



Full&Default Power Mode

		CDMA2000 1X Full power							
Base		Base Average Power (dBm)			Flatten-Average Power (dBm)				
TX Channel		128	192	251	Limit	128	192	251	Limit
Frequency (MHz)		185.2	185.4	185.6	(dBm)	185.2	185.4	185.6	(dBm)
CDMA 1 Tx Avg		32.27	32.27	32.22	33.50	23.27	23.27	23.22	24.50
CDMA 1 Tx Peak		32.25	32.40	32.30	33.50	23.25	23.40	23.30	24.50
GPS 1 Tx Avg		30.27	30.35	30.38	31.50	24.27	24.35	24.38	25.50
GPS 1 Tx Peak		28.51	28.64	28.53	29.50	24.25	24.38	24.27	25.24
GPS 3 Tx Avg		28.92	27.00	27.00	28.50	23.92	24.00	24.00	25.00
GPS 3 Tx Peak		25.25	25.44	25.36	26.50	18.25	18.44	18.36	17.50
EDGE 1 Tx Avg		24.80	24.67	24.60	26.00	18.80	18.67	18.60	20.00
EDGE 1 Tx Peak		24.31	24.41	24.32	25.50	20.05	20.15	20.06	21.24
EDGE 4 Tx Avg		23.71	23.72	23.63	25.00	20.71	20.70	20.63	22.00

		CDMA2000 1X Rev B Full power							
Base		Base Average Power (dBm)			Flatten-Average Power (dBm)				
TX Channel		185.2	185.4	185.6	Limit	185.2	185.4	185.6	Limit
Frequency (MHz)		185.2	185.4	185.6	(dBm)	185.2	185.4	185.6	(dBm)
CDMA 1 Tx Avg		29.78	29.82	29.74	30.82	19.78	19.82	19.74	21.00
CDMA 1 Tx Peak		28.53	28.59	28.57	30.50	18.53	18.59	18.57	21.00
GPS 1 Tx Avg		26.83	26.88	26.53	28.00	20.83	20.88	20.53	22.00
GPS 3 Tx Avg		25.01	25.15	25.14	26.00	20.75	20.89	20.88	21.74
GPS 4 Tx Avg		24.13	24.20	24.18	25.50	21.13	21.20	21.18	22.00
EDGE 1 Tx Avg		24.82	24.63	24.60	26.00	18.82	18.60	18.58	17.00
EDGE 2 Tx Avg		24.53	24.61	24.56	25.50	18.53	18.61	18.56	18.50
EDGE 3 Tx Avg		24.10	24.13	23.85	25.00	18.84	18.67	18.69	20.14
EDGE 4 Tx Avg		23.46	23.51	23.44	24.50	20.46	20.51	20.44	21.00

		WCDMA 8-AMR 0 Full power						WCDMA 8-AMR 0 Full power						WCDMA 8-AMR 0 Full power					
Base		Base Average Power (dBm)			Flatten-Average Power (dBm)			Base Average Power (dBm)			Flatten-Average Power (dBm)			Base Average Power (dBm)			Flatten-Average Power (dBm)		
TX Channel		185.2	185.4	185.6	Limit	185.2	185.4	185.6	Limit	185.2	185.4	185.6	Limit	185.2	185.4	185.6	Limit		
Frequency (MHz)		185.2	185.4	185.6	(dBm)	185.2	185.4	185.6	(dBm)	185.2	185.4	185.6	(dBm)	185.2	185.4	185.6	(dBm)		
SOPP Base 0	AMR 12 20bps	23.00	23.11	23.10	24.00	23.16	23.18	23.14	24.00	23.08	23.11	23.09	24.00	23.08	23.11	23.09	24.00		
SOPP Base 0	AMR 12 20bps	23.12	23.17	23.14	24.00	23.19	23.25	23.22	24.00	23.12	23.16	23.15	24.00	23.12	23.16	23.15	24.00		
SOPP Base 0	HRSPA Subclass 1	22.96	22.99	22.97	23.00	22.24	22.27	22.14	23.00	22.20	22.24	22.17	23.00	22.20	22.24	22.17	23.00		
SOPP Base 0	HRSPA Subclass 2	22.11	22.11	22.12	23.00	22.21	22.28	22.15	23.00	22.11	22.26	22.14	23.00	22.11	22.26	22.14	23.00		
SOPP Base 0	HRSPA Subclass 3	21.82	21.89	21.56	22.50	21.68	21.67	21.70	22.50	21.83	21.83	21.73	22.50	21.83	21.83	21.73	22.50		
SOPP Base 0	HRSPA Subclass 4	21.56	21.73	21.70	22.50	21.68	21.68	21.73	22.50	21.59	21.62	21.65	22.50	21.59	21.62	21.65	22.50		
SOPP Base 0	HRSPA Subclass 5	22.19	22.20	22.12	23.00	22.25	22.31	22.15	23.00	22.15	22.12	22.11	23.00	22.15	22.12	22.11	23.00		
SOPP Base 0	HRSPA Subclass 6	20.13	20.08	20.08	21.00	20.24	20.29	20.28	21.00	20.15	20.08	20.22	21.00	20.15	20.08	20.22	21.00		
SOPP Base 0	HRSPA Subclass 7	21.06	21.10	21.17	22.00	21.19	21.24	21.24	22.00	21.10	21.14	21.13	22.00	21.10	21.14	21.13	22.00		
SOPP Base 0	HRSPA Subclass 8	20.10	20.21	20.18	21.00	20.20	20.31	20.24	21.00	20.11	20.16	20.08	21.00	20.11	20.16	20.08	21.00		
SOPP Base 0	HRSPA Subclass 9	22.04	22.20	22.21	23.00	22.14	22.21	22.25	23.00	22.25	22.30	22.30	23.00	22.25	22.30	22.30	23.00		
SOPP Full 7	HRSPA 120AMR 1 Subclass 1	18.56	18.59	18.60	20.50	18.73	18.69	18.80	20.50	18.62	18.60	18.62	20.50						



Band 2 Ant 0 Full power

BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power High Ch./Freq.	Power Low Ch./Freq.	Turn-up time (sec)	MFR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	22.78	22.78	22.78	24	0
20	QPSK	1	48	22.80	22.80	22.80		
20	QPSK	1	96	22.82	22.82	22.82		
20	QPSK	50	0	21.84	21.85	21.80		
20	QPSK	50	24	21.85	21.86	21.81		
20	QPSK	50	48	21.87	21.88	21.83		
20	QPSK	100	0	20.78	21.77	21.79		
20	QPSK	100	24	20.79	21.78	21.82		
20	QPSK	100	48	20.78	21.78	21.87		
20	QPSK	150	0	20.33	20.99	20.76		
20	QPSK	150	24	20.35	20.71	21.88		
20	QPSK	150	48	20.34	20.99	20.76		
20	QPSK	50	24	20.83	20.78	20.74		
20	QPSK	50	48	20.89	20.89	20.81		
20	QPSK	100	0	20.92	20.99	20.87		
20	QPSK	100	24	20.74	20.82	20.72		
20	QPSK	100	48	20.71	20.79	20.76		
20	QPSK	150	0	20.84	20.71	20.74		
20	QPSK	150	24	19.97	19.87	19.72		
20	QPSK	150	48	19.91	19.84	19.79		
20	QPSK	100	0	19.91	19.82	19.82		
20	QPSK	100	24	19.91	19.82	19.82		
20	QPSK	100	48	19.91	19.82	19.82		
20	QPSK	150	0	17.90	17.76	17.68		
20	QPSK	150	24	17.86	17.71	17.85		
20	QPSK	150	48	17.86	17.82	17.85		
20	QPSK	50	24	17.82	17.89	17.66		
20	QPSK	50	48	17.86	17.82	17.75		
20	QPSK	150	0	18.93	18.90	19.15		
Channel								
Frequency (MHz)								
19	QPSK	1	0	22.75	22.71	22.88		
19	QPSK	1	48	22.80	22.82	22.49		
19	QPSK	1	96	22.82	22.84	22.52		
19	QPSK	36	0	21.87	21.79	21.77		
19	QPSK	36	24	21.78	21.78	21.82		
19	QPSK	36	36	21.84	21.88	21.80		
19	QPSK	75	0	21.70	21.66	21.71		
19	QPSK	75	24	21.74	21.68	21.81		
19	QPSK	75	36	21.71	21.65	21.51		
19	QPSK	150	0	20.72	20.73	20.69		
19	QPSK	150	24	20.73	20.73	20.69		
19	QPSK	150	36	20.72	20.73	20.69		
19	QPSK	150	48	20.73	20.73	20.69		
19	QPSK	75	0	20.77	20.53	20.62		
19	QPSK	75	24	20.67	20.63	20.55		
19	QPSK	75	36	20.67	20.63	20.55		
19	QPSK	75	48	20.67	20.63	20.55		
19	QPSK	150	0	19.75	19.51	19.72		
19	QPSK	150	24	19.74	19.51	19.66		
19	QPSK	150	36	19.75	19.51	19.66		
19	QPSK	150	48	19.75	19.51	19.66		
19	QPSK	75	0	17.82	17.62	17.84		
19	QPSK	75	24	17.82	17.62	17.84		
19	QPSK	75	36	17.82	17.62	17.84		
19	QPSK	75	48	17.82	17.62	17.84		
19	QPSK	150	0	17.58	17.58	17.60		
19	QPSK	150	24	17.58	17.58	17.60		
19	QPSK	150	36	17.58	17.58	17.60		
19	QPSK	150	48	17.58	17.58	17.60		
Channel								
Frequency (MHz)								
18	QPSK	1	0	22.62	22.62	22.62		
18	QPSK	1	24	22.51	22.52	22.62		
18	QPSK	1	48	22.51	22.52	22.62		
18	QPSK	1	96	22.51	22.52	22.62		
18	QPSK	25	0	21.70	21.63	21.55		
18	QPSK	25	24	21.70	21.63	21.55		
18	QPSK	25	48	21.70	21.63	21.55		
18	QPSK	50	0	20.87	20.80	20.70		
18	QPSK	50	24	20.87	20.80	20.70		
18	QPSK	50	48	20.87	20.80	20.70		
18	QPSK	100	0	20.91	20.91	20.89		
18	QPSK	100	24	20.89	20.79	20.69		
18	QPSK	100	48	20.89	20.79	20.69		
18	QPSK	150	0	20.89	20.79	20.69		
18	QPSK	150	24	20.89	20.79	20.69		
18	QPSK	150	48	20.89	20.79	20.69		
18	QPSK	75	0	17.82	17.69	17.94		
18	QPSK	75	24	17.84	17.69	17.94		
18	QPSK	75	36	17.84	17.69	17.94		
18	QPSK	75	48	17.84	17.69	17.94		
18	QPSK	150	0	19.81	19.68	19.44		
18	QPSK	150	24	19.81	19.68	19.44		
18	QPSK	150	36	19.81	19.68	19.44		
18	QPSK	150	48	19.81	19.68	19.44		
18	QPSK	75	0	17.82	17.69	17.94		
18	QPSK	75	24	17.82	17.69	17.94		
18	QPSK	75	36	17.82	17.69	17.94		
18	QPSK	75	48	17.82	17.69	17.94		
18	QPSK	150	0	19.81	19.68	19.44		
18	QPSK	150	24	19.81	19.68	19.44		
18	QPSK	150	36	19.81	19.68	19.44		
18	QPSK	150	48	19.81	19.68	19.44		
18	QPSK	75	0	17.82	17.69	17.94		
18	QPSK	75	24	17.82	17.69	17.94		
18	QPSK	75	36	17.82	17.69	17.94		
18	QPSK	75	48	17.82	17.69	17.94		
18	QPSK	150	0	19.81	19.68	19.44		
18	QPSK	150	24	19.81	19.68	19.44		
18	QPSK	150	36	19.81	19.68	19.44		
18	QPSK	150	48	19.81	19.68	19.44		
18	QPSK	75	0	17.82	17.69	17.94		
18	QPSK	75	24	17.82	17.69	17.94		
18	QPSK	75	36	17.82	17.69	17.94		
18	QPSK	75	48	17.82	17.69	17.94		
18	QPSK	150	0	19.81	19.68	19.44		
18	QPSK	150	24	19.81	19.68	19.44		
18	QPSK	150	36	19.81	19.68	19.44		
18	QPSK	150	48	19.81	19.68	19.44		
18	QPSK	75	0	17.82	17.69	17.94		
18	QPSK	75	24	17.82	17.69	17.94		
18	QPSK	75	36	17.82	17.69	17.94		
18	QPSK	75	48	17.82	17.69	17.94		
18	QPSK	150	0	19.81	19.68	19.44		
18	QPSK	150	24	19.81	19.68	19.44		
18	QPSK	150	36	19.81	19.68	19.44		
18	QPSK	150	48	19.81	19.68	19.44		
18	QPSK	75	0	17.82	17.69	17.94		
18	QPSK	75	24	17.82	17.69	17.94		
18	QPSK	75	36	17.82	17.69	17.94		
18	QPSK	75	48	17.82	17.69	17.94		
18	QPSK	150	0	19.81	19.68	19.44		
18	QPSK	150	24	19.81	19.68	19.44		
18	QPSK	150	36	19.81	19.68	19.44		
18	QPSK	150	48	19.81	19.68	19.44		
18	QPSK	75	0	17.82	17.69	17.94		
18	QPSK	75	24	17.82	17.69	17.94		
18	QPSK	75	36	17.82	17.69	17.94		
18	QPSK	75	48	17.82	17.69	17.94		
18	QPSK	150	0	19.81	19.68	19.44		
18	QPSK	150	24	19.81	19.68	19.44		
18	QPSK	150	36	19.81	19.68	19.44		
18	QPSK	150	48	19.81	19.68	19.44		
18	QPSK	75	0	17.82	17.69	17.94		
18	QPSK	75	24	17.82	17.69	17.94		
18	QPSK	75	36	17.82	17.69	17.94		
18	QPSK	75	48	17.82	17.69	17.94		
18	QPSK	150	0	19.81	19.68	19.44		
18	QPSK	150	24	19.81	19.68	19.44		
18	QPSK	150	36	19.81	19.68	19.44		
18	QPSK	150	48	19.81	19.68	19.44		
18	QPSK	75	0	17.82	17.69	17.94		
18	QPSK	75	24	17.82	17.69	17.94		
18	QPSK	75	36	17.82	17.69	17.94		
18	QPSK	75	48	17.82	17.69	17.94		
18	QPSK	150	0	19.81	19.68	19.44		
18	QPSK	150	24	19.81	19.68	19.44		
18	QPSK	150	36	19.81	19.68	19.44		



Band 13 Ant 0 Full power

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

Band 17 Ant 0 Full power

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

Band 25 Ant 0 Full power

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

Band 26 Ant 0 Full power

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

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

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

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

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

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

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

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

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



Band 66 Ant 0 Full power

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dB)	APR (dB)
Channel								
Frequency (MHz)				1750	1745	1776		
20	QPSK	1	0	22.87	22.91	22.85	24	0
20	QPSK	1	49	22.68	22.84	22.78		
20	QPSK	1	99	22.74	22.72	22.78		
20	QPSK	50	0	21.78	21.95	21.91	23	1
20	QPSK	50	-24	21.88	21.87	21.70		
20	QPSK	50	50	21.78	21.77	21.70		
20	QPSK	100	0	21.85	21.90	21.88	23	1
20	HQAM	1	0	21.85	21.87	21.81		
20	HQAM	1	49	21.83	21.74	21.88		
20	HQAM	1	99	21.81	21.83	21.59		
20	HQAM	50	0	20.77	20.88	20.92	22	2
20	HQAM	50	24	20.88	20.91	20.83		
20	HQAM	50	50	20.87	20.76	20.73		
20	HQAM	100	0	20.82	20.99	20.81		
20	HQAM	1	0	20.69	20.78	20.86	22	2
20	HQAM	1	49	20.62	20.81	20.63		
20	HQAM	1	99	20.69	20.65	20.67		
20	HQAM	50	0	19.85	19.88	19.86	21	3
20	HQAM	50	24	19.88	19.98	19.73		
20	HQAM	50	50	19.81	19.78	19.72		
20	HQAM	100	0	19.78	19.83	19.83		
20	SSBQAM	1	0	17.77	17.87	17.87	19	5
20	SSBQAM	1	49	17.85	17.94	17.82		
20	SSBQAM	1	99	17.87	17.86	17.65		
20	SSBQAM	50	0	17.76	17.82	17.87	19	5
20	SSBQAM	50	-24	17.69	17.93	17.88		
20	SSBQAM	50	50	17.71	17.72	17.76		
20	SSBQAM	100	0	17.64	17.65	17.54		
Channel				13247	13232	13269	Turn-up limit (dB)	APR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	22.82	22.71	22.72	24	0
15	QPSK	1	37	22.68	22.70	22.62		
15	QPSK	1	74	22.55	22.62	22.61		
15	QPSK	96	0	21.59	21.80	21.75	23	1
15	QPSK	96	-20	21.70	21.86	21.62		
15	QPSK	96	36	21.72	21.84	21.63		
15	QPSK	75	0	21.74	21.86	21.72		
15	HQAM	1	0	21.67	21.73	21.72	23	1
15	HQAM	1	37	21.59	21.87	21.64		
15	HQAM	1	74	21.43	21.47	21.49		
15	HQAM	96	0	20.81	20.78	20.81	22	2
15	HQAM	96	20	20.76	20.75	20.44		
15	HQAM	96	36	20.84	20.71	20.81		
15	HQAM	75	0	20.78	20.88	20.69		
15	HQAM	1	0	20.62	20.72	20.78	22	2
15	HQAM	1	37	20.64	20.66	20.48		
15	HQAM	1	74	20.43	20.45	20.57	21	3
15	HQAM	96	0	19.76	19.89	19.69		
15	HQAM	96	20	19.81	19.76	19.88		
15	HQAM	96	36	19.75	19.73	19.59		
15	HQAM	75	0	19.85	19.74	19.67		
15	SSBQAM	1	0	17.62	17.81	17.68	19	5
15	SSBQAM	1	37	17.70	17.88	17.51		
15	SSBQAM	1	74	17.71	17.80	17.49		
15	SSBQAM	96	0	17.67	17.73	17.73	19	5
15	SSBQAM	96	20	17.51	17.81	17.75		
15	SSBQAM	96	36	17.51	17.84	17.69		
15	SSBQAM	75	0	17.48	17.50	17.48		
Channel				13292	13282	13292	Turn-up limit (dB)	APR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	22.68	22.76	22.61	24	0
10	QPSK	1	25	22.54	22.81	22.62		
10	QPSK	1	49	22.67	22.52	22.67		
10	QPSK	25	0	21.76	21.86	21.82	23	1
10	QPSK	25	12	21.77	21.86	21.81		
10	QPSK	25	25	21.83	21.72	21.88		
10	QPSK	50	0	21.77	21.78	21.84		
10	HQAM	1	0	21.49	21.73	21.83	23	1
10	HQAM	1	25	21.45	21.69	21.63		
10	HQAM	1	49	21.54	21.68	21.58		
10	HQAM	25	0	20.80	20.74	20.88	22	2
10	HQAM	25	12	20.85	20.88	20.58		
10	HQAM	25	25	20.86	20.81	20.81		
10	HQAM	50	0	20.79	20.91	20.72		
10	HQAM	1	0	20.64	20.70	20.67	22	2
10	HQAM	1	25	20.51	20.68	20.45		
10	HQAM	1	49	20.56	20.41	20.48		
10	HQAM	25	0	19.70	19.73	19.77	21	3
10	HQAM	25	12	19.73	19.74	19.62		
10	HQAM	25	25	19.65	19.63	19.58		
10	HQAM	50	0	19.68	19.73	19.72		
10	SSBQAM	1	0	17.69	17.83	17.65	19	5
10	SSBQAM	1	25	17.82	17.88	17.73		
10	SSBQAM	1	49	17.66	17.76	17.49		
10	SSBQAM	25	0	17.61	17.71	17.61	19	5
10	SSBQAM	25	12	17.65	17.83	17.74		
10	SSBQAM	25	25	17.56	17.88	17.70		
10	SSBQAM	50	0	17.38	17.56	17.34		
Channel				13197	13232	13267	Turn-up limit (dB)	APR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	22.68	22.71	22.62	24	0
5	QPSK	1	12	22.51	22.65	22.68		
5	QPSK	1	24	22.70	22.54	22.70		
5	QPSK	12	0	21.59	21.87	21.80	23	1
5	QPSK	12	7	21.70	21.75	21.51		
5	QPSK	12	13	21.63	21.83	21.53		
5	QPSK	25	0	21.75	21.71	21.75		
5	HQAM	1	0	21.81	21.71	21.71	23	1
5	HQAM	1	12	21.62	21.59	21.58		
5	HQAM	1	24	21.44	21.56	21.63		
5	HQAM	12	0	20.89	20.82	20.88	22	2
5	HQAM	12	7	20.89	20.82	20.52		
5	HQAM	12	13	20.78	20.56	20.68		
5	HQAM	25	0	20.70	20.82	20.57		
5	HQAM	1	0	20.81	20.60	20.66	22	2
5	HQAM	1	12	20.49	20.70	20.42		
5	HQAM	1	24	20.50	20.53	20.57		
5	HQAM	12	0	19.75	19.74	19.71	21	3
5	HQAM	12	7	19.84	19.83	19.61		
5	HQAM	12	13	19.73	19.70	19.54		
5	HQAM	25	0	19.73	19.89	19.63		
5	SSBQAM	1	0	17.67	17.79	17.63	19	5
5	SSBQAM	1	12	17.78	17.78	17.58		
5	SSBQAM	1	24	17.72	17.88	17.45		
5	SSBQAM	12	0	17.68	17.89	17.81		
5	SSBQAM	12	7	17.62	17.79	17.81	19	5
5	SSBQAM	12	13	17.61	17.52	17.63		
5	SSBQAM	25	0	17.43	17.55	17.46		
Channel				13168	13232	13267	Turn-up limit (dB)	APR (dB)
Frequency (MHz)				1711.5	1745	1771.5		
3	QPSK	1	0	22.67	22.70	22.72	24	0
3	QPSK	1	8	22.66	22.70	22.72		
3	QPSK	1	14	22.69	22.64	22.63		
3	QPSK	8	0	21.67	21.88	21.75	23	1
3	QPSK	8	4	21.77	21.69	21.59		
3	QPSK	8	7	21.67	21.69	21.64		
3	QPSK	15	0	21.68	21.78	21.75		
3	HQAM	1	0	21.81	21.71	21.62	23	1
3	HQAM	1	8	21.67	21.67	21.56		
3	HQAM	1	14	21.65	21.46	21.40		
3	HQAM	8	0	20.58	20.69	20.83	22	2
3	HQAM	8	4	20.67	20.80	20.48		
3	HQAM	8	7	20.69	20.56	20.56		
3	HQAM	15	0	20.65	20.56	20.63		
3	HQAM	1	0	20.46	20.69	20.71	22	2
3	HQAM	1	8	20.59	20.69	20.52		
3	HQAM	1	14	20.51	20.56	20.63		
3	HQAM	8	0	19.84	19.89	19.87	21	3
3	HQAM	8	4	19.75	19.88	19.62		
3	HQAM	8	7	19.70	19.71	19.60		
3	HQAM	15	0	19.73	19.69	19.71		
3	SSBQAM	1	0	17.57	17.89	17.50	19	5
3	SSBQAM	1	8	17.84	17.74	17.50		
3	SSBQAM	1	14	17.66	17.79	17.51		
3	SSBQAM	8	0	17.73	17.64	17.58		
3	SSBQAM	8	4	17.83	17.78	17.71	19	5
3	SSBQAM	8	7	17.67	17.52	17.69		
3	SSBQAM	15	0	17.35	17.40</			



Band 7 Ant 1 Full power

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-up limit (dB)	APPR (dB)		
Channel										
2500 - 25100 - 25500										
Frequency (MHz)										
20	QPSK	1	0	23.08	23.13	23.15	24	0		
20	QPSK	1	49	22.99	23.04	23.03				
20	QPSK	1	99	23.00	23.01	23.05				
20	QPSK	50	0	22.03	22.10	22.05	23	1		
20	QPSK	50	-24	21.84	22.01	21.98				
20	QPSK	50	50	22.09	22.03	21.90				
20	QPSK	100	0	22.00	22.07	22.01	23	1		
20	HQAM	1	0	21.95	22.04	21.93				
20	HQAM	1	49	21.89	21.92	21.81				
20	HQAM	1	99	21.89	21.90	21.87	22	2		
20	HQAM	50	0	21.03	21.15	21.11				
20	HQAM	50	24	20.85	20.95	21.07				
20	HQAM	50	50	21.06	20.97	20.91	21	3		
20	HQAM	100	0	21.07	21.03	20.92				
20	HQAM	1	0	21.03	21.02	20.84				
20	HQAM	1	49	20.84	20.94	20.95	22	2		
20	HQAM	1	99	20.95	20.87	20.93				
20	HQAM	50	0	20.01	20.08	20.12				
20	HQAM	50	24	19.81	19.96	19.92	21	3		
20	HQAM	50	50	20.15	20.09	19.91				
20	HQAM	100	0	20.00	20.15	20.09				
20	SSBQAM	1	0	18.11	18.16	18.04	19	5		
20	SSBQAM	1	49	17.84	17.97	17.92				
20	SSBQAM	1	99	18.03	17.86	17.88				
20	SSBQAM	50	0	18.00	18.10	17.98	19	5		
20	SSBQAM	50	-24	17.88	18.01	17.79				
20	SSBQAM	50	50	17.75	17.85	17.92				
20	SSBQAM	100	0	17.68	17.82	17.80	19	5		
Channel										
2502.5 - 25100 - 2552.5										
Frequency (MHz)										
15	QPSK	1	0	22.03	22.08	22.06	24	0		
15	QPSK	1	37	22.81	22.92	22.83				
15	QPSK	1	74	22.90	22.92	22.79				
15	QPSK	96	0	21.99	21.94	21.86	23	1		
15	QPSK	96	20	21.05	21.84	21.84				
15	QPSK	96	39	21.89	21.93	21.75				
15	QPSK	75	0	21.96	22.04	21.91	23	1		
15	HQAM	1	0	21.85	21.93	21.70				
15	HQAM	1	37	21.62	21.76	21.88				
15	HQAM	1	74	21.69	21.82	21.80	22	2		
15	HQAM	96	0	20.89	21.03	21.05				
15	HQAM	96	20	20.65	20.83	20.97				
15	HQAM	96	39	20.01	20.87	20.82	22	2		
15	HQAM	75	0	21.04	20.90	20.80				
15	HQAM	1	0	20.98	20.87	20.85				
15	HQAM	1	37	20.55	20.95	20.88	21	3		
15	HQAM	1	74	20.84	20.85	20.59				
15	HQAM	96	0	19.86	20.04	19.96				
15	HQAM	96	20	19.70	19.91	19.83	19	5		
15	HQAM	96	39	20.01	19.92	19.85				
15	HQAM	75	0	19.82	20.01	19.95				
15	SSBQAM	1	0	17.08	17.09	17.85	19	5		
15	SSBQAM	1	37	17.70	17.84	17.80				
15	SSBQAM	1	74	17.83	17.83	17.80				
15	SSBQAM	96	0	17.87	18.06	17.82	19	5		
15	SSBQAM	96	20	17.76	17.91	17.61				
15	SSBQAM	96	39	17.61	17.85	17.84				
15	SSBQAM	75	0	17.62	17.76	17.68	19	5		
Channel										
25050 - 25100 - 25400										
Frequency (MHz)										
10	QPSK	1	0	22.03	22.03	22.04	24	0		
10	QPSK	1	25	22.70	22.96	22.04				
10	QPSK	1	49	22.89	22.81	22.81				
10	QPSK	25	0	21.89	21.91	21.80	23	1		
10	QPSK	25	12	21.65	21.83	21.80				
10	QPSK	25	25	21.90	21.84	21.74				
10	QPSK	50	0	21.88	21.98	21.85	23	1		
10	HQAM	1	0	21.89	21.95	21.79				
10	HQAM	1	25	21.52	21.72	21.74				
10	HQAM	1	49	21.73	21.77	21.68	22	2		
10	HQAM	25	0	20.91	21.08	20.98				
10	HQAM	25	12	20.69	20.88	20.93				
10	HQAM	25	25	20.87	20.88	20.87	21	3		
10	HQAM	50	0	20.93	20.83	20.83				
10	HQAM	1	0	20.84	20.89	20.87				
10	HQAM	1	25	20.44	20.81	20.87	22	2		
10	HQAM	1	49	20.79	20.75	20.76				
10	HQAM	25	0	19.80	20.01	19.93				
10	HQAM	25	12	19.64	19.89	19.80	21	3		
10	HQAM	25	25	20.01	20.05	19.83				
10	HQAM	50	0	19.84	19.95	20.01				
10	SSBQAM	1	0	17.05	18.07	17.01	19	5		
10	SSBQAM	1	25	17.72	17.92	17.88				
10	SSBQAM	1	49	17.92	17.92	17.74				
10	SSBQAM	25	0	17.01	17.63	17.65	19	5		
10	SSBQAM	25	12	17.79	17.91	17.58				
10	SSBQAM	25	25	17.64	17.87	17.73				
10	SSBQAM	50	0	17.77	17.88	17.65	19	5		
Channel										
25075 - 25100 - 25425										
Frequency (MHz)										
5	QPSK	1	0	22.89	23.09	23.07	24	0		
5	QPSK	1	12	22.77	22.93	22.97				
5	QPSK	1	24	22.83	22.83	22.81				
5	QPSK	12	0	21.87	22.96	21.88	23	1		
5	QPSK	12	7	21.89	21.83	21.80				
5	QPSK	12	13	21.94	21.93	21.83				
5	QPSK	25	0	21.92	21.96	21.80	23	1		
5	HQAM	1	0	21.74	21.93	21.68				
5	HQAM	1	12	21.55	21.77	21.78				
5	HQAM	1	24	21.72	21.70	21.58	22	2		
5	HQAM	12	0	20.97	20.97	21.08				
5	HQAM	12	7	20.68	20.80	20.86				
5	HQAM	12	13	20.94	20.82	20.71	22	2		
5	HQAM	25	0	20.93	20.96	20.77				
5	HQAM	1	0	20.88	20.91	20.64				
5	HQAM	1	12	20.52	20.91	20.83	21	3		
5	HQAM	1	24	20.89	20.81	20.59				
5	HQAM	12	0	19.88	20.02	20.06				
5	HQAM	12	7	19.68	19.87	19.87	19	5		
5	HQAM	12	13	19.99	19.96	19.81				
5	HQAM	25	0	19.84	20.11	19.86				
5	SSBQAM	1	0	17.05	18.08	17.98	19	5		
5	SSBQAM	1	12	17.78	17.94	17.86				
5	SSBQAM	1	24	17.93	17.88	17.75				
5	SSBQAM	12	0	17.06	17.93	17.87	19	5		
5	SSBQAM	12	7	17.77	17.81	17.73				
5	SSBQAM	12	13	17.66	17.83	17.81				
5	SSBQAM	25	0	17.69	17.81	17.65	19	5		



