)										
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			21	3
1.4	256QAM	6	0	19.08	19.20	19.14				
1.4	256QAM	6	0	19.17	19.25	19.09			21	3

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			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	22.44	22.44	22.44				
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	19.42	19.42	19.42				
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	22.17	22.25	22.17				
5	16QAM	25	0	22.41	22.47	22.46				
5	8QAM	1	0	22.31	22.30	22.29			24	0
5	8QAM	1	12	22.11	22.28	22.17				
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 (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	50	0	23.18	23.22	23.19				
20	QPSK	50	24	23.13	23.21	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	23.21	23.14				
20	16QAM	1	49	22.95	23.14	23.07	24	0		
20	16QAM	1	99	22.99	23.09	23.07				
20	16QAM	50	0	22.95	23.04	22.94				
20	16QAM	50	24	22.84	22.89	22.90	24	0		
20	16QAM	50	99	22.77	22.84	22.87				
20	16QAM	100	0	22.94	23.05	22.99				
20	16QAM	100	24	22.96	23.15	22.96				
20	16QAM	100	99	22.98	23.02	22.95	24	0		
20	16QAM	200	0	22.92	22.94	22.90				
20	16QAM	200	24	21.92	22.04	21.97	23	1		
20	16QAM	200	99	22.92	23.05	22.91				
20	25QAM	1	49	19.98	20.18	20.02	21	3		
20	25QAM	1	99	19.89	19.93	19.97				
20	25QAM	50	0	19.92	20.00	19.97				
20	25QAM	50	24	19.95	19.98	19.97	21	3		
20	25QAM	50	99	19.82	19.84	19.87				
20	25QAM	100	0	19.85	19.90	19.85				
20	25QAM	100	24	19.15	19.30	19.15				
20	25QAM	100	99	19.85	19.88	19.87	21	3		
20	25QAM	200	0	19.85	19.90	19.85				
20	25QAM	200	24	19.15	19.30	19.15				
20	25QAM	200	99	19.85	19.88	19.87	21	3		
20	25QAM	400	0	19.85	19.90	19.85				
20	25QAM	400	24	19.15	19.30	19.15				
20	25QAM	400	99	19.85	19.88	19.87	21	3		
20	25QAM	800	0	19.85	19.90	19.85				
20	25QAM	800	24	19.15	19.30	19.15				
20	25QAM	800	99	19.85	19.88	19.87	21	3		
20	25QAM	1600	0	19.85	19.90	19.85				
20	25QAM	1600	24	19.15	19.30	19.15				
20	25QAM	1600	99	19.85	19.88	19.87	21	3		
20	25QAM	3200	0	19.85	19.90	19.85				
20	25QAM	3200	24	19.15	19.30	19.15				
20	25QAM	3200	99	19.85	19.88	19.87	21	3		
20	25QAM	6400	0	19.85	19.90	19.85				
20	25QAM	6400	24	19.15	19.30	19.15				
20	25QAM	6400	99	19.85	19.88	19.87	21	3		
20	25QAM	12800	0	19.85	19.90	19.85				
20	25QAM	12800	24	19.15	19.30	19.15				
20	25QAM	12800	99	19.85	19.88	19.87	21	3		
20	25QAM	25600	0	19.85	19.90	19.85				
20	25QAM	25600	24	19.15	19.30	19.15				
20	25QAM	25600	99	19.85	19.88	19.87	21	3		
20	25QAM	51200	0	19.85	19.90	19.85				
20	25QAM	51200	24	19.15	19.30	19.15				
20	25QAM	51200	99	19.85	19.88	19.87	21	3		
20	25QAM	102400	0	19.85	19.90	19.85				
20	25QAM	102400	24	19.15	19.30	19.15				
20	25QAM	102400	99	19.85	19.88	19.87	21	3		
20	25QAM	204800	0	19.85	19.90	19.85				
20	25QAM	204800	24	19.15	19.30	19.15				
20	25QAM	204800	99	19.85	19.88	19.87	21	3		
20	25QAM	409600	0	19.85	19.90	19.85				
20	25QAM	409600	24	19.15	19.30	19.15				
20	25QAM	409600	99	19.85	19.88	19.87	21	3		
20	25QAM	819200	0	19.85	19.90	19.85				
20	25QAM	819200	24	19.15	19.30	19.15				
20	25QAM	819200	99	19.85	19.88	19.87	21	3		
20	25QAM	1638400	0	19.85	19.90	19.85				
20	25QAM	1638400	24	19.15	19.30	19.15				
20	25QAM	1638400	99	19.85	19.88	19.87	21	3		
20	25QAM	3276800	0	19.85	19.90	19.85				
20	25QAM	3276800	24	19.15	19.30	19.15				
20	25QAM	3276800	99	19.85	19.88	19.87	21	3		
20	25QAM	6553600	0	19.85	19.90	19.85				
20	25QAM	6553600	24	19.15	19.30	19.15				
20	25QAM	6553600	99	19.85	19.88	19.87	21	3		
20	25QAM	13107200	0	19.85	19.90	19.85				
20	25QAM	13107200	24	19.15	19.30	19.15				
20	25QAM	13107200	99	19.85	19.88	19.87	21	3		
20	25QAM	26214400	0	19.85	19.90	19.85				
20	25QAM	26214400	24	19.15	19.30	19.15				
20	25QAM	26214400	99	19.85	19.88	19.87	21	3		
20	25QAM	52428800	0	19.85	19.90	19.85				
20	25QAM	52428800	24	19.15	19.30	19.15				
20	25QAM	52428800	99	19.85	19.88	19.87	21	3		
20	25QAM	104857600	0	19.85	19.90	19.85				
20	25QAM	104857600	24	19.15	19.30	19.15				
20	25QAM	104857600	99	19.85	19.88	19.87	21	3		
20	25QAM	209715200	0	19.85	19.90	19.85				
20	25QAM	209715200	24	19.15	19.30	19.15				
20	25QAM	209715200	99	19.85	19.88	19.87	21	3		
20	25QAM	419430400	0	19.85	19.90	19.85				
20	25QAM	419430400	24	19.15	19.30	19.15				
20	25QAM	419430400	99	19.85	19.88	19.87	21	3		
20	25QAM	838860800	0	19.85	19.90	19.85				
20	25QAM	838860800	24	19.15	19.30	19.15				
20	25QAM	838860800	99	19.85	19.88	19.87	21	3		
20	25QAM	1677721600	0	19.85	19.90	19.85				
20	25QAM	1677721600	24	19.15	19.30	19.15				
20	25QAM	1677721600	99	19.85	19.88	19.87	21	3		
20	25QAM	3355443200	0	19.85	19.90	19.85				
20	25QAM	3355443200	24	19.15	19.30	19.15				
20	25QAM	3355443200	99	19.85	19.88	19.87	21	3		
20	25QAM	6710886400	0	19.85	19.90	19.85				
20	25QAM	6710886400	24	19.15	19.30	19.15				
20	25QAM	6710886400	99	19.85	19.88	19.87	21	3		
20	25QAM	13421772800	0	19.85	19.90	19.85				
20	25QAM	13421772800	24	19.15	19.30	19.15				
20	25QAM	13421772800	99	19.85	19.88	19.87	21	3		
20	25QAM	26843545600	0	19.85	19.90	19.85				
20	25QAM	26843545600	24	19.15	19.30	19.15				
20	25QAM	26843545600	99	19.85	19.88	19.87	21	3		
20	25QAM	53687091200	0	19.85	19.90	19.85				
20	25QAM	53687091200	24	19.15	19.30	19.15				
20	25QAM	53687091200	99	19.85	19.88	19.87	21	3		
20	25QAM	107374182400	0	19.85	19.90	19.85				
20	25QAM	107374182400	24	19.15	19.30	19.15				
20	25QAM	107374182400	99	19.85	19.88	19.87	21	3		
20	25QAM	214748364800	0	19.85	19.90	19.85				
20	25QAM	214748364800	24	19.15	19.30	19.15				
20	25QAM	214748364800	99	19.85	19.88	19.87	21	3		
20	25QAM	429496729600	0	19.85	19.90	19.85				
20	25QAM	429496729600	24	19.15	19.30	19.15				
20	25QAM	4294								



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	21.54	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	20.63	20.75	20.56	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	20.68	20.48	21.5	0.9		
30	25GQAM	1	0	18.57	18.78	18.56	19.5	2.9		
30	25GQAM	1	49	18.54	18.58	18.50	19.5	2.9		
30	25GQAM	1	99	18.46	18.58	18.50	19.5	2.9		
30	25GQAM	50	0	18.62	18.77	18.60	19.5	2.9		
30	25GQAM	50	24	18.58	18.62	18.54	19.5	2.9		
30	25GQAM	50	49	18.45	18.56	18.48	19.5	2.9		
30	25GQAM	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	21.31	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	21.31	21.31	22.4	0		
15	HQAM	1	74	21.15	21.30	21.10	22.4	0		
15	HQAM	36	0	21.40	21.41	21.41	22.4	0		
15	HQAM	36	20	21.38	21.38	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	20.69	20.55	21.5	0.9		
15	HQAM	36	20	20.45	20.47	20.49	21.5	0.9		
15	HQAM	36	39	20.46	20.45	20.43	21.5	0.9		
15	HQAM	75	0	20.48	20.45	20.43	21.5	0.9		
15	25GQAM	1	0	18.45	18.70	18.53	19.5	2.9		
15	25GQAM	1	49	18.45	18.66	18.53	19.5	2.9		
15	25GQAM	1	99	18.39	18.44	18.41	19.5	2.9		
15	25GQAM	50	0	18.50	18.62	18.47	19.5	2.9		
15	25GQAM	50	24	18.45	18.45	18.45	19.5	2.9		
15	25GQAM	50	49	18.50	18.62	18.47	19.5	2.9		
15	25GQAM	100	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	21.10	22.4	0		
10	QPSK	25	25	21.23	21.44	21.03	22.4	0		
10	QPSK	50	0	21.33	21.48	21.31	22.4	0		
10	HQAM	1	0	21.33	21.81	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	HQAM	50	0	18.50	18.67	18.51	19.5	2.9		
10	25GQAM	1	0	18.50	18.72	18.46	19.5	2.9		
10	25GQAM	1	49	18.34	18.51	18.46	19.5	2.9		
10	25GQAM	25	0	18.51	18.67	18.57	19.5	2.9		
10	25GQAM	25	12	18.46	18.57	18.44	19.5	2.9		
10	25GQAM	25	25	18.52	18.50	18.38	19.5	2.9		
10	25GQAM	50	0	18.49	18.67	18.40	19.5	2.9		
10	25GQAM	50	24	18.46	18.46	18.46	19.5	2.9		
10	25GQAM	50	49	18.46	18.61	18.40	19.5	2.9		
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.60	21.48	21.40	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	QPSK	25	0	21.30	21.27	21.10	22.4	0		
5	HQAM	1	0	21.36	21.51	21.41	22.4	0		
5	HQAM	1	12	21.47	21.37	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	21.36	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	25GQAM	1	0	18.53	18.74	18.53	19.5	2.9		
5	25GQAM	1	12	18.41	18.74	18.51	19.5	2.9		
5	25GQAM	1	24	18.41	18.67	18.40	19.5	2.9		
5	25GQAM	12	0	18.50	18.40	18.46	19.5	2.9		
5	25GQAM	12	13	18.39	18.63	18.41	19.5	2.9		
5	25GQAM	25	0	18.46	18.61	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	21.63	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	21.25	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	21.33	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	50	24	21.11	21.21	21.17	22.4	0		
20	HQAM	50	49	21.09	21.09	21.18	22.4	0		
20	HQAM	100	0	21.24	21.19	21.35	22.4	0		
20	HQAM	100	0	21.24	21.23	21.39	22.4	0		
20	HQAM	1	49	21.22	21.17	21.28	22.4	0		
20	HQAM	1	99	21.15	21.10	21.30	22.4	0		
20	HQAM	50	0	20.35	20.70	20.54	20.8	0.4		
20	HQAM	50	24	20.72	20.68	20.77	20.79	0.86		
20	HQAM	50	49	20.62	20.70	20.75	20.73	0.86		
20	HQAM	100	0	20.73	20.84	20.87	20.81	0.83		
20	25GQAM	1	0	18.80	18.83	18.99	18.86	18.81		
20	25GQAM	1	49	18.84	18.82	18.99	18.84	18.94		
20	25GQAM	1	99	18.79	18.68	18.82	18.81	18.72		
20	25GQAM	50	0	18.85	18.85	18.97</				



Band 41 PC2 FCC&IC Ant2										
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 Int (dBm)	MPE (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.15	23.15	23.15	23.15	23.15	24	0
20	QPSK	1	49	23.12	23.10	23.07	23.25	23.38		
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	24	0
20	QPSK	50	49	22.90	22.88	22.88	23.07	23.13		
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	24	0
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	22.98	23.10	23.22	22.99		
20	HQAM	50	24	22.85	23.04	23.30	22.97	23.00		
20	HQAM	50	49	22.92	22.78	23.01	22.96	22.90	24	0
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	1	49	23.20	23.24	23.24	23.35	23.29	24	0
20	HQAM	1	99	23.15	23.45	23.45	23.29	23.20		
20	HQAM	50	0	22.92	22.94	23.13	23.01	22.96		
20	HQAM	50	24	22.81	22.92	22.94	22.95	22.99	24	0
20	HQAM	50	49	22.88	22.85	22.81	22.92	22.93		
20	HQAM	100	0	22.99	22.94	23.10	23.19	23.07		
20	HQAM	100	0	22.99	22.94	23.10	23.19	23.07		
20	256QAM	1	0	21.69	21.81	21.95	21.76	21.81	23	1
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	23	1
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	23.15	23.17	23.13	23.10	23.15	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	36	0	23.02	23.18	23.10	23.07	23.27		
15	QPSK	36	20	22.83	22.95	22.95	23.09	22.92	24	0
15	QPSK	36	39	22.83	22.89	22.92	23.17	22.98		
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	24	0
15	HQAM	1	37	22.90	23.06	23.30	23.28	23.10		
15	HQAM	1	74	22.89	23.07	22.95	22.94	22.89		
15	HQAM	36	0	22.78	22.85	23.12	22.99	23.04		
15	HQAM	36	20	22.74	22.79	23.06	22.98	23.11	24	0
15	HQAM	36	39	22.78	22.73	23.09	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	23.30	23.30	23.40		
15	HQAM	1	37	23.05	23.18	23.12	23.34	23.28	24	0
15	HQAM	1	74	22.99	23.18	23.22	23.18	23.21		
15	HQAM	36	0	22.80	22.83	23.06	22.87	22.87		
15	HQAM	36	20	22.76	22.87	22.89	22.80	22.74	24	0
15	HQAM	36	39	22.80	22.80	23.01	22.89	22.89		
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	21.66	23	1
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	36	0	21.50	21.54	21.68	21.59	21.52		
15	256QAM	36	20	21.31	21.44	21.48	21.40	21.38	23	1
15	256QAM	36	39	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	23.30	23.26	23.29	24.00	0
10	QPSK	1	25	23.17	23.37	23.38	23.25	22.99		
10	QPSK	1	49	22.99	22.99	23.18	22.84	23.18		
10	QPSK	12	0	23.16	23.30	23.30	23.16	23.18		
10	QPSK	25	12	22.92	22.83	23.12	22.84	22.99	24	0
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	22.90		
10	HQAM	1	0	22.88	23.24	23.10	23.10	23.31	24	0
10	HQAM	1	25	23.08	22.89	23.11	23.09	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	24	0
10	HQAM	25	25	22.84	22.84	23.06	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	49	23.17	23.17	23.10	23.24	23.22	24	0
10	HQAM	25	12	22.79	22.84	22.91	22.98	22.88	24	0
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	23	1
10	256QAM	1	25	21.69	21.63	21.86	21.76	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	23	1
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	24	0
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	24	0
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	24	0
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	23.32	23.28	23.30	24	0
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	23.03		
5	HQAM	12	7	22.85	22.96	22.91	22.92	22.83	24	0
5	HQAM	12	13	22.67	22.78	22.87	22.87	22.67		
5	HQAM	25	0	22.82	22.89	22.97	22.90	22.90		
5	256QAM	1	0	21.57	21.77	21.81	21.62	21.67	23	1
5	256QAM	1	12	21.58	21.69	21.91	21.67	21.67		
5	256QAM	1	24	21.54	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	21.41	23	1
5	256QAM	12	13	21.23	21.41	21.42	21.43	21.37		
5	256QAM	25	0	21.38	21.60	21.72	21.55	21.51		

Band 48 Default Ant2										
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 Int (dBm)	MPE (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.19	20.41	20.41	20.41	20.43	21	0
20	QPSK	1	49	20.17	20.43	20.35	20.35	20.30		
20	QPSK	1	99	20.15	20.38	20.35	20.27	20.26		
20	QPSK	50	0	20.33	20.48	20.38	20.39	20.39		
20	QPSK	50	24	20.23	20.31	20.33	20.33	20.28	21	0
20	QPSK	50	49	20.24	20.29	20.30	20.29	20.23		
20	QPSK	100	0	20.26	20.42	20.34	20.34	20.31		
20	HQAM	1	0	20.28	20.43	20.26	20.26	20.32	21	0
20	HQAM	1	49	20.23	20.29	20.25	20.25	20.11		
20	HQAM	1	99	20.22	20.29	20.20	20.17	20.17		
20	HQAM	50	0	20.09	20.22	20.10	20.08	20.08	20.5	0.5
20	HQAM	50	24	20.01	20.09	20.06	20.05	20.03		
20	HQAM	50	49	19.91	20.00	19.99	19.96	19.96	20.5	0.5
20	HQAM	100	0	20.04	20.19	20.05	20.04	20.04		
20	HQAM	100	0	20.05	20.15	20.07	20.07	20.04		
20	HQAM	1	49	19.92	20.03	19.92	19.93	19.83	20.5	0.5
20	HQAM	1	99							



SN	GSN/500 Awt	Best Average Power (dBm)			Tuneup Limit	Frame-Average Power (dBm)			Tuneup Limit
		812	861	810		812	861	810	
<b>WCDMA I Awt</b>									
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	24.00
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	24.43	23.49	24.00	17.33	17.43	17.48	18.00
EDGE 3 Tx Wrt		22.21	22.25	22.25	23.50	17.25	18.00	17.99	19.24
EDGE 4 Tx Wrt		20.13	20.18	20.08	21.00	17.13	17.18	17.08	18.00
<b>WCDMA II Awt</b>									
Best		WCDMA II			WCDMA IV			Tuneup	
TX Channel		882	930	882	Limit	882	930	882	Limit
Frequency (MHz)		5882	5930	5882	(dBm)	5882	5930	5882	(dBm)
SOPF Rel (g)		22.56	23.02	23.00	24.00	22.54	22.98	22.97	24.00
SOPF Rel (g)	RMG 12 2Mbps	23.05	23.07	22.92	24.00	22.89	23.03	22.84	24.00
SOPF Rel (g)	HEIPA Subarea 1	21.95	22.14	22.11	23.00	21.81	22.04	21.94	23.00
SOPF Rel (g)	HEIPA Subarea 2	22.84	22.17	21.92	23.00	21.83	22.07	21.84	23.00
SOPF Rel (g)	HEIPA Subarea 3	21.54	21.59	21.57	22.00	21.52	21.59	21.44	22.00
SOPF Rel (g)	HEIPA Subarea 4	21.48	21.60	21.60	22.00	21.43	21.60	21.50	22.00
SOPF Rel (g)	DC-HEIPA Subarea 1	22.08	22.17	21.98	23.00	21.95	22.09	21.95	23.00
SOPF Rel (g)	DC-HEIPA Subarea 2	21.99	22.13	22.18	23.00	21.91	22.07	22.07	23.00
SOPF Rel (g)	DC-HEIPA Subarea 3	21.37	21.57	21.48	22.00	21.28	21.46	21.34	22.00
SOPF Rel (g)	DC-HEIPA Subarea 4	21.81	21.91	21.84	22.00	21.80	21.85	21.71	22.00
SOPF Rel (g)	HEIPA Subarea 1	22.88	22.31	21.97	23.00	22.04	22.24	21.84	23.00
SOPF Rel (g)	HEIPA Subarea 2	22.23	22.14	22.17	23.00	22.28	22.07	22.04	23.00
SOPF Rel (g)	HEIPA Subarea 3	21.20	21.08	21.03	22.00	21.10	20.98	20.97	22.00
SOPF Rel (g)	HEIPA Subarea 4	18.98	20.25	20.22	21.00	19.84	20.19	20.08	21.00
SOPF Rel (g)	HEIPA Subarea 5	22.03	22.04	21.94	23.00	21.90	21.90	21.89	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	22.63				
20	QPSK	50	0	22.49	22.67	22.63				
20	QPSK	50	24	22.41	22.58	22.59	24	0		
20	QPSK	50	50	22.38	22.47	22.38				
20	QPSK	100	0	22.45	22.60	22.41				
20	QPSK	100	24	22.49	22.58	22.49	24	0		
20	QPSK	100	49	22.36	22.45	22.41				
20	HQAM	1	0	22.38	22.44	22.37				
20	HQAM	1	49	22.38	22.44	22.44	24	0		
20	HQAM	50	24	22.38	22.37	22.31				
20	HQAM	50	50	22.32	22.39	22.31				
20	HQAM	100	0	22.38	22.49	22.32				
20	HQAM	100	0	22.29	22.47	22.31				
20	HQAM	1	49	22.29	22.29	22.29	24	0		
20	HQAM	1	99	22.28	22.48	22.29				
20	HQAM	50	24	22.28	22.34	22.29	24	0		
20	HQAM	50	50	22.42	22.46	22.38				
20	HQAM	100	0	22.42	22.46	22.38				
20	HQAM	100	0	22.29	22.47	22.31				
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	24	19.23	19.39	19.36	21	3		
20	HQAM	50	50	19.25	19.35	19.32				
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	22.82	22.98	22.92	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	20	22.27	22.44	22.27				
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	22.17	22.37	22.21				
15	HQAM	36	0	22.14	22.39	22.21	24	0		
15	HQAM	36	20	22.20	22.30	22.17				
15	HQAM	75	0	22.28	22.34	22.29				
15	HQAM	75	0	22.15	22.38	22.21	23	1		
15	HQAM	1	37	19.39	19.20	19.40	21	3		
15	HQAM	1	74	19.33	19.30	19.26				
15	HQAM	36	20	19.23	19.25	19.26	21	3		
15	HQAM	36	20	19.14	19.23	19.20				
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	22.49	22.34				
10	HQAM	1	0	22.29	22.49	22.37				
10	HQAM	1	25	22.24	22.33	22.30	24	0		
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	22.28				
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	HQAM	1	0	19.36	19.31	19.27	21	3		
10	HQAM	1	25	19.38	19.27	19.34				
10	HQAM	1	49	19.27	19.31	19.27				
10	HQAM	25	0	19.25	19.46	19.28	21	3		
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	19.34	19.29				
Channel										
	Frequency (MHz)			1862.5	1890	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	22.44				
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	22.43	22.37				
5	HQAM	1	0	22.31	22.45	22.33				
5	HQAM	1	12	22.31	22.42	22.28	24	0		
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	22.23	22.23	22.28	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	19.39	19.39	21	3		
5	HQAM	1	12	19.43	19.52	19.42				
5	HQAM	1	24	19.26	19.33	19.29				
5	HQAM	12	0	19.28	19.42	19.33	21	3		
5	HQAM	12	7	19.28	19.33	19.29				
5	HQAM	12	13	19.13	19.29	19.28	21	3		
5	HQAM	25	0	19.29	19.38	19.48				
Channel										
	Frequency (MHz)			1861.5	1890	1918.5	Turn-up time (min)	MPE (dB)		
3	QPSK	1	0	22.51	22.66	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	22.37				
3	HQAM	1	0	22.32	22.53	22.41				
3	HQAM	1	8	22.26	22.36	22.29	24	0		
3	HQAM	1	14	22.18	22.30	22.20				
3	HQAM	8	0	22.28	22.43	22.34				
3	HQAM	8	4	22.31	22.31	22.27	24	0		
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					