Band 2 Ant 4 Full power

BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power Hg./Ch./F.Freq.	Power Lg./Ch./F.Freq.	Turn-up (dB)	MPE (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	21.55	21.55	21.48	22.5	0
20	QPSK	1	48	21.42	21.42	21.40		
20	QPSK	1	96	21.31	21.38	21.48		
20	QPSK	50	0	20.43	20.59	20.38	21.5	1
20	QPSK	50	48	20.43	20.43	20.38		
20	QPSK	50	96	20.21	20.32	20.35		
20	QPSK	100	0	20.43	20.43	20.41		
20	QPSK	100	48	20.21	20.41	20.34		
20	QPSK	1	48	20.03	20.23	20.39	21.5	1
20	16QAM	1	96	20.31	20.08	20.05		
20	16QAM	50	0	19.29	19.29	19.40		
20	16QAM	50	24	19.29	19.58	19.36	20.5	2
20	16QAM	50	50	19.29	19.40	19.35		
20	16QAM	100	0	19.35	19.30	19.35		
20	16QAM	1	48	19.12	19.14	19.25	20.5	2
20	16QAM	50	0	18.41	18.57	18.49		
20	16QAM	50	24	18.28	18.25	18.51	19.5	3
20	16QAM	50	50	18.28	18.28	18.51		
20	16QAM	100	0	18.49	18.57	18.45		
20	25QAM	1	96	18.25	18.27	18.44	17.5	5
20	25QAM	1	96	18.19	18.27	18.53		
20	25QAM	1	96	18.40	18.38	18.19		
20	25QAM	50	24	18.45	18.53	18.50	17.5	5
20	25QAM	50	50	18.32	18.21	18.40		
20	25QAM	100	0	18.67	18.57	18.52		
Channel								
Frequency (MHz)								
15	QPSK	1	0	21.48	21.54	21.36	22.5	0
15	QPSK	1	48	21.28	21.53	21.36		
15	QPSK	1	96	21.24	21.38	21.20		
15	QPSK	36	0	20.37	20.56	20.33	21.5	1
15	QPSK	36	48	20.37	20.37	20.28		
15	QPSK	36	96	20.15	20.28	20.24		
15	QPSK	75	0	20.39	20.30	20.29		
15	QPSK	75	48	20.39	20.30	20.25		
15	16QAM	1	37	19.91	20.10	20.29	21.5	1
15	16QAM	1	74	19.91	20.10	20.29		
15	16QAM	36	0	19.19	19.47	19.35	20.5	2
15	16QAM	36	20	19.19	19.47	19.28		
15	16QAM	75	0	19.39	19.53	19.48		
15	16QAM	75	0	19.28	19.20	19.28	20.5	2
15	16QAM	75	48	19.28	19.20	19.24		
15	16QAM	1	74	19.15	19.57	19.49		
15	16QAM	36	0	18.40	18.46	18.32	19.5	3
15	16QAM	36	20	18.40	18.29	18.50		
15	16QAM	36	36	18.21	18.25	18.12		
15	16QAM	75	0	18.48	18.56	18.39		
15	25QAM	1	37	18.19	18.22	18.40	17.5	5
15	25QAM	1	37	18.30	18.27	18.12		
15	25QAM	36	20	18.39	18.21	18.26	17.5	5
15	25QAM	36	36	18.23	18.16	18.31		
15	25QAM	75	0	18.07	18.07	18.07		
Channel								
Frequency (MHz)								
10	QPSK	1	0	21.42	21.42	21.40	22.5	0
10	QPSK	1	48	21.31	21.38	21.36		
10	QPSK	1	96	21.20	21.30	21.07		
10	QPSK	25	0	20.37	20.52	20.36	21.5	1
10	QPSK	25	48	20.37	20.37	20.25		
10	QPSK	25	96	20.15	20.33	20.25		
10	QPSK	50	0	20.39	20.39	20.24		
10	QPSK	50	48	20.39	20.39	20.24		
10	16QAM	1	0	20.07	20.38	20.28	21.5	1
10	16QAM	1	25	19.92	20.18	20.29		
10	16QAM	1	50	19.92	20.18	20.29		
10	16QAM	25	0	19.27	19.41	19.27	20.5	2
10	16QAM	25	12	19.27	19.58	19.24		
10	16QAM	50	0	19.45	19.45	19.38		
10	16QAM	50	0	19.45	19.45	19.38		
10	16QAM	100	0	19.22	19.17	19.34	20.5	2
10	16QAM	100	48	19.22	19.17	19.18		
10	16QAM	1	48	19.20	18.99	18.90		
10	16QAM	25	0	18.27	18.47	18.35	19.5	3
10	16QAM	25	25	18.27	18.22	18.17		
10	16QAM	50	0	18.38	18.43	18.41		
10	25QAM	1	26	18.15	18.14	18.45	17.5	5
10	25QAM	1	49	18.36	18.32	18.19		
10	25QAM	12	0	18.50	18.53	18.45		
10	25QAM	12	12	18.38	18.26	18.26	17.5	5
10	25QAM	25	0	18.27	18.19	18.35		
10	25QAM	50	0	18.14	18.24	18.08		
Channel								
Frequency (MHz)								
5	QPSK	1	0	21.42	21.42	21.40	22.5	0
5	QPSK	1	12	21.42	21.37	21.32		
5	QPSK	1	24	21.28	21.57	21.11		
5	QPSK	12	0	20.41	20.35	20.36	21.5	1
5	QPSK	12	7	20.14	20.41	20.23		
5	QPSK	12	13	20.07	20.39	20.20		
5	QPSK	25	0	20.39	20.38	20.28		
5	16QAM	1	0	20.20	20.35	20.22	21.5	1
5	16QAM	1	12	20.01	20.09	20.25		
5	16QAM	12	0	19.23	19.45	19.35	20.5	2
5	16QAM	12	7	19.15	19.53	19.24		
5	16QAM	12	13	19.29	19.25	19.33		
5	16QAM	25	0	19.48	19.41	19.46		
5	16QAM	1	0	19.25	19.26	19.32	20.5	2
5	16QAM	12	0	19.09	19.09	19.20		
5	16QAM	1	24	19.19	19.09	19.06		
5	16QAM	12	0	18.30	18.46	18.45	19.5	3
5	16QAM	12	0	18.12	18.11	18.36		
5	16QAM	12	13	18.27	18.13	18.14		
5	16QAM	25	0	18.40	18.36	18.26		
5	25QAM	1	12	18.15	18.53	18.43	17.5	5
5	25QAM	1	12	18.12	18.20	18.43		
5	25QAM	1	24	18.40	18.34	18.34		
5	25QAM	12	0	18.50	18.54	18.49		
5	25QAM	12	7	18.36	18.22	18.26	17.5	5
5	25QAM	12	13	18.20	18.19	18.26		
5	25QAM	25	0	18.14	18.08	18.00		
Channel								
Frequency (MHz)								
3	QPSK	1	0	21.46	21.53	21.40	22.5	0
3	QPSK	1	8	21.41	21.56	21.40		
3	QPSK	1	14	21.23	21.56	21.07		
3	QPSK	12	0	20.37	20.37	20.35	21.5	1
3	QPSK	12	4	20.09	20.36	20.32		
3	QPSK	12	7	20.19	20.18	20.28		
3	QPSK	12	13	20.41	20.33	20.30		
3	16QAM	1	0	20.17	20.36	20.31	21.5	1
3	16QAM	1	8	19.95	20.20	20.32		
3	16QAM	12	0	19.25	19.07	19.05	20.5	2
3	16QAM	12	4	19.24	19.46	19.33		
3	16QAM	12	7	19.17	19.51	19.30		
3	16QAM	12	13	19.29	19.22	19.32		
3	16QAM	25	0	19.47	19.53	19.37		
3	16QAM	1	0	19.30	19.27	19.39	20.5	2
3	16QAM	12	0	19.09	19.09	19.22		
3	16QAM	1	14	19.22	18.97	18.90		
3	16QAM	12	0	18.27	18.47	18.36	19.5	3
3	16QAM	12	0	18.18	18.19	18.50		
3	16QAM	12	7	18.16	18.35	18.19		
3	25QAM	1	8	18.49	18.54	18.36		
3	25QAM	1	8	18.16	18.14	18.52	17.5	5
3	25QAM	12	0	18.30	18.33	18.17		
3	25QAM	12	4	18.33	18.53	18.25		
3	25QAM	12	7	18.29	18.08	18.29		
3	25QAM	15	0	18.11	18.00	18.07		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	21.46	21.57	21.41	22.5	0
1.4	QPSK	1	3	21.36	21.33	21.34		
1.4	QPSK	1	6	21.26	21.50	21.12		
1.4	QPSK	3	0	21.24	21.42	21.41	21.5	1
1.4	QPSK	3	1	21.28	21.37	21.23		
1.4	QPSK	3	3	21.25	21.40	21.17		
1.4	QPSK	3	6	21.43	21.45	21.38		
1.4	16QAM	1	0	20.38	20.33	20.22	21.5	1
1.4	16QAM	1	3	20.27	20.27	20.27		
1.4	16QAM	3	0	20.25	20.08	20.10	21.5	1
1.4	16QAM	3	3	20.22	20.11	20.16		
1.4								



Band 25 Ant 4 Full power										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./F.Freq.	Power Mid Ch./F.Freq.	Power High Ch./F.Freq.	Turn-up time (sec)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.65	21.69	21.61		22.5	0	
20	QPSK	1	49	21.48	21.52	21.48				
20	QPSK	1	99	21.48	21.52	21.48				
20	QPSK	50	0	20.62	20.71	20.53				
20	QPSK	50	50	20.53	20.62	20.53				
20	QPSK	50	100	20.49	20.52	20.46				
20	QPSK	100	0	20.41	20.66	20.56				
20	QPSK	100	50	20.53	20.53	20.53				
20	QPSK	100	100	20.28	20.34	20.54				
20	HQAM	1	49	20.28	20.34	20.54				
20	HQAM	1	99	20.45	20.33	20.21				
20	HQAM	50	0	19.94	19.96	19.95				
20	HQAM	50	24	19.44	19.59	19.61				
20	HQAM	50	50	19.52	19.59	19.61				
20	HQAM	100	0	19.70	19.87	19.83				
20	HQAM	100	50	19.49	19.46	19.42				
20	HQAM	100	100	19.25	19.26	19.26				
20	HQAM	100	150	18.56	18.74	18.58				
20	HQAM	50	24	18.36	18.51	18.66				
20	HQAM	50	50	18.47	18.56	18.51				
20	HQAM	100	0	18.50	18.70	18.61				
20	25QAM	1	49	18.43	18.65	18.58				
20	25QAM	1	99	18.41	18.50	18.54				
20	25QAM	1	149	18.46	18.60	18.34				
20	25QAM	50	0	18.42	18.56	18.51				
20	25QAM	50	24	18.54	18.44	18.51				
20	25QAM	50	50	18.43	18.36	18.53				
20	25QAM	100	0	18.27	18.31	18.36				
20	25QAM	100	50	18.15	18.16	18.11				
Channel										
Frequency (MHz)										
15	QPSK	1	0	21.62	21.56	21.48		22.5	0	
15	QPSK	1	37	21.40	21.36	21.36				
15	QPSK	1	74	21.25	21.42	21.31				
15	QPSK	36	0	20.43	20.52	20.39				
15	QPSK	36	20	20.31	20.46	20.44				
15	QPSK	36	36	20.31	20.39	20.39				
15	QPSK	75	0	20.32	20.62	20.44				
15	HQAM	1	49	20.31	20.44	20.41				
15	HQAM	1	37	20.06	20.28	20.49				
15	HQAM	50	0	20.27	20.35	20.48				
15	HQAM	50	24	19.48	19.66	19.41				
15	HQAM	50	50	19.24	19.56	19.44				
15	HQAM	100	0	19.48	19.52	19.53				
15	HQAM	100	50	19.20	19.28	19.28				
15	HQAM	100	100	19.11	19.12	19.12				
15	HQAM	100	150	18.25	18.35	18.25				
15	HQAM	50	24	18.25	18.45	18.15				
15	HQAM	50	50	18.53	18.59	18.53				
15	25QAM	1	49	18.31	18.45	18.31				
15	25QAM	1	99	18.24	18.37	18.25				
15	25QAM	1	149	18.27	18.49	18.15				
15	25QAM	50	0	18.25	18.41	18.24				
15	25QAM	50	24	18.27	18.30	18.49				
15	25QAM	100	0	18.12	18.16	18.11				
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.65	21.60	21.60		22.5	0	
10	QPSK	1	25	21.30	21.44	21.34				
10	QPSK	1	49	21.40	21.32	21.42				
10	QPSK	20	0	20.32	20.40	20.32				
10	QPSK	20	12	20.24	20.38	20.48				
10	QPSK	25	0	20.37	20.38	20.28				
10	QPSK	50	0	20.37	20.38	20.28				
10	HQAM	1	0	20.33	20.37	20.48				
10	HQAM	1	25	20.21	20.25	20.38				
10	HQAM	20	0	19.49	19.56	19.59				
10	HQAM	20	12	19.41	19.52	19.45				
10	HQAM	25	0	19.32	19.37	19.32				
10	HQAM	50	0	19.50	19.54	19.45				
10	HQAM	100	0	19.41	19.29	19.32				
10	HQAM	100	25	19.32	19.34	19.31				
10	HQAM	100	50	19.30	19.05	19.10				
10	HQAM	25	0	18.39	18.71	18.49				
10	HQAM	25	12	18.42	18.44	18.29				
10	HQAM	25	25	18.38	18.48	18.25				
10	HQAM	50	0	18.41	18.50	18.49				
10	25QAM	1	49	18.45	18.50	18.45				
10	25QAM	1	25	18.32	18.38	18.58				
10	25QAM	1	49	18.42	18.57	18.15				
10	25QAM	50	0	18.45	18.50	18.51				
10	25QAM	25	12	18.39	18.27	18.47				
10	25QAM	25	25	18.30	18.25	18.47				
10	25QAM	50	0	18.34	18.08	18.01				
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.65	21.60	21.60		22.5	0	
5	QPSK	1	12	21.34	21.39	21.40				
5	QPSK	1	24	21.26	21.45	21.41				
5	QPSK	3	0	20.32	20.40	20.32				
5	QPSK	3	12	20.24	20.38	20.48				
5	QPSK	12	0	20.37	20.38	20.28				
5	QPSK	20	0	20.47	20.47	20.34				
5	HQAM	1	0	20.40	20.40	20.36				
5	HQAM	1	12	20.05	20.28	20.46				
5	HQAM	3	0	20.30	20.21	20.31				
5	HQAM	3	12	19.37	19.50	19.46				
5	HQAM	12	0	19.40	19.46	19.42				
5	HQAM	12	13	19.52	19.38	19.31				
5	HQAM	25	0	19.53	19.59	19.60				
5	HQAM	100	0	19.33	19.28	19.32				
5	HQAM	100	12	19.32	19.07	19.41				
5	HQAM	100	24	19.41	19.05	19.08				
5	HQAM	12	0	18.38	18.63	18.38				
5	HQAM	12	7	18.30	18.32	18.31				
5	HQAM	25	0	18.28	18.44	18.22				
5	HQAM	25	0	18.49	18.49	18.42				
5	25QAM	1	12	18.27	18.42	18.46				
5	25QAM	1	24	18.36	18.41	18.23				
5	25QAM	12	0	18.57	18.56	18.51				
5	25QAM	12	7	18.47	18.32	18.40				
5	25QAM	25	0	18.36	18.23	18.40				
5	25QAM	25	0	18.27	18.13	18.38				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.65	21.04	21.07		22.5	0	
3	QPSK	1	8	20.84	20.89	20.96				
3	QPSK	1	14	20.76	20.95	20.91				
3	QPSK	3	0	20.32	20.40	20.32				
3	QPSK	3	8	20.24	20.38	20.48				
3	QPSK	8	0	19.78	19.99	19.84				
3	QPSK	8	4	19.67	20.07	19.84				
3	HQAM	1	0	19.90	19.90	19.86				
3	HQAM	1	8	19.55	19.76	19.86				
3	HQAM	3	0	19.60	19.71	19.66				
3	HQAM	3	8	18.87	19.00	18.96				
3	HQAM	8	0	18.80	18.86	18.82				
3	HQAM	8	4	18.92	18.86	18.81				
3	HQAM	16	0	19.03	19.09	19.10				
3	HQAM	16	8	18.81	18.78	18.84				
3	HQAM	16	4	18.70	18.97	18.84				
3	HQAM	3	8	18.91	18.55	18.58				
3	HQAM	8	0	17.81	18.13	17.99				
3	HQAM	8	4	17.80	17.80	18.07				
3	HQAM	8	7	17.78	17.94	17.72				
3	25QAM	1	0	18.67	18.15	18.07				
3	25QAM	1	8	18.59	18.97	18.95				
3	25QAM	3	0	18.77	18.92	18.90				
3	25QAM	3								



Band 38 Ant 1 Full power									
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	22.85	22.85	22.85	24	0	
20	QPSK	1	49	22.79	22.83	22.85			
20	QPSK	50	0	21.89	21.92	21.77			
20	QPSK	50	24	21.87	21.81	21.67	23	1	
20	QPSK	100	0	21.71	21.82	21.86			
20	16QAM	1	0	21.79	21.79	21.57	23	1	
20	16QAM	1	49	21.76	21.76	21.56			
20	16QAM	1	99	21.71	21.83	21.84			
20	16QAM	50	0	20.97	20.99	20.86			
20	16QAM	50	24	20.94	20.92	20.86			
20	16QAM	50	50	20.76	20.69	20.78			
20	64QAM	100	0	20.74	20.75	20.68			
20	64QAM	1	49	20.77	20.85	20.86	22	2	
20	64QAM	1	99	20.68	20.92	20.89			
20	64QAM	50	0	19.83	19.88	19.76			
20	64QAM	50	24	19.89	19.84	19.81			
20	64QAM	50	50	19.77	19.83	19.78			
20	64QAM	100	0	19.68	19.75	19.74			
20	256QAM	1	0	17.98	17.89	17.83			
20	256QAM	1	49	17.91	17.89	17.86	19	5	
20	256QAM	1	99	17.87	17.78	17.80			
20	256QAM	50	0	17.89	17.82	17.77			
20	256QAM	50	24	17.74	17.82	17.58			
20	256QAM	50	50	17.71	17.70	17.64	19	5	
20	256QAM	100	0	17.51	17.52	17.46			
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.74	22.72	22.73	24	0	
15	QPSK	1	37	22.84	22.77	22.87			
15	QPSK	1	74	22.96	22.86	22.92			
15	QPSK	36	0	21.75	21.75	21.68	23	1	
15	QPSK	36	20	21.70	21.85	21.48			
15	QPSK	75	0	21.68	21.70	21.49			
15	16QAM	1	0	21.74	21.56	21.48	23	1	
15	16QAM	1	37	21.58	21.56	21.45			
15	16QAM	1	74	21.57	21.52	21.49			
15	16QAM	36	0	20.93	20.90	20.74			
15	16QAM	36	20	20.92	20.74	20.68			
15	16QAM	36	39	20.83	20.49	20.89	22	2	
15	16QAM	75	0	20.83	20.73	20.85			
15	64QAM	1	0	20.75	20.71	20.63			
15	64QAM	1	37	20.87	20.53	20.49	22	2	
15	64QAM	1	74	20.87	20.58	20.46			
15	64QAM	36	0	20.71	20.71	19.89			
15	64QAM	36	20	19.84	19.80	19.46	21	3	
15	64QAM	36	39	19.88	19.71	19.88			
15	64QAM	75	0	19.51	19.39	19.35			
15	256QAM	1	0	17.78	17.82	17.89	19	5	
15	256QAM	1	37	17.71	17.71	17.68			
15	256QAM	1	74	17.82	17.53	17.55			
15	256QAM	36	0	17.48	17.52	17.29			
15	256QAM	36	20	17.47	17.77	17.44			
15	256QAM	36	39	17.61	17.66	17.58	19	5	
15	256QAM	75	0	17.68	17.46	17.41			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.70	22.70	22.70	24	0	
10	QPSK	1	25	22.67	22.66	22.53			
10	QPSK	1	49	22.63	22.64	22.50			
10	QPSK	12	0	21.70	21.70	21.65	23	1	
10	QPSK	25	12	21.78	21.65	21.46			
10	QPSK	25	25	21.76	21.70	21.67			
10	16QAM	1	0	21.68	21.69	21.82	23	1	
10	16QAM	1	25	21.60	21.54	21.42			
10	16QAM	1	49	21.62	21.49	21.59			
10	16QAM	25	0	20.84	20.81	20.68			
10	16QAM	25	12	20.75	20.72	20.67			
10	16QAM	25	25	20.68	20.65	20.52			
10	16QAM	50	0	20.74	20.68	20.64			
10	64QAM	1	0	20.68	20.70	20.56	22	2	
10	64QAM	1	25	20.72	20.55	20.59			
10	64QAM	1	49	20.48	20.51	20.59	22	2	
10	64QAM	25	0	19.65	19.78	19.62			
10	64QAM	25	12	19.45	19.69	19.53	21	3	
10	64QAM	25	25	19.58	19.69	19.80			
10	64QAM	50	0	19.65	19.68	19.79			
10	256QAM	1	0	17.87	17.78	17.73			
10	256QAM	1	25	17.89	17.70	17.51	19	5	
10	256QAM	1	49	17.79	17.52	17.61			
10	256QAM	25	0	17.60	17.87	17.88			
10	256QAM	25	12	17.58	17.70	17.51			
10	256QAM	25	25	17.64	17.81	17.50	19	5	
10	256QAM	50	0	17.82	17.44	17.48			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.76	22.73	22.81	24	0	
5	QPSK	1	19	22.81	22.73	22.81			
5	QPSK	1	24	22.72	22.85	22.87			
5	QPSK	12	0	21.71	21.78	21.62	23	1	
5	QPSK	12	7	21.68	21.68	21.64			
5	QPSK	12	19	21.71	21.56	21.69			
5	QPSK	25	0	21.68	21.69	21.54			
5	QPSK	25	0	21.68	21.66	21.42			
5	16QAM	1	12	21.64	21.66	21.56	23	1	
5	16QAM	1	24	21.54	21.58	21.56			
5	16QAM	12	0	20.84	20.92	20.81			
5	16QAM	12	7	20.76	20.69	20.54			
5	16QAM	12	13	20.66	20.60	20.70			
5	16QAM	25	0	20.78	20.75	20.58			
5	16QAM	25	0	20.68	20.68	20.50			
5	64QAM	1	12	20.58	20.58	20.55	22	2	
5	64QAM	1	24	20.81	20.45	20.62			
5	64QAM	12	0	19.50	19.78	19.66			
5	64QAM	12	7	19.53	19.62	19.46	21	3	
5	64QAM	12	13	19.59	19.78	19.81			
5	64QAM	25	0	17.79	17.83	17.78			
5	256QAM	1	0	17.79	17.83	17.78			
5	256QAM	1	12	17.88	17.87	17.54	19	5	
5	256QAM	1	24	17.80	17.88	17.72			
5	256QAM	12	0	17.59	17.87	17.50			
5	256QAM	12	7	17.67	17.88	17.51	19	5	
5	256QAM	12	13	17.59	17.87	17.50			
5	256QAM	25	0	17.58	17.52	17.44			

Band 41 Ant 1 Full power									
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	22.87	22.82	22.93	24	0	
20	QPSK	1	49	22.89	22.74	22.90			
20	QPSK	50	0	21.89	21.80	21.91			
20	QPSK	50	24	21.70	21.78	21.89	23	1	
20	QPSK	100	0	21.68	21.86	21.76			
20	QPSK	100	0	21.78	21.79	21.85			
20	16QAM	1	0	21.62	21.65	21.83	23	1	
20	16QAM	1	49	21.57	21.61	21.77			
20	16QAM	1	99	21.56	21.58	21.78			
20	16QAM	50	0	20.81	20.74	20.94			
20	16QAM	50	24	20.75	20.71	20.88			
20	16QAM	50	50	20.74	20.81	20.87			
20	64QAM	100	0	20.74	20.72	20.64			
20	64QAM	1	49	20.74	20.55	20.90	22	2	
20	64QAM	1	99	20.62	20.55	20.78			
20	64QAM	50	0	19.87	19.88	19.85			
20	64QAM	50	24	19.82	19.77	19.97	21	3	
20	64QAM	50	50	19.81	19.75	19.77			
20	64QAM	100	0	19.74	19.80	19.78			
20	256QAM	1	0	17.91	17.82	17.86	19	5	
20	256QAM	1	49	17.75	17.75	17.82			
20	256QAM	1	99	17.67	17.76	17.82			
20	256QAM	50	0	17.69	17.69	17.79			
20	256QAM	50	24	17.77	17.59	17.84	19	5	
20	256QAM	50	50	17.50	17.62	17.78			
20									