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 limit (dBm)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.60	22.70	22.72				
10	QPSK	1	0	22.60	22.68	22.68			24	0
10	QPSK	1	99	22.36	22.55	22.55				
10	QPSK	50	0	22.50	22.60	22.47				
10	QPSK	50	24	22.39	22.49	22.47			24	0
10	QPSK	50	50	22.39	22.49	22.45				
10	QPSK	100	0	22.49	22.52	22.53				
10	QPSK	100	0	22.45	22.50	22.47				
10	16QAM	1	49	22.35	22.42	22.38			24	0
10	16QAM	1	99	22.39	22.44	22.38				
10	16QAM	50	0	22.37	22.38	22.37				
10	16QAM	50	24	22.40	22.45	22.42			24	0
10	16QAM	50	50	22.34	22.38	22.34				
10	16QAM	100	0	22.47	22.51	22.46				
10	16QAM	1	0	22.39	22.52	22.46				
10	16QAM	1	49	22.35	22.40	22.32			24	0
10	16QAM	1	99	22.39	22.43	22.38				
10	16QAM	50	0	21.45	21.56	21.45				
10	16QAM	50	24	21.38	21.38	21.38			23	1
10	16QAM	50	50	21.36	21.38	21.34				
10	16QAM	100	0	21.59	21.64	21.57				
10	16QAM	1	0	18.41	18.65	18.63				
10	16QAM	1	49	18.43	18.65	18.47			21	3
10	256QAM	1	99	19.44	19.42	19.40				
10	256QAM	50	0	19.37	19.38	19.37				
10	256QAM	50	24	19.38	19.46	19.41			21	3
10	256QAM	50	50	19.42	19.40	19.39				
10	256QAM	100	0	19.44	19.44	19.44				
Channel										
Frequency (MHz)										
18	QPSK	1	0	22.50	22.59	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	36	0	22.38	22.62	22.37				
10	QPSK	36	25	22.30	22.31	22.41			24	0
10	QPSK	36	39	22.35	22.43	22.42				
10	QPSK	75	0	22.44	22.51	22.44				
10	16QAM	1	0	22.36	22.31	22.34				
10	16QAM	1	37	22.25	22.39	22.31			24	0
10	16QAM	1	74	22.16	22.29	22.23				
10	16QAM	36	0	22.26	22.53	22.29				
10	16QAM	36	25	22.32	22.33	22.33			24	0
10	16QAM	36	39	22.36	22.39	22.33				
10	16QAM	75	0	22.34	22.58	22.43				
10	16QAM	1	0	22.30	22.42	22.38			24	0
10	16QAM	1	37	22.20	22.39	22.32				
10	16QAM	1	74	22.22	22.24	22.13				
10	16QAM	36	0	21.34	21.52	21.34			23	1
10	16QAM	36	25	21.36	21.38	21.38				
10	16QAM	36	39	21.18	21.13	21.21				
10	16QAM	75	0	21.62	21.68	21.54				
10	256QAM	1	0	19.37	19.33	19.38				
10	256QAM	1	37	19.40	19.61	19.37			21	3
10	256QAM	1	74	19.30	19.38	19.36				
10	256QAM	36	0	19.42	19.41	19.41				
10	256QAM	36	25	19.29	19.43	19.29			21	3
10	256QAM	36	39	19.34	19.35	19.28				
10	256QAM	75	0	19.41	19.43	19.41				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.60	22.68	22.68				
10	QPSK	1	25	22.35	22.52	22.44			24	0
10	QPSK	1	49	22.26	22.47	22.47				
10	QPSK	12	0	22.48	22.46	22.44				
10	QPSK	25	12	22.26	22.37	22.40			24	0
10	QPSK	25	25	22.30	22.35	22.38				
10	QPSK	50	0	22.39	22.45	22.39				
10	16QAM	1	0	22.39	22.45	22.39				
10	16QAM	1	24	22.25	22.37	22.29			24	0
10	16QAM	1	49	22.26	22.39	22.33				
10	16QAM	1	74	22.24	22.32	22.29				
10	16QAM	25	0	22.34	22.52	22.29				
10	16QAM	25	12	22.26	22.36	22.38			24	0
10	16QAM	25	25	22.28	22.35	22.29				
10	16QAM	50	0	22.33	22.52	22.34				
10	16QAM	1	0	22.39	22.42	22.33			24	0
10	16QAM	1	37	22.23	22.33	22.21				
10	16QAM	1	49	22.15	22.23	22.14				
10	16QAM	25	0	21.37	21.45	21.35			23	1
10	16QAM	25	12	21.34	21.40	21.29				
10	16QAM	25	25	21.52	21.20	21.45				
10	16QAM	50	0	21.54	21.54	21.45				
10	16QAM	50	0	19.48	19.43	19.43				
10	256QAM	1	25	19.38	19.59	19.44			21	3
10	256QAM	1	49	19.35	19.35	19.35				
10	256QAM	12	0	19.32	19.38	19.38				
10	256QAM	25	12	19.32	19.33	19.33			21	3
10	256QAM	25	25	19.37	19.28	19.25				
10	256QAM	50	0	19.41	19.47	19.47				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.60	22.68	22.68				
5	QPSK	1	12	22.42	22.57	22.40			24	0
5	QPSK	1	24	22.25	22.46	22.41				
5	QPSK	12	0	22.30	22.46	22.44				
5	QPSK	12	7	22.30	22.46	22.38			24	0
5	QPSK	12	13	22.26	22.44	22.38				
5	QPSK	25	0	22.48	22.55	22.47				
5	16QAM	1	0	22.29	22.48	22.40				
5	16QAM	1	12	22.21	22.39	22.24			24	0
5	16QAM	12	0	22.24	22.49	22.42				
5	16QAM	12	7	22.57	22.58	22.52			24	0
5	16QAM	12	13	22.48	22.53	22.48				
5	16QAM	25	0	22.01	22.55	22.47				
5	16QAM	25	0	22.06	22.64	22.59				
5	16QAM	1	0	22.08	22.73	22.74			24	0
5	16QAM	1	12	22.01	22.68	22.61				
5	16QAM	1	24	22.43	22.53	22.42				
5	16QAM	12	0	21.88	21.69	21.69			23	1
5	16QAM	12	7	21.65	21.61	21.61				
5	16QAM	12	13	21.53	21.52	21.43				
5	16QAM	25	0	21.62	21.67	21.63				
5	16QAM	1	0	19.74	19.76	19.75			21	3
5	256QAM	1	24	19.62	19.63	19.64				
5	256QAM	12	0	19.74	19.71	19.64				
5	256QAM	12	7	19.58	19.54	19.58			21	3
5	256QAM	12	13	19.59	19.46	19.47				
5	256QAM	25	0	19.79	19.68	19.67				

Band 30 Default Ant3										
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)										
10	QPSK	1	0	22.56	22.71	22.72				
10	QPSK	1	0	22.56	22.71	22.72			24	0
10	QPSK	1	49	22.77	22.77	22.77				
10	QPSK	25	0	22.91	22.91	22.91			24	0
10	QPSK	25	12	22.83	22.83	22.83				
10	QPSK	25	25	22.69	22.69	22.69				
10	QPSK	50	0	22.84	22.89	22.84				
10	QPSK	50	0	22.80	22.80	22.80				
10	16QAM	1	25	22.61	22.61	22.61				
10	16QAM	1	49	22.69	22.69	22.69			24	0
10	16QAM	25	0	22.52	22.52	22.52				
10	16QAM	25	12	22.56	22.56	22.56				
10	16QAM	25	25	22.59	22.59	22.59			23	1
10	16QAM									



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	1	49	22.17	22.08	22.04	23.6	0.1		
30	HQAM	1	99	21.80	22.08	21.80	23.6	0.1		
30	HQAM	50	0	21.80	22.01	21.90	23.6	0.1		
30	HQAM	50	24	21.82	21.80	21.80	23.6	0.1		
30	HQAM	50	49	21.72	21.88	21.78	23.6	0.1		
30	HQAM	100	0	21.97	22.01	21.91	23.6	0.1		
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	1	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	23.6	0.1		
15	HQAM	36	20	21.83	21.81	21.87	23.6	0.1		
15	HQAM	36	39	21.84	21.83	21.80	23.6	0.1		
15	HQAM	75	0	21.83	21.95	21.78	23.6	0.1		
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	22.10	22.23	22.16	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	QPSK	50	0	21.88	22.03	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	21.85	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	23.6	0.1		
10	HQAM	25	12	21.78	21.81	21.87	23.6	0.1		
10	HQAM	25	25	21.84	21.75	21.84	23.6	0.1		
10	HQAM	50	0	21.86	21.91	21.88	23.6	0.1		
10	HQAM	50	0	19.73	19.91	19.75	20.6	3.1		
10	25QAM	1	0	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	21.88	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	22.40	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	QPSK	25	0	22.01	22.11	22.10	23.7	0		
5	HQAM	1	0	21.80	21.95	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	21.85	23.7	0		
5	HQAM	12	0	21.97	22.20	22.21	23.6	0.1		
5	HQAM	12	7	21.86	22.01	22.02	23.6	0.1		
5	HQAM	12	13	21.79	21.84	21.90	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	22.10	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	23.6	0.1		
5	HQAM	12	7	21.71	21.80	21.86	23.6	0.1		
5	HQAM	12	13	21.59	21.78	21.73	23.6	0.1		
5	HQAM	25	0	21.85	21.98	21.78	23.6	0.1		
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	19.75	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	19.80	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	22.29	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	1	49	21.83	21.55	21.69	23.7	0		
20	HQAM	1	99	21.80	21.60	21.57	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	18.30	18.54		
20	25QAM	50	24	18.41	18.48	18.51	18.43	18.38		
20	25QAM	50	49	18.43	18.35	18.49	18.38	18.42		
20	25QAM	100	0	18.50	18.46	18.50	18.35	18.48		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.41	22.43	22.43				





Band 41 PC2_Standalone FCC&IC 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)	MPE (dB)
Channel											
Frequency (MHz)											
50	QPSK	1	0	23.97	24.04	23.97	24.04	23.97	24.04	25.3	0
50	QPSK	1	49	23.79	23.85	23.89	23.85	23.74	23.74		
50	QPSK	1	99	23.70	23.88	23.89	23.89	23.79	23.79		
50	QPSK	50	0	23.58	23.61	23.74	23.64	23.52	23.52		
50	QPSK	50	24	23.52	23.47	23.64	23.62	23.45	23.45		
50	QPSK	50	49	23.57	23.62	23.62	23.62	23.57	23.57		
50	QPSK	100	0	23.47	23.57	23.61	23.52	23.44	23.44		
50	HQAM	1	0	23.74	23.84	23.84	23.82	23.74	23.74	25.3	0
50	HQAM	1	49	23.71	23.81	23.82	23.73	23.59	23.59		
50	HQAM	1	99	23.82	23.89	23.77	23.71	23.59	23.59		
50	HQAM	50	0	23.55	23.61	23.76	23.69	23.59	23.59		
50	HQAM	50	24	23.49	23.54	23.62	23.60	23.45	23.45		
50	HQAM	50	50	23.42	23.59	23.62	23.48	23.42	23.42		
50	HQAM	100	0	23.54	23.54	23.79	23.55	23.49	23.49		
50	HQAM	100	0	23.51	23.57	23.57	23.71	23.55	23.55		
50	HQAM	100	49	23.68	23.73	23.86	23.75	23.58	23.58		
50	HQAM	100	99	23.85	23.84	23.83	23.66	23.46	23.46		
50	HQAM	50	0	23.75	23.87	23.82	23.79	23.70	23.70		
50	HQAM	50	24	23.66	23.79	23.82	23.71	23.62	23.62		
50	HQAM	50	50	23.50	23.60	23.70	23.67	23.61	23.61		
50	HQAM	100	0	23.72	23.84	23.83	23.77	23.64	23.64		
50	256QAM	1	0	22.23	22.32	22.45	22.29	22.23	22.23	23	2.3
50	256QAM	1	49	22.22	22.24	22.42	22.29	22.21	22.21		
50	256QAM	1	99	22.06	22.17	22.21	22.21	22.17	22.17		
50	256QAM	50	0	22.11	22.11	22.24	22.16	22.07	22.07		
50	256QAM	50	24	22.05	22.06	22.08	22.12	22.09	22.09		
50	256QAM	50	50	21.91	22.04	22.11	22.02	21.99	21.99		
50	256QAM	100	0	22.02	22.02	22.16	22.07	22.00	22.00		
Channel											
Frequency (MHz)											
15	QPSK	1	0	23.73	23.73	23.90	23.77	23.73	23.73	25	0
15	QPSK	1	37	23.74	23.81	23.81	23.80	23.81	23.81		
15	QPSK	1	74	23.60	23.65	23.67	23.81	23.61	23.61		
15	QPSK	38	0	23.49	23.67	23.67	23.68	23.48	23.48		
15	QPSK	38	20	23.48	23.35	23.50	23.59	23.38	23.38		
15	QPSK	38	38	23.45	23.48	23.57	23.61	23.42	23.42		
15	HQAM	1	0	23.68	23.82	23.89	23.77	23.69	23.69		
15	HQAM	1	37	23.57	23.68	23.66	23.79	23.46	23.46		
15	HQAM	1	74	23.51	23.61	23.63	23.62	23.47	23.47		
15	HQAM	38	0	23.51	23.63	23.68	23.35	23.49	23.49		
15	HQAM	38	20	23.41	23.47	23.47	23.62	23.33	23.33		
15	HQAM	38	38	23.31	23.44	23.50	23.40	23.39	23.39		
15	HQAM	75	0	23.40	23.50	23.74	23.51	23.37	23.37		
15	HQAM	75	0	23.50	23.63	23.69	23.60	23.41	23.41		
15	HQAM	1	37	23.59	23.82	23.84	23.65	23.55	23.55		
15	HQAM	1	74	23.39	23.52	23.52	23.38	23.35	23.35		
15	HQAM	38	0	23.67	23.57	23.65	23.76	23.47	23.47		
15	HQAM	38	20	23.55	23.68	23.79	23.83	23.54	23.54		
15	HQAM	38	38	23.49	23.60	23.60	23.76	23.48	23.48		
15	HQAM	75	0	23.66	23.80	23.70	23.69	23.51	23.51		
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	22.30	22.25	22.14	22.14		
15	256QAM	1	74	22.00	22.00	22.18	22.18	22.06	22.06		
15	256QAM	38	0	21.97	22.00	22.17	22.11	21.93	21.93		
15	256QAM	38	20	21.84	22.05	22.05	21.86	21.85	21.85		
15	256QAM	38	38	21.83	21.90	22.07	21.93	21.83	21.83		
15	256QAM	75	0	21.88	22.08	22.22	22.01	21.85	21.85		
Channel											
Frequency (MHz)											
10	QPSK	1	0	23.71	23.71	23.84	23.70	23.71	23.71	25	0
10	QPSK	1	25	23.71	23.81	23.77	23.81	23.61	23.61		
10	QPSK	1	49	23.59	23.54	23.89	23.89	23.70	23.70		
10	QPSK	25	0	23.40	23.51	23.51	23.65	23.48	23.48		
10	QPSK	25	12	23.42	23.44	23.54	23.59	23.35	23.35		
10	QPSK	25	25	23.31	23.40	23.51	23.42	23.30	23.30		
10	HQAM	1	0	23.53	23.63	23.63	23.63	23.57	23.57		
10	HQAM	1	0	23.66	23.71	23.93	23.71	23.66	23.66		
10	HQAM	1	25	23.64	23.68	23.86	23.61	23.66	23.66		
10	HQAM	1	49	23.56	23.60	23.70	23.57	23.48	23.48		
10	HQAM	25	0	23.41	23.47	23.72	23.54	23.51	23.51		
10	HQAM	25	12	23.41	23.48	23.56	23.36	23.37	23.37		
10	HQAM	25	25	23.32	23.40	23.55	23.30	23.33	23.33		
10	HQAM	50	0	23.44	23.48	23.78	23.53	23.41	23.41		
10	HQAM	50	0	23.51	23.64	23.70	23.62	23.57	23.57		
10	HQAM	50	25	23.50	23.71	23.77	23.65	23.54	23.54		
10	HQAM	1	49	23.35	23.65	23.69	23.63	23.42	23.42		
10	HQAM	25	0	23.64	23.84	23.80	23.70	23.63	23.63		
10	HQAM	25	12	23.53	23.69	23.71	23.65	23.52	23.52		
10	HQAM	25	25	23.39	23.48	23.65	23.60	23.57	23.57		
10	HQAM	50	0	23.59	23.78	23.71	23.63	23.60	23.60		
10	256QAM	1	0	22.13	22.29	22.34	22.16	22.14	22.14	23	2.3
10	256QAM	1	25	22.15	22.13	22.36	22.14	22.14	22.14		
10	256QAM	1	49	21.99	22.05	22.34	22.15	22.05	22.05		
10	256QAM	25	0	22.07	22.01	22.17	22.11	22.03	22.03		
10	256QAM	25	12	21.90	22.09	22.09	21.87	21.90	21.90		
10	256QAM	25	25	21.85	21.97	22.02	21.95	21.81	21.81		
10	256QAM	50	0	21.84	22.05	22.27	22.00	21.87	21.87		
Channel											
Frequency (MHz)											
5	QPSK	1	0	23.76	23.76	24.00	23.87	23.87	23.87	25	0
5	QPSK	1	12	23.12	23.55	23.81	23.78	23.56	23.56		
5	QPSK	1	24	23.59	23.81	23.82	23.78	23.84	23.84		
5	QPSK	12	0	23.44	23.46	23.68	23.69	23.41	23.41		
5	QPSK	12	7	23.44	23.60	23.61	23.68	23.38	23.38		
5	QPSK	12	13	23.32	23.42	23.55	23.48	23.30	23.30		
5	QPSK	25	0	23.41	23.63	23.66	23.46	23.37	23.37		
5	HQAM	1	0	23.67	23.70	23.93	23.78	23.75	23.75		
5	HQAM	1	12	23.57	23.72	23.89	23.65	23.59	23.59		
5	HQAM	1	24	23.53	23.60	23.69	23.59	23.50	23.50		
5	HQAM	12	0	23.45	23.61	23.64	23.63	23.55	23.55		
5	HQAM	12	7	23.46	23.49	23.52	23.42	23.42	23.42		
5	HQAM	12	13	23.36	23.42	23.60	23.36	23.36	23.36		
5	HQAM	25	0	23.47	23.46	23.67	23.41	23.46	23.46		
5	HQAM	1	0	23.55	23.58	23.89	23.61	23.55	23.55		
5	HQAM	1	12	23.60	23.69	23.81	23.70	23.48	23.48		
5	HQAM	1	24	23.42	23.57	23.56	23.57	23.40	23.40		
5	HQAM	12	0	23.67	23.79	23.75	23.70	23.59	23.59		
5	HQAM	12	7	23.61	23.67	23.75	23.60	23.40	23.40		
5	HQAM	12	13	23.36	23.50	23.64	23.65	23.49	23.49		
5	HQAM	25	0	23.65	23.81	23.71	23.66	23.54	23.54		