Band 38 Ant 4 Full power									
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	22.80	22.80	22.73	24	0	
20	QPSK	1	49	22.72	22.80	22.83			
20	QPSK	50	24	22.72	22.76	22.84			
20	QPSK	50	0	21.72	21.84	21.77	23	1	
20	QPSK	50	24	21.69	21.78	21.59			
20	QPSK	100	0	21.72	21.77	21.70			
20	16QAM	1	0	21.84	21.74	21.73	23	1	
20	16QAM	1	49	21.75	21.82	21.81			
20	16QAM	1	99	21.68	21.51	21.46			
20	16QAM	50	0	20.76	20.83	20.71	22	2	
20	16QAM	50	24	20.65	20.85	20.55			
20	16QAM	50	50	20.80	20.85	20.48			
20	16QAM	100	0	20.75	20.84	20.76			
20	16QAM	1	0	20.43	20.79	20.49	22	2	
20	16QAM	1	99	20.56	20.87	20.40			
20	16QAM	50	0	19.73	19.84	19.76			
20	16QAM	50	24	19.84	19.80	19.87			
20	16QAM	50	50	19.76	19.83	19.59			
20	16QAM	100	0	19.81	19.77	19.72	21	3	
20	25QAM	1	0	17.87	17.88	17.80			
20	25QAM	1	49	17.79	17.75	17.82			
20	25QAM	1	99	17.71	17.86	17.80	19	5	
20	25QAM	50	0	17.67	17.83	17.77			
20	25QAM	50	24	17.61	17.78	17.59			
20	25QAM	50	50	17.58	17.85	17.40	19	5	
20	25QAM	100	0	17.71	17.83	17.48			
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.72	22.72	22.72	24	0	
15	QPSK	1	37	22.52	22.70	22.45			
15	QPSK	1	74	22.60	22.83	22.49			
15	QPSK	36	0	21.59	21.85	21.72	23	1	
15	QPSK	36	20	21.80	21.75	21.51			
15	QPSK	36	36	21.49	21.82	21.59			
15	QPSK	75	0	21.54	21.85	21.56			
15	16QAM	1	0	21.48	21.82	21.60	23	1	
15	16QAM	1	37	21.44	21.82	21.55			
15	16QAM	1	74	21.47	21.39	21.40			
15	16QAM	36	0	20.71	20.74	20.68	22	2	
15	16QAM	36	20	20.47	20.87	20.44			
15	16QAM	36	36	20.72	20.47	20.41			
15	16QAM	75	0	20.38	20.63	20.50			
15	16QAM	1	0	20.44	20.99	20.57	22	2	
15	16QAM	1	37	20.32	20.81	20.41			
15	16QAM	1	74	20.34	20.58	20.51			
15	16QAM	36	0	19.53	19.71	19.56	21	3	
15	16QAM	36	20	19.49	19.80	19.53			
15	16QAM	36	36	19.73	19.48	19.38			
15	16QAM	75	0	19.57	19.58	19.58			
15	25QAM	1	0	17.50	17.87	17.71	19	5	
15	25QAM	1	37	17.52	17.83	17.66			
15	25QAM	1	74	17.55	17.48	17.41			
15	25QAM	36	0	17.63	17.80	17.68	19	5	
15	25QAM	36	20	17.46	17.71	17.44			
15	25QAM	36	36	17.40	17.48	17.38			
15	25QAM	75	0	17.61	17.42	17.48			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.66	22.64	22.64	24	0	
10	QPSK	1	25	22.52	22.77	22.55			
10	QPSK	1	49	22.60	22.72	22.44			
10	QPSK	36	0	21.59	21.79	21.66	23	1	
10	QPSK	36	12	21.50	21.71	21.47			
10	QPSK	36	25	21.87	21.53	21.36			
10	16QAM	1	0	21.54	21.88	21.67	23	1	
10	16QAM	1	0	21.60	21.58	21.60			
10	16QAM	1	25	21.31	21.82	21.30			
10	16QAM	1	49	21.49	21.35	21.37			
10	16QAM	25	0	20.56	20.83	20.66	22	2	
10	16QAM	25	12	20.45	20.70	20.44			
10	16QAM	25	25	20.67	20.55	20.43			
10	16QAM	50	0	20.84	20.88	20.96			
10	16QAM	1	0	20.44	20.83	20.53	22	2	
10	16QAM	1	25	20.24	20.81	20.43			
10	16QAM	1	49	20.49	20.49	20.20			
10	16QAM	25	0	19.59	19.65	19.58	21	3	
10	16QAM	25	12	19.59	19.73	19.50			
10	16QAM	25	25	19.83	19.59	19.49			
10	16QAM	50	0	19.71	19.87	19.87			
10	25QAM	1	0	17.49	17.87	17.68			
10	25QAM	1	25	17.35	17.84	17.44	19	5	
10	25QAM	1	49	17.65	17.55	17.45			
10	25QAM	25	0	17.56	17.77	17.73			
10	25QAM	25	12	17.58	17.63	17.45			
10	25QAM	25	25	17.45	17.56	17.35	19	5	
10	25QAM	50	0	17.63	17.48	17.31			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.71	22.79	22.73	24	0	
5	QPSK	1	19	22.60	22.68	22.53			
5	QPSK	1	24	22.80	22.86	22.45			
5	QPSK	12	0	21.80	21.71	21.61	23	1	
5	QPSK	12	7	21.83	21.73	21.43			
5	QPSK	12	19	21.88	21.49	21.43			
5	QPSK	25	0	21.64	21.58	21.57			
5	QPSK	25	0	21.45	21.82	21.82			
5	16QAM	1	12	21.40	21.58	21.30	23	1	
5	16QAM	1	24	21.53	21.30	21.36			
5	16QAM	12	0	20.59	20.79	20.68	22	2	
5	16QAM	12	7	20.49	20.87	20.52			
5	16QAM	12	13	20.66	20.47	20.31			
5	16QAM	25	0	20.63	20.71	20.54			
5	16QAM	1	0	20.87	20.82	20.58	22	2	
5	16QAM	1	12	20.36	20.93	20.49			
5	16QAM	1	24	20.46	20.38	20.27			
5	16QAM	12	0	19.59	19.65	19.69	21	3	
5	16QAM	12	7	19.43	19.74	19.49			
5	16QAM	12	13	19.59	19.47	19.43			
5	16QAM	25	0	19.69	19.60	19.63			
5	25QAM	1	0	17.57	17.78	17.76			
5	25QAM	1	12	17.57	17.83	17.56	19	5	
5	25QAM	1	24	17.61	17.48	17.35			
5	25QAM	12	0	17.37	17.30	17.41			
5	25QAM	12	7	17.57	17.60	17.48			
5	25QAM	12	13	17.51	17.82	17.32	19	5	
5	25QAM	25	0	17.58	17.38	17.36			

Band 41 Ant 4 Full power									
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	22.83	22.83	22.83	24	0	
20	QPSK	1	49	22.72	22.79	22.78			
20	QPSK	50	0	22.83	22.76	22.81			
20	QPSK	50	24	21.59	21.48	21.62	23	1	
20	QPSK	50	24	21.36	21.43	21.48			
20	QPSK	100	0	21.62	21.48	21.55			
20	16QAM	1	0	21.47	21.24	21.50	23	1	
20	16QAM	1	49	21.35	21.72	21.25			
20	16QAM	1	99	21.30	21.34	21.43			
20	16QAM	50	0	20.84	20.45	20.81	22	2	
20	16QAM	50	24	20.83	20.38	20.42			
20	16QAM	50	50	20.42	20.67	20.43			
20	16QAM	100	0	20.41	20.52	20.67			
20	16QAM	1	0	20.45	20.32	20.35	22	2	
20	16QAM	1	49	20.53	20.29	20.31			
20	16QAM	1	99	20.27	20.30	20.30			
20	16QAM	50	0	19.57	19.47	19.85	21	3	
20	16QAM	50	24	19.32	19.30	19.50			
20	16QAM	50	50	19.63	19.50	19.52			
20	16QAM	100	0	19.60	19.54	19.60			
20	25QAM	1	0	17.62	17.45	17.56	19	5	
20	25QAM	1	49	17.43	17.38	17.41			
20	25QAM	1	99						



Band 42 Ant 5 Full power									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Unit (dBm)	MPR (dB)	
Channel				42190	42990	42990			
Frequency (MHz)				3490	3660	3660			
20	QPSK	1	0	22.81	22.86	22.84	24	0	
20	QPSK	1	48	22.74	22.77	22.70			
20	QPSK	1	96	22.65	22.6	22.59			
20	QPSK	50	0	21.80	21.50	21.90			
20	QPSK	50	24	21.78	21.77	21.74	23	1	
20	QPSK	50	48	21.61	21.6	21.58			
20	QPSK	100	0	21.73	21.80	21.77			
20	HQAM	1	0	21.70	21.76	21.81			
20	HQAM	1	48	21.63	21.59	21.67	23	1	
20	HQAM	1	96	21.50	21.57	21.53			
20	HQAM	50	0	20.76	20.86	20.83			
20	HQAM	50	24	20.73	20.65	20.83			
20	HQAM	50	48	20.59	20.67	20.61	22	2	
20	HQAM	100	0	20.65	20.7	20.77			
20	HQAM	100	0	20.55	20.75	20.52			
20	HQAM	1	48	20.88	20.68	20.74	22	2	
20	HQAM	1	96	20.41	20.62	20.74			
20	HQAM	50	0	19.84	19.84	19.93			
20	HQAM	50	24	19.73	19.71	19.71			
20	HQAM	50	48	19.65	19.73	19.67	21	3	
20	HQAM	100	0	19.70	19.79	19.81			
20	SBSQAM	1	0	17.79	17.86	17.91			
20	SBSQAM	1	48	17.65	17.63	17.72	19	5	
20	SBSQAM	1	96	17.66	17.86	17.63			
20	SBSQAM	50	0	17.79	17.77	17.72			
20	SBSQAM	50	24	17.63	17.77	17.66	19	5	
20	SBSQAM	50	48	17.89	17.65	17.71			
20	SBSQAM	100	0	17.43	17.65	17.48			
Channel				42195	42990	43015			
Frequency (MHz)				3472.5	3500	3547.5			
15	QPSK	1	0	22.84	22.73	22.73	24	0	
15	QPSK	1	37	22.80	22.69	22.62			
15	QPSK	1	74	22.59	22.46	22.40			
15	QPSK	36	0	21.73	21.73	21.82	23	1	
15	QPSK	36	20	21.68	21.65	21.63			
15	QPSK	36	39	21.62	21.63	21.62			
15	QPSK	75	0	21.58	21.63	21.58			
15	HQAM	1	0	21.65	21.57	21.42	23	1	
15	HQAM	1	37	21.48	21.43	21.57			
15	HQAM	1	74	21.47	21.54	21.34			
15	HQAM	36	0	20.66	20.81	20.84	22	2	
15	HQAM	36	39	20.55	20.77	20.85			
15	HQAM	36	59	20.41	20.40	20.48			
15	HQAM	75	0	20.55	20.63	20.36			
15	HQAM	1	0	20.46	20.70	20.41	22	2	
15	HQAM	1	37	20.34	20.58	20.68			
15	HQAM	1	74	20.36	20.34	20.49			
15	HQAM	36	3	19.66	19.72	19.77	21	3	
15	HQAM	36	20	19.70	19.60	19.54			
15	HQAM	36	39	19.54	19.6	19.52			
15	HQAM	75	0	19.50	19.53	19.03			
15	SBSQAM	1	0	17.59	17.89	17.70	19	5	
15	SBSQAM	1	37	17.72	17.85	17.54			
15	SBSQAM	1	74	17.67	17.67	17.48			
15	SBSQAM	36	0	17.63	17.74	17.55	19	5	
15	SBSQAM	36	20	17.42	17.70	17.52			
15	SBSQAM	36	39	17.61	17.46	17.62			
15	SBSQAM	75	0	17.35	17.36	17.38			
Channel				42199	42990	43015			
Frequency (MHz)				3465	3500	3545			
10	QPSK	1	0	22.76	22.68	22.76	24	0	
10	QPSK	1	25	22.67	22.58	22.51			
10	QPSK	1	49	22.46	22.74	22.61			
10	QPSK	36	0	21.75	21.73	21.68	23	1	
10	QPSK	25	12	21.61	21.60	21.61			
10	QPSK	25	25	21.51	21.61	21.51			
10	QPSK	50	0	21.62	21.65	21.73	23	1	
10	HQAM	1	0	21.84	21.73	21.48			
10	HQAM	1	25	21.43	21.42	21.54			
10	HQAM	1	49	21.07	21.47	21.30			
10	HQAM	25	0	20.67	20.69	20.79	22	2	
10	HQAM	25	12	20.66	20.73	20.69			
10	HQAM	25	25	20.57	20.70	20.43			
10	HQAM	50	0	20.49	20.54	20.67			
10	HQAM	1	0	20.52	20.68	20.46	22	2	
10	HQAM	1	25	20.50	20.58	20.64			
10	HQAM	1	49	20.35	20.50	20.37			
10	HQAM	25	0	19.71	19.74	19.79	21	3	
10	HQAM	25	12	19.61	19.68	19.57			
10	HQAM	25	25	19.48	19.65	19.48			
10	HQAM	50	0	19.65	19.61	19.78			
10	SBSQAM	1	0	17.67	17.80	17.72	19	5	
10	SBSQAM	1	25	17.60	17.62	17.64			
10	SBSQAM	1	49	17.54	17.70	17.55			
10	SBSQAM	25	0	17.63	17.69	17.65	19	5	
10	SBSQAM	25	12	17.62	17.69	17.46			
10	SBSQAM	25	25	17.58	17.45	17.57			
10	SBSQAM	50	0	17.38	17.33	17.38			
Channel				42199.5	3500	3547.5			
Frequency (MHz)				3462.5	3500	3547.5			
5	QPSK	1	0	22.62	22.76	22.70	24	0	
5	QPSK	1	15	22.59	22.69	22.55			
5	QPSK	1	24	22.51	22.62	22.61			
5	QPSK	12	0	21.61	21.72	21.81	23	1	
5	QPSK	12	7	21.68	21.60	21.55			
5	QPSK	12	13	21.42	21.67	21.46			
5	QPSK	25	0	21.63	21.74	21.64			
5	HQAM	1	0	21.84	21.70	21.46	23	1	
5	HQAM	1	12	21.58	21.49	21.58			
5	HQAM	1	24	21.38	21.63	21.39			
5	HQAM	12	0	20.58	20.73	20.67	22	2	
5	HQAM	12	7	20.55	20.63	20.77			
5	HQAM	12	13	20.17	20.60	20.51			
5	HQAM	25	0	20.55	20.63	20.64			
5	HQAM	1	0	20.54	20.62	20.36	22	2	
5	HQAM	1	12	20.02	20.50	20.70			
5	HQAM	1	24	20.21	20.54	20.36			
5	HQAM	12	0	19.24	19.26	19.29	21	3	
5	HQAM	12	7	19.51	19.52	19.55			
5	HQAM	12	13	19.46	19.55	19.50			
5	HQAM	25	0	19.49	19.61	19.76			
5	SBSQAM	1	0	17.70	17.85	17.87	19	5	
5	SBSQAM	1	12	17.68	17.65	17.62			
5	SBSQAM	1	24	17.63	17.73	17.44			
5	SBSQAM	12	0	17.63	17.66	17.59	19	5	
5	SBSQAM	12	7	17.54	17.60	17.53			
5	SBSQAM	12	13	17.63	17.61	17.66			
5	SBSQAM	25	0	17.24	17.29	17.32			



Band 2 Ant 0 DS12

BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power High Ch./Freq.	Power Low Ch./Freq.	Turn-up (dB)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	22.78	22.78	22.78		
20	QPSK	1	48	22.80	22.80	22.80		
20	QPSK	1	96	22.82	22.82	22.82		
20	QPSK	50	0	21.84	21.85	21.80		
20	QPSK	50	24	21.85	21.86	21.81		
20	QPSK	50	50	21.81	21.83	21.77		
20	QPSK	100	0	20.78	21.77	21.78		
20	QPSK	100	24	20.78	21.74	21.82		
20	QPSK	1	48	21.78	21.78	21.87		
20	QPSK	1	96	21.75	21.71	21.88		
20	QPSK	1	144	20.83	20.89	20.76		
20	QPSK	50	24	20.83	20.78	20.74		
20	QPSK	50	50	20.89	20.89	20.81		
20	QPSK	100	0	20.92	20.89	20.87		
20	QPSK	1	0	20.74	20.82	20.72		
20	QPSK	1	48	20.71	20.70	20.76		
20	QPSK	1	96	20.84	20.71	20.79		
20	QPSK	50	0	19.87	19.87	19.72		
20	QPSK	50	24	19.91	19.84	19.79		
20	QPSK	50	50	19.91	19.78	19.85		
20	QPSK	100	0	19.91	19.82	19.82		
20	QPSK	1	0	17.90	17.78	17.68		
20	QPSK	1	48	17.86	17.71	17.85		
20	QPSK	1	96	17.86	17.78	17.85		
20	QPSK	50	24	17.82	17.89	17.82		
20	QPSK	50	50	17.86	17.82	17.75		
20	QPSK	100	0	17.82	17.82	17.83		
Channel								
Frequency (MHz)								
19	QPSK	1	0	22.75	22.71	22.88		
19	QPSK	1	48	22.80	22.80	22.49		
19	QPSK	1	96	22.48	22.67	22.67		
19	QPSK	36	0	21.87	21.79	21.77		
19	QPSK	36	24	21.78	21.78	21.82		
19	QPSK	36	36	21.84	21.88	21.80		
19	QPSK	75	0	21.70	21.66	21.71		
19	QPSK	75	24	21.74	21.66	21.81		
19	QPSK	1	37	21.51	21.65	21.51		
19	QPSK	1	74	21.51	21.61	21.51		
19	QPSK	36	36	20.72	20.73	20.69		
19	QPSK	36	74	20.71	20.73	20.69		
19	QPSK	75	0	20.77	20.53	20.62		
19	QPSK	75	24	20.67	20.53	20.62		
19	QPSK	1	0	19.75	19.81	19.72		
19	QPSK	1	48	19.74	19.81	19.72		
19	QPSK	1	96	19.75	19.51	19.65		
19	QPSK	36	36	19.88	19.88	19.48		
19	QPSK	36	74	19.87	19.88	19.48		
19	QPSK	75	0	19.88	19.88	19.48		
19	QPSK	75	24	19.87	19.88	19.48		
19	QPSK	1	37	17.87	17.82	17.84		
19	QPSK	1	74	17.82	17.83	17.78		
19	QPSK	36	36	17.87	17.82	17.82		
19	QPSK	36	74	17.88	17.82	17.82		
19	QPSK	75	0	17.82	17.82	17.83		
19	QPSK	75	24	17.82	17.82	17.83		
19	QPSK	1	0	16.82	16.82	16.83		
19	QPSK	1	48	16.82	16.82	16.83		
19	QPSK	1	96	16.82	16.82	16.83		
19	QPSK	36	36	16.82	16.82	16.83		
19	QPSK	36	74	16.82	16.82	16.83		
19	QPSK	75	0	16.82	16.82	16.83		
19	QPSK	75	24	16.82	16.82	16.83		
19	QPSK	1	0	15.82	15.82	15.83		
19	QPSK	1	48	15.82	15.82	15.83		
19	QPSK	1	96	15.82	15.82	15.83		
19	QPSK	36	36	15.82	15.82	15.83		
19	QPSK	36	74	15.82	15.82	15.83		
19	QPSK	75	0	15.82	15.82	15.83		
19	QPSK	75	24	15.82	15.82	15.83		
19	QPSK	1	0	14.82	14.82	14.83		
19	QPSK	1	48	14.82	14.82	14.83		
19	QPSK	1	96	14.82	14.82	14.83		
19	QPSK	36	36	14.82	14.82	14.83		
19	QPSK	36	74	14.82	14.82	14.83		
19	QPSK	75	0	14.82	14.82	14.83		
19	QPSK	75	24	14.82	14.82	14.83		
19	QPSK	1	0	13.82	13.82	13.83		
19	QPSK	1	48	13.82	13.82	13.83		
19	QPSK	1	96	13.82	13.82	13.83		
19	QPSK	36	36	13.82	13.82	13.83		
19	QPSK	36	74	13.82	13.82	13.83		
19	QPSK	75	0	13.82	13.82	13.83		
19	QPSK	75	24	13.82	13.82	13.83		
19	QPSK	1	0	12.82	12.82	12.83		
19	QPSK	1	48	12.82	12.82	12.83		
19	QPSK	1	96	12.82	12.82	12.83		
19	QPSK	36	36	12.82	12.82	12.83		
19	QPSK	36	74	12.82	12.82	12.83		
19	QPSK	75	0	12.82	12.82	12.83		
19	QPSK	75	24	12.82	12.82	12.83		
19	QPSK	1	0	11.82	11.82	11.83		
19	QPSK	1	48	11.82	11.82	11.83		
19	QPSK	1	96	11.82	11.82	11.83		
19	QPSK	36	36	11.82	11.82	11.83		
19	QPSK	36	74	11.82	11.82	11.83		
19	QPSK	75	0	11.82	11.82	11.83		
19	QPSK	75	24	11.82	11.82	11.83		
19	QPSK	1	0	10.82	10.82	10.83		
19	QPSK	1	48	10.82	10.82	10.83		
19	QPSK	1	96	10.82	10.82	10.83		
19	QPSK	36	36	10.82	10.82	10.83		
19	QPSK	36	74	10.82	10.82	10.83		
19	QPSK	75	0	10.82	10.82	10.83		
19	QPSK	75	24	10.82	10.82	10.83		
19	QPSK	1	0	9.82	9.82	9.83		
19	QPSK	1	48	9.82	9.82	9.83		
19	QPSK	1	96	9.82	9.82	9.83		
19	QPSK	36	36	9.82	9.82	9.83		
19	QPSK	36	74	9.82	9.82	9.83		
19	QPSK	75	0	9.82	9.82	9.83		
19	QPSK	75	24	9.82	9.82	9.83		
19	QPSK	1	0	8.82	8.82	8.83		
19	QPSK	1	48	8.82	8.82	8.83		
19	QPSK	1	96	8.82	8.82	8.83		
19	QPSK	36	36	8.82	8.82	8.83		
19	QPSK	36	74	8.82	8.82	8.83		
19	QPSK	75	0	8.82	8.82	8.83		
19	QPSK	75	24	8.82	8.82	8.83		
19	QPSK	1	0	7.82	7.82	7.83		
19	QPSK	1	48	7.82	7.82	7.83		
19	QPSK	1	96	7.82	7.82	7.83		
19	QPSK	36	36	7.82	7.82	7.83		
19	QPSK	36	74	7.82	7.82	7.83		
19	QPSK	75	0	7.82	7.82	7.83		
19	QPSK	75	24	7.82	7.82	7.83		
19	QPSK	1	0	6.82	6.82	6.83		
19	QPSK	1	48	6.82	6.82	6.83		
19	QPSK	1	96	6.82	6.82	6.83		
19	QPSK	36	36	6.82	6.82	6.83		
19	QPSK	36	74	6.82	6.82	6.83		
19	QPSK	75	0	6.82	6.82	6.83		
19	QPSK	75	24	6.82	6.82	6.83		
19	QPSK	1	0	5.82	5.82	5.83		
19	QPSK	1	48	5.82	5.82	5.83		
19	QPSK	1	96	5.82	5.82	5.83		
19	QPSK	36	36	5.82	5.82	5.83		
19	QPSK	36	74	5.82	5.82	5.83		
19	QPSK	75	0	5.82	5.82	5.83		
19	QPSK	75	24	5.82	5.82	5.83		
19	QPSK	1	0	4.82	4.82	4.83		
19	QPSK	1	48	4.82	4.82	4.83		
19	QPSK	1	96	4.82	4.82	4.83		
19	QPSK	36	36	4.82	4.82	4.83		
19	QPSK	36	74	4.82	4.82	4.83		
19	QPSK	75	0	4.82	4.82	4.83		
19	QPSK	75	24	4.82	4.82	4.83		
19	QPSK	1	0	3.82	3.82	3.83		
19	QPSK	1	48	3.82	3.82	3.83		
19	QPSK	1	96	3.82	3.82	3.83		
19	QPSK	36	36	3.82				



Band 13 Ant 0 DSI2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up Int. (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.87					24	0
10	QPSK	25	25	22.91						
10	QPSK	1	49	22.78						
10	QPSK	25	0	21.90					23	1
10	QPSK	25	12	21.87						
10	QPSK	25	25	21.89						
10	QPSK	50	0	21.88						
10	HQAM	1	0	21.83					23	1
10	HQAM	1	25	21.84						
10	HQAM	1	49	21.52						
10	HQAM	25	0	20.83					22	2
10	HQAM	25	12	20.85						
10	HQAM	25	25	20.77						
10	HQAM	50	0	20.88						
10	HQAM	1	0	20.91						
10	HQAM	1	25	20.83					22	2
10	HQAM	1	49	20.53						
10	HQAM	25	0	19.85						
10	HQAM	25	12	19.89					21	3
10	HQAM	25	25	19.82						
10	HQAM	50	0	19.82						
10	25QAM	1	0	17.83					19	5
10	25QAM	1	25	17.85						
10	25QAM	1	49	17.70						
10	25QAM	25	0	17.86						
10	25QAM	25	12	17.78					19	5
10	25QAM	25	25	17.87						
10	25QAM	50	0	17.85						
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.69	22.74	22.72			24	0
5	QPSK	1	12	22.69	22.74	22.72				
5	QPSK	1	24	22.59	22.63	22.67				
5	QPSK	12	0	21.72	21.73	21.84			23	1
5	QPSK	12	7	21.76	21.84	21.73				
5	QPSK	12	13	21.66	21.51	21.54				
5	QPSK	25	0	21.69	21.78	21.78			23	1
5	HQAM	1	0	21.70	21.66	21.68				
5	HQAM	1	12	21.63	21.69	21.69			23	1
5	HQAM	1	24	21.32	21.47	21.38				
5	HQAM	12	0	20.84	20.72	20.71			22	2
5	HQAM	12	7	20.68	20.66	20.78				
5	HQAM	12	13	19.85	19.82	19.78				
5	HQAM	25	0	20.82	20.81	20.79			22	2
5	HQAM	1	0	20.70	20.72	20.87				
5	HQAM	1	12	20.70	20.71	20.79			22	2
5	HQAM	1	24	20.48	20.46	20.52				
5	HQAM	12	0	19.76	19.79	19.70			21	3
5	HQAM	12	7	19.85	19.82	19.78				
5	HQAM	12	13	19.55	19.58	19.45				
5	HQAM	25	0	19.71	19.84	19.88			19	5
5	25QAM	1	0	17.87	17.84	17.68				
5	25QAM	1	12	17.74	17.91	17.77			19	5
5	25QAM	1	24	17.52	17.89	17.50				
5	25QAM	12	0	17.81	17.76	17.81			19	5
5	25QAM	12	7	17.73	17.71	17.70				
5	25QAM	12	13	17.84	17.88	17.84			19	5
5	25QAM	25	0	17.82	17.40	17.25				

Band 17 Ant 0 DSI2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up Int. (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.73	22.76	22.75			24	0
10	QPSK	1	25	22.61	22.67	22.66				
10	QPSK	1	49	22.87	22.81	22.89				
10	QPSK	25	0	21.78	21.87	21.73			23	1
10	QPSK	25	12	21.74	21.71	21.72				
10	QPSK	25	25	21.71	21.67	21.64				
10	QPSK	50	0	21.70	21.75	21.61			23	1
10	HQAM	1	0	21.59	21.70	21.54				
10	HQAM	1	25	21.84	21.49	21.53			23	1
10	HQAM	1	49	21.58	21.54	21.61				
10	HQAM	25	0	20.79	20.98	20.94			22	2
10	HQAM	25	12	20.89	20.75	20.72				
10	HQAM	25	25	20.78	20.99	20.76				
10	HQAM	50	0	20.82	20.83	20.89			22	2
10	HQAM	1	0	20.96	20.79	20.61				
10	HQAM	1	25	20.63	20.43	20.56			22	2
10	HQAM	1	49	20.64	20.50	20.55				
10	HQAM	25	0	19.78	19.83	19.78				
10	HQAM	25	12	19.73	19.70	19.74			21	3
10	HQAM	25	25	19.91	19.93	19.81				
10	HQAM	50	0	19.73	19.68	19.60				
10	25QAM	1	0	17.01	17.68	17.76			19	5
10	25QAM	1	25	17.77	17.72	17.75				
10	25QAM	1	49	17.65	17.68	17.58			19	5
10	25QAM	25	0	17.73	17.75	17.53				
10	25QAM	25	12	17.51	17.74	17.48			19	5
10	25QAM	25	25	17.58	17.55	17.57				
10	25QAM	50	0	17.61	17.63	17.59				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.80	22.87	22.88			24	0
5	QPSK	1	12	22.81	22.82	22.86				
5	QPSK	1	24	22.59	22.57	22.52				
5	QPSK	12	0	21.63	21.82	21.67			23	1
5	QPSK	12	7	21.68	21.68	21.63				
5	QPSK	12	13	21.62	21.56	21.56				
5	QPSK	25	0	21.65	21.68	21.69			23	1
5	HQAM	1	0	21.41	21.52	21.48				
5	HQAM	1	12	21.43	21.39	21.49			23	1
5	HQAM	1	24	21.54	21.38	21.35				
5	HQAM	12	0	20.88	20.82	20.46			22	2
5	HQAM	12	7	20.69	20.62	20.50				
5	HQAM	12	13	20.44	20.52	20.38				
5	HQAM	25	0	20.43	20.62	20.48			22	2
5	HQAM	1	0	20.40	20.62	20.42				
5	HQAM	1	12	20.44	20.52	20.38			22	2
5	HQAM	1	24	20.59	20.40	20.35				
5	HQAM	12	0	19.59	19.77	19.67			21	3
5	HQAM	12	7	19.64	19.57	19.69				
5	HQAM	12	13	19.49	19.45	19.45				
5	HQAM	25	0	19.64	19.48	19.45			19	5
5	25QAM	1	0	17.63	17.69	17.67				
5	25QAM	1	12	17.71	17.54	17.55			19	5
5	25QAM	1	24	17.44	17.81	17.38				
5	25QAM	12	0	17.64	17.61	17.61			19	5
5	25QAM	12	7	17.41	17.67	17.37				
5	25QAM	12	13	17.44	17.51	17.41			19	5
5	25QAM	25	0	17.54	17.54	17.41				