Reduced Power Mode for DS16-Simultaneous

CDMA2000 2B												
Mode	Burst Average Power (dBm)			Frame Average Power (dBm)								
TX Channel	198	199	201	Limit	198	199	201	Limit				
Frequency (MHz)	895.2	895.4	895.6	(dBm)	895.2	895.4	895.6	(dBm)				
OPRS-1 Tx (all)	32.96	32.57	32.84	33.50	23.90	23.07	23.84	24.50				
OPRS-1 Tx (all)	26.48	26.48	26.41	33.50	23.83	23.84	23.81	24.50				
OPRS-2 Tx (all)	25.50	25.47	25.26	30.50	23.30	23.41	23.25	24.50				
OPRS-3 Tx (all)	28.01	28.50	28.86	30.00	24.65	24.72	24.60	25.14				
OPRS-4 Tx (all)	26.41	26.47	26.40	27.50	22.41	22.47	22.40	24.50				
EDGE-1 Tx (all)	25.42	26.40	26.37	28.50	18.42	18.40	18.37	17.50				
EDGE-2 Tx (all)	22.77	22.80	22.70	25.00	17.77	17.80	17.70	16.00				
EDGE-3 Tx (all)	22.86	22.60	22.62	23.50	18.40	18.43	18.38	18.24				
EDGE-4 Tx (all)	20.50	20.63	20.60	21.50	17.50	17.63	17.60	18.00				
CDMA2000 1X												
Mode	Burst Average Power (dBm)			Frame Average Power (dBm)								
TX Channel	199.2	199.0	199.8	Limit	199.2	199.0	199.8	Limit				
Frequency (MHz)	895.2	895.4	895.6	(dBm)	895.2	895.4	895.6	(dBm)				
OPRS-1 Tx (all)	27.54	27.63	27.58	28.50	18.54	18.63	18.58	19.50				
OPRS-2 Tx (all)	24.84	24.84	24.83	28.00	18.84	18.84	18.83	20.00				
OPRS-3 Tx (all)	23.30	23.30	23.30	24.50	19.07	19.07	19.07	20.00				
OPRS-4 Tx (all)	20.70	20.70	20.68	21.50	17.70	17.75	17.68	18.50				
EDGE-1 Tx (all)	22.76	22.61	22.73	25.50	13.76	13.67	13.73	14.00				
EDGE-2 Tx (all)	21.00	21.10	21.11	22.00	15.00	15.10	15.11	16.00				
EDGE-3 Tx (all)	24.00	24.12	24.04	21.00	18.41	18.56	18.38	18.74				
EDGE-4 Tx (all)	17.06	18.00	18.04	19.00	14.06	15.00	15.04	16.00				
WCDMA II (Rev)												
Mode	WCDMA II			WCDMA IV (Rev)			WCDMA V (Rev)					
TX Channel	9582	9600	9598	Limit	1412	1413	1513	Limit	4152	4162	4238	Limit
Frequency (MHz)	1852.4	1860	1867.6	(dBm)	1412.4	1413.6	1512.8	(dBm)	4152.4	4162.4	4238.8	(dBm)
ISPP (Rev)	20.57	20.65	20.53	22.00	20.30	20.47	20.38	22.00	22.43	22.47	22.40	24.00
ISPP (Rev)	19.72	19.76	19.70	21.00	19.59	19.68	19.50	21.00	21.55	21.69	21.48	23.00
ISPP (Rev)	19.06	19.71	19.65	21.00	19.00	19.50	19.52	21.00	21.46	21.00	21.54	23.00
ISPP (Rev)	19.19	19.25	19.23	20.50	19.00	19.11	19.08	20.50	21.01	21.14	21.04	22.50
ISPP (Rev)	19.15	19.20	19.21	20.50	18.96	19.10	19.05	20.50	20.98	21.04	21.06	22.50
ISPP (Rev)	19.70	19.65	19.64	21.00	19.54	19.68	19.48	21.00	21.55	21.72	21.42	23.00
ISPP (Rev)	19.06	19.50	19.41	21.00	19.38	19.40	19.32	21.00	21.34	21.42	21.32	23.00
ISPP (Rev)	19.08	19.12	19.05	20.50	19.02	19.03	18.99	20.50	20.95	20.93	20.95	22.50
ISPP (Rev)	19.02	19.15	19.12	20.50	18.90	18.99	19.61	20.50	20.89	21.00	21.03	22.50
ISPP (Rev)	19.86	19.71	19.70	21.00	19.93	19.83	19.81	21.00	21.63	21.88	21.67	23.00
ISPP (Rev)	17.71	17.73	17.84	19.00	17.54	17.60	17.51	19.00	19.57	19.63	19.50	21.00
ISPP (Rev)	18.56	18.29	18.70	21.00	18.52	18.80	18.58	21.00	21.02	20.94	20.85	22.50
ISPP (Rev)	17.61	17.60	17.57	19.00	17.44	17.51	17.48	19.00	19.45	19.52	19.43	21.00
ISPP (Rev)	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 Ant0										
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (min)	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	23.03	23.04	23.09				
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	22.94	23.04	22.96			24	0
20	QPSK	50	50	22.92	23.04	22.96				
20	QPSK	100	0	22.99	23.02	22.91				
20	QPSK	100	24	22.95	23.02	22.98				
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	22.65	22.82	22.74				
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	21.91				
20	QPSK	50	24	21.46	21.56	21.50			22.5	1.5
20	QPSK	50	50	21.42	21.48	21.35				
20	QPSK	100	0	21.43	21.38	21.38				
20	QPSK	100	24	19.82	19.88	19.85			20.5	3.5
20	QPSK	100	49	19.82	19.88	19.80				
20	QPSK	150	0	19.86	19.82	19.57				
20	QPSK	150	24	19.85	19.86	19.86				
20	QPSK	150	50	19.80	19.73	19.63			20.5	3.5
20	QPSK	150	99	19.70	19.81	19.78				
20	QPSK	150	149	19.87	19.87	19.87				
Channel	Frequency (MHz)	1897.5	1898	1902.5	Turn-up (min)	MPR (dB)				
15	QPSK	1	0	23.03	23.10	22.99				
15	QPSK	1	24	22.79	22.92	22.82			24	0
15	QPSK	1	74	22.81	22.96	22.83				
15	QPSK	36	0	22.87	22.99	22.90				
15	QPSK	36	24	22.81	22.92	22.87			24	0
15	QPSK	36	39	22.87	22.98	22.82				
15	QPSK	75	0	22.91	22.90	22.91				
15	QPSK	75	24	22.90	22.79	22.79				
15	QPSK	150	1	22.77	22.88	22.83			24	0
15	QPSK	150	1	22.77	22.88	22.83				
15	QPSK	150	74	22.80	22.95	22.86				
15	QPSK	150	36	22.80	22.95	22.86			23.5	0.5
15	QPSK	150	75	22.81	22.48	22.42				
15	QPSK	1	0	22.87	22.88	22.59			23.5	0.5
15	QPSK	1	24	22.82	22.82	22.82				
15	QPSK	1	74	22.42	22.42	22.34				
15	QPSK	36	0	21.56	21.67	21.49			22.5	1.5
15	QPSK	36	24	21.46	21.53	21.43				
15	QPSK	36	39	21.38	21.32	21.23				
15	QPSK	75	0	21.38	21.37	21.28				
15	QPSK	75	24	19.82	19.88	19.86			20.5	3.5
15	QPSK	75	39	19.82	19.82	19.77				
15	QPSK	150	1	19.82	19.51	19.42				
15	QPSK	150	74	19.85	19.85	19.85				
15	QPSK	150	36	19.86	19.75	19.50			20.5	3.5
15	QPSK	150	75	19.86	19.73	19.67				
15	QPSK	150	149	19.82	19.82	19.82				
Channel	Frequency (MHz)	1895	1896	1905	Turn-up (min)	MPR (dB)				
10	QPSK	1	0	22.87	22.88	22.81				
10	QPSK	1	24	22.87	22.88	22.81			24	0
10	QPSK	1	49	22.82	22.84	22.82				
10	QPSK	12	0	22.81	22.82	22.87				
10	QPSK	25	12	22.81	22.80	22.84			24	0
10	QPSK	25	25	22.80	22.89	22.89				
10	QPSK	50	0	22.88	22.89	22.89				
10	QPSK	50	24	22.88	22.89	22.89				
10	QPSK	100	1	22.88	22.90	22.89				
10	QPSK	100	24	22.79	22.91	22.86			24	0
10	QPSK	150	0	22.48	22.51	22.42				
10	QPSK	150	24	22.48	22.51	22.42				
10	QPSK	150	50	22.20	22.34	22.20			23.5	0.5
10	QPSK	150	74	22.20	22.34	22.20				
10	QPSK	150	75	22.20	22.34	22.20				
10	QPSK	1	0	22.28	22.41	22.37				
10	QPSK	1	49	22.82	22.78	22.80			23.5	0.5
10	QPSK	50	0	22.43	22.45	22.32				
10	QPSK	50	24	21.58	21.65	21.45			22.5	1.5
10	QPSK	50	49	21.52	21.38	21.28				
10	QPSK	100	0	21.51	21.39	21.27				
10	QPSK	100	24	19.77	19.78	19.89			20.5	3.5
10	QPSK	100	49	19.82	19.82	19.82				
10	QPSK	150	0	19.82	19.82	19.82				
10	QPSK	150	24	19.82	19.82	19.82				
10	QPSK	150	50	19.82	19.82	19.82				
10	QPSK	150	74	19.82	19.82	19.82				
10	QPSK	150	75	19.82	19.82	19.82				
10	QPSK	150	149	19.82	19.82	19.82				
10	QPSK	150	199	19.82	19.82	19.82				
Channel	Frequency (MHz)	1892.5	1890	1907.5	Turn-up (min)	MPR (dB)				
5	QPSK	1	0	22.88	22.95	22.74				
5	QPSK	1	24	22.80	22.95	22.94			24	0
5	QPSK	12	0	22.89	23.03	22.87				
5	QPSK	12	13	22.80	22.96	22.82			24	0
5	QPSK	12	28	22.88	22.92	22.82				
5	QPSK	12	7	22.89	23.03	22.87				
5	QPSK	150	1	22.91	22.88	22.83			24	0
5	QPSK	150	1	22.79	22.94	22.87				
5	QPSK	150	24	22.88	22.92	22.82				
5	QPSK	150	24	22.40	22.49	22.41				
5	QPSK	150	12	22.22	22.47	22.27			23.5	0.5
5	QPSK	150	12	22.21	22.27	22.14				
5	QPSK	150	24	22.26	22.38	22.27				
5	QPSK	1	0	22.59	22.65	22.64			23.5	0.5
5	QPSK	1	24	22.61	22.73	22.63				
5	QPSK	1	24	22.42	22.44	22.34				
5	QPSK	12	0	21.54	21.66	21.43			22.5	1.5
5	QPSK	12	13	21.31	21.47	21.42				
5	QPSK	12	19	21.29	21.42	21.29				
5	QPSK	25	0	21.30	21.44	21.29				
5	QPSK	25	12	19.74	19.87	19.67			20.5	3.5
5	QPSK	25	12	19.75	19.78	19.67				
5	QPSK	25	25	19.82	19.81	19.81				
5	QPSK	150	0	19.82	19.82	19.82				
5	QPSK	150	24	19.82	19.82	19.82				
5	QPSK	150	50	19.82	19.82	19.82				
5	QPSK	150	74	19.82	19.82	19.82				
5	QPSK	150	75	19.82	19.82	19.82				
5	QPSK	150	149	19.82	19.82	19.82				
5	QPSK	150	199	19.82	19.82	19.82				
Channel	Frequency (MHz)	1892.5	1890	1916.5	Turn-up (min)	MPR (dB)				
3	QPSK	1	0	22.81	23.02	22.76				
3	QPSK	1	14	22.89	22.95	22.83			24	0
3	QPSK	1	28	22.81	22.92	22.86				
3	QPSK	8	0	22.83	23.04	22.82				
3	QPSK	8	7	22.86	22.90	22.83			24	0
3	QPSK	150	1	22.85	22.98	22.83				
3	QPSK	150	1	22.71	22.87	22.78			24	0
3	QPSK	150	24	22.80	22.76	22.82				
3	QPSK	150	8	22.41	22.57	22.40				
3	QPSK	150	8	22.23	22.41	22.24				





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 (min)	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	22.98	23.09	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	22.98	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	19.88	19.84	19.80				
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	19.89	19.82				
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	22.99	23.00	22.97	24	0		
15	QPSK	1	74	22.84	22.90	22.87				
15	QPSK	36	0	22.84	23.01	22.86				
15	QPSK	20	0	22.82	22.98	22.80	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	36	22.79	22.85	22.82				
15	HQAM	75	0	22.49	22.83	22.50				
15	HQAM	1	0	22.74	22.80	22.77	23.5	0.5		
15	HQAM	1	37	22.73	22.79	22.76	23.5	0.5		
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	36	21.68	21.70	21.59				
15	HQAM	75	0	21.56	21.74	21.60				
15	SSQAM	1	0	19.76	19.86	19.76				
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	19.81				
15	SSQAM	50	24	19.69	19.87	19.60	20.5	3.5		
15	SSQAM	50	36	19.67	19.70	19.61				
15	SSQAM	75	0	19.65	19.80	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	22.66	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	22.60	22.56				
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	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	21.78	21.76	21.70	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	19.68	19.84	19.61				
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	23.17	23.13				
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	22.91	22.87				
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	22.73				
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	21.70	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	50	0	19.78	19.85	19.84				
5	SSQAM	50	12	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	22.94	23.05	22.95				
3	QPSK	8	4	22.80	22.97	22.81	24	0		
3	QPSK	8	7	22.75	22.88	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	8	22.66	22.91	22.76				
3	HQAM	1	14	22.65	22.72	22.69				
3	HQAM	8	0	21.61	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	SSQAM	1	0	19.76	19.96	19.83				
3	SSQAM	1	8	19.69	19.85	19.77	20.5	3.5		
3	SSQAM	1	14	19.63	19.72	19.69				
3	SSQAM	8	0	19.76	19.83	19.81				
3	SSQAM	8	4	19.68	19.83	19.60	20.5	3.5		
3	SSQAM	8	7	19.63	19.71	19.63				
3	SSQAM	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	23.09	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	22.88	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	22.65	22.86	22.76	23.5	0.5		
1.4	HQAM	3	3	22.6						



Band 66 Default Ant0										
BM [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	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	22.81				
20	HQAM	1	0	22.80	23.19	22.98				
20	HQAM	1	49	22.87	23.01	22.81	24	0		
20	HQAM	1	99	22.83	22.89	22.86				
20	HQAM	50	0	22.81	22.92	22.86				
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	22.75	22.84				
20	HQAM	1	49	22.49	22.67	22.64	23.5	0.5		
20	HQAM	1	99	22.51	22.69	22.50				
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	21.75	21.81				
20	HQAM	100	0	21.57	21.82	21.58				
20	HQAM	1	0	18.86	18.97	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	18.80	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	17.17.5	17.45	17.2.5				
15	QPSK	1	37	22.06	22.06	22.04	24	0		
15	QPSK	1	74	22.89	22.87	22.84				
15	QPSK	36	0	22.87	22.10	22.02				
15	QPSK	36	24	22.82	22.10	22.02	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	1	74	22.81	22.74	22.80				
15	HQAM	36	0	22.40	22.71	22.60				
15	HQAM	36	20	22.57	22.60	22.60	23.5	0.5		
15	HQAM	36	36	22.44	22.62	22.62				
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	22.69	22.64				
15	HQAM	1	74	22.45	22.52	22.58				
15	HQAM	36	0	21.59	21.88	21.61	22.5	1.5		
15	HQAM	36	20	21.51	21.68	21.67				
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	18.89	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	13.16.2	13.22.2	13.06.2				
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	22.97	22.84				
10	QPSK	12	12	22.80	22.91	22.85	24	0		
10	QPSK	25	25	22.81	22.87	22.86				
10	HQAM	1	0	22.74	22.96	22.84				
10	HQAM	1	0	22.66	22.97	22.85				
10	HQAM	1	25	22.81	22.83	22.80	24	0		
10	HQAM	1	49	22.76	22.76	22.80				
10	HQAM	12	0	22.57	22.70	22.55				
10	HQAM	12	12	22.51	22.59	22.59	23.5	0.5		
10	HQAM	25	25	22.52	22.59	22.64				
10	HQAM	50	0	22.35	22.53	22.41				
10	HQAM	1	0	22.45	22.68	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	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	13.16.7	13.22.7	13.06.7				
5	QPSK	1	12	22.80	23.01	22.84	24	0		
5	QPSK	1	24	22.91	22.90	22.81				
5	QPSK	12	0	22.85	23.11	22.85				
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	22.96	22.87				
5	HQAM	1	0	22.72	22.98	22.82				
5	HQAM	1	12	22.80	22.90	22.76	24	0		
5	HQAM	1	24	22.75	22.96	22.85				
5	HQAM	12	0	22.47	22.74	22.63				
5	HQAM	12	7	22.57	22.81	22.59	23.5	0.5		
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	22.64	22.62				
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	21.70				
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	18.78				
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	23.13	23.14	23.13				
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	HQAM	1	0	22.78	22.90	22.85				
3	HQAM	1	0	22.76	23.07	22.84				
3	HQAM	1	8	22.82	22.98	22.87	24	0		
3	HQAM	1	14	22.78	22.85	22.82				
3	HQAM	8	0	22.56	22.73	22.63				
3	HQAM	8	4	22.54	22.52	22.49	23.5	0.5		
3	HQAM	8	7	22.42	22.47	22.52				
3	HQAM	15	0	22.43	22.48	22.51				
3	HQAM	1	0	22.40	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	22.5	1.5		
3	HQAM	8	4	21.62	21.68	21.70				
3	HQAM	8	7	21.51	21.60	21.49				
3	HQAM	15	0	21.45	21.59	21.49				
3	HQAM	1	0	18.75	18.90	18.84	20.5	3.5		
3	HQAM	1	8	18.85	18.86	18.79				
3	HQAM	1	14	18.74	18.81	18.79				
3	HQAM	8	0	18.69	18.82	18.73				
3	HQAM	8	4	18.75	18.75	18.68	20.5	3.5		
3	HQAM	8	7	18.68	18.72	18.69				
3	HQAM	15	0	18.58	18.60	18.62				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	23.11	23.10	23.10				
1.4	QPSK	1	3	22.89	23.04	22.92	24	0		
1.4	QPSK	1	5	22.92	22.99	22.86				
1.4	QPSK	3	0	22.82	23.14	22.88				
1.4	QPSK	3	1	22.80	23.04	22.95				
1.4	HQAM	1	0	22.71	22.98	22.81	24	0		
1.4	HQAM	1	3	22.74	22.90	22.87				
1.4	HQAM	1	0	22.75	22.99	22.88				
1.4	HQAM	1	3	22.75	22.94	22.87				
1.4	HQAM	3	0	22.71	22.99	22.81	24	0		
1.4	HQAM	3	1	22.78	22.91					



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)										
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	20.50	20.53	22	0		
20	QPSK	50	24	20.38	20.50	20.42	22	0		
20	QPSK	50	49	20.38	20.50	20.42	22	0		
20	QPSK	100	0	20.37	20.52	20.53	22	0		
20	HQAM	1	0	20.46	20.57	20.59	22	0		
20	HQAM	1	49	20.36	20.56	20.53	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	20.01	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	17.93	17.92	18.5	3.5		
20	25QAM	1	99	17.86	17.86	17.87	18.5	3.5		
20	25QAM	50	0	17.84	17.87	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	17.84	18.5	3.5		
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.50	20.50	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	19.85	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	19.85	21.5	0.5		
15	HQAM	36	0	19.77	20.01	19.81	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	17.82	17.81	18.5	3.5		
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.43	20.40	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	20.36	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	20.25	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	19.86	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	1	0	19.89	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	17.86	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	23.5	0.5		
20	QPSK	50	24	22.05	22.15	22.18	23.5	0.5		
20	QPSK	50	49	22.05	22.12	22.10	23.5	0.5		
20	QPSK	100	0	22.25	22.10	22.30	23.5	0.5		
20	HQAM	1	0	22.15	22.13	22.28	23.5	0.5		
20	HQAM	1	49	22.07	22.04	22.10	23.5	0.5		
20	HQAM	1	99	22.02	22.03	22.13	23.5	0.5		
20	HQAM	50	0	21.30	21.18	21.38	22.5	1.5		
20	HQAM	50	24	21.20	21.17	21.20	22.5	1.5		
20	HQAM	50	49	21.01	21.08	21.16	22.5	1.5		
20	HQAM	100	0	21.06	21.21	21.35	22.5	1.5		
20	HQAM	100	0	21.41	21.33	21.49	22.5	1.5		
20	HQAM	1	49	21.30	21.27	21.37	22.5	1.5		
20	HQAM	1	99	21.18	21.04	21.30	22.5	1.5		
20	HQAM	50	0	20.27	20.27	20.40	21.5	2.5		
20	HQAM	50	24	20.23	20.24	20.32	21.5	2.5		
20	HQAM	50	49	20.10	20.18	20.24	21.5	2.5		
20	HQAM	100	0	20.16	20.14	20.22	21.5	2.5		
20	25QAM	1	0	18.24	18.20	18.37	19.5	4.5		
20	25QAM	1	49	18.27	18.18	18.37	19.5	4.5		
20	25QAM	1	99	18.10	18.08	18.23	19.5	4.5		
20	25QAM	50	0	18.14	18.14	18.24	19.5	4.5		
20	25QAM	50	24	18.18	18.14	18.24	19.5	4.5		
20	25QAM	50	49	18.12	18.05	18.20	19.5	4.5		
20	25QAM	100	0	18.14	18.18	18.28	19.5	4.5		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.37	22.62	22.56	24.00	0		
15	QPSK	1	37	22.17	22.37	22.46	24.00	0		
15	QPSK	1	74	22.14	22.26	22.26	24.00	0		
15	QPSK	36	0	22.29	22.08	22.24	23.5	0.5		
15	QPSK	36	20	21.99	22.01	22.09	23.5	0.5		
15	QPSK	75	0	22.13	21.96	22.15	23.5	0.5		
15	HQAM	1	0	22.09	21.88	22.16	23.5	0.5		
15	HQAM	1	37	21.99	22.07	22.15	23.5	0.5		
15	HQAM	1	74	21.99	21.91	22.04	23.5	0.5		
15	HQAM	36	0	21.28	21.04	21.28	22.5	1.5		
15	HQAM	36	20	20.88	21.03	21.05	22.5	1.5		
15	HQAM	36	39	20.88	21.03	21.01	22.5	1.5		
15	HQAM	75	0	21.17	21.17	21.20	22.5	1.5		
15	HQAM	1	0	21.29	21.29	21.35	22.5	1.5		
15	HQAM	1	37	21.27	21.18	21.22	22.5	1.5		
15	HQAM	1	74	21.32	21.09	21.22	22.5	1.5		
15	HQAM	36	0	20.26	20.19	20.26	21.5	2.5		
15	HQAM	36	20	20.09	20.09	20.26	21.5	2.5		
15	HQAM	36	39	19.75	19.75	19.75	21.5	2.5		
15	HQAM	75	0	19.95	20.05	20.09	21.5	2.5		
15	25QAM	1	0	18.15	18.14	18.29	19.5	4.5		
15	25QAM	1	37	18.10	18.04	18.12	19.5	4.5		
15	25QAM	1	74	18.04	18.02	18.12	19.5	4.5		
15	25QAM	36	0	18.07	18.07	18.21	19.5	4.5		
15	25QAM	36	20	18.03	18.03	18.18	19.5	4.5		
15	25QAM	36	39	18.08	17.93	18.11	19.5	4.5		
15	25QAM	75	0	18.						