Band 25 Ant 0 DSI2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up Int. (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.80	22.85	22.78			24	0
20	QPSK	1	49	22.88	22.72	22.88				
20	QPSK	1	99	22.75	22.78	22.81				
20	QPSK	50	0	21.76	21.81	21.71			23	1
20	QPSK	50	24	21.86	21.68	21.64				
20	QPSK	50	50	21.72	21.86	21.84				
20	QPSK	100	0	21.70	21.76	21.59			23	1
20	HQAM	1	0	21.67	21.71	21.62				
20	HQAM	1	49	21.44	21.50	21.53			23	1
20	HQAM	1	99	21.59	21.67	21.46				
20	HQAM	50	0	20.73	20.96	20.80			22	2
20	HQAM	50	24	20.82	20.73	20.58				
20	HQAM	50	50	20.78	20.88	20.86				
20	HQAM	100	0	20.87	20.89	20.91			22	2
20	HQAM	1	0	20.63	20.59	20.61				
20	HQAM	1	49	20.38	20.37	20.50			22	2
20										



Band 26 Ant 0 DS12										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Time-up (min)	MPR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.20	23.20	23.19	24	0		
15	QPSK	1	37	23.08	23.23	23.18				
15	QPSK	1	74	23.09	23.14	23.12				
15	QPSK	36	0	22.15	22.32	22.23				
15	QPSK	36	20	22.11	22.27	22.17				
15	QPSK	36	39	22.15	22.14	22.13	23	1		
15	QPSK	75	0	22.16	22.20	22.15				
15	HQAM	1	0	22.02	22.12	22.13				
15	HQAM	1	37	21.87	22.18	22.20	23	1		
15	HQAM	1	74	22.08	21.91	21.94				
15	HQAM	36	0	21.10	21.30	21.28				
15	HQAM	36	20	21.07	21.28	21.21				
15	HQAM	36	39	21.14	21.11	21.21				
15	HQAM	75	0	21.10	21.17	21.18				
15	HQAM	1	0	21.03	21.08	21.17				
15	HQAM	1	37	20.92	21.21	20.95	22	2		
15	HQAM	1	74	21.12	20.93	20.98				
15	HQAM	36	0	20.18	20.38	20.17				
15	HQAM	36	20	20.18	20.29	20.17				
15	HQAM	36	39	20.21	20.16	20.08				
15	HQAM	75	0	20.19	20.12	20.11	21	3		
15	HQAM	1	0	18.08	18.08	18.08				
15	HQAM	1	37	18.08	18.28	18.18	19	5		
15	HQAM	1	74	18.08	18.10	18.07				
15	HQAM	36	0	18.11	18.22	18.22				
15	HQAM	36	20	18.04	18.13	18.10				
15	HQAM	36	39	17.93	18.20	17.92	10	5		
15	HQAM	75	0	18.15	17.93	17.92				
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.04	23.10	23.09	24	0		
10	QPSK	1	23	22.89	23.11	23.01				
10	QPSK	1	49	23.04	23.00	22.98				
10	QPSK	36	0	21.97	22.21	22.10				
10	QPSK	36	12	22.06	22.12	21.97				
10	QPSK	36	25	22.03	22.03	22.09	23	1		
10	HQAM	1	0	21.89	22.09	22.08				
10	HQAM	1	25	21.72	21.96	21.83	23	1		
10	HQAM	1	49	21.88	21.79	21.82				
10	HQAM	36	0	21.00	21.18	21.08				
10	HQAM	36	12	21.01	21.14	21.05				
10	HQAM	36	25	20.93	21.04	21.10	22	2		
10	HQAM	75	0	20.18	20.18	20.17				
10	HQAM	1	0	21.04	20.93	20.75				
10	HQAM	25	0	20.09	20.19	19.99				
10	HQAM	25	12	20.13	20.11	19.98				
10	HQAM	25	25	20.13	19.97	19.93	21	3		
10	HQAM	50	0	20.04	19.91	20.00				
10	HQAM	1	0	18.08	18.18	18.18				
10	HQAM	1	25	17.93	18.25	18.11	19	5		
10	HQAM	1	49	17.93	17.94	17.98				
10	HQAM	36	0	18.11	18.08	18.08				
10	HQAM	36	12	17.97	17.93	17.99				
10	HQAM	36	25	17.73	18.03	17.77	10	5		
10	HQAM	50	0	18.08	17.73	17.84				
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.14	23.19	23.07	24	0		
5	QPSK	1	12	23.05	23.17	23.03				
5	QPSK	1	24	22.98	23.29	23.05				
5	QPSK	12	0	22.03	22.07	22.03				
5	QPSK	12	7	21.93	22.21	21.96	23	1		
5	QPSK	12	13	21.98	22.04	21.99				
5	HQAM	1	0	21.85	21.94	21.88				
5	HQAM	1	12	21.85	21.79	21.79	23	1		
5	HQAM	1	24	21.85	21.23	21.22				
5	HQAM	12	0	20.94	21.23	21.22				
5	HQAM	12	7	20.92	21.17	21.11	22	2		
5	HQAM	12	13	21.08	20.98	20.95				
5	HQAM	25	0	20.92	20.99	20.99				
5	HQAM	1	0	20.89	20.90	21.12				
5	HQAM	1	12	20.74	21.10	20.88	22	2		
5	HQAM	1	24	20.95	20.71	20.76				
5	HQAM	12	0	20.09	20.32	19.98				
5	HQAM	12	7	20.07	20.10	19.97				
5	HQAM	12	13	20.05	19.99	20.00	21	3		
5	HQAM	25	0	19.12	19.07	19.96				
5	HQAM	1	0	18.03	18.08	18.01				
5	HQAM	1	12	18.02	17.99	17.98	19	5		
5	HQAM	1	24	18.13	18.16	18.03				
5	HQAM	12	7	17.93	18.08	17.82				
5	HQAM	12	13	17.80	18.13	17.73	19	5		
5	HQAM	25	0	18.07	17.78	17.89				
Channel										
Frequency (MHz)										
3	QPSK	1	0	23.14	23.19	23.07	24	0		
3	QPSK	1	8	22.90	23.11	22.89				
3	QPSK	1	14	22.93	23.03	23.04				
3	QPSK	8	0	22.03	22.07	22.12				
3	QPSK	8	4	21.94	22.22	22.04	23	1		
3	QPSK	8	7	21.99	22.25	21.97				
3	HQAM	1	0	22.10	22.14	22.05				
3	HQAM	1	8	21.92	22.07	21.86	23	1		
3	HQAM	1	14	21.93	21.76	21.88				
3	HQAM	8	0	20.95	21.20	21.19				
3	HQAM	8	4	20.96	21.20	21.04	22	2		
3	HQAM	8	7	20.98	21.06	21.13				
3	HQAM	15	0	20.97	21.09	21.05				
3	HQAM	1	0	20.85	21.01	21.00				
3	HQAM	1	8	20.69	21.02	20.74	22	2		
3	HQAM	1	14	21.02	20.73	20.78				
3	HQAM	8	0	20.07	20.21	20.06				
3	HQAM	8	4	20.13	20.23	20.08				
3	HQAM	8	7	20.16	20.10	20.01	21	3		
3	HQAM	15	0	20.06	19.96	19.99				
3	HQAM	1	0	18.15	18.12	18.17				
3	HQAM	1	8	18.03	18.07	18.08	19	5		
3	HQAM	1	14	17.93	17.92	17.89				
3	HQAM	8	0	18.13	18.18	17.82				
3	HQAM	8	4	17.95	17.97	18.01	19	5		
3	HQAM	8	7	17.96	18.08	17.77				
3	HQAM	15	0	17.88	17.85	17.79				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	23.15	23.15	23.15	24	0		
1.4	QPSK	1	3	23.00	23.18	22.86				
1.4	QPSK	1	5	22.97	23.03	23.07				
1.4	QPSK	3	0	22.06	22.00	22.02				
1.4	QPSK	3	1	22.84	23.14	22.85				
1.4	QPSK	3	3	22.77	22.88	22.87	23	1		
1.4	QPSK	15	0	22.11	22.02	21.85				
1.4	HQAM	1	0	21.99	21.62	21.62				
1.4	HQAM	1	3	21.83	22.01	21.80	23	1		
1.4	HQAM	1	5	21.88	21.87	21.80				
1.4	HQAM	3	0	21.92	21.73	21.83				
1.4	HQAM	3	1	21.77	21.90	21.81				
1.4	HQAM	3	3	21.76	21.75	21.73				
1.4	HQAM	6	0	21.05	21.07	20.97	22	2		
1.4	HQAM	1	0	20.90	20.91	21.01				
1.4	HQAM	1	3	20.91	21.17	20.86				
1.4	HQAM	1	5	21.00	20.71	20.83	22	2		
1.4	HQAM	3	0	20.82	20.79	20.81				
1.4	HQAM	3	1	20.87	21.06	20.78				
1.4	HQAM	3	3	20.87	20.84	20.70	21	3		
1.4	HQAM	6	0	20.07	20.09	19.93				
1.4	HQAM	3	0	18.00	18.11	18.08				
1.4	HQAM	3	1	17.95	18.07	17.99	19	5		
1.4	HQAM	3	3	17.94	17.98	17.98				
1.4	HQAM	3	0	18.11	18.04	18.02				
1.4	HQAM	3	1	17.92	17.83	18.00				
1.4	HQAM	3	3	17.86	17.87	17.83	19	5		



Band 7 Ant 1 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mode Ch / Freq.	Power High Ch / Freq.	Turn-up limit (dB)	MPE (dB)
Channel								
2500 - 25100 - 25500								
Frequency (MHz)								
20	QPSK	1	0	23.08	23.13	23.15		
20	QPSK	1	49	22.99	23.04	23.03	24	0
20	QPSK	1	99	23.00	23.01	22.95		
20	QPSK	50	0	22.03	22.10	22.05		
20	QPSK	50	-24	21.84	22.01	21.95	23	1
20	QPSK	50	50	22.09	22.03	21.90		
20	QPSK	100	0	22.00	22.07	22.01		
20	HQAM	1	0	21.95	22.04	21.93		
20	HQAM	1	49	21.89	21.92	21.81	23	1
20	HQAM	1	99	21.89	21.90	21.87		
20	HQAM	50	0	21.03	21.15	21.11		
20	HQAM	50	24	20.85	20.95	21.07	22	2
20	HQAM	50	50	21.06	20.97	20.91		
20	HQAM	100	0	21.07	21.03	20.92		
20	HQAM	1	0	21.03	21.02	20.84		
20	HQAM	1	49	20.84	20.94	20.95	22	2
20	HQAM	1	99	20.95	20.87	20.93		
20	HQAM	50	0	20.01	20.08	20.12		
20	HQAM	50	24	19.81	19.96	19.92	21	3
20	HQAM	50	50	20.15	19.91	19.81		
20	HQAM	100	0	20.00	20.15	20.09		
20	SSBQAM	1	0	18.11	18.16	18.04		
20	SSBQAM	1	49	17.84	17.97	17.92	19	5
20	SSBQAM	1	99	18.03	17.86	17.88		
20	SSBQAM	50	0	18.00	18.10	17.95		
20	SSBQAM	50	-24	17.88	18.01	17.79	19	5
20	SSBQAM	50	50	17.75	17.85	17.92		
20	SSBQAM	100	0	17.88	17.82	17.60		
Channel								
2502.5 - 25100 - 2552.5								
Frequency (MHz)								
15	QPSK	1	0	23.03	23.08	23.06		
15	QPSK	1	37	22.81	22.92	22.83	24	0
15	QPSK	1	74	22.90	22.92	22.79		
15	QPSK	96	0	21.99	21.94	21.86		
15	QPSK	96	20	21.05	21.84	21.84	23	1
15	QPSK	96	39	21.89	21.93	21.75		
15	QPSK	75	0	21.96	22.04	21.91		
15	HQAM	1	0	21.95	21.93	21.70		
15	HQAM	1	37	21.62	21.76	21.88	23	1
15	HQAM	1	74	21.69	21.82	21.80		
15	HQAM	96	0	20.89	21.03	21.05		
15	HQAM	96	20	20.65	20.83	20.97	22	2
15	HQAM	96	39	20.01	20.87	20.82		
15	HQAM	75	0	21.04	20.90	20.80		
15	HQAM	1	0	20.98	20.87	20.65	22	2
15	HQAM	1	37	20.55	20.91	20.85		
15	HQAM	1	74	20.84	20.65	20.59		
15	HQAM	96	0	19.86	20.04	19.95	21	3
15	HQAM	96	20	19.70	19.91	19.83		
15	HQAM	96	39	20.01	19.95	19.53		
15	HQAM	75	0	19.82	20.01	19.95		
15	SSBQAM	1	0	17.08	17.09	17.85		
15	SSBQAM	1	37	17.70	17.84	17.80	19	5
15	SSBQAM	1	74	17.83	17.83	17.80		
15	SSBQAM	96	0	17.87	18.06	17.82		
15	SSBQAM	96	20	17.76	17.91	17.61	19	5
15	SSBQAM	96	39	17.61	17.85	17.84		
15	SSBQAM	75	0	17.62	17.75	17.65		
Channel								
25050 - 25100 - 25400								
Frequency (MHz)								
10	QPSK	1	0	23.03	23.03	23.04		
10	QPSK	1	25	22.70	22.96	22.94	24	0
10	QPSK	1	49	22.89	22.81	22.81		
10	QPSK	25	0	21.89	21.91	21.80		
10	QPSK	25	12	21.65	21.83	21.80	23	1
10	QPSK	25	25	21.90	21.84	21.74		
10	QPSK	50	0	21.88	21.98	21.85		
10	HQAM	1	0	21.89	21.95	21.79		
10	HQAM	1	25	21.52	21.72	21.74	23	1
10	HQAM	1	49	21.73	21.77	21.68		
10	HQAM	25	0	20.91	21.08	20.98		
10	HQAM	25	12	20.69	20.88	20.93	22	2
10	HQAM	25	25	20.87	20.88	20.87		
10	HQAM	50	0	20.93	20.83	20.83		
10	HQAM	1	0	20.84	20.89	20.87	22	2
10	HQAM	1	25	20.44	20.81	20.87		
10	HQAM	1	49	20.79	20.75	20.76		
10	HQAM	25	0	19.80	20.01	19.93	21	3
10	HQAM	25	12	19.64	19.89	19.80		
10	HQAM	25	25	20.01	20.05	19.83		
10	HQAM	50	0	19.84	19.95	20.01		
10	SSBQAM	1	0	17.05	18.07	17.01		
10	SSBQAM	1	25	17.72	17.92	17.88	19	5
10	SSBQAM	1	49	17.92	17.92	17.74		
10	SSBQAM	25	0	17.91	17.93	17.85		
10	SSBQAM	25	12	17.79	17.91	17.58	19	5
10	SSBQAM	25	25	17.64	17.87	17.73		
10	SSBQAM	50	0	17.77	17.85	17.65		
Channel								
25075 - 25100 - 25425								
Frequency (MHz)								
5	QPSK	1	0	22.89	23.09	23.07		
5	QPSK	1	12	22.77	22.93	22.97	24	0
5	QPSK	1	24	22.83	22.83	22.81		
5	QPSK	12	0	21.87	22.96	21.68		
5	QPSK	12	7	21.89	21.83	21.80	23	1
5	QPSK	12	13	21.94	21.93	21.83		
5	QPSK	25	0	21.92	21.98	21.80		
5	HQAM	1	0	21.74	21.93	21.68		
5	HQAM	1	12	21.55	21.77	21.78	23	1
5	HQAM	1	24	21.72	21.70	21.58		
5	HQAM	12	0	20.97	20.97	21.08		
5	HQAM	12	7	20.68	20.80	20.86	22	2
5	HQAM	12	13	20.94	20.82	20.71		
5	HQAM	25	0	20.93	20.96	20.77		
5	HQAM	1	0	20.88	20.91	20.64	22	2
5	HQAM	1	12	20.52	20.91	20.83		
5	HQAM	1	24	20.89	20.81	20.59		
5	HQAM	12	0	19.88	20.02	20.06		
5	HQAM	12	7	19.68	19.87	19.87	21	3
5	HQAM	12	13	19.99	19.95	19.81		
5	HQAM	25	0	19.84	20.11	19.80		
5	SSBQAM	1	0	17.95	18.08	17.98		
5	SSBQAM	1	12	17.78	17.94	17.86	19	5
5	SSBQAM	1	24	17.92	17.88	17.75		
5	SSBQAM	12	0	17.98	17.93	17.87		
5	SSBQAM	12	7	17.77	17.81	17.73	19	5
5	SSBQAM	12	13	17.66	17.83	17.81		
5	SSBQAM	25	0	17.69	17.81	17.65		



Band 2 Ant 4 DS12

BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Turn-up (dB)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	16.54	16.75	16.53	17.8	0
20	QPSK	1	48	16.54	16.82	16.43		
20	QPSK	50	0	16.60	16.71	16.35		
20	QPSK	50	24	16.58	16.74	16.58		
20	QPSK	50	48	16.47	16.70	16.60		
20	QPSK	100	0	16.46	16.50	16.60		
20	QPSK	100	48	16.24	16.48	16.34		
20	16QAM	1	0	16.38	16.51	16.33		
20	16QAM	1	48	16.38	16.51	16.33		
20	16QAM	50	24	16.26	16.56	16.36		
20	16QAM	50	48	16.29	16.37	16.31		
20	16QAM	100	0	16.22	16.39	16.32		
20	16QAM	100	48	16.34	16.44	16.38		
20	16QAM	1	0	16.31	16.47	16.40		
20	16QAM	1	48	16.38	16.51	16.33		
20	16QAM	50	24	16.33	16.46	16.34		
20	16QAM	50	48	16.28	16.46	16.24		
20	256QAM	1	0	16.24	16.29	16.29		
20	256QAM	1	48	16.24	16.29	16.29		
20	256QAM	50	24	16.31	16.39	16.25		
20	256QAM	50	48	16.13	16.43	16.34		
20	256QAM	100	0	16.17	16.18	16.18		
Channel								
Frequency (MHz)								
16	QPSK	1	0	16.36	16.40	16.33	17.8	0
16	QPSK	1	48	16.36	16.43	16.42		
16	QPSK	74	0	16.39	16.40	16.32		
16	QPSK	36	0	16.40	16.36	16.21		
16	QPSK	36	48	16.39	16.51	16.40		
16	QPSK	36	36	16.35	16.36	16.40		
16	16QAM	1	0	16.29	16.36	16.44		
16	16QAM	1	48	16.31	16.38	16.40		
16	16QAM	1	37	16.29	16.28	16.15		
16	16QAM	1	74	16.42	16.40	16.18		
16	16QAM	36	20	16.14	16.30	16.18		
16	16QAM	36	48	16.18	16.41	16.25		
16	16QAM	75	0	16.09	16.41	16.25		
16	16QAM	1	0	16.17	16.24	16.48		
16	16QAM	1	48	16.17	16.24	16.48		
16	16QAM	1	74	16.07	16.10	16.17		
16	16QAM	36	0	16.45	16.39	16.13		
16	16QAM	36	48	16.33	16.29	16.27		
16	16QAM	36	36	16.11	16.44	16.31		
16	16QAM	75	0	16.21	16.36	16.14		
16	16QAM	75	48	16.17	16.37	16.13		
16	256QAM	1	0	16.15	16.22	16.17		
16	256QAM	1	48	16.13	16.22	16.17		
16	256QAM	36	20	16.18	16.23	16.17		
16	256QAM	36	48	16.09	16.29	16.27		
16	256QAM	75	0	16.07	16.08	16.07		
Channel								
Frequency (MHz)								
10	QPSK	1	0	16.60	16.60	16.60	17.8	0
10	QPSK	1	24	16.40	16.53	16.40		
10	QPSK	1	48	16.40	16.53	16.34		
10	QPSK	25	0	16.32	16.36	16.40		
10	QPSK	25	24	16.27	16.32	16.42		
10	QPSK	25	48	16.32	16.36	16.40		
10	16QAM	1	0	16.30	16.36	16.44		
10	16QAM	1	24	16.07	16.30	16.16		
10	16QAM	1	48	16.07	16.30	16.16		
10	16QAM	25	12	16.18	16.41	16.27		
10	16QAM	25	36	16.18	16.41	16.27		
10	16QAM	50	0	16.08	16.40	16.11		
10	16QAM	1	0	16.19	16.21	16.38		
10	16QAM	1	48	16.02	16.22	16.19		
10	16QAM	25	0	16.41	16.32	16.18		
10	16QAM	25	24	16.27	16.43	16.27		
10	16QAM	50	0	16.18	16.29	16.07		
10	256QAM	1	0	16.15	16.23	16.08		
10	256QAM	1	48	16.05	16.06	16.23		
10	256QAM	1	49	16.04	16.16	16.04		
10	256QAM	25	12	16.04	16.25	16.08		
10	256QAM	25	36	16.04	16.25	16.08		
10	256QAM	50	0	16.01	16.26	16.14		
10	256QAM	50	48	16.01	16.26	16.14		
Channel								
Frequency (MHz)								
5	QPSK	1	0	16.44	16.44	16.44	17.8	0
5	QPSK	1	12	16.43	16.52	16.39		
5	QPSK	1	24	16.44	16.56	16.28		
5	QPSK	1	36	16.40	16.41	16.35		
5	QPSK	12	7	16.25	16.40	16.40		
5	QPSK	12	13	16.28	16.42	16.36		
5	16QAM	1	0	16.38	16.29	16.40		
5	16QAM	1	12	16.14	16.35	16.24		
5	16QAM	1	24	16.13	16.29	16.29		
5	16QAM	12	0	16.35	16.29	16.05		
5	16QAM	12	7	16.07	16.36	16.29		
5	16QAM	12	13	16.16	16.26	16.25		
5	16QAM	25	0	16.07	16.42	16.13		
5	16QAM	1	0	16.27	16.31	16.43		
5	16QAM	1	24	16.24	16.29	16.25		
5	16QAM	12	0	16.42	16.34	16.15		
5	16QAM	12	7	16.29	16.52	16.27		
5	16QAM	12	13	16.23	16.45	16.30		
5	16QAM	25	0	16.18	16.24	16.18		
5	256QAM	1	0	16.09	16.21	16.24		
5	256QAM	1	12	16.14	16.09	16.27		
5	256QAM	1	24	16.11	16.10	16.07		
5	256QAM	12	0	16.17	16.04	16.12		
5	256QAM	12	7	16.21	16.20	16.09		
5	256QAM	12	13	16.08	16.20	16.16		
5	256QAM	25	0	16.02	16.13	16.09		
Channel								
Frequency (MHz)								
3	QPSK	1	0	16.51	16.55	16.55	17.8	0
3	QPSK	1	8	16.42	16.62	16.42		
3	QPSK	1	14	16.31	16.44	16.39		
3	QPSK	1	20	16.53	16.54	16.27		
3	QPSK	8	4	16.32	16.57	16.46		
3	QPSK	8	7	16.31	16.53	16.34		
3	QPSK	8	14	16.29	16.46	16.45		
3	16QAM	1	0	16.22	16.40	16.47		
3	16QAM	1	8	16.03	16.36	16.24		
3	16QAM	1	14	16.24	16.07	16.13		
3	16QAM	8	4	16.04	16.32	16.22		
3	16QAM	8	7	16.07	16.29	16.25		
3	16QAM	16	0	16.08	16.26	16.16		
3	16QAM	1	0	16.27	16.28	16.47		
3	16QAM	1	8	16.13	16.29	16.23		
3	16QAM	1	14	16.08	16.09	16.19		
3	16QAM	8	0	16.30	16.39	16.19		
3	16QAM	8	7	16.21	16.47	16.37		
3	16QAM	16	0	16.24	16.32	16.22		
3	256QAM	1	0	16.14	16.25	16.22		
3	256QAM	1	8	16.06	16.17	16.14		
3	256QAM	1	14	16.17	16.03	16.06		
3	256QAM	8	0	16.17	16.15	16.12		
3	256QAM	8	4	16.14	16.30	16.18		
3	256QAM	8	7	16.09	16.29	16.28		
3	256QAM	16	0	16.04	16.05	16.11		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	16.35	16.55	16.40	17.8	0
1.4	QPSK	1	3	16.36	16.55	16.36		
1.4	QPSK	1	6	16.36	16.51	16.20		
1.4	QPSK	3	0	16.20	16.45	16.34		
1.4	QPSK	3	3	16.20	16.49	16.49		
1.4	16QAM	1	0	16.32	16.40	16.46		
1.4	16QAM	1	3	16.31	16.40	16.44		
1.4	16QAM	1	6	16.31	16.25	16.11		
1.4	16QAM	3	0	16.30	16.32	16.05		
1.4	16QAM	3	3	16.11	16.30	16.23		
1.4	16QAM	3	6	16.09	16.24	16.15		
1.4	16QAM	6	0	16.09	16.37	16.28		
1.4	16QAM	1	0	16.08	16.14	16.24		
1.4	16QAM	1	3	16.10	16.28	16.19		
1.4	16QAM	3	0	16.19	16.47	16.33		
1.4	16QAM	3	3	16.13	16.34	16.03		
1.4	256QAM	1	0	16.23	16.35	16.26		
1.4	256QAM	1	3	16.06	16.14	16.15		
1.4	256QAM	3	0	16.02	16.14	16.08		
1.4	256QAM	3	3	16.16	16.19	16.14		
1.4	256QAM	3	6	16.07	16.27	16.05		
1.4	256QAM	6	0	16.06	16.22	16.11		
1.4	256QAM	6	3	16.04	16.11	16.02		

Band 4 Ant 4 DS12

BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Turn-up (dB)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	17.22	17.23	17.20	20.8	0
20	QPSK	1	48	17.22	17.23	17.20		
20	QPSK	50	0	17.40	17.48	17.47		
20	QPSK	50	24	17.47	17.44	17.44		
20	QPSK	50	48	17.29	17.53	17.19		
20	16QAM	1	0	17.37	17.47	17.32		
20	16QAM	1	48	17.30	17.24	17.27		
20	16QAM	50	24	17.30	17.24	17.22		
20	16QAM	50	48	17.15	17.22	17.39		
20	16QAM	100	0	17.31	17.32	17.32		
20	16QAM	100	48	17.12	17.34	17.43		
20	16QAM	1	0	17.16	17.39	17.10		
20	16QAM	1	48	17.20	17.39	17.39		
20	16QAM	50	24	17.32	17.41	17.36		
20	16QAM	50	48	17.40	17.32	17.35		
20	256QAM	1	0	17.26	17.28	17.29		
20	256QAM							



Band 25 Ant 4 DS12										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up Init. (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	16.70	16.76	16.68				
20	QPSK	1	49	16.68	16.73	16.67	17.8	0		
20	QPSK	1	99	16.69	16.83	16.56				
20	QPSK	50	0	16.66	16.72	16.61				
20	QPSK	50	49	16.68	16.68	16.61	17.8	0		
20	QPSK	50	99	16.62	16.71	16.67				
20	QPSK	100	0	16.63	16.70	16.61				
20	QPSK	100	49	16.66	16.83	16.56				
20	16QAM	1	0	16.31	16.61	16.46	17.8	0		
20	16QAM	1	49	16.48	16.47	16.37				
20	16QAM	50	0	16.30	16.37	16.31				
20	16QAM	50	49	16.37	16.82	16.30	17.8	0		
20	16QAM	50	99	16.24	16.34	16.41				
20	16QAM	100	0	16.30	16.30	16.30				
20	16QAM	100	49	16.30	16.30	16.30	17.8	0		
20	16QAM	100	99	16.47	16.54	16.60				
20	16QAM	1	0	16.33	16.50	16.42	17.8	0		
20	16QAM	1	49	16.33	16.50	16.42				
20	16QAM	50	0	16.37	16.59	16.28				
20	16QAM	50	49	16.36	16.50	16.40	17.8	0		
20	16QAM	50	99	16.38	16.50	16.40				
20	16QAM	100	0	16.30	16.30	16.30				
20	16QAM	100	49	16.30	16.30	16.30	17.8	0		
20	16QAM	100	99	16.35	16.41	16.39				
20	256QAM	1	0	16.30	16.30	16.30				
20	256QAM	1	49	16.30	16.30	16.30	17.5	0.1		
20	256QAM	50	0	16.32	16.50	16.33				
20	256QAM	50	49	16.26	16.40	16.40	17.5	0.1		
20	256QAM	50	99	16.23	16.36	16.36				
Channel										
Frequency (MHz)										
15	QPSK	1	0	16.64	16.68	16.61				
15	QPSK	1	37	16.46	16.65	16.61	17.8	0		
15	QPSK	1	74	16.40	16.44	16.40				
15	QPSK	36	0	16.60	16.66	16.64				
15	QPSK	36	37	16.37	16.58	16.45	17.8	0		
15	QPSK	36	74	16.34	16.51	16.34				
15	QPSK	75	0	16.60	16.60	16.60				
15	16QAM	1	0	16.50	16.54	16.54				
15	16QAM	1	37	16.17	16.47	16.34	17.8	0		
15	16QAM	1	74	16.21	16.40	16.40				
15	16QAM	36	0	16.37	16.40	16.24				
15	16QAM	36	37	16.24	16.53	16.32	17.8	0		
15	16QAM	36	74	16.24	16.44	16.38				
15	16QAM	75	0	16.41	16.44	16.33				
15	16QAM	75	37	16.30	16.45	16.45	17.8	0		
15	16QAM	75	74	16.15	16.36	16.34				
15	16QAM	36	0	16.38	16.38	16.30				
15	16QAM	36	37	16.30	16.40	16.40	17.8	0		
15	16QAM	36	74	16.35	16.52	16.40				
15	16QAM	75	0	16.16	16.42	16.34				
15	256QAM	1	0	16.16	16.42	16.34				
15	256QAM	1	49	16.35	16.41	16.39	17.5	0.1		
15	256QAM	1	99	16.20	16.26	16.15				
15	256QAM	50	0	16.25	16.40	16.20				
15	256QAM	50	49	16.25	16.40	16.20	17.5	0.1		
15	256QAM	50	99	16.25	16.40	16.20				
Channel										
Frequency (MHz)										
10	QPSK	1	0	16.62	16.62	16.62				
10	QPSK	1	49	16.41	16.46	16.43	17.8	0		
10	QPSK	25	0	16.30	16.36	16.30				
10	QPSK	25	12	16.46	16.52	16.43				
10	QPSK	25	25	16.47	16.55	16.49	17.8	0		
10	QPSK	50	0	16.37	16.37	16.30				
10	QPSK	50	49	16.43	16.47	16.55	17.8	0		
10	16QAM	1	0	16.27	16.53	16.40	17.8	0		
10	16QAM	1	25	16.20	16.30	16.30				
10	16QAM	25	0	16.38	16.53	16.31				
10	16QAM	25	12	16.25	16.51	16.11	17.8	0		
10	16QAM	25	25	16.25	16.40	16.40				
10	16QAM	50	0	16.22	16.54	16.23				
10	16QAM	50	49	16.26	16.36	16.55	17.8	0		
10	16QAM	50	99	16.20	16.33	16.20				
10	16QAM	1	0	16.18	16.31	16.30				
10	16QAM	25	0	16.39	16.52	16.50				
10	16QAM	25	12	16.30	16.40	16.40	17.8	0		
10	16QAM	25	25	16.34	16.51	16.51				
10	16QAM	50	0	16.12	16.47	16.36				
10	256QAM	1	0	16.20	16.30	16.20				
10	256QAM	1	49	16.20	16.35	16.15	17.5	0.1		
10	256QAM	50	0	16.22	16.38	16.18				
10	256QAM	25	0	16.16	16.31	16.16	17.5	0.1		
10	256QAM	25	12	16.27	16.29	16.29				
Channel										
Frequency (MHz)										
5	QPSK	1	0	16.65	16.63	16.65				
5	QPSK	1	12	16.38	16.69	16.63	17.8	0		
5	QPSK	1	24	16.46	16.44	16.40				
5	QPSK	3	0	16.46	16.56	16.47				
5	QPSK	3	12	16.34	16.57	16.50	17.8	0		
5	QPSK	12	0	16.43	16.54	16.53				
5	QPSK	12	12	16.34	16.54	16.53				
5	16QAM	1	0	16.40	16.50	16.46				
5	16QAM	1	12	16.21	16.46	16.31	17.8	0		
5	16QAM	1	24	16.24	16.33	16.41				
5	16QAM	12	0	16.38	16.54	16.16				
5	16QAM	12	12	16.17	16.43	16.16	17.8	0		
5	16QAM	12	24	16.22	16.42	16.31				
5	16QAM	25	0	16.27	16.48	16.31				
5	16QAM	25	12	16.20	16.43	16.50	17.8	0		
5	16QAM	25	12	16.22	16.42	16.42				
5	16QAM	25	24	16.18	16.25	16.30				
5	16QAM	12	0	16.31	16.40	16.12				
5	16QAM	12	12	16.32	16.49	16.42	17.8	0		
5	16QAM	12	24	16.31	16.51	16.50				
5	16QAM	25	0	16.29	16.31	16.34				
5	16QAM	25	12	16.49	16.53	16.34				
5	256QAM	1	0	16.17	16.30	16.19				
5	256QAM	1	49	16.14	16.36	16.16	17.5	0.1		
5	256QAM	12	0	16.28	16.22	16.24				
5	256QAM	12	12	16.23	16.38	16.23	17.5	0.1		
5	256QAM	12	24	16.16	16.15	16.15				
Channel										
Frequency (MHz)										
3	QPSK	1	0	16.57	16.50	16.50				
3	QPSK	1	8	16.42	16.53	16.46	17.8	0		
3	QPSK	1	14	16.46	16.46	16.46				
3	QPSK	3	0	16.51	16.58	16.47				
3	QPSK	3	8	16.30	16.49	16.37	17.8	0		
3	QPSK	3	14	16.43	16.68	16.50				
3	QPSK	12	0	16.46	16.52	16.52				
3	16QAM	1	0	16.37	16.45	16.46				
3	16QAM	1	8	16.11	16.53	16.32	17.8	0		
3	16QAM	1	14	16.33	16.34	16.24				
3	16QAM	3	0	16.37	16.45	16.24				
3	16QAM	3	8	16.21	16.55	16.24	17.8	0		
3	16QAM	3	14	16.23	16.43	16.28				
3	16QAM	12	0	16.26	16.46	16.34				
3	16QAM	12	8	16.13	16.34	16.33	17.8	0		
3	16QAM	12	14	16.29	16.36	16.34				
3	16QAM	3	0	16.47	16.47	16.24				
3	16QAM	3	8	16.25	16.51	16.24	17.8	0		
3	16QAM	3	14	16.34	16.50	16.44				



Band 38 Ant 1 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPE (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.85	22.85	22.85	24	0	
20	QPSK	1	49	22.79	22.83	22.85			
20	QPSK	50	0	21.89	21.92	21.77			
20	QPSK	50	24	21.87	21.81	21.67	23	1	
20	QPSK	100	0	21.71	21.82	21.86			
20	16QAM	1	0	21.79	21.75	21.57	23	1	
20	16QAM	1	49	21.76	21.72	21.55			
20	16QAM	1	99	21.71	21.83	21.84			
20	16QAM	50	0	20.97	20.99	20.86			
20	16QAM	50	24	20.94	20.92	20.86			
20	16QAM	50	50	20.76	20.69	20.78			
20	16QAM	100	0	20.79	20.75	20.68			
20	16QAM	100	0	20.54	20.52	20.51			
20	16QAM	1	49	20.77	20.85	20.86	22	2	
20	16QAM	1	99	20.68	20.92	20.89			
20	16QAM	50	0	19.83	19.88	19.76			
20	16QAM	50	24	19.89	19.84	19.81			
20	16QAM	50	50	19.77	19.83	19.78			
20	16QAM	100	0	19.68	19.75	19.74			
20	25QAM	1	0	17.98	17.89	17.83			
20	25QAM	1	49	17.91	17.89	17.82	19	5	
20	25QAM	1	99	17.87	17.73	17.80			
20	25QAM	50	0	17.89	17.82	17.71			
20	25QAM	50	24	17.74	17.82	17.58			
20	25QAM	50	50	17.71	17.70	17.64	19	5	
20	25QAM	100	0	17.55	17.60	17.58			
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.74	22.92	22.73	24	0	
15	QPSK	1	37	22.84	22.77	22.87			
15	QPSK	1	74	22.96	22.86	22.92			
15	QPSK	36	0	21.79	21.75	21.66	23	1	
15	QPSK	36	20	21.76	21.85	21.48			
15	QPSK	75	0	21.68	21.70	21.49			
15	16QAM	1	0	21.74	21.56	21.48	23	1	
15	16QAM	1	37	21.58	21.56	21.45			
15	16QAM	1	74	21.57	21.52	21.49			
15	16QAM	36	0	20.93	20.90	20.74			
15	16QAM	36	20	20.92	20.74	20.89	22	2	
15	16QAM	36	50	20.83	20.49	20.89			
15	16QAM	75	0	20.83	20.73	20.85			
15	16QAM	1	0	20.79	20.71	20.43			
15	16QAM	1	37	20.87	20.53	20.49	22	2	
15	16QAM	1	74	20.87	20.58	20.46			
15	16QAM	36	0	20.71	20.71	19.89			
15	16QAM	36	20	19.84	19.80	19.46	21	3	
15	16QAM	36	50	19.88	19.77	19.88			
15	16QAM	75	0	19.51	19.39	19.35			
15	25QAM	1	0	17.78	17.82	17.69	19	5	
15	25QAM	1	37	17.71	17.71	17.48			
15	25QAM	1	74	17.82	17.53	17.65			
15	25QAM	36	0	17.48	17.62	17.29			
15	25QAM	36	20	17.47	17.77	17.44			
15	25QAM	36	50	17.61	17.66	17.58			
15	25QAM	75	0	17.68	17.46	17.41	19	5	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.70	22.70	22.70	24	0	
10	QPSK	1	25	22.67	22.66	22.53			
10	QPSK	1	49	22.63	22.64	22.50			
10	QPSK	12	0	21.70	21.75	21.65	23	1	
10	QPSK	25	12	21.78	21.65	21.46			
10	QPSK	25	25	21.76	21.70	21.67			
10	16QAM	1	0	21.68	21.69	21.82	23	1	
10	16QAM	1	25	21.60	21.54	21.42			
10	16QAM	1	49	21.62	21.49	21.59			
10	16QAM	25	0	20.84	20.81	20.68			
10	16QAM	25	12	20.75	20.72	20.47			
10	16QAM	25	25	20.68	20.65	20.52	22	2	
10	16QAM	50	0	20.74	20.68	20.64			
10	16QAM	1	0	20.68	20.70	20.56			
10	16QAM	1	25	20.72	20.55	20.59	22	2	
10	16QAM	1	49	20.48	20.51	20.59			
10	16QAM	25	0	19.65	19.78	19.62			
10	16QAM	25	12	19.85	19.66	19.53	21	3	
10	16QAM	25	25	19.58	19.69	19.60			
10	16QAM	50	0	19.65	19.68	19.70			
10	25QAM	1	0	17.87	17.78	17.73			
10	25QAM	1	25	17.89	17.70	17.51	19	5	
10	25QAM	1	49	17.79	17.52	17.61			
10	25QAM	12	0	17.60	17.87	17.68			
10	25QAM	25	12	17.58	17.70	17.51			
10	25QAM	25	25	17.64	17.51	17.50	19	5	
10	25QAM	50	0	17.62	17.44	17.48			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.76	22.73	22.81	24	0	
5	QPSK	1	19	22.71	22.73	22.81			
5	QPSK	1	24	22.72	22.85	22.67			
5	QPSK	12	0	21.71	21.78	21.62	23	1	
5	QPSK	12	7	21.68	21.60	21.54			
5	QPSK	12	19	21.71	21.56	21.69			
5	QPSK	25	0	21.68	21.69	21.54			
5	QPSK	0	21.68	21.66	21.42				
5	16QAM	1	12	21.64	21.66	21.56	23	1	
5	16QAM	1	24	21.54	21.50	21.56			
5	16QAM	12	0	20.84	20.92	20.81			
5	16QAM	12	7	20.76	20.69	20.54	22	2	
5	16QAM	12	19	20.66	20.60	20.70			
5	16QAM	25	0	20.78	20.75	20.68			
5	16QAM	1	0	20.68	20.68	20.50			
5	16QAM	1	12	20.68	20.58	20.56	22	2	
5	16QAM	1	24	20.81	20.45	20.62			
5	16QAM	12	0	19.50	19.76	19.66			
5	16QAM	12	7	19.70	19.65	19.46	21	3	
5	16QAM	12	19	19.59	19.78	19.61			
5	25QAM	1	0	17.79	17.83	17.78			
5	25QAM	1	12	17.88	17.87	17.54	19	5	
5	25QAM	1	24	17.80	17.68	17.72			
5	25QAM	12	0	17.58	17.75	17.67			
5	25QAM	12	7	17.67	17.68	17.51			
5	25QAM	12	19	17.59	17.67	17.50	19	5	
5	25QAM	25	0	17.58	17.52	17.44			

Band 41 Ant 1 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPE (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.87	22.82	22.93	24	0	
20	QPSK	1	49	22.89	22.74	22.90			
20	QPSK	50	0	21.89	21.80	21.91			
20	QPSK	50	24	21.70	21.78	21.89	23	1	
20	QPSK	100	0	21.68	21.86	21.76			
20	QPSK	100	0	21.78	21.79	21.85			
20	16QAM	1	0	21.62	21.65	21.83	23	1	
20	16QAM	1	49	21.57	21.61	21.77			
20	16QAM	1	99	21.56	21.58	21.78			
20	16QAM	50	0	20.81	20.74	20.94			
20	16QAM	50	24	20.75	20.71	20.88			
20	16QAM	50	50	20.74	20.61	20.87	22	2	
20	16QAM	100	0	20.74	20.72	20.64			
20	16QAM	100	0	20.51	20.52	20.50			
20	16QAM	1	49	20.62	20.55	20.78	22	2	
20	16QAM	1	99	20.53	20.52	20.73			
20	16QAM	50	0	19.87	19.88	19.85			
20	16QAM	50	24	19.82	19.77	19.97	21	3	
20	16QAM	50	50	19.81	19.75	19.77			
20	16QAM	100	0	19.74	19.80	19.78			
20	25QAM	1	0	17.91	17.82	17.86			
20	25QAM	1	49	17.75	17.83	17.82	19	5	
20	25QAM	1	99	17.67	17.76	17.82			
20	25QAM	50	0	17.69	17.69	17.79			
20	25QAM	50	24	17.77	17.59	17.84	19	5	
20	25QAM	50	50	17.50	17.62	17.78			
20	25QAM	100	0	17.48	17.53	17.60			
Channel									
Frequency (MHz)									
16	QPSK	1	0	22.73	22.82	22.76	24	0	
16	QPSK	1	37	22.85	22.67	22.83			
16	QPSK	1	74	22.83	22.61	22.80			
16	QPSK	36	0	21.81	21.72	21.82	23	1	
16	QPSK	36	20	21.80	21.66	21.82			
16	QPSK	75	0	21.81	21.74	21.70			
16	16QAM	1	0	21.82	21.59	21.78	23	1	
16	16QAM	1	37	21.61	21.68	21.61			
16	16QAM	1	74	21.44	21.42	21.64			
16	16QAM	36	0	20.68	20.62	20.76			
16	16QAM	36	20	20.68	20.70	20.75	22	2	
16	16QAM	36	50	20.55	20.49	20.79			
16	16QAM	75	0	20.53	20.56	20.79			
16	16QAM	1	0	20.58	20.49	20.81			
16	16QAM	1	37	20.44	20.50	20.68	22	2	
16	16QAM	1	74	20.48	20.37	20.64			
16	16QAM	36	0	19.83	19.70	19.76			
16	16QAM	36	20	19.49	19.60	19.77	21	3	
16	16QAM	36	50	19.88	19.77	19			



Band 38 Ant 4 DSI2														
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	20.17	20.22	20.17	21.3	0						
20	QPSK	1	49	19.99	20.09	20.05								
20	QPSK	1	99	19.80	20.04	20.05								
20	QPSK	50	0	20.04	20.13	20.00								
20	QPSK	50	24	19.89	19.97	19.94								
20	QPSK	100	0	20.02	20.02	20.06								
20	16QAM	1	0	19.83	20.01	19.93			21.3	0				
20	16QAM	1	49	19.91	19.94	19.97								
20	16QAM	1	99	19.84	20.04	19.94								
20	16QAM	50	0	19.81	19.96	19.96								
20	16QAM	50	24	19.89	19.99	19.94								
20	16QAM	100	0	19.99	20.02	19.99								
20	64QAM	1	49	19.77	19.85	19.89	21.3	0						
20	64QAM	1	99	19.96	20.00	19.93								
20	64QAM	50	0	19.73	19.84	19.76								
20	64QAM	50	24	19.84	19.80	19.87								
20	64QAM	100	0	19.76	19.83	19.59								
20	64QAM	100	0	19.81	19.77	19.72								
20	256QAM	1	0	17.67	17.86	17.80			19	2.3				
20	256QAM	1	49	17.92	17.75	17.82								
20	256QAM	1	99	17.71	17.86	17.49								
20	256QAM	50	0	17.67	17.83	17.77								
20	256QAM	50	24	17.61	17.78	17.59								
20	256QAM	50	50	17.58	17.85	17.40								
20	256QAM	100	0	17.71	17.83	17.48								
Channel														
Frequency (MHz)														
15	QPSK	1	0	20.17	20.09	20.17	21.3	0						
15	QPSK	1	37	19.96	20.00	20.00								
15	QPSK	1	74	19.90	20.01	20.01								
15	QPSK	36	0	19.90	19.91	19.97								
15	QPSK	36	20	19.72	19.87	19.71								
15	16QAM	1	0	19.77	19.96	19.76			21.3	0				
15	16QAM	1	37	19.84	19.96	19.76								
15	16QAM	1	74	19.84	19.96	19.76								
15	16QAM	36	0	19.74	19.92	19.84								
15	16QAM	36	20	19.55	19.86	19.82								
15	16QAM	36	39	19.86	19.88	19.71								
15	16QAM	75	0	19.72	19.84	19.86								
15	64QAM	1	0	19.99	19.93	20.00								
15	64QAM	1	37	19.73	19.82	19.85								
15	16QAM	75	0	19.72	19.84	19.86								
15	64QAM	36	0	19.83	19.71	19.86								
15	64QAM	36	20	19.49	19.80	19.53	21	0.3						
15	64QAM	36	39	19.73	19.48	19.58								
15	64QAM	75	0	19.67	19.88	19.59								
15	256QAM	1	0	17.50	17.87	17.71			19	2.3				
15	256QAM	1	37	17.65	17.83	17.66								
15	256QAM	1	74	17.55	17.48	17.41								
15	256QAM	36	0	17.63	17.80	17.68								
15	256QAM	36	20	17.46	17.71	17.44								
15	256QAM	36	39	17.40	17.48	17.38								
15	256QAM	75	0	17.61	17.42	17.68								
Channel														
Frequency (MHz)														
10	QPSK	1	0	20.08	20.14	20.08	21.3	0						
10	QPSK	1	25	19.91	19.94	19.97								
10	QPSK	1	49	19.80	19.84	19.95								
10	QPSK	25	0	20.00	20.05	20.07								
10	QPSK	25	12	19.72	19.91	19.89								
10	QPSK	25	25	19.85	19.90	19.82								
10	16QAM	1	0	19.65	19.84	19.78			21.3	0				
10	16QAM	1	25	19.76	19.96	19.72								
10	16QAM	1	49	19.76	20.00	19.87								
10	16QAM	25	0	19.74	19.86	19.91								
10	16QAM	25	12	19.50	19.71	19.84								
10	16QAM	25	25	19.86	20.05	19.72								
10	64QAM	1	0	19.99	19.93	20.07								
10	64QAM	1	25	19.59	19.94	19.73								
10	64QAM	50	0	19.81	19.87	19.87	21	0.3						
10	64QAM	1	0	17.49	17.87	17.68								
10	256QAM	1	25	17.55	17.54	17.44								
10	256QAM	1	49	17.65	17.59	17.45								
10	256QAM	25	0	17.56	17.77	17.73								
10	256QAM	25	12	17.58	17.82	17.65								
10	256QAM	25	25	17.46	17.60	17.35								
10	256QAM	50	0	17.63	17.48	17.31								
Channel														
Frequency (MHz)														
5	QPSK	1	0	20.06	20.04	20.05	21.3	0						
5	QPSK	1	12	19.90	19.97	20.03								
5	QPSK	1	24	19.85	19.87	20.01								
5	QPSK	12	0	19.95	20.05	19.98								
5	QPSK	12	7	19.75	19.88	19.72			21.3	0				
5	QPSK	12	13	19.82	19.90	19.85								
5	QPSK	25	0	19.88	19.95	20.00								
5	16QAM	1	0	19.67	19.85	19.87								
5	16QAM	1	12	19.82	19.91	19.85								
5	16QAM	1	24	19.81	19.89	19.92					21.3	0		
5	16QAM	12	0	19.76	19.83	19.86								
5	16QAM	12	7	19.50	19.79	19.86								
5	16QAM	12	13	19.78	19.70	19.70								
5	16QAM	25	0	19.82	20.00	19.78								
5	64QAM	1	0	19.86	19.87	20.08								
5	64QAM	1	12	19.77	19.83	19.74	21.3	0						
5	64QAM	1	24	19.93	19.95	19.79								
5	64QAM	12	0	19.59	19.85	19.69								
5	64QAM	12	7	19.43	19.74	19.69								
5	64QAM	12	13	19.59	19.47	19.43								
5	64QAM	25	0	19.69	19.80	19.83								
5	256QAM	1	0	17.50	17.76	17.76								
5	256QAM	1	12	17.67	17.83	17.59								
5	256QAM	1	24	17.51	17.46	17.35								
5	256QAM	12	0	17.71	17.71	17.66								
5	256QAM	12	7	17.67	17.80	17.48								
5	256QAM	12	13	17.51	17.62	17.32								
5	256QAM	25	0	17.68	17.38	17.38								

Band 41 Ant 4 DSI2														
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	20.22	20.25	20.15	21.3	0						
20	QPSK	1	49	20.21	20.05	20.20								
20	QPSK	1	99	20.03	20.09	20.16								
20	QPSK	50	0	20.12	20.10	20.11								
20	QPSK	50	24	20.09	19.96	20.12								
20	QPSK	100	0	20.11	20.03	20.04								
20	16QAM	1	0	20.16	19.99	20.17			21.3	0				
20	16QAM	1	49	20.01	19.90	19.97								
20	16QAM	1	99	20.19	19.90	20.10								
20	16QAM	50	0	20.02	19.96	20.04								
20	16QAM	50	24	20.05	19.78	20.02								
20	16QAM	100	0	20.08	19.99	20.01								
20	64QAM	1	0	20.11	20.05	20.14	21.3	0						
20	64QAM	1	49	20.04	19.91	20.03								
20	64QAM	1	99	20.19	19.93	20.14								
20	64QAM	50	0	19.87	19.47	19.85								
20	64QAM	50	24	19.92	19.50	19.59								
20	64QAM	100	0	19.80	19.84	19.60								
20	256QAM	1	0	17.62	17.45	17.56			19	2.3				
20	256QAM	1	49	17.43	17.38	17.41								
20	256QAM	1	99	17.45	17.56	17.57								
20	256QAM	50	0	17.67	17.48	17.52								
20	256QAM	50	24	17.53	17.20	17.48								
20	256QAM	50	50	17.										