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)	39750		40186		40602		41018		41434	
20	QPSK	1	0	25.50	25.42	25.34	25.26	25.18	26.00	0
20	QPSK	1	49	25.46	25.33	25.59	25.40	25.36	26.00	0
20	QPSK	1	99	25.32	25.38	25.40	25.56	25.31	26.00	0
20	QPSK	50	0	25.42	25.34	25.45	25.21	25.08	26.00	0
20	QPSK	50	24	25.32	25.43	25.38	25.29	25.10	26.00	0
20	QPSK	50	49	25.67	25.33	25.40	25.49	25.17	26.00	0
20	QPSK	100	0	25.32	25.40	25.38	25.28	25.13	26.00	0
20	HQAM	1	0	25.55	25.46	25.60	25.48	25.41	26.00	0
20	HQAM	1	49	25.35	25.39	25.45	25.49	25.27	26.00	0
20	HQAM	1	99	25.30	25.34	25.42	25.44	25.22	26.00	0
20	HQAM	50	0	24.26	24.15	24.36	24.27	24.10	26.00	0
20	HQAM	50	24	24.19	24.20	24.30	24.13	24.07	26.00	0
20	HQAM	50	49	24.11	24.05	24.17	24.11	23.97	26.00	0
20	HQAM	100	0	24.25	24.21	24.30	24.15	24.07	26.00	0
20	HQAM	100	1	24.18	24.15	24.23	24.10	24.10	26.00	0
20	HQAM	100	49	24.02	24.11	24.10	24.10	23.96	26.00	0
20	HQAM	1	99	24.06	24.03	24.14	24.03	23.96	26.00	0
20	HQAM	50	0	23.28	23.22	23.38	23.20	23.14	26.00	0
20	HQAM	50	24	23.15	23.14	23.27	23.19	23.03	26.00	0
20	HQAM	50	49	23.14	23.10	23.21	23.15	23.06	26.00	0
20	HQAM	100	0	23.11	23.17	23.23	23.22	23.02	26.00	0
20	SSBQAM	1	0	21.51	21.42	21.55	21.46	21.29	22.4	4
20	SSBQAM	1	49	21.54	21.49	21.52	21.45	21.30	22.4	4
20	SSBQAM	1	99	21.24	21.37	21.38	21.38	21.28	22.4	4
20	SSBQAM	50	0	21.36	21.21	21.42	21.25	21.24	22.4	4
20	SSBQAM	50	24	21.22	21.16	21.29	21.24	21.04	22.4	4
20	SSBQAM	50	49	21.14	21.12	21.21	21.20	21.05	22.4	4
20	SSBQAM	100	0	21.32	21.19	21.40	21.23	21.16	22.4	4
Channel										
Frequency (MHz)	39750		40172		40602		41048		41515	
15	QPSK	1	0	25.52	25.47	25.50	25.37	25.25	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	24.91	26.00	0
15	QPSK	38	20	25.20	25.08	25.34	25.19	24.95	26.00	0
15	QPSK	38	39	24.83	24.93	25.01	25.24	25.04	26.00	0
15	QPSK	75	0	25.24	25.15	25.23	25.15	25.00	26.00	0
15	HQAM	1	0	25.43	25.36	25.51	25.38	25.36	26.00	0
15	HQAM	1	37	25.25	25.30	25.35	25.42	25.29	26.00	0
15	HQAM	1	74	25.16	25.21	25.28	25.38	25.10	26.00	0
15	HQAM	38	0	24.22	24.02	24.24	24.16	23.97	26.00	0
15	HQAM	38	20	24.05	24.08	24.15	24.05	23.86	26.00	0
15	HQAM	38	39	24.08	23.99	24.08	24.06	23.88	26.00	0
15	HQAM	75	0	24.19	24.08	24.27	24.04	24.02	26.00	0
15	HQAM	1	49	24.04	24.10	24.16	24.16	24.00	26.00	0
15	HQAM	1	37	23.89	24.04	23.97	23.98	23.88	26.00	0
15	HQAM	1	74	24.03	23.89	24.10	23.94	23.92	26.00	0
15	HQAM	38	0	23.18	23.18	23.35	23.05	23.05	26.00	0
15	HQAM	38	20	23.05	23.09	23.22	23.15	22.97	26.00	0
15	HQAM	38	39	23.21	23.21	23.31	23.15	22.97	26.00	0
15	HQAM	75	0	23.04	23.03	23.18	23.15	22.92	26.00	0
15	SSBQAM	1	0	21.43	21.39	21.51	21.39	21.22	22.4	4
15	SSBQAM	1	37	21.47	21.37	21.50	21.38	21.22	22.4	4
15	SSBQAM	1	74	21.20	21.26	21.32	21.23	21.10	22.4	4
15	SSBQAM	38	0	21.24	21.17	21.34	21.25	21.11	22.4	4
15	SSBQAM	38	20	21.08	21.12	21.21	21.15	21.09	22.4	4
15	SSBQAM	38	39	21.10	21.08	21.07	21.09	20.98	22.4	4
15	SSBQAM	75	0	21.21	21.12	21.27	21.18	21.07	22.4	4
Channel										
Frequency (MHz)	39750		40172		40602		41048		41515	
10	QPSK	1	0	25.44	25.44	25.44	25.34	25.17	26.00	0
10	QPSK	1	25	25.35	25.11	25.51	25.24	25.28	26.00	0
10	QPSK	1	49	25.06	25.30	25.30	25.31	25.16	26.00	0
10	QPSK	12	0	25.34	25.28	25.35	25.25	25.05	26.00	0
10	QPSK	25	12	25.28	25.05	25.32	25.14	25.03	26.00	0
10	QPSK	25	25	24.92	25.06	25.09	25.14	24.97	26.00	0
10	HQAM	1	0	25.30	25.30	25.30	25.24	25.06	26.00	0
10	HQAM	1	0	25.47	25.40	25.60	25.41	25.36	26.00	0
10	HQAM	1	25	25.20	25.34	25.40	25.38	25.12	26.00	0
10	HQAM	1	49	25.21	25.21	25.29	25.36	25.17	26.00	0
10	HQAM	25	0	24.23	24.09	24.31	24.12	24.03	26.00	0
10	HQAM	25	12	24.02	24.16	24.22	24.06	23.91	26.00	0
10	HQAM	25	25	24.04	23.98	24.14	24.04	23.85	26.00	0
10	HQAM	50	0	24.18	24.14	24.28	24.08	24.13	26.00	0
10	HQAM	50	12	24.09	24.09	24.26	24.06	23.97	26.00	0
10	HQAM	50	25	23.94	23.98	24.02	23.92	23.88	26.00	0
10	HQAM	25	0	23.21	23.08	23.20	23.15	23.03	26.00	0
10	HQAM	25	12	23.05	23.10	23.24	23.09	22.89	26.00	0
10	HQAM	25	25	23.02	22.97	23.20	23.08	22.96	26.00	0
10	HQAM	50	0	22.97	23.07	23.15	23.19	22.98	26.00	0
10	SSBQAM	1	0	21.47	21.39	21.54	21.36	21.18	22.4	4
10	SSBQAM	1	25	21.51	21.46	21.47	21.39	21.25	22.4	4
10	SSBQAM	1	49	21.14	21.20	21.25	21.30	21.22	22.4	4
10	SSBQAM	25	0	21.28	21.21	21.30	21.32	21.20	22.4	4
10	SSBQAM	25	12	21.06	21.04	21.20	21.17	20.94	22.4	4
10	SSBQAM	25	25	20.99	21.07	21.13	21.15	20.98	22.4	4
10	SSBQAM	50	0	21.28	21.16	21.27	21.11	21.02	22.4	4
Channel										
Frequency (MHz)	39750		40172		40602		41048		41515	
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	26.00	0
5	QPSK	1	24	25.15	25.24	25.30	25.21	25.25	26.00	0
5	QPSK	12	0	25.39	25.32	25.41	25.39	25.01	26.00	0
5	QPSK	12	7	25.24	25.15	25.30	25.12	25.03	26.00	0
5	QPSK	12	13	24.93	25.06	25.02	25.17	25.05	26.00	0
5	QPSK	25	0	25.21	25.05	25.29	25.22	25.09	26.00	0
5	HQAM	1	0	25.47	25.42	25.52	25.38	25.27	26.00	0
5	HQAM	1	12	25.29	25.29	25.33	25.35	25.24	26.00	0
5	HQAM	1	24	25.10	25.21	25.26	25.24	25.16	26.00	0
5	HQAM	12	0	24.20	24.02	24.31	24.20	24.02	26.00	0
5	HQAM	12	7	24.15	24.14	24.19	24.08	23.97	26.00	0
5	HQAM	12	13	24.06	23.98	24.03	24.07	23.89	26.00	0
5	HQAM	25	0	24.12	24.15	24.20	24.08	24.07	26.00	0
5	HQAM	1	0	24.07	24.10	24.21	24.09	24.00	26.00	0
5	HQAM	1	12	23.91	23.97	24.02	24.07	23.92	26.00	0
5	HQAM	1	24	23.97	23.99	24.11	23.99	23.89	26.00	0
5	HQAM	12	0	23.18	23.15	23.27	23.07	23.09	26.00	0
5	HQAM	12	7	23.08	23.08	23.13	23.10	22.99	26.00	0
5	HQAM	12	13	23.00	22.98	23.16	23.05	23.01	26.00	0
5	HQAM	25	0	23.06	23.11	23.11	23.16	22.96	26.00	0
5	SSBQAM	1	0	21.45	21.34	21.40	21.41	21.22	22.4	4
5	SSBQAM	1	12	21.48	21.25	21.46	21.37	21.17	22.4	4
5	SSBQAM	1	24	21.19	21.20	21.32	21.28	21.22	22.4	4
5	SSBQAM	12	0	21.28	21.25	21.33	21.22	21.19	22.4	4
5	SSBQAM	12	7	21.19	21.07	21.22	21.20	21.03	22.4	4
5	SSBQAM	12	13	21.08	21.06	21.15	21.19	20.96	22.4	4
5	SSBQAM	25	0	21.24	21.16	21.25	21.12	21.04	22.4	4

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)	55340		55830		56320		56810		57300	
20	QPSK	1	0	21.28	21.44	21.41	21.40	21.29	23.0	0
20	QPSK	1	49	21.23	21.39	21.34	21.34	21.25	23.0	0
20	QPSK	1	99	21.16	21.31	21.29	21.29	21.20	23.0	0
20	QPSK	50	0	21.25	21.37	21.32	21.32	21.23	23.0	0
20	QPSK	50	24	21.24	21.36	21.30	21.31	21.21	23.0	0
20	QPSK	50	49	21.28	21.29					





**CDMA2000 1X**

TX Channel	Total Average Power (dBm)			Tx Power Limit (dBm)	Frame Average Power (dBm)			Tx Power Limit (dBm)
	99.2	99.4	99.6		99.2	99.4	99.6	
CDMA 1 Tx total	31.42	31.48	31.36	32.00	22.42	22.48	22.36	23.00
OPRS 1 Tx total	31.38	31.44	31.33	32.00	22.38	22.44	22.33	23.00
OPRS 2 Tx total	29.27	29.30	29.32	30.00	20.27	20.29	20.30	21.00
OPRS 3 Tx total	26.80	26.91	26.80	28.00	22.34	22.55	22.44	23.74
OPRS 4 Tx total	25.16	25.22	25.17	26.00	20.16	20.22	20.17	21.00
EDGE 1 Tx total	24.00	24.17	24.05	25.00	18.03	18.17	18.05	18.00
EDGE 2 Tx total	22.20	22.41	22.34	23.00	16.20	16.41	16.34	17.00
EDGE 3 Tx total	21.15	21.21	21.08	22.00	16.89	16.97	16.82	17.74
EDGE 4 Tx total	18.99	19.06	18.93	20.00	15.99	16.06	15.91	17.00

**CDMA2000 1X Rev 2**

TX Channel	Total Average Power (dBm)			Tx Power Limit (dBm)	Frame Average Power (dBm)			Tx Power Limit (dBm)
	1890.2	1890	1890.8		1890.2	1890	1890.8	
CDMA 1 Tx total	27.52	27.67	27.67	28.50	18.52	18.67	18.67	19.50
OPRS 1 Tx total	25.06	25.00	24.98	26.00	19.06	19.00	18.98	20.00
OPRS 2 Tx total	23.36	23.42	23.32	24.50	19.10	19.16	19.06	20.24
OPRS 3 Tx total	20.62	20.74	20.63	21.50	17.62	17.74	17.63	18.50
EDGE 1 Tx total	22.76	22.86	22.72	23.50	13.76	13.86	13.72	14.50
EDGE 2 Tx total	21.13	21.22	21.13	22.00	15.13	15.22	15.13	16.00
EDGE 3 Tx total	18.86	18.96	18.86	21.00	13.86	13.96	13.86	18.74
EDGE 4 Tx total	17.01	17.05	17.07	18.00	14.91	15.05	14.97	16.00