Band 42 Ant 5 DSI2

Bit (Hz)	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)				3440	3660	42990		
20	QPSK	1	0	15.78	15.82	15.75	16.8	0
20	QPSK	1	49	15.74	15.85	15.83		
20	QPSK	1	99	15.71	15.77	15.63		
20	QPSK	50	0	15.69	15.77	15.70		
20	QPSK	50	24	15.70	15.65	15.71	16.8	0
20	QPSK	50	49	15.73	15.65	15.70		
20	QPSK	100	0	15.71	15.75	15.69		
20	HQAM	1	0	15.67	15.65	15.61		
20	HQAM	1	49	15.69	15.49	15.54	16.8	0
20	HQAM	1	99	15.58	15.59	15.55		
20	HQAM	50	0	15.63	15.70	15.59		
20	HQAM	50	24	15.62	15.52	15.55	16.8	0
20	HQAM	50	49	15.60	15.56	15.56		
20	HQAM	100	0	15.57	15.56	15.55		
20	HQAM	1	0	15.71	15.55	15.57		
20	HQAM	1	49	15.64	15.54	15.49	16.8	0
20	HQAM	1	99	15.60	15.64	15.66		
20	HQAM	50	0	15.59	15.63	15.61		
20	HQAM	50	24	15.63	15.47	15.60	16.8	0
20	HQAM	50	49	15.61	15.53	15.60		
20	HQAM	100	0	15.62	15.61	15.59		
20	SRSSAM	1	0	15.71	15.63	15.68		
20	SRSSAM	1	49	15.65	15.59	15.59	16.8	0
20	SRSSAM	1	99	15.56	15.60	15.46		
20	SRSSAM	50	0	15.65	15.77	15.63		
20	SRSSAM	50	24	15.54	15.51	15.59	16.8	0
20	SRSSAM	50	49	15.61	15.61	15.61		
20	SRSSAM	100	0	15.57	15.68	15.54		
Channel								
Frequency (MHz)				3465	3700	43015		
15	QPSK	1	0	15.62	15.60	15.62		
15	QPSK	1	37	15.67	15.63	15.61	16.8	0
15	QPSK	1	74	15.64	15.64	15.61		
15	QPSK	36	0	15.65	15.61	15.64		
15	QPSK	36	20	15.58	15.51	15.61	16.8	0
15	QPSK	36	39	15.65	15.68	15.69		
15	QPSK	75	0	15.63	15.62	15.63		
15	HQAM	1	0	15.50	15.53	15.55		
15	HQAM	1	37	15.42	15.38	15.42	16.8	0
15	HQAM	1	74	15.42	15.41	15.39		
15	HQAM	36	0	15.36	15.62	15.42		
15	HQAM	36	39	15.45	15.45	15.45	16.8	0
15	HQAM	36	39	15.48	15.43	15.46		
15	HQAM	75	0	15.57	15.57	15.51		
15	HQAM	1	0	15.65	15.60	15.45		
15	HQAM	1	37	15.37	15.45	15.41	16.8	0
15	HQAM	1	74	15.53	15.46	15.37		
15	HQAM	36	0	15.49	15.54	15.53		
15	HQAM	36	20	15.62	15.53	15.52	16.8	0
15	HQAM	36	39	15.42	15.42	15.52		
15	HQAM	75	0	15.55	15.51	15.42		
15	SRSSAM	1	0	15.55	15.50	15.49	16.8	0
15	SRSSAM	1	37	15.57	15.45	15.50		
15	SRSSAM	1	74	15.44	15.52	15.31		
15	SRSSAM	36	0	15.43	15.65	15.47		
15	SRSSAM	36	20	15.45	15.39	15.44	16.8	0
15	SRSSAM	36	39	15.44	15.44	15.49		
15	SRSSAM	75	0	15.43	15.36	15.41		
Channel								
Frequency (MHz)				3490	3700	43445		
10	QPSK	1	0	15.61	15.60	15.59		
10	QPSK	1	25	15.64	15.58	15.48	16.8	0
10	QPSK	1	49	15.65	15.69	15.48		
10	QPSK	36	0	15.66	15.68	15.64		
10	QPSK	25	12	15.67	15.51	15.54	16.8	0
10	QPSK	25	25	15.62	15.67	15.55		
10	QPSK	50	0	15.69	15.63	15.54		
10	HQAM	1	0	15.68	15.69	15.61		
10	HQAM	1	25	15.41	15.32	15.47	16.8	0
10	HQAM	1	49	15.44	15.49	15.48		
10	HQAM	25	0	15.39	15.54	15.41		
10	HQAM	25	12	15.61	15.46	15.37	16.8	0
10	HQAM	25	25	15.54	15.33	15.44		
10	HQAM	50	0	15.51	15.49	15.47		
10	HQAM	1	0	15.60	15.63	15.43		
10	HQAM	1	25	15.54	15.48	15.40	16.8	0
10	HQAM	25	0	15.62	15.48	15.28		
10	HQAM	25	0	15.48	15.48	15.46		
10	HQAM	25	12	15.48	15.38	15.53	16.8	0
10	HQAM	25	25	15.49	15.47	15.46		
10	HQAM	50	0	15.49	15.45	15.44		
10	SRSSAM	1	0	15.68	15.61	15.56		
10	SRSSAM	1	25	15.54	15.44	15.41	16.8	0
10	SRSSAM	1	49	15.44	15.47	15.35		
10	SRSSAM	25	0	15.41	15.58	15.55		
10	SRSSAM	25	12	15.41	15.42	15.45	16.8	0
10	SRSSAM	25	25	15.55	15.31	15.47		
10	SRSSAM	50	0	15.51	15.55	15.47		
Channel								
Frequency (MHz)				3492.5	3500	43705		
5	QPSK	1	0	15.63	15.66	15.61		
5	QPSK	1	15	15.60	15.47	15.49	16.8	0
5	QPSK	1	24	15.57	15.58	15.57		
5	QPSK	12	0	15.62	15.61	15.56		
5	QPSK	12	7	15.60	15.55	15.55	16.8	0
5	QPSK	12	13	15.67	15.54	15.60		
5	QPSK	25	0	15.64	15.60	15.62		
5	HQAM	1	0	15.50	15.59	15.45		
5	HQAM	1	12	15.51	15.32	15.45	16.8	0
5	HQAM	1	24	15.51	15.48	15.50		
5	HQAM	12	0	15.41	15.63	15.36		
5	HQAM	12	7	15.65	15.41	15.40	16.8	0
5	HQAM	12	13	15.49	15.49	15.41		
5	HQAM	25	0	15.48	15.68	15.44		
5	HQAM	1	0	15.60	15.53	15.44		
5	HQAM	1	12	15.49	15.39	15.38	16.8	0
5	HQAM	1	24	15.44	15.50	15.36		
5	HQAM	12	0	15.59	15.46	15.44		
5	HQAM	12	7	15.50	15.31	15.44	16.8	0
5	HQAM	12	13	15.59	15.42	15.46		
5	HQAM	25	0	15.63	15.44	15.43		
5	SRSSAM	1	0	15.61	15.48	15.45		
5	SRSSAM	1	12	15.58	15.41	15.41	16.8	0
5	SRSSAM	1	24	15.44	15.44	15.40		
5	SRSSAM	12	0	15.44	15.59	15.54		
5	SRSSAM	12	7	15.39	15.34	15.45	16.8	0
5	SRSSAM	12	13	15.51	15.43	15.51		
5	SRSSAM	25	0	15.44	15.40	15.42		



Reduced Power Mode for DSI3

MIDREQ	Current Average Power (dBm)			Turn-up Limit (dBm)	Frame Average Power (dBm)			Turn-up Limit (dBm)
	15W	18W	21W		15W	18W	21W	
TV Channel	192.2	194.4	194.8	192.2	192.2	194.4	194.8	
Frequency (MHz)	32.27	32.37	32.52	33.56	33.77	33.77	33.22	24.60
OPRR-1 Tx (uW)	12.25	12.40	12.30	13.50	13.35	13.46	13.30	14.50
OPRR-2 Tx (uW)	30.27	30.38	30.88	31.50	31.27	31.38	31.38	25.50
OPRR-3 Tx (uW)	26.51	26.84	26.53	28.50	28.55	28.38	28.27	25.24
OPRR-4 Tx (uW)	26.52	27.00	27.50	28.50	28.52	28.50	28.00	25.05
EDGE-1 Tx (uW)	25.25	25.44	25.58	26.50	16.25	16.44	16.38	17.50
EDGE-2 Tx (uW)	24.60	25.07	25.02	26.00	16.60	16.97	16.92	20.00
EDGE-3 Tx (uW)	24.31	24.44	24.32	25.50	20.05	20.18	20.06	21.24
EDGE-4 Tx (uW)	23.71	23.79	23.93	25.00	20.71	20.79	20.60	20.00

MIDREQ	Current Average Power (dBm)			Turn-up Limit (dBm)	Frame Average Power (dBm)			Turn-up Limit (dBm)
	15W	18W	21W		15W	18W	21W	
TV Channel	192.2	194.4	194.8	192.2	192.2	194.4	194.8	
Frequency (MHz)	192.2	193.3	193.3	192.2	192.2	193.3	193.3	
OPRR-1 Tx (uW)	26.54	26.49	26.38	27.10	17.04	17.40	17.38	18.10
OPRR-2 Tx (uW)	21.40	21.48	21.40	22.10	16.48	16.48	16.48	16.48
OPRR-3 Tx (uW)	21.40	21.45	21.40	22.30	17.23	17.13	17.23	18.04
OPRR-4 Tx (uW)	19.60	19.97	19.75	21.10	16.92	16.97	16.75	18.10
EDGE-1 Tx (uW)	24.58	24.23	24.43	26.00	15.38	15.23	15.43	17.60
EDGE-2 Tx (uW)	22.85	23.08	22.81	24.10	16.95	17.08	16.81	18.10
EDGE-3 Tx (uW)	21.71	21.68	21.78	22.30	16.97	17.20	16.90	18.04
EDGE-4 Tx (uW)	19.69	19.38	20.15	21.10	16.85	16.98	17.15	18.10

Base	WCDMA V.92.0 (dBm)			Turn-up Limit (dBm)	WCDMA V.92.0 (dBm)			WCDMA V.92.0 (dBm)			Turn-up Limit (dBm)
	3302	3400	3538		1312	1413	1513	4132	4152	4233	
TV Channel	9692	9800	9938	9692	9692	9692	9692	9692	9692	9692	
Frequency (MHz)	1852.4	1890	1997.6	1852.4	1722.4	1752.8	1762.8	1852.4	186.4	186.4	186.6
ISPP PWR 90	18.21	18.74	18.80	19.70	16.71	16.87	16.84	18.20	23.10	23.10	23.00
ISPP PWR 90	18.75	18.80	18.72	19.70	16.86	16.92	16.88	18.20	23.12	23.10	24.00
ISPP PWR 6	16.71	16.79	16.88	16.70	15.84	15.90	15.85	17.20	22.20	22.24	22.00
ISPP PWR 6	16.60	16.83	16.78	16.70	15.95	15.96	15.91	17.20	22.11	22.20	22.14
ISPP PWR 6	17.30	17.20	17.17	16.20	15.41	15.45	15.41	16.70	21.83	21.60	21.73
ISPP PWR 6	14.23	14.41	14.78	16.70	13.87	13.87	13.84	15.20	20.16	20.08	20.00
ISPP PWR 6	16.78	16.70	16.72	16.70	15.81	15.90	15.90	17.20	22.15	22.12	22.10
ISPP PWR 6	16.81	16.79	16.69	17.70	14.85	14.95	14.85	16.20	21.10	21.10	21.10
ISPP PWR 6	14.71	14.81	14.71	16.70	13.84	13.88	13.82	15.20	20.11	20.10	20.06
ISPP PWR 6	16.77	16.78	16.73	16.70	15.93	15.96	15.87	17.20	22.21	22.20	22.00
ISPP PWR 7	14.23	14.33	14.23	16.20	13.35	13.40	13.44	14.70	19.82	19.80	19.82



Band 13 Ant 0 DS13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (min)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.87	22.87	22.70			24	0
10	QPSK	1	25	22.87	22.87	22.70				
10	QPSK	1	49	23.78	23.78	23.61				
10	QPSK	25	0	21.80	21.80	21.73			23	1
10	QPSK	25	25	21.87	21.87	21.73				
10	QPSK	25	50	21.89	21.89	21.64			23	1
10	QPSK	50	0	21.88	21.76	21.61				
10	QPSK	50	25	21.93	21.79	21.64				
10	16QAM	1	25	21.81	21.49	21.53			23	1
10	16QAM	1	49	21.82	21.54	21.51				
10	16QAM	25	0	20.93	20.96	20.94				
10	16QAM	25	12	20.98	20.75	20.72			22	2
10	16QAM	25	25	20.77	20.84	20.70				
10	16QAM	50	0	20.88	20.83	20.69				
10	16QAM	1	0	20.91	20.70	20.61				
10	16QAM	1	25	20.83	20.43	20.38			22	2
10	16QAM	1	49	20.83	20.50	20.55				
10	16QAM	25	0	19.85	19.83	19.78				
10	16QAM	25	12	19.85	19.70	19.74			21	3
10	16QAM	25	25	19.82	19.59	19.61				
10	16QAM	50	0	19.82	19.66	19.60				
10	256QAM	1	0	17.83	17.86	17.76			19	5
10	256QAM	1	25	17.76	17.72	17.78				
10	256QAM	25	0	17.88	17.75	17.83				
10	256QAM	25	12	17.77	17.74	17.78			19	5
10	256QAM	25	25	17.89	17.87	17.87				
10	256QAM	50	0	17.85	17.83	17.89				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.89	22.74	22.72			24	0
5	QPSK	1	25	22.89	22.74	22.72				
5	QPSK	1	49	22.89	22.83	22.87				
5	QPSK	12	0	21.72	21.73	21.84			23	1
5	QPSK	12	7	21.76	21.84	21.73				
5	QPSK	12	13	21.85	21.51	21.54				
5	QPSK	25	0	21.89	21.78	21.70				
5	16QAM	1	25	21.70	21.68	21.68			23	1
5	16QAM	1	12	21.83	21.89	21.89				
5	16QAM	1	25	21.32	21.47	21.58				
5	16QAM	12	0	20.84	20.72	20.71			22	2
5	16QAM	12	7	20.88	20.68	20.78				
5	16QAM	12	13	20.86	20.82	20.46				
5	16QAM	25	0	20.82	20.81	20.79				
5	16QAM	1	0	20.70	20.72	20.87			22	2
5	16QAM	1	25	20.70	20.79	20.78				
5	16QAM	1	24	20.45	20.45	20.30				
5	16QAM	12	0	19.70	19.79	19.70			21	3
5	16QAM	12	7	19.86	19.83	19.78				
5	16QAM	12	13	19.25	19.25	19.49				
5	16QAM	25	0	19.71	19.64	19.68				
5	256QAM	1	0	17.67	17.64	17.65			19	5
5	256QAM	1	24	17.52	17.59	17.59				
5	256QAM	12	0	17.64	17.76	17.81				
5	256QAM	12	7	17.73	17.71	17.70			19	5
5	256QAM	12	13	17.84	17.68	17.84				
5	256QAM	25	0	17.38	17.40	17.25				

Band 17 Ant 0 DS13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (min)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.73	22.76	22.70			24	0
10	QPSK	1	25	22.62	22.67	22.60				
10	QPSK	1	49	22.67	22.81	22.89				
10	QPSK	25	0	21.76	21.87	21.73			23	1
10	QPSK	25	25	21.71	21.87	21.64				
10	QPSK	50	0	21.70	21.76	21.61				
10	16QAM	1	25	21.89	21.70	21.64				
10	16QAM	1	49	21.82	21.54	21.51			23	1
10	16QAM	25	0	20.79	20.96	20.94				
10	16QAM	25	12	20.89	20.75	20.72			22	2
10	16QAM	25	25	20.75	20.84	20.70				
10	16QAM	50	0	20.82	20.83	20.69				
10	16QAM	1	0	20.96	20.70	20.61				
10	16QAM	1	25	20.83	20.43	20.38			22	2
10	16QAM	1	49	20.84	20.50	20.55				
10	16QAM	25	0	19.78	19.83	19.78				
10	16QAM	25	12	19.73	19.70	19.74			21	3
10	16QAM	25	25	19.75	19.58	19.60				
10	256QAM	1	0	17.71	17.68	17.76			19	5
10	256QAM	1	49	17.65	17.72	17.73				
10	256QAM	25	0	17.73	17.74	17.78			19	5
10	256QAM	25	12	17.58	17.57	17.57				
10	256QAM	25	0	17.61	17.63	17.69				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.60	22.57	22.68			24	0
5	QPSK	1	12	22.61	22.62	22.68				
5	QPSK	1	24	22.60	22.67	22.62				
5	QPSK	12	0	21.62	21.62	21.68			23	1
5	QPSK	12	7	21.68	21.66	21.63				
5	QPSK	12	13	21.62	21.58	21.47				
5	QPSK	25	0	21.86	21.74	21.59				
5	16QAM	1	25	21.84	21.52	21.48			23	1
5	16QAM	1	12	21.48	21.39	21.49				
5	16QAM	12	0	20.86	20.82	20.46			22	2
5	16QAM	12	7	20.89	20.62	20.80				
5	16QAM	12	13	20.86	20.44	20.53				
5	16QAM	25	0	20.43	20.62	20.48				
5	16QAM	1	0	20.40	20.52	20.42			22	2
5	16QAM	1	25	20.40	20.50	20.38				
5	16QAM	12	0	19.59	19.77	19.67			21	3
5	16QAM	12	7	19.64	19.57	19.69				
5	16QAM	12	13	19.40	19.48	19.49				
5	16QAM	25	0	19.64	19.46	19.43				
5	256QAM	1	0	17.63	17.60	17.63			19	5
5	256QAM	1	12	17.71	17.54	17.25				
5	256QAM	1	24	17.64	17.61	17.38				
5	256QAM	12	0	17.66	17.65	17.34				
5	256QAM	12	7	17.41	17.57	17.37			19	5
5	256QAM	12	13	17.64	17.51	17.41				
5	256QAM	25	0	17.44	17.34	17.41				

Band 25 Ant 0 DS13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (min)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	19.43	19.46	19.40			20.5	0
20	QPSK	1	25	19.20	19.28	19.15				
20	QPSK	1	49	19.26	19.32	19.33				
20	QPSK	50	0	19.28	19.42	19.31				
20	QPSK	50	24	19.21	19.30	19.24			20.5	0
20	QPSK	50	50	19.25	19.19	19.28				
20	QPSK	100	0	19.33	19.34	19.25				
20	16QAM	1	0	19.29	19.31	19.23				
20	16QAM	1	49	19.17	19.19	19.15			20.5	0
20	16QAM	1	99	19.23	19.15	19.10				
20	16QAM	50	0	19.09	19.30	19.10				
20	16QAM	50	24	19.19	19.11	19.00			20.5	0
20	16QAM	50	50	19.16	19.08	19.10				
20	16QAM	100	0	19.28	19.19	19.12				
20	16QAM	1	0	19.30	19.35	19.24			20.5	0
20	16QAM	1	49	19.24	19.17	19.06				
20	16QAM	1	99	19.21	19.16	19.21				
20	16QAM	50	0	19.18	19.32	19.12			20.5	0
20	16QAM	50	24	19.04	19.01	19.06				
20	16QAM	50	50	19.08	19.02	19.14				



Band 66 Ant 0 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up limit (dB)	MFR (dB)
Channel								
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	16.18	16.23	16.20	17.3	0
20	QPSK	1	49	16.08	16.16	16.14		
20	QPSK	1	99	16.06	16.16	16.14		
20	QPSK	50	0	16.13	16.21	16.15	17.3	0
20	QPSK	50	24	15.84	15.90	15.87		
20	QPSK	50	50	15.85	16.04	16.01		
20	QPSK	100	0	16.06	16.17	16.13		
20	HQAM	1	0	16.04	16.10	16.13	17.3	0
20	HQAM	1	49	15.93	16.09	16.06		
20	HQAM	1	99	15.94	16.08	16.10		
20	HQAM	50	0	15.99	16.02	16.07		
20	HQAM	50	24	15.82	16.00	16.03	17.3	0
20	HQAM	50	50	15.89	16.00	16.02		
20	HQAM	100	0	15.97	16.06	16.07		
20	HQAM	1	0	16.15	16.19	16.05		
20	HQAM	1	49	16.02	16.14	16.05	17.3	0
20	HQAM	1	99	16.02	16.08	16.05		
20	HQAM	50	0	16.01	16.06	16.06		
20	HQAM	50	24	15.83	15.99	16.01	17.3	0
20	HQAM	50	50	15.84	15.93	15.95		
20	HQAM	100	0	15.94	16.09	16.05		
20	256QAM	1	0	16.07	16.17	16.07		
20	256QAM	1	49	15.94	16.06	16.05	17.3	0
20	256QAM	1	99	16.00	16.06	16.02		
20	256QAM	50	0	16.02	15.96	16.05		
20	256QAM	50	24	15.81	15.91	16.02	17.3	0
20	256QAM	50	50	15.86	15.89	15.89		
20	256QAM	100	0	16.01	16.02	16.05		
Channel								
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	16.13	16.16	16.15	17.3	0
15	QPSK	1	37	16.05	16.09	16.08		
15	QPSK	1	74	16.08	16.06	16.04		
15	QPSK	36	0	15.99	16.14	16.03	17.3	0
15	QPSK	36	20	15.97	15.93	16.00		
15	QPSK	36	36	15.88	16.00	15.95		
15	QPSK	75	0	16.00	16.08	16.01		
15	HQAM	1	0	15.97	15.99	16.03	17.3	0
15	HQAM	1	37	15.82	15.97	16.00		
15	HQAM	1	74	15.81	15.99	15.99		
15	HQAM	36	0	15.88	15.90	16.04		
15	HQAM	36	20	15.79	15.96	15.94	17.3	0
15	HQAM	36	36	15.75	15.97	15.85		
15	HQAM	75	0	15.88	15.96	15.99		
15	HQAM	1	0	16.07	16.05	16.01	17.3	0
15	HQAM	1	37	16.00	16.10	16.05		
15	HQAM	1	74	15.97	15.95	15.95		
15	HQAM	36	0	15.93	16.02	16.02	17.3	0
15	HQAM	36	20	15.73	15.99	15.88		
15	HQAM	36	36	15.78	15.83	15.85		
15	HQAM	75	0	15.84	16.02	16.01		
15	256QAM	1	0	16.02	16.03	16.08		
15	256QAM	1	37	15.85	15.99	15.94	17.3	0
15	256QAM	1	74	15.94	16.07	16.01		
15	256QAM	36	0	16.06	16.04	16.01		
15	256QAM	36	20	15.78	15.80	15.98	17.3	0
15	256QAM	36	36	15.73	15.85	15.76		
15	256QAM	75	0	15.90	15.98	15.86		
Channel								
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	16.14	16.17	16.20	17.3	0
10	QPSK	1	25	15.96	16.07	16.05		
10	QPSK	1	49	16.02	16.10	16.04		
10	QPSK	25	0	16.09	16.08	16.01	17.3	0
10	QPSK	25	12	15.81	15.91	15.98		
10	QPSK	25	25	15.86	15.93	15.97		
10	QPSK	50	0	16.03	16.13	16.08		
10	HQAM	1	0	16.00	15.98	15.98	17.3	0
10	HQAM	1	25	15.85	16.00	15.93		
10	HQAM	1	49	15.90	15.99	16.05		
10	HQAM	25	0	15.93	15.97	15.93		
10	HQAM	25	12	15.74	15.83	16.00	17.3	0
10	HQAM	25	25	15.78	15.92	15.87		
10	HQAM	50	0	15.91	15.99	15.98		
10	HQAM	1	0	16.04	16.09	15.99	17.3	0
10	HQAM	1	25	15.88	16.02	16.03		
10	HQAM	1	49	15.92	15.93	15.93		
10	HQAM	25	0	15.89	16.01	15.92		
10	HQAM	25	12	15.78	15.85	15.88	17.3	0
10	HQAM	25	25	15.79	15.88	15.84		
10	HQAM	50	0	15.85	16.04	15.94		
10	256QAM	1	0	16.02	16.02	16.01		
10	256QAM	1	25	15.84	15.98	15.97	17.3	0
10	256QAM	1	49	15.87	16.01	15.96		
10	256QAM	25	0	15.95	15.82	15.93		
10	256QAM	25	12	15.89	15.87	15.92	17.3	0
10	256QAM	25	25	15.81	15.78	16.83		
10	256QAM	50	0	15.97	15.86	15.90		
Channel								
Frequency (MHz)				1712.5	1745	1775		
5	QPSK	1	0	16.07	16.15	16.20	17.3	0
5	QPSK	1	12	16.00	16.13	16.10		
5	QPSK	1	24	16.02	16.04	16.03		
5	QPSK	12	0	16.03	16.10	16.02	17.3	0
5	QPSK	12	7	15.89	15.99	16.03		
5	QPSK	12	13	15.89	15.98	15.88		
5	QPSK	25	0	16.00	16.11	16.04		
5	HQAM	1	0	15.99	16.04	16.06	17.3	0
5	HQAM	1	12	15.83	15.96	16.03		
5	HQAM	1	24	15.81	15.98	16.02		
5	HQAM	12	0	15.92	15.93	15.94		
5	HQAM	12	7	15.79	15.93	15.90	17.3	0
5	HQAM	12	13	15.78	15.91	15.81		
5	HQAM	25	0	15.88	15.94	16.02		
5	HQAM	1	0	16.04	16.05	15.96	17.3	0
5	HQAM	1	12	15.91	16.09	16.03		
5	HQAM	1	24	15.94	15.99	15.99		
5	HQAM	12	0	15.89	16.00	16.03		
5	HQAM	12	7	15.77	15.88	15.87	17.3	0
5	HQAM	12	13	15.75	15.84	15.83		
5	HQAM	25	0	15.89	16.04	15.93		
5	256QAM	1	0	15.95	16.14	16.02	17.3	0
5	256QAM	1	12	15.87	15.93	16.00		
5	256QAM	1	24	15.86	16.09	15.93		
5	256QAM	12	0	15.98	16.04	16.00		
5	256QAM	12	7	15.73	15.81	15.93	17.3	0
5	256QAM	25	0	15.97	15.88	15.94		
Channel								
Frequency (MHz)				1710	1745	1775		
3	QPSK	1	0	16.05	16.16	16.20	17.3	0
3	QPSK	1	8	16.04	16.08	16.05		
3	QPSK	1	14	16.04	16.09	16.08		
3	QPSK	8	0	16.00	16.15	16.10	17.3	0
3	QPSK	8	4	15.85	15.97	15.99		
3	QPSK	8	7	15.81	15.98	16.07		
3	QPSK	15	0	15.97	16.03	16.00		
3	HQAM	1	0	16.04	16.02	16.05	17.3	0
3	HQAM	1	14	15.89	16.01	15.96		
3	HQAM	8	0	15.95	15.92	16.04		
3	HQAM	8	4	15.79	15.89	15.89	17.3	0
3	HQAM	8	7	15.76	15.87	15.83		
3	HQAM	15	0	15.83	16.02	15.99		
3	HQAM	1	0	16.03	16.01	15.91	17.3	0
3	HQAM	1	8	15.95	16.09	16.02		
3	HQAM	1	14	15.94	15.89	15.88		
3	HQAM	8	0	15.90	16.00	15.98		
3	HQAM	8	4	15.79	15.90	15.94	17.3	0
3	HQAM	8	7	15.79	15.92	15.86		
3	HQAM	15	0	15.91	15.94	15.94		
3	256QAM	1	0	16.02	16.07	15.97		
3	256QAM	1	8	15.84	16.02	15.95	17.3	0
3	256QAM	1	14	15.87	16.01	15.91		
3	256QAM	8	0	15.91	15.88	15.98		
3	256QAM	8	4	15.75	15.85	15.98	17.3	0
3	256QAM	8	7	15.79	15.76	15.84		
3	256QAM	15	0	15.91	15.95	15.91		
Channel								
Frequency (MHz)				1717.5	1745	1772.5		
1.4	QPSK	1	0	16.04	16.13	16.15	17.3	0
1.4	QPSK	1	3	16.04	16.11	16.05	</	



Band 7 Ant 1 DSI3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mode Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dB)	MPE (dB)
Channel								
2050 2100 2150								
Frequency (MHz)								
20	QPSK	1	0	17.68	17.72	17.86		
20	QPSK	1	49	17.62	17.63	17.63	18.7	0
20	QPSK	1	99	17.64	17.64	17.60		
20	QPSK	50	0	17.55	17.65	17.57		
20	QPSK	50	-24	17.56	17.50	17.47		
20	QPSK	50	50	17.52	17.52	17.48	18.7	0
20	QPSK	100	0	17.59	17.84	17.61		
20	HQAM	1	0	17.63	17.63	17.58		
20	HQAM	1	49	17.54	17.40	17.40	18.7	0
20	HQAM	1	99	17.57	17.53	17.48		
20	HQAM	50	0	17.48	17.53	17.45		
20	HQAM	50	24	17.41	17.40	17.41	18.7	0
20	HQAM	50	50	17.47	17.43	17.39		
20	HQAM	100	0	17.46	17.28	17.50		
20	HQAM	1	0	17.65	17.62	17.57		
20	HQAM	1	49	17.54	17.36	17.43	18.7	0
20	HQAM	1	99	17.60	17.58	17.54		
20	HQAM	50	0	17.58	17.57	17.50		
20	HQAM	50	24	17.45	17.36	17.25	18.7	0
20	HQAM	50	50	17.49	17.48	17.51		
20	HQAM	100	0	17.40	17.52	17.45		
20	SSBQAM	1	0	17.60	17.57	17.47		
20	SSBQAM	1	49	17.42	17.52	17.37	18.7	0
20	SSBQAM	1	99	17.48	17.45	17.47		
20	SSBQAM	50	0	17.45	17.57	17.48		
20	SSBQAM	50	-24	17.34	17.45	17.23	18.7	0
20	SSBQAM	50	50	17.41	17.40	17.40		
20	SSBQAM	100	0	17.25	17.39	17.25		
Channel								
2052.5 2100 2137.5								
Frequency (MHz)								
15	QPSK	1	0	17.54	17.57	17.50		
15	QPSK	1	37	17.65	17.56	17.43	18.7	0
15	QPSK	1	74	17.49	17.52	17.61		
15	QPSK	36	0	17.42	17.52	17.47		
15	QPSK	36	20	17.43	17.50	17.58	18.7	0
15	QPSK	36	36	17.41	17.46	17.42		
15	HQAM	1	0	17.52	17.36	17.4		
15	HQAM	1	37	17.44	17.39	17.24	18.7	0
15	HQAM	1	74	17.50	17.47	17.41		
15	HQAM	36	0	17.40	17.48	17.40		
15	HQAM	36	20	17.27	17.38	17.32	18.7	0
15	HQAM	36	36	17.32	17.27	17.31		
15	HQAM	75	0	17.41	17.47	17.35		
15	HQAM	1	0	17.51	17.50	17.43		
15	HQAM	1	37	17.60	17.46	17.37	18.7	0
15	HQAM	1	74	17.51	17.42	17.50		
15	HQAM	36	0	17.46	17.61	17.47		
15	HQAM	36	20	17.39	17.46	17.24	18.7	0
15	HQAM	36	36	17.42	17.33	17.43		
15	HQAM	75	0	17.34	17.36	17.52		
15	SSBQAM	1	0	17.51	17.54	17.53		
15	SSBQAM	1	37	17.45	17.47	17.52	18.7	0
15	SSBQAM	1	74	17.48	17.45	17.47		
15	SSBQAM	36	0	17.46	17.58	17.52		
15	SSBQAM	36	20	17.39	17.48	17.27	18.7	0
15	SSBQAM	36	36	17.38	17.42	17.38		
15	SSBQAM	75	0	17.36	17.44	17.38		
Channel								
2055 2100 2140								
Frequency (MHz)								
10	QPSK	1	0	17.59	17.58	17.57		
10	QPSK	1	25	17.54	17.52	17.44	18.7	0
10	QPSK	1	49	17.60	17.63	17.47		
10	QPSK	25	0	17.44	17.54	17.48		
10	QPSK	25	12	17.46	17.47	17.39	18.7	0
10	QPSK	25	25	17.40	17.39	17.36		
10	QPSK	50	0	17.46	17.53	17.58		
10	HQAM	1	0	17.47	17.57	17.42		
10	HQAM	1	25	17.48	17.40	17.35	18.7	0
10	HQAM	1	49	17.48	17.42	17.44		
10	HQAM	25	0	17.43	17.41	17.39		
10	HQAM	25	12	17.31	17.37	17.33	18.7	0
10	HQAM	25	25	17.33	17.27	17.23		
10	HQAM	50	0	17.42	17.50	17.44		
10	HQAM	1	0	17.55	17.53	17.49	18.7	0
10	HQAM	1	25	17.46	17.43	17.25		
10	HQAM	1	49	17.46	17.53	17.45		
10	HQAM	25	0	17.43	17.52	17.53		
10	HQAM	25	12	17.29	17.50	17.28	18.7	0
10	HQAM	25	25	17.41	17.43	17.37		
10	HQAM	50	0	17.28	17.42	17.31		
10	SSBQAM	1	0	17.54	17.50	17.47		
10	SSBQAM	1	25	17.39	17.51	17.37	18.7	0
10	SSBQAM	1	49	17.47	17.45	17.40		
10	SSBQAM	25	0	17.46	17.55	17.52		
10	SSBQAM	25	12	17.38	17.52	17.28	18.7	0
10	SSBQAM	25	25	17.35	17.39	17.37		
10	SSBQAM	50	0	17.38	17.40	17.25		
Channel								
2077.5 2100 2142.5								
Frequency (MHz)								
5	QPSK	1	0	17.63	17.58	17.50		
5	QPSK	1	12	17.55	17.52	17.49	18.7	0
5	QPSK	1	24	17.51	17.56	17.47		
5	QPSK	12	0	17.39	17.58	17.47		
5	QPSK	12	7	17.41	17.52	17.40	18.7	0
5	QPSK	12	13	17.37	17.40	17.33		
5	QPSK	25	0	17.54	17.60	17.55		
5	HQAM	1	0	17.58	17.48	17.42		
5	HQAM	1	12	17.44	17.40	17.33	18.7	0
5	HQAM	1	24	17.52	17.44	17.40		
5	HQAM	12	0	17.39	17.39	17.40		
5	HQAM	12	7	17.31	17.39	17.35	18.7	0
5	HQAM	12	13	17.34	17.32	17.30		
5	HQAM	25	0	17.40	17.47	17.42		
5	HQAM	1	0	17.58	17.53	17.43	18.7	0
5	HQAM	1	12	17.50	17.45	17.39		
5	HQAM	1	24	17.51	17.43	17.41		
5	HQAM	12	0	17.48	17.54	17.50		
5	HQAM	12	7	17.31	17.46	17.50	18.7	0
5	HQAM	12	13	17.39	17.34	17.42		
5	HQAM	25	0	17.28	17.42	17.40		
5	SSBQAM	1	0	17.59	17.50	17.53		
5	SSBQAM	1	12	17.40	17.43	17.31	18.7	0
5	SSBQAM	1	24	17.54	17.50	17.42		
5	SSBQAM	12	0	17.47	17.59	17.55		
5	SSBQAM	12	7	17.42	17.42	17.34	18.7	0
5	SSBQAM	12	13	17.35	17.39	17.46		
5	SSBQAM	25	0	17.35	17.37	17.56		



Band 25 Ant 4 DSI3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up Init. (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	15.25	15.30	15.28				
20	QPSK	1	99	15.20	15.16	15.13	16.3	0		
20	QPSK	50	0	15.16	15.24	15.24				
20	QPSK	50	14	15.14	15.14	15.14				
20	QPSK	50	50	15.12	15.09	15.18	16.3	0		
20	QPSK	100	0	15.09	15.25	15.17				
20	QPSK	100	0	15.11	15.18	15.24				
20	HQAM	1	49	15.04	15.16	15.07	16.3	0		
20	HQAM	1	99	15.08	15.01	15.06				
20	HQAM	50	0	15.11	15.17	15.11				
20	HQAM	50	24	14.99	15.10	15.01	16.3	0		
20	HQAM	50	50	15.00	15.06	15.10				
20	HQAM	100	0	14.95	15.12	15.07				
20	HQAM	1	49	15.16	15.22	15.20				
20	HQAM	1	99	14.96	15.13	15.06	16.3	0		
20	HQAM	50	0	15.13	15.15	15.17				
20	HQAM	50	24	14.98	15.07	15.01	16.3	0		
20	HQAM	50	50	15.09	14.95	15.05				
20	256QAM	1	49	15.02	15.17	15.10	16.3	0		
20	256QAM	1	99	15.14	15.12	15.03				
20	256QAM	50	0	14.97	15.05	14.99				
20	256QAM	50	24	14.92	15.08	14.99	16.3	0		
20	256QAM	50	50	14.98	15.03	15.14				
20	256QAM	100	0	14.93	15.04	14.99				
Channel										
Frequency (MHz)										
16	QPSK	1	0	15.21	15.21	15.13				
16	QPSK	1	37	15.06	15.19	15.19	16.3	0		
16	QPSK	1	74	15.10	15.03	15.10				
16	QPSK	36	0	15.06	15.14	15.14				
16	QPSK	36	20	15.00	15.08	14.98	16.3	0		
16	QPSK	36	36	15.06	15.00	15.08				
16	QPSK	75	0	14.98	15.13	15.07				
16	HQAM	1	49	14.97	15.04	15.21				
16	HQAM	1	37	14.92	15.08	15.02	16.3	0		
16	HQAM	50	0	15.00	15.11	15.04				
16	HQAM	36	20	14.97	14.98	14.87	16.3	0		
16	HQAM	36	36	14.97	14.97	14.97				
16	HQAM	75	0	14.97	14.99	14.94	16.3	0		
16	HQAM	1	49	14.87	15.07	14.97				
16	256QAM	1	49	15.05	15.15	15.15				
16	256QAM	1	37	14.88	15.13	15.03	16.3	0		
16	256QAM	1	74	15.07	15.04	14.99				
16	256QAM	50	0	14.97	14.96	14.96				
16	256QAM	50	24	14.93	14.94	14.91	16.3	0		
16	256QAM	50	36	14.84	14.98	15.08				
16	256QAM	75	0	14.83	14.94	14.91				
Channel										
Frequency (MHz)										
10	QPSK	1	0	15.13	15.22	15.13				
10	QPSK	1	25	15.00	15.15	15.10	16.3	0		
10	QPSK	1	49	15.09	15.01	15.00				
10	QPSK	20	0	15.00	15.00	15.00				
10	QPSK	25	12	15.03	14.98	14.98	16.3	0		
10	QPSK	25	25	15.05	15.04	15.13				
10	QPSK	50	0	14.98	15.13	15.07				
10	HQAM	1	0	15.03	15.09	15.16				
10	HQAM	1	25	14.92	15.10	15.00	16.3	0		
10	HQAM	1	49	15.00	15.11	15.04				
10	HQAM	25	0	14.99	15.03	15.05				
10	HQAM	25	12	14.92	15.03	14.89	16.3	0		
10	HQAM	25	25	14.93	15.03	15.00				
10	HQAM	50	0	14.90	15.11	15.04				
10	HQAM	1	0	15.10	15.11	15.13				
10	HQAM	25	0	14.93	15.05	15.00	16.3	0		
10	HQAM	1	49	15.01	15.05	15.01				
10	HQAM	25	0	15.08	15.09	15.07				
10	HQAM	25	12	14.92	15.03	14.92	16.3	0		
10	HQAM	25	25	15.01	14.92	14.93				
10	HQAM	50	0	14.93	15.06	14.89				
10	HQAM	50	24	14.90	15.13	14.98	16.3	0		
10	256QAM	1	25	14.98	15.13	14.98				
10	256QAM	1	49	14.99	15.05	14.98				
10	256QAM	50	0	15.03	15.09	15.03				
10	256QAM	25	12	14.83	15.03	14.89	16.3	0		
10	256QAM	25	25	14.90	14.97	14.98				
10	256QAM	50	0	14.93	15.07	14.92				
Channel										
Frequency (MHz)										
20	QPSK	1	0	15.21	15.20	15.13				
20	QPSK	1	24	15.06	15.05	15.00	16.3	0		
20	QPSK	1	49	15.03	15.15	15.07				
20	QPSK	12	7	14.98	15.10	14.92	16.3	0		
20	QPSK	12	13	15.02	15.00	15.14				
20	QPSK	25	0	15.03	15.19	15.04				
20	HQAM	1	0	15.02	15.13	15.12				
20	HQAM	1	12	14.90	15.02	14.95	16.3	0		
20	HQAM	25	0	14.95	14.98	14.98				
20	HQAM	12	0	15.04	15.13	15.04				
20	HQAM	12	7	14.86	15.03	14.95	16.3	0		
20	HQAM	12	13	14.97	14.98	14.88				
20	HQAM	25	0	14.89	15.09	15.04				
20	HQAM	1	0	15.12	15.15	15.10				
20	HQAM	12	0	14.92	15.05	14.95	16.3	0		
20	HQAM	1	24	15.01	15.08	15.00				
20	HQAM	12	0	15.08	15.05	15.13				
20	HQAM	12	7	14.94	14.95	14.87	16.3	0		
20	HQAM	12	13	14.98	14.90	14.93				
20	HQAM	25	0	14.95	15.13	15.09				
20	256QAM	1	12	14.90	15.14	15.00	16.3	0		
20	256QAM	1	24	14.99	15.09	14.94				
20	256QAM	12	0	15.03	15.15	15.14				
20	256QAM	12	7	14.92	14.95	14.84	16.3	0		
20	256QAM	25	0	14.90	15.09	15.00				
20	256QAM	25	12	14.86	14.98	14.86	16.3	0		
20	256QAM	50	0	14.93	15.09	14.99				
Channel										
Frequency (MHz)										
14	QPSK	1	0	15.10	15.19	15.15				
14	QPSK	1	3	15.06	15.12	15.04	16.3	0		
14	QPSK	1	6	15.07	15.14	15.07				
14	QPSK	8	4	15.02	15.00	14.96	16.3	0		
14	QPSK	8	7	15.06	14.96	15.14				
14	QPSK	16	0	14.97	15.14	15.08				
14	HQAM	1	0	15.07	15.08	15.14				
14	HQAM	1	8	15.01	15.08	14.91	16.3	0		
14	HQAM	3	0	15.04	14.90	14.91				
14	HQAM	3	8	15.04	15.03	15.05				
14	HQAM	8	4	14.91	14.97	14.86	16.3	0		
14	HQAM	8	7	14.88	14.97	14.88				
14	HQAM	16	0	14.83	15.15	15.00				
14	HQAM	1	0	15.10	15.15	15.10				
14	HQAM	3	8	14.85	15.10	14.89	16.3	0		
14	HQAM	3	8	14.94	15.02	15.02				
14	HQAM	8	0	15.03	15.13	15.14				
14	HQAM	8	7	14.97	14.92	14.92	16.3	0		
14	HQAM	16	0	15.05	15.23	15.18				
14	256QAM	1	8	14.89	15.10	14.89	16.3	0		
14	256QAM	1	14	15.07	15.03	15.03				
14	256QAM	8	0	14.94	15.12	15.05				
14	256QAM	8	4	14.80	15.03	14.89	16.3	0		
14	256QAM	16	0	14.88	14.98	14.88				
14	256QAM	16	0	14.28	15.03	14.95				
Channel										
Frequency (MHz)										
14	QPSK	1	0	15.19	15.19	15.15				
14	QPSK	1	3	15.06	15.12	15.0				



Band 38 Ant 1 DSI3									
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	38150			
20	QPSK	1	0	19.27	19.28	19.22	20.7	0	
20	QPSK	1	49	19.11	19.26	19.08			
20	QPSK	50	24	19.07	19.17	19.15			
20	QPSK	50	0	19.09	19.20	19.22			
20	QPSK	50	24	19.05	19.14	19.06	20.7	0	
20	QPSK	100	0	19.18	19.20	19.21			
20	16QAM	1	0	19.16	19.14	19.15	20.7	0	
20	16QAM	1	49	19.09	19.16	19.04			
20	16QAM	1	99	19.02	19.07	19.06			
20	16QAM	50	0	19.06	19.20	19.17			
20	16QAM	50	24	18.99	19.09	18.98	20.7	0	
20	16QAM	100	0	18.99	19.05	19.00			
20	16QAM	100	0	19.03	19.13	19.13			
20	16QAM	1	49	19.12	19.11	18.99	20.7	0	
20	16QAM	1	99	19.03	19.14	19.14			
20	16QAM	50	0	19.21	19.20	19.17			
20	16QAM	50	24	19.06	19.15	19.03	20.7	0	
20	16QAM	100	0	19.09	19.05	19.02			
20	256QAM	1	0	17.98	17.89	17.83			
20	256QAM	1	49	17.90	17.89	17.80	19	1.7	
20	256QAM	1	99	17.87	17.73	17.80			
20	256QAM	50	0	17.89	17.82	17.71			
20	256QAM	50	24	17.74	17.82	17.58	19	1.7	
20	256QAM	100	0	17.71	17.70	17.64			
20	256QAM	100	0	17.71	17.82	17.80			
Channel									
Frequency (MHz)				37925	38000	38175	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	19.24	19.22	19.20	20.7	0	
15	QPSK	1	37	19.05	19.14	19.00			
15	QPSK	1	74	18.97	19.09	19.04			
15	QPSK	36	0	19.07	19.07	19.14			
15	QPSK	36	20	18.94	19.06	18.93	20.7	0	
15	QPSK	75	0	19.08	19.07	19.14			
15	16QAM	1	0	19.02	19.08	19.00	20.7	0	
15	16QAM	1	37	18.97	19.05	19.00			
15	16QAM	1	74	18.87	18.83	19.01			
15	16QAM	36	0	18.93	19.06	19.08			
15	16QAM	36	20	18.82	18.91	18.96	20.7	0	
15	16QAM	36	59	18.72	18.93	18.89			
15	16QAM	75	0	18.92	19.07	18.96			
15	16QAM	1	0	18.95	19.05	19.04			
15	16QAM	1	37	18.90	18.88	18.95	20.7	0	
15	16QAM	1	74	18.87	18.90	19.03			
15	16QAM	36	0	19.15	19.11	19.13			
15	16QAM	36	20	18.96	19.09	18.96	20.7	0	
15	16QAM	36	59	18.86	18.92	18.98			
15	16QAM	75	0	18.95	19.02	19.01			
15	256QAM	1	0	17.78	17.82	17.89	19	1.7	
15	256QAM	1	37	17.71	17.71	17.81			
15	256QAM	1	74	17.62	17.53	17.65			
15	256QAM	36	0	17.48	17.62	17.59			
15	256QAM	36	20	17.47	17.77	17.44	19	1.7	
15	256QAM	36	59	17.61	17.66	17.58			
15	256QAM	75	0	17.68	17.46	17.41			
Channel									
Frequency (MHz)				2575	2595	2615	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	19.16	19.16	19.16	20.7	0	
10	QPSK	1	25	19.05	19.21	19.05			
10	QPSK	1	49	18.97	19.08	19.00			
10	QPSK	25	0	19.06	19.07	19.18			
10	QPSK	25	12	18.99	19.01	18.92	20.7	0	
10	QPSK	25	25	18.82	18.92	19.00			
10	16QAM	1	0	19.04	19.05	19.08	20.7	0	
10	16QAM	1	25	19.00	19.02	18.92			
10	16QAM	1	49	18.97	18.96	19.08			
10	16QAM	25	0	18.96	19.13	19.07			
10	16QAM	25	12	18.87	18.89	18.94	20.7	0	
10	16QAM	25	25	18.73	18.92	18.95			
10	16QAM	50	0	18.94	19.03	19.03			
10	16QAM	1	0	19.04	19.04	19.11			
10	16QAM	1	25	19.07	19.04	19.04	20.7	0	
10	16QAM	1	49	18.97	19.02	19.07			
10	16QAM	25	0	19.17	19.08	19.12			
10	16QAM	25	12	19.03	19.02	18.98	20.7	0	
10	16QAM	25	25	19.02	19.01	18.99			
10	16QAM	50	0	19.04	19.02	19.09			
10	256QAM	1	0	17.87	17.78	17.73			
10	256QAM	1	25	17.89	17.70	17.61	19	1.7	
10	256QAM	1	49	17.79	17.52	17.61			
10	256QAM	25	0	17.60	17.87	17.88			
10	256QAM	25	12	17.58	17.79	17.54	19	1.7	
10	256QAM	25	25	17.64	17.61	17.50			
10	256QAM	50	0	17.62	17.44	17.40			
Channel									
Frequency (MHz)				2672.5	2695	2617.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	19.10	19.20	19.14	20.7	0	
5	QPSK	1	19	19.00	19.21	19.08			
5	QPSK	1	24	19.09	19.03	19.05			
5	QPSK	12	0	18.97	19.12	19.10	20.7	0	
5	QPSK	12	7	18.96	19.04	18.97			
5	QPSK	12	19	18.84	18.92	18.99			
5	QPSK	25	0	19.05	19.10	19.11			
5	16QAM	1	0	19.03	19.03	19.01			
5	16QAM	1	12	18.98	19.08	18.93	20.7	0	
5	16QAM	1	24	18.91	18.94	19.00			
5	16QAM	12	0	18.94	19.18	19.09			
5	16QAM	12	7	18.92	18.92	18.85	20.7	0	
5	16QAM	12	13	18.71	18.93	18.92			
5	16QAM	25	0	18.98	19.03	18.95			
5	16QAM	1	0	19.04	19.08	19.09	20.7	0	
5	16QAM	1	12	19.00	19.02	18.88			
5	16QAM	1	24	18.87	19.10	19.09			
5	16QAM	12	0	19.13	19.09	19.13	20.7	0	
5	16QAM	12	7	19.01	19.04	18.97			
5	16QAM	12	13	18.95	18.99	18.94			
5	16QAM	25	0	19.09	19.02	19.00			
5	16QAM	1	0	17.79	17.83	17.79			
5	256QAM	1	0	17.88	17.87	17.54	19	1.7	
5	256QAM	1	24	17.80	17.68	17.72			
5	256QAM	12	7	17.67	17.68	17.51	19	1.7	
5	256QAM	12	13	17.59	17.67	17.50			
5	256QAM	25	0	17.58	17.52	17.44			

Band 41 Ant 1 DSI3										
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	19.32	19.24	19.14	20.7	0		
20	QPSK	1	49	19.20	19.20	19.32				
20	QPSK	1	99	19.17	19.20	19.26				
20	QPSK	50	0	19.21	19.24	19.37	19.35	19.20		
20	QPSK	50	24	19.12	19.20	19.21	19.21	19.13	20.7	
20	QPSK	100	0	19.08	19.20	19.24	19.26	19.20		
20	QPSK	100	0	19.18	19.26	19.32	19.31	19.29		
20	16QAM	1	0	19.28	19.20	19.29	19.26	19.31	20.7	
20	16QAM	1	49	19.08	19.20	19.26	19.16	19.22		
20	16QAM	1	99	19.13	19.14	19.14	19.18	19.12		
20	16QAM	50	0	19.11	19.13	19.30	19.28	19.14	20.7	
20	16QAM	50	24	19.07	19.20	19.19	19.14	19.04		
20	16QAM	100	0	18.99	18.96	19.08	19.13	19.04		
20	16QAM	100	0	19.09	19.20	19.22	19.16	19.19		
20	16QAM	1	49	19.15	19.25	19.28	19.11	19.12	20.7	
20	16QAM	1	99	19.06	19.08	19.23	19.20	19.11		
20	16QAM	50	0	19.20	19.26	19.28	19.27	19.27		
20	16QAM	50	24	19.24	19.23	19.33	19.28	19.29	20.7	
20	16QAM	100	0	19.05	19.14	19.18	19.15	19.17		
20	16QAM	100	0	19.08	19.18	19.19	19.14	19.19		
20	256QAM	1	0	17.91	17.82	17.86	17.87	17.80	19	
20	256QAM	1	49	17.75	17.73	17.82	17.82	17.86	19	
20	256QAM	1	99	17.67	17.76	17.82	17.93	17.69		
20	256QAM	50	0	17.89	17.89	17.89	17.79	17.80		
20	256QAM	50	24	17.77	17.59	17.84	17.81	17.59	19	
20	256QAM	100	0	17.80	17.82	17.78	17.81	17.86		
20	256QAM	100	0	17.48	17.73	17.80	17.81	17.81		
Channel										
Frequency (MHz)				39750	40173	40600	41055	41460	Tune-up limit (dBm)	MPR (dB)
16	QPSK	1	0	19.29	19.24	19.19	20.7	0		
16	QPSK	1	37	19.10	19.20	19.25	19.21	19.14	20.7	0
16	QPSK	1	74	19.03	19.11	19.13	19.18	19.20		
16	QPSK	36	0	19.10	19.10	19.32	19.26	19.17		
16	QPSK	36	20	18.97	19.08	19.15	19.00	19.21	20.7	0
16	QPSK	75	0	19.09	19.13	19.22	19.07	19.26		
16	16QAM	1	0	19.14	19.23	19.20	19.17	19.18	20.7	0
16	16QAM	1	3							



Band 38 Ant 4 DSI3									
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	38150			
20	QPSK	1	0	17.66	17.74	17.82			
20	QPSK	1	49	17.58	17.89	17.81	18.7	0	
20	QPSK	50	24	17.43	17.47	17.48			
20	QPSK	50	24	17.43	17.47	17.48	18.7	0	
20	QPSK	100	0	17.52	17.58	17.55			
20	16QAM	1	0	17.58	17.58	17.55	18.7	0	
20	16QAM	1	49	17.41	17.56	17.51			
20	16QAM	1	99	17.49	17.55	17.54			
20	16QAM	50	24	17.39	17.49	17.39			
20	16QAM	50	24	17.38	17.47	17.39	18.7	0	
20	16QAM	100	0	17.43	17.53	17.41			
20	16QAM	100	0	17.37	17.52	17.56			
20	16QAM	1	49	17.58	17.83	17.57	18.7	0	
20	16QAM	1	99	17.53	17.61	17.50			
20	16QAM	50	24	17.29	17.43	17.34	18.7	0	
20	16QAM	50	24	17.29	17.43	17.34			
20	16QAM	100	0	17.36	17.83	17.47			
20	16QAM	100	0	17.36	17.83	17.47			
20	256QAM	1	0	17.50	17.56	17.57	18.7	0	
20	256QAM	1	49	17.54	17.61	17.41			
20	256QAM	1	99	17.51	17.56	17.57			
20	256QAM	50	24	17.39	17.49	17.41			
20	256QAM	50	24	17.38	17.43	17.34	18.7	0	
20	256QAM	50	24	17.43	17.54	17.28			
20	256QAM	100	0	17.48	17.43	17.38			
Channel									
Frequency (MHz)				31923	31900	31915	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	17.74	17.83	17.83			
15	QPSK	1	37	17.52	17.61	17.48	18.7	0	
15	QPSK	1	74	17.56	17.57	17.46			
15	QPSK	36	0	17.65	17.65	17.43			
15	QPSK	36	20	17.39	17.43	17.43	18.7	0	
15	QPSK	36	39	17.39	17.43	17.43			
15	QPSK	75	0	17.38	17.55	17.45			
15	16QAM	1	0	17.53	17.47	17.43	18.7	0	
15	16QAM	1	37	17.38	17.41	17.47			
15	16QAM	1	74	17.35	17.51	17.45			
15	16QAM	36	0	17.42	17.37	17.22			
15	16QAM	36	20	17.33	17.40	17.33	18.7	0	
15	16QAM	36	39	17.35	17.43	17.32			
15	16QAM	75	0	17.31	17.42	17.46			
15	16QAM	75	0	17.49	17.49	17.38			
15	16QAM	1	37	17.51	17.57	17.47	18.7	0	
15	16QAM	1	74	17.44	17.51	17.41			
15	16QAM	36	0	17.37	17.43	17.20			
15	16QAM	36	20	17.16	17.34	17.24	18.7	0	
15	16QAM	36	39	17.44	17.36	17.36			
15	16QAM	75	0	17.31	17.59	17.41			
15	256QAM	1	0	17.44	17.51	17.54	18.7	0	
15	256QAM	1	37	17.36	17.47	17.44			
15	256QAM	1	74	17.37	17.50	17.48			
15	256QAM	36	0	17.42	17.52	17.34			
15	256QAM	36	20	17.33	17.31	17.19	18.7	0	
15	256QAM	36	39	17.29	17.47	17.17			
15	256QAM	75	0	17.47	17.38	17.46			
Channel									
Frequency (MHz)				25173	25195	25175	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	17.58	17.64	17.64			
10	QPSK	1	25	17.48	17.63	17.51	18.7	0	
10	QPSK	1	49	17.56	17.62	17.51			
10	QPSK	25	0	17.47	17.63	17.46			
10	QPSK	25	12	17.39	17.37	17.30	18.7	0	
10	QPSK	25	25	17.55	17.61	17.39			
10	16QAM	1	0	17.48	17.51	17.50	18.7	0	
10	16QAM	1	25	17.42	17.45	17.44			
10	16QAM	1	49	17.46	17.55	17.47			
10	16QAM	25	0	17.39	17.50	17.39	18.7	0	
10	16QAM	25	12	17.29	17.35	17.26			
10	16QAM	25	25	17.30	17.39	17.46			
10	16QAM	1	0	17.46	17.55	17.48	18.7	0	
10	16QAM	1	25	17.50	17.59	17.51			
10	16QAM	1	49	17.38	17.54	17.39			
10	16QAM	25	0	17.43	17.62	17.47	18.7	0	
10	16QAM	25	12	17.22	17.37	17.22			
10	16QAM	25	25	17.43	17.37	17.33			
10	16QAM	50	0	17.22	17.55	17.34			
10	256QAM	1	0	17.35	17.51	17.43			
10	256QAM	1	25	17.31	17.50	17.34	18.7	0	
10	256QAM	1	49	17.47	17.52	17.48			
10	256QAM	25	0	17.46	17.52	17.33			
10	256QAM	25	12	17.29	17.39	17.16	18.7	0	
10	256QAM	25	25	17.37	17.40	17.21			
10	256QAM	50	0	17.41	17.39	17.24			
Channel									
Frequency (MHz)				26175	26195	26175	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	17.58	17.70	17.55	18.7	0	
5	QPSK	1	19	17.50	17.66	17.50			
5	QPSK	1	24	17.59	17.51	17.52			
5	QPSK	12	0	17.53	17.61	17.40	18.7	0	
5	QPSK	12	7	17.29	17.36	17.36			
5	QPSK	12	19	17.52	17.54	17.47			
5	QPSK	25	0	17.49	17.63	17.46			
5	16QAM	1	0	17.49	17.43	17.43	18.7	0	
5	16QAM	1	12	17.40	17.42	17.40			
5	16QAM	1	24	17.42	17.53	17.48			
5	16QAM	12	0	17.37	17.48	17.30	18.7	0	
5	16QAM	12	7	17.27	17.39	17.25			
5	16QAM	12	19	17.36	17.48	17.29			
5	16QAM	25	0	17.33	17.39	17.36			
5	16QAM	1	0	17.47	17.60	17.38	18.7	0	
5	16QAM	1	12	17.46	17.57	17.47			
5	16QAM	1	24	17.45	17.53	17.37			
5	16QAM	12	0	17.36	17.59	17.26	18.7	0	
5	16QAM	12	7	17.17	17.37	17.28			
5	16QAM	12	19	17.42	17.42	17.22			
5	16QAM	25	0	17.32	17.50	17.42			
5	256QAM	1	0	17.37	17.61	17.45	18.7	0	
5	256QAM	1	12	17.32	17.40	17.37			
5	256QAM	1	24	17.44	17.47	17.29			
5	256QAM	12	0	17.47	17.52	17.32			
5	256QAM	12	7	17.23	17.32	17.21	18.7	0	
5	256QAM	12	19	17.36	17.43	17.22			
5	256QAM	25	0	17.33	17.36	17.25			