**WCDMA Rev 2**

TX Channel	WCDMA Rev 2			WCDMA Rev 2			WCDMA Rev 2			Tx Power Limit (dBm)
	9582	9600	9598	14132	14113	14153	4152	4162	4238	
CDMA 1 Tx total	26.92	26.90	26.90	23.92	23.93	23.93	18.92	18.91	18.92	25.00
OPRS 1 Tx total	24.46	24.52	24.44	21.42	21.44	21.31	21.14	21.17	21.04	23.00
OPRS 2 Tx total	21.48	21.51	21.51	20.00	20.00	20.00	18.17	18.17	18.17	21.00
OPRS 3 Tx total	20.85	20.84	20.87	22.00	20.46	20.57	20.32	20.23	20.23	22.00
OPRS 4 Tx total	20.48	20.51	20.52	22.00	20.42	20.50	20.41	20.22	20.12	22.00
OPRS 5 Tx total	20.02	20.14	20.10	21.50	19.91	20.02	19.95	19.87	19.70	21.50
OPRS 6 Tx total	19.56	19.14	19.36	21.50	19.87	20.31	19.54	19.06	18.79	21.50
OPRS 7 Tx total	20.50	20.70	20.45	22.00	20.46	20.63	20.35	20.20	20.21	22.00
OPRS 8 Tx total	20.37	20.42	20.36	22.00	20.33	20.28	20.28	20.08	20.08	22.00
OPRS 9 Tx total	19.00	19.96	19.92	21.50	19.94	19.94	19.86	19.95	19.95	21.50
OPRS 10 Tx total	19.87	19.84	19.89	21.50	19.82	19.80	19.83	19.49	19.47	21.50
OPRS 11 Tx total	20.96	20.81	20.90	22.00	20.43	20.98	20.66	20.16	20.22	22.00
OPRS 12 Tx total	18.83	18.87	18.82	20.00	18.42	18.53	18.39	18.09	18.19	20.00
OPRS 13 Tx total	18.20	18.46	18.36	21.00	18.43	18.51	18.47	18.18	18.26	21.00
OPRS 14 Tx total	18.46	18.48	18.44	20.00	18.37	18.45	18.35	18.04	18.14	20.00
OPRS 15 Tx total	20.59	20.40	20.39	22.00	20.55	20.36	20.33	20.21	20.03	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	20.78			
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	22	0	
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	22	0	
20	QPSK	100	99	20.77	20.83	20.75			
20	HQAM	1	0	20.72	20.75	20.77			
20	HQAM	1	49	20.72	20.75	20.77			
20	HQAM	50	24	20.72	20.75	20.69	21.5	0.5	
20	HQAM	50	74	20.72	20.75	20.69			
20	HQAM	50	99	20.72	20.75	20.69			
20	HQAM	100	0	20.71	20.80	20.71			
20	HQAM	100	49	20.67	20.76	20.72	21.5	0.5	
20	HQAM	100	99	20.68	20.76	20.72			
20	HQAM	20	24	20.68	20.76	20.72	20.5	1.5	
20	HQAM	20	74	20.68	20.76	20.72			
20	HQAM	20	99	20.68	20.76	20.72			
20	HQAM	50	24	20.68	20.76	20.72	20.5	1.5	
20	HQAM	50	74	20.68	20.76	20.72			
20	HQAM	50	99	20.68	20.76	20.72			
20	HQAM	100	0	20.75	20.85	20.75			
20	HQAM	100	49	20.74	20.80	20.74	21.5	0.5	
20	HQAM	100	99	20.74	20.80	20.74			
20	HQAM	20	24	20.75	20.85	20.75	20.5	1.5	
20	HQAM	20	74	20.75	20.85	20.75			
20	HQAM	20	99	20.75	20.85	20.75			
20	HQAM	50	24	20.75	20.85	20.75	20.5	1.5	
20	HQAM	50	74	20.75	20.85	20.75			
20	HQAM	50	99	20.75	20.85	20.75			
20	HQAM	100	0	20.86	20.96	20.86			
20	HQAM	100	49	20.82	20.96	20.82	21.5	0.5	
20	HQAM	100	99	20.82	20.96	20.82			
20	HQAM	20	24	20.82	20.96	20.82	20.5	1.5	
20	HQAM	20	74	20.82	20.96	20.82			
20	HQAM	20	99	20.82	20.96	20.82			
20	HQAM	50	24	20.82	20.96	20.82	20.5	1.5	
20	HQAM	50	74	20.82	20.96	20.82			
20	HQAM	50	99	20.82	20.96	20.82			
20	HQAM	100	0	20.95	21.05	20.95			
20	HQAM	100	49	20.91	21.05	20.91	21.5	0.5	
20	HQAM	100	99	20.91	21.05	20.91			
20	HQAM	20	24	20.91	21.05	20.91	20.5	1.5	
20	HQAM	20	74	20.91	21.05	20.91			
20	HQAM	20	99	20.91	21.05	20.91			
20	HQAM	50	24	20.91	21.05	20.91	20.5	1.5	
20	HQAM	50	74	20.91	21.05	20.91			
20	HQAM	50	99	20.91	21.05	20.91			
20	HQAM	100	0	20.97	21.07	20.97			
20	HQAM	100	49	20.93	21.07	20.93	21.5	0.5	
20	HQAM	100	99	20.93	21.07	20.93			
20	HQAM	20	24	20.93	21.07	20.93	20.5	1.5	
20	HQAM	20	74	20.93	21.07	20.93			
20	HQAM	20	99	20.93	21.07	20.93			
20	HQAM	50	24	20.93	21.07	20.93	20.5	1.5	
20	HQAM	50	74	20.93	21.07	20.93			
20	HQAM	50	99	20.93	21.07	20.93			
20	HQAM	100	0	21.02	21.12	21.02			
20	HQAM	100	49	20.98	21.12	21.02	21.5	0.5	
20	HQAM	100	99	20.98	21.12	21.02			
20	HQAM	20	24	20.98	21.12	21.02	20.5	1.5	
20	HQAM	20	74	20.98	21.12	21.02			
20	HQAM	20	99	20.98	21.12	21.02			
20	HQAM	50	24	20.98	21.12	21.02	20.5	1.5	
20	HQAM	50	74	20.98	21.12	21.02			
20	HQAM	50	99	20.98	21.12	21.02			
20	HQAM	100	0	21.07	21.17	21.07			
20	HQAM	100	49	21.03	21.17	21.03	21.5	0.5	
20	HQAM	100	99	21.03	21.17	21.03			
20	HQAM	20	24	21.03	21.17	21.03	20.5	1.5	
20	HQAM	20	74	21.03	21.17	21.03			
20	HQAM	20	99	21.03	21.17	21.03			
20	HQAM	50	24	21.03	21.17	21.03	20.5	1.5	
20	HQAM	50	74	21.03	21.17	21.03			
20	HQAM	50	99	21.03	21.17	21.03			
20	HQAM	100	0	21.12	21.22	21.12			
20	HQAM	100	49	21.08	21.22	21.12	21.5	0.5	
20	HQAM	100	99	21.08	21.22	21.12			
20	HQAM	20	24	21.08	21.22	21.12	20.5	1.5	
20	HQAM	20	74	21.08	21.22	21.12			
20	HQAM	20	99	21.08	21.22	21.12			
20	HQAM	50	24	21.08	21.22	21.12	20.5	1.5	
20	HQAM	50	74	21.08	21.22	21.12			
20	HQAM	50	99	21.08	21.22	21.12			
20	HQAM	100	0	21.17	21.27	21.17			
20	HQAM	100	49	21.13	21.27	21.17	21.5	0.5	
20	HQAM	100	99	21.13	21.27	21.17			
20	HQAM	20	24	21.13	21.27	21.17	20.5	1.5	
20	HQAM	20	74	21.13	21.27	21.17			
20	HQAM	20	99	21.13	21.27	21.17			
20	HQAM	50	24	21.13	21.27	21.17	20.5	1.5	
20	HQAM	50	74	21.13	21.27	21.17			
20	HQAM	50	99	21.13	21.27	21.17			
20	HQAM	100	0	21.22	21.32	21.22			
20	HQAM	100	49	21.18	21.32	21.22	21.5	0.5	
20	HQAM	100	99	21.18	21.32	21.22			
20	HQAM	20	24	21.18	21.32	21.22	20.5	1.5	
20	HQAM	20	74	21.18	21.32	21.22			
20	HQAM	20	99	21.18	21.32	21.22			
20	HQAM	50	24	21.18	21.32	21.22	20.5	1.5	
20	HQAM	50	74	21.18	21.32	21.22			
20	HQAM	50	99	21.18	21.32	21.22			
20	HQAM	100	0	21.27	21.37	21.27			
20	HQAM	100	49	21.23	21.37	21.27	21.5	0.5	
20	HQAM	100	99	21.23	21.37	21.27			
20	HQAM	20	24	21.23	21.37	21.27	20.5	1.5	
20	HQAM	20	74	21.23	21.37	21.27			
20	HQAM	20	99	21.23	21.37	21.27			
20	HQAM	50	24	21.23	21.37	21.27	20.5	1.5	
20	HQAM	50	74	21.23	21.37	21.27			
20	HQAM	50	99	21.23	21.37	21.27			
20	HQAM	100	0	21.32	21.42	21.32			
20	HQAM	100	49	21.28	21.42	21.32	21.5	0.5	
20	HQAM	100	99	21.28	21.42	21.32			
20	HQAM	20	24	21.28	21.42	21.32	20.5	1.5	
20	HQAM	20	74	21.28	21.42	21.32			
20	HQAM	20	99	21.28	21.42	21.32			
20	HQAM	50	24	21.28	21.42	21.32	20.5	1.5	
20	HQAM	50	74	21.28	21.42	21.32			
20	HQAM	50	99	21.28	21.42	21.32			
20	HQAM	100	0	21.37	21.47	21.37			
20	HQAM	100	49	21.33	21.47	21.37	21.5	0.5	
20	HQAM	100	99	21.33	21.47	21.37			
20	HQAM	20	24	21.33	21.47	21.37	20.5	1.5	
20	HQAM	20	74	21.33	21.47	21.37			
20	HQAM	20	99	21.33	21.47	21.37			
20	HQAM	50	24	21.33	21.47	21.37	20.5	1.5	
20	HQAM	50	74	21.33	21.47	21.37			
20	HQAM	50	99	21.33	21.47	21.37			
20	HQAM	100	0	21.42	21.52	21.42			
20	HQAM	100	49	21.38	21.52	21.42	21.5	0.5	
20	HQAM	100	99	21.38	21.52	21.42			
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 (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.81	21.73	21.68				
10	QPSK	1	25	21.90	21.80	21.72				
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	21.63				
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	21.33		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	18.40	18.36		19.5	3.5	
10	256QAM	1	49	18.41	18.37	18.33				
10	256QAM	25	0	18.26	18.26	18.33		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	21.63	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	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	18.42	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	18.17	18.24	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	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	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	18.22		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	18.08	18.07	18.07		19.5	3.5	
3	256QAM	8	4	18.18	18.26	18.30				
3	256QAM	8	7	18.20	18.10	18.20				
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	21.30	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				
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 (dB)	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				
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	21.39	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</									