Band 41 Ant 4 DSI3									
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	40500	41055	41460	
20	QPSK	1	0	17.77	17.83	17.83	17.72	17.73	
20	QPSK	1	49	17.63	17.65	17.72	17.64	17.64	18.7
20	QPSK	1	99	17.68	17.68	17.68	17.67	17.67	
20	QPSK	50	0	17.74	17.67	17.74	17.59	17.61	
20	QPSK	50	24	17.55	17.56	17.61	17.51	17.53	18.7
20	QPSK	50	24	17.61	17.63	17.63	17.52	17.55	
20	QPSK	100	0	17.70	17.63	17.71	17.68	17.62	
20	16QAM	1	0	17.73	17.70	17.71	17.68	17.65	18.7
20	16QAM	1	49	17.58	17.60	17.64	17.56	17.58	
20	16QAM	1	99	17.60	17.60	17.70	17.61	17.57	
20	16QAM	50	0	17.66	17.56	17.66	17.49	17.52	18.7
20	16QAM	50	24	17.52	17.49	17.56	17.43	17.45	
20	16QAM	50	24	17.49	17.67	17.61	17.45	17.40	
20	16QAM	100	0	17.61	17.52	17.67	17.59	17.58	
20	16QAM	1	0	17.72	17.55	17.77	17.63	17.61	18.7
20	16QAM	1	49	17.49	17.60	17.68	17.61	17.52	
20	16QAM	1	99	17.56	17.65	17.68	17.54	17.52	
20	16QAM	50	0	17.60	17.54	17.71	17.48	17.46	18.7
20	16QAM	50	24	17.48	17.40	17.56	17.38	17.44	
20	16QAM	50	24	17.52	17.60	17.64	17.51	17.49	
20	16QAM	100	0	17.69	17.49	17.67	17.54	17.55	
20	256QAM	1	0	17.65	17.60	17.74	17.66	17.67	18.7
20	256QAM	1	49	17.54	17.63	17.66	17.50	17.60	
20	256QAM	1	99	17.62	17.61	17.70	17.59	17.57	
20	256QAM	50	0	17.17	17.60	17.46	17.48	17.48	18.7
20	256QAM	50	24	17.51	17.41	17.54	17.42	17.48	
20	256QAM	50	24	17.53	17.52	17.58	17.41	17.48	
20	256QAM	100	0	17.63	17.56	17.53	17.44	17.44	
Channel									
Frequency (MHz)				39750	40173	40500	41055	41460	Tune-up limit (dBm) MPR (dB)
16	QPSK	1	0	17.67	17.63	17.63	17.62	17.62	
16	QPSK	1	37	17.50	17.52	17.65	17.60	17.56	18.7
16	QPSK	1	74	17.55	17.66	17.61	17.53	17.57	
16	QPSK	36	0	17.59	17.64	17.66	17.54	17.58	
16	QPSK	36	20	17.47	17.48	17.50	17.37	17.49	18.7
16	QPSK	36	39	17.47	17.48	17.48	17.37	17.49	
1									



Band 42 Ant 5 DSI3

Band (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)				3445	3500	3555		
20	QPSK	1	0	18.72	18.72	18.74	19.5	0
20	QPSK	1	49	18.58	18.73	18.69		
20	QPSK	1	99	18.68	18.72	18.69	19.5	0
20	QPSK	50	0	18.53	18.71	18.70		
20	QPSK	50	24	18.54	18.59	18.57	19.5	0
20	QPSK	50	99	18.51	18.64	18.56		
20	QPSK	100	0	18.68	18.69	18.61	19.5	0
20	HQAM	1	0	18.57	18.63	18.60		
20	HQAM	1	49	18.44	18.69	18.55	19.5	0
20	HQAM	1	99	18.44	18.59	18.45		
20	HQAM	50	0	18.55	18.66	18.59	19.5	0
20	HQAM	50	24	18.41	18.47	18.53		
20	HQAM	50	50	18.46	18.50	18.49	19.5	0
20	HQAM	100	0	18.55	18.56	18.57		
20	HQAM	100	0	18.59	18.55	18.53	19.5	0
20	HQAM	1	49	18.50	18.62	18.55		
20	HQAM	1	99	18.51	18.62	18.56	19.5	0
20	HQAM	50	0	18.53	18.57	18.64		
20	HQAM	50	24	18.43	18.45	18.48	19.5	0
20	HQAM	50	50	18.39	18.55	18.51		
20	HQAM	100	0	18.60	18.66	18.56	19	0.5
20	SRSSAM	1	0	17.79	17.86	17.91		
20	SRSSAM	1	49	17.65	17.83	17.72	19	0.5
20	SRSSAM	1	99	17.66	17.86	17.63		
20	SRSSAM	50	0	17.79	17.77	17.72	19	0.5
20	SRSSAM	50	24	17.63	17.77	17.65		
20	SRSSAM	50	50	17.69	17.65	17.71	19	0.5
20	SRSSAM	100	0	17.43	17.65	17.48		
Channel								
Frequency (MHz)				3465	3500	3535		
15	QPSK	1	0	18.63	18.66	18.65	19.5	0
15	QPSK	1	37	18.53	18.61	18.60		
15	QPSK	1	74	18.45	18.69	18.50	19.5	0
15	QPSK	36	0	18.59	18.61	18.55		
15	QPSK	36	20	18.42	18.45	18.45	19.5	0
15	QPSK	36	39	18.43	18.57	18.48		
15	QPSK	75	0	18.55	18.63	18.55	19.5	0
15	HQAM	1	0	18.46	18.53	18.53		
15	HQAM	1	37	18.35	18.63	18.52	19.5	0
15	HQAM	1	74	18.41	18.54	18.37		
15	HQAM	36	0	18.48	18.67	18.45	19.5	0
15	HQAM	36	39	18.25	18.43	18.40		
15	HQAM	36	39	18.36	18.40	18.39	19.5	0
15	HQAM	75	0	18.53	18.46	18.54		
15	HQAM	1	0	18.62	18.57	18.53	19.5	0
15	HQAM	1	37	18.44	18.58	18.47		
15	HQAM	1	74	18.47	18.52	18.49	19.5	0
15	HQAM	36	0	18.40	18.50	18.57		
15	HQAM	36	39	18.40	18.59	18.45	19.5	0
15	HQAM	36	39	18.36	18.42	18.42		
15	HQAM	75	0	18.55	18.55	18.50	19	0.5
15	SRSSAM	1	0	17.59	17.69	17.70		
15	SRSSAM	1	37	17.72	17.75	17.54	19	0.5
15	SRSSAM	1	74	17.57	17.67	17.48		
15	SRSSAM	36	0	17.63	17.74	17.55	19	0.5
15	SRSSAM	36	20	17.42	17.70	17.52		
15	SRSSAM	36	39	17.61	17.45	17.62	19	0.5
15	SRSSAM	75	0	17.55	17.56	17.56		
Channel								
Frequency (MHz)				3480	3500	3520		
10	QPSK	1	0	18.63	18.66	18.65	19.5	0
10	QPSK	1	25	18.47	18.61	18.64		
10	QPSK	1	49	18.46	18.68	18.48	19.5	0
10	QPSK	36	0	18.55	18.64	18.60		
10	QPSK	25	12	18.41	18.48	18.47	19.5	0
10	QPSK	25	25	18.43	18.66	18.43		
10	QPSK	50	0	18.57	18.62	18.48	19.5	0
10	HQAM	1	0	18.43	18.61	18.52		
10	HQAM	1	25	18.38	18.64	18.36	19.5	0
10	HQAM	1	49	18.38	18.55	18.43		
10	HQAM	25	0	18.41	18.56	18.55	19.5	0
10	HQAM	25	12	18.36	18.36	18.43		
10	HQAM	25	25	18.41	18.35	18.43	19.5	0
10	HQAM	50	0	18.57	18.45	18.50		
10	HQAM	1	0	18.63	18.63	18.48	19.5	0
10	HQAM	1	25	18.43	18.58	18.43		
10	HQAM	1	49	18.37	18.57	18.42	19.5	0
10	HQAM	25	0	18.40	18.54	18.53		
10	HQAM	25	12	18.31	18.42	18.43	19.5	0
10	HQAM	25	25	18.31	18.45	18.41		
10	HQAM	50	0	18.53	18.59	18.44	19	0.5
10	SRSSAM	1	0	17.67	17.80	17.72		
10	SRSSAM	1	25	17.60	17.62	17.84	19	0.5
10	SRSSAM	49	0	17.54	17.75	17.55		
10	SRSSAM	25	0	17.63	17.69	17.65	19	0.5
10	SRSSAM	25	13	17.63	17.69	17.46		
10	SRSSAM	25	25	17.55	17.45	17.57	19	0.5
10	SRSSAM	50	0	17.35	17.33	17.38		
Channel								
Frequency (MHz)				3492.5	3500	3507.5		
5	QPSK	1	0	18.63	18.71	18.63	19.5	0
5	QPSK	1	15	18.47	18.65	18.62		
5	QPSK	1	24	18.55	18.65	18.55	19.5	0
5	QPSK	12	0	18.51	18.46	18.60		
5	QPSK	12	7	18.44	18.47	18.52	19.5	0
5	QPSK	12	13	18.38	18.59	18.44		
5	QPSK	25	0	18.59	18.57	18.54	19.5	0
5	HQAM	1	0	18.49	18.59	18.48		
5	HQAM	1	12	18.33	18.60	18.54	19.5	0
5	HQAM	1	24	18.40	18.45	18.33		
5	HQAM	12	0	18.44	18.57	18.45	19.5	0
5	HQAM	12	7	18.36	18.43	18.42		
5	HQAM	12	13	18.39	18.47	18.39	19.5	0
5	HQAM	25	0	18.56	18.49	18.44		
5	HQAM	1	0	18.63	18.61	18.37	19.5	0
5	HQAM	1	12	18.07	18.56	18.45		
5	HQAM	1	24	18.42	18.58	18.40	19.5	0
5	HQAM	12	0	18.59	18.42	18.59		
5	HQAM	12	7	18.38	18.31	18.33	19.5	0
5	HQAM	12	13	18.27	18.50	18.44		
5	HQAM	25	0	18.60	18.63	18.50	19	0.5
5	SRSSAM	1	0	17.70	17.85	17.87		
5	SRSSAM	1	12	17.65	17.65	17.62	19	0.5
5	SRSSAM	1	24	17.63	17.73	17.44		
5	SRSSAM	12	0	17.63	17.65	17.59	19	0.5
5	SRSSAM	12	7	17.54	17.60	17.53		
5	SRSSAM	12	13	17.63	17.61	17.66	19	0.5
5	SRSSAM	25	0	17.24	17.26	17.30		



Band 2 Ant 0 DS16										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. / Freq.	Power Low Ch. / Freq.	Power High Ch. / Freq.	Tune-up (dB)	MPE (dB)		
Channel										
20	QPSK	1	0	19.95	19.94	19.79		21.1	0	
20	QPSK	1	68	19.95	19.94	19.79				
20	QPSK	50	0	19.75	19.88	19.68				
20	QPSK	50	68	19.75	19.88	19.68				
20	QPSK	100	0	19.60	19.72	19.10		21.1	0	
20	QPSK	100	68	19.60	19.72	19.10				
20	QPSK	150	0	19.45	19.81	19.77				
20	QPSK	150	68	19.45	19.81	19.77				
20	QPSK	200	0	19.30	19.96	19.98				
20	QPSK	200	68	19.30	19.96	19.98				
20	QPSK	250	0	19.15	20.11	20.11				
20	QPSK	250	68	19.15	20.11	20.11				
20	QPSK	300	0	19.00	20.26	20.26				
20	QPSK	300	68	19.00	20.26	20.26				
20	QPSK	350	0	18.85	20.41	20.41				
20	QPSK	350	68	18.85	20.41	20.41				
20	QPSK	400	0	18.70	20.56	20.56				
20	QPSK	400	68	18.70	20.56	20.56				
20	QPSK	450	0	18.55	20.71	20.71				
20	QPSK	450	68	18.55	20.71	20.71				
20	QPSK	500	0	18.40	20.86	20.86				
20	QPSK	500	68	18.40	20.86	20.86				
20	QPSK	550	0	18.25	21.01	21.01				
20	QPSK	550	68	18.25	21.01	21.01				
20	QPSK	600	0	18.10	21.16	21.16				
20	QPSK	600	68	18.10	21.16	21.16				
20	QPSK	650	0	17.95	21.31	21.31				
20	QPSK	650	68	17.95	21.31	21.31				
20	QPSK	700	0	17.80	21.46	21.46				
20	QPSK	700	68	17.80	21.46	21.46				
20	QPSK	750	0	17.65	21.61	21.61				
20	QPSK	750	68	17.65	21.61	21.61				
20	QPSK	800	0	17.50	21.76	21.76				
20	QPSK	800	68	17.50	21.76	21.76				
20	QPSK	850	0	17.35	21.91	21.91				
20	QPSK	850	68	17.35	21.91	21.91				
20	QPSK	900	0	17.20	22.06	22.06				
20	QPSK	900	68	17.20	22.06	22.06				
20	QPSK	950	0	17.05	22.21	22.21				
20	QPSK	950	68	17.05	22.21	22.21				
20	QPSK	1000	0	16.90	22.36	22.36				
20	QPSK	1000	68	16.90	22.36	22.36				
20	QPSK	1050	0	16.75	22.51	22.51				
20	QPSK	1050	68	16.75	22.51	22.51				
20	QPSK	1100	0	16.60	22.66	22.66				
20	QPSK	1100	68	16.60	22.66	22.66				
20	QPSK	1150	0	16.45	22.81	22.81				
20	QPSK	1150	68	16.45	22.81	22.81				
20	QPSK	1200	0	16.30	22.96	22.96				
20	QPSK	1200	68	16.30	22.96	22.96				
20	QPSK	1250	0	16.15	23.11	23.11				
20	QPSK	1250	68	16.15	23.11	23.11				
20	QPSK	1300	0	16.00	23.26	23.26				
20	QPSK	1300	68	16.00	23.26	23.26				
20	QPSK	1350	0	15.85	23.41	23.41				
20	QPSK	1350	68	15.85	23.41	23.41				
20	QPSK	1400	0	15.70	23.56	23.56				
20	QPSK	1400	68	15.70	23.56	23.56				
20	QPSK	1450	0	15.55	23.71	23.71				
20	QPSK	1450	68	15.55	23.71	23.71				
20	QPSK	1500	0	15.40	23.86	23.86				
20	QPSK	1500	68	15.40	23.86	23.86				
20	QPSK	1550	0	15.25	24.01	24.01				
20	QPSK	1550	68	15.25	24.01	24.01				
20	QPSK	1600	0	15.10	24.16	24.16				
20	QPSK	1600	68	15.10	24.16	24.16				
20	QPSK	1650	0	14.95	24.31	24.31				
20	QPSK	1650	68	14.95	24.31	24.31				
20	QPSK	1700	0	14.80	24.46	24.46				
20	QPSK	1700	68	14.80	24.46	24.46				
20	QPSK	1750	0	14.65	24.61	24.61				
20	QPSK	1750	68	14.65	24.61	24.61				
20	QPSK	1800	0	14.50	24.76	24.76				
20	QPSK	1800	68	14.50	24.76	24.76				
20	QPSK	1850	0	14.35	24.91	24.91				
20	QPSK	1850	68	14.35	24.91	24.91				
20	QPSK	1900	0	14.20	25.06	25.06				
20	QPSK	1900	68	14.20	25.06	25.06				
20	QPSK	1950	0	14.05	25.21	25.21				
20	QPSK	1950	68	14.05	25.21	25.21				
20	QPSK	2000	0	13.90	25.36	25.36				
20	QPSK	2000	68	13.90	25.36	25.36				
20	QPSK	2050	0	13.75	25.51	25.51				
20	QPSK	2050	68	13.75	25.51	25.51				
20	QPSK	2100	0	13.60	25.66	25.66				
20	QPSK	2100	68	13.60	25.66	25.66				
20	QPSK	2150	0	13.45	25.81	25.81				
20	QPSK	2150	68	13.45	25.81	25.81				
20	QPSK	2200	0	13.30	25.96	25.96				
20	QPSK	2200	68	13.30	25.96	25.96				
20	QPSK	2250	0	13.15	26.11	26.11				
20	QPSK	2250	68	13.15	26.11	26.11				
20	QPSK	2300	0	13.00	26.26	26.26				
20	QPSK	2300	68	13.00	26.26	26.26				
20	QPSK	2350	0	12.85	26.41	26.41				
20	QPSK	2350	68	12.85	26.41	26.41				
20	QPSK	2400	0	12.70	26.56	26.56				
20	QPSK	2400	68	12.70	26.56	26.56				
20	QPSK	2450	0	12.55	26.71	26.71				
20	QPSK	2450	68	12.55	26.71	26.71				
20	QPSK	2500	0	12.40	26.86	26.86				
20	QPSK	2500	68	12.40	26.86	26.86				
20	QPSK	2550	0	12.25	27.01	27.01				
20	QPSK	2550	68	12.25	27.01	27.01				
20	QPSK	2600	0	12.10	27.16	27.16				
20	QPSK	2600	68	12.10	27.16	27.16				
20	QPSK	2650	0	11.95	27.31	27.31				
20	QPSK	2650	68	11.95	27.31	27.31				
20	QPSK	2700	0	11.80	27.46	27.46				
20	QPSK	2700	68	11.80	27.46	27.46				
20	QPSK	2750	0	11.65	27.61	27.61				
20	QPSK	2750	68	11.65	27.61	27.61				
20	QPSK	2800	0	11.50	27.76	27.76				
20	QPSK	2800	68	11.50	27.76	27.76				
20	QPSK	2850	0	11.35	27.91	27.91				
20	QPSK	2850	68	11.35	27.91	27.91				
20	QPSK	2900	0	11.20	28.06	28.06				
20	QPSK	2900	68	11.20	28.06	28.06				
20	QPSK	2950	0	11.05	28.21	28.21				
20	QPSK	2950	68	11.05	28.21	28.21				
20	QPSK	3000	0	10.90	28.36	28.36				
20	QPSK	3000	68	10.90	28.36	28.36				
20	QPSK	3050	0	10.75	28.51	28.51				
20	QPSK	3050	68	10.75	28.51	28.51				
20	QPSK	3100	0	10.60	28.66	28.66				
20	QPSK	3100	68	10.60	28.66	28.66				
20	QPSK	3150	0	10.45	28.81	28.81				
20	QPSK	3150	68	10.45	28.81	28.81				
20	QPSK	3200	0	10.30	28.96	28.96				



Band 13 Ant 0 DSI6										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up Int. (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.87					24	0
10	QPSK	25	25	22.87						
10	QPSK	1	49	22.78						
10	QPSK	25	0	21.90						
10	QPSK	25	12	21.87						
10	QPSK	25	25	21.89					23	1
10	QPSK	50	0	21.88						
10	HQAM	1	0	21.83						
10	HQAM	1	25	21.81					23	1
10	HQAM	1	49	21.52						
10	HQAM	1	25	20.83						
10	HQAM	25	0	20.83						
10	HQAM	25	12	20.85					22	2
10	HQAM	25	25	20.77						
10	HQAM	50	0	20.88						
10	HQAM	1	0	20.91						
10	HQAM	1	25	20.83					22	2
10	HQAM	1	49	20.53						
10	HQAM	25	0	19.85						
10	HQAM	25	12	19.89						
10	HQAM	25	25	19.82					21	3
10	HQAM	50	0	19.82						
10	25SQAM	1	0	17.83						
10	25SQAM	1	25	17.85					19	5
10	25SQAM	1	49	17.70						
10	25SQAM	25	0	17.86						
10	25SQAM	25	12	17.78					19	5
10	25SQAM	25	25	17.87						
10	25SQAM	50	0	17.45						
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.69	22.74	22.72			24	0
5	QPSK	1	12	22.69	22.74	22.72				
5	QPSK	1	24	22.59	22.63	22.67				
5	QPSK	12	0	21.72	21.73	21.84				
5	QPSK	12	7	21.76	21.84	21.73			23	1
5	QPSK	12	13	21.66	21.51	21.54				
5	QPSK	25	0	21.69	21.78	21.78				
5	HQAM	1	0	21.70	21.66	21.68				
5	HQAM	1	12	21.63	21.69	21.69			23	1
5	HQAM	1	24	21.32	21.47	21.38				
5	HQAM	12	0	20.84	20.72	20.71				
5	HQAM	12	7	20.68	20.66	20.78			22	2
5	HQAM	12	13	19.85	19.82	19.78				
5	HQAM	25	0	20.82	20.81	20.79				
5	HQAM	1	0	20.70	20.72	20.87			22	2
5	HQAM	1	12	20.70	20.71	20.79				
5	HQAM	1	24	20.48	20.46	20.52				
5	HQAM	12	0	19.76	19.79	19.70				
5	HQAM	12	7	19.85	19.82	19.78				
5	HQAM	12	13	19.55	19.58	19.45			21	3
5	HQAM	25	0	19.71	19.84	19.88				
5	25SQAM	1	0	17.87	17.84	17.86				
5	25SQAM	1	12	17.74	17.91	17.77			19	5
5	25SQAM	1	24	17.52	17.89	17.50				
5	25SQAM	12	0	17.81	17.76	17.81				
5	25SQAM	12	7	17.73	17.71	17.70				
5	25SQAM	12	13	17.84	17.88	17.84			19	5
5	25SQAM	25	0	17.35	17.40	17.25				

Band 17 Ant 0 DSI6										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up Int. (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.73	22.76	22.75			24	0
10	QPSK	1	25	22.65	22.67	22.66				
10	QPSK	1	49	22.87	22.81	22.69				
10	QPSK	25	0	21.78	21.87	21.73				
10	QPSK	25	12	21.74	21.71	21.72			23	1
10	QPSK	25	25	21.71	21.67	21.64				
10	QPSK	50	0	21.70	21.75	21.61				
10	HQAM	1	0	21.59	21.70	21.54				
10	HQAM	1	25	21.84	21.49	21.53			23	1
10	HQAM	1	49	21.58	21.54	21.61				
10	HQAM	1	49	20.79	20.99	20.94				
10	HQAM	25	0	20.89	20.75	20.72			22	2
10	HQAM	25	25	20.78	20.39	20.76				
10	HQAM	50	0	20.92	20.83	20.89				
10	HQAM	1	0	20.96	20.70	20.61				
10	HQAM	1	25	20.63	20.43	20.56			22	2
10	HQAM	1	49	20.64	20.30	20.55				
10	HQAM	25	0	19.78	19.83	19.78				
10	HQAM	25	12	19.73	19.70	19.74			21	3
10	HQAM	25	25	19.95	19.93	19.81				
10	HQAM	50	0	19.73	19.86	19.60				
10	25SQAM	1	0	17.01	17.68	17.76				
10	25SQAM	1	25	17.77	17.72	17.75			19	5
10	25SQAM	1	49	17.65	17.68	17.58				
10	25SQAM	25	0	17.73	17.75	17.53				
10	25SQAM	25	12	17.51	17.74	17.48			19	5
10	25SQAM	25	25	17.58	17.55	17.57				
10	25SQAM	50	0	17.61	17.63	17.59				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.60	22.57	22.58			24	0
5	QPSK	1	12	22.61	22.62	22.56				
5	QPSK	1	24	22.59	22.57	22.62				
5	QPSK	12	0	21.63	21.82	21.86				
5	QPSK	12	7	21.68	21.66	21.63			23	1
5	QPSK	12	13	21.62	21.56	21.47				
5	QPSK	25	0	21.65	21.63	21.59				
5	HQAM	1	0	21.41	21.52	21.46				
5	HQAM	1	12	21.43	21.39	21.49			23	1
5	HQAM	1	24	21.54	21.36	21.55				
5	HQAM	12	0	20.68	20.82	20.46				
5	HQAM	12	7	20.69	20.62	20.50			22	2
5	HQAM	12	13	20.63	20.41	20.53				
5	HQAM	25	0	20.43	20.62	20.48				
5	HQAM	1	0	20.40	20.62	20.42			22	2
5	HQAM	1	12	20.44	20.52	20.38				
5	HQAM	1	24	20.59	20.40	20.35				
5	HQAM	12	0	19.59	19.77	19.67				
5	HQAM	12	7	19.64	19.57	19.69			21	3
5	HQAM	12	13	19.49	19.45	19.45				
5	HQAM	25	0	19.64	19.48	19.43				
5	25SQAM	1	0	17.63	17.69	17.67				
5	25SQAM	1	12	17.71	17.54	17.55			19	5
5	25SQAM	1	24	17.44	17.81	17.38				
5	25SQAM	12	0	17.64	17.61	17.61				
5	25SQAM	12	7	17.41	17.67	17.57			19	5
5	25SQAM	12	13	17.44	17.51	17.41				
5	25SQAM	25	0	17.54	17.54	17.41				

Band 25 Ant 0 DSI6										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up Int. (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	19.96	19.90	19.94			21	1
20	QPSK	1	49	19.82	19.85	19.87				
20	QPSK	1	99	19.85	19.91	19.89				
20	QPSK	50	0	19.84	19.96	19.80				
20	QPSK	50	24	19.87	19.82	19.77			21	1
20	QPSK	50	50	19.75	19.79	19.84				
20	QPSK	100	0	19.81	19.93	19.80				
20	HQAM	1	0	19.92	19.91	19.90				
20	HQAM	1	49	19.87	19.74	19.82			21	1
20	HQAM	1	99	19.75	19.84	19.79				
20	HQAM	50	0	19.75	19.85	19.79				
20	HQAM	50	24	19.59	19.65	19.70			21	0
20	HQAM	50	50	19.67	19.77	19.82				
20	HQAM	100	0	19.82	19.91	19.84				
20	HQAM	1	0	19.53	19.62	19.48				
20	HQAM	1	49	19.59	19.84	19.71			21	1
20	HQAM	1	99	19.67	19.70	19.80				
20	HQAM	50	0	19.55	19.60	19.50				
20	HQAM	50	24	19.39	19.46	19.46			21	0.1
20	HQAM	50	50	19.46	19.48	19.44				
20	HQAM	100	0	19.50	19.59	19.43				
20	25SQAM	1	0	17.61	17.64	17.66				
20	25SQAM	1	49	17.68	17.75	17.82			19	2.1
20	25SQAM	1	99	17.69	17.83	17.82				
20	25SQAM	50	0	17.66	17.65	17.65				
20	25SQAM	50	24	17.67	17.67	17.63				
20	25SQAM	50	50	17.64	17.78	17.79			19	2.1
20	25SQAM	100	0	17.65	17.73	17.59				
Channel										
Frequency (MHz)										
15	QPSK	1	0	19.80	19.92	19.88			21	1
15	QPSK	1	74	19.87	19.84	19.84				
15	QPSK	1	147	19.79	19.82	19.84				
15	QPSK	36	0	19.75	19.82	19.70				
15	QPSK	36	24	19.57	19.57	19.59			21	1
15	QPSK	36	39	19.67	19.68	19.80				
15	HQAM	75	0	19.70	19.81	19.84				
15	HQAM	1	0	19.45	19.61	19.54				
15	HQAM	1	37	19.55	19.60	19.7				



Band 26 Ant 0 DS16										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Time-up (min)	MPR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.20	23.20	23.19				
15	QPSK	1	37	23.02	23.23	23.19				
15	QPSK	1	74	23.09	23.14	23.12	24	0		
15	QPSK	36	0	22.15	22.32	22.23				
15	QPSK	36	20	22.11	22.27	22.17				
15	QPSK	36	39	22.15	22.14	22.13	23	1		
15	QPSK	75	0	22.16	22.20	22.15				
15	HQAM	1	0	22.02	22.12	22.13				
15	HQAM	1	37	21.87	22.18	22.20	23	1		
15	HQAM	1	74	22.08	21.91	21.94				
15	HQAM	36	0	21.10	21.30	21.28				
15	HQAM	36	20	21.07	21.28	21.21	22	2		
15	HQAM	36	39	21.14	21.11	21.21				
15	HQAM	75	0	21.10	21.17	21.18				
15	HQAM	1	0	21.03	21.08	21.17				
15	HQAM	1	37	20.92	21.21	20.95	22	2		
15	HQAM	1	74	21.12	20.93	20.98				
15	HQAM	36	0	20.18	20.38	20.17				
15	HQAM	36	20	20.18	20.29	20.17	21	3		
15	HQAM	36	39	20.21	20.16	20.08				
15	HQAM	75	0	20.19	20.12	20.11				
15	HQAM	1	0	18.08	18.19	18.08				
15	HQAM	1	37	18.08	18.28	18.18	19	5		
15	HQAM	1	74	18.08	18.10	18.07				
15	HQAM	36	0	18.11	18.22	18.12				
15	HQAM	36	20	18.04	18.13	18.10	19	5		
15	HQAM	36	39	17.93	18.20	17.92				
15	HQAM	75	0	18.15	17.93	17.92				
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.04	23.10	23.09				
10	QPSK	1	23	22.89	23.11	23.01	24	0		
10	QPSK	1	49	23.04	23.00	22.98				
10	QPSK	26	0	21.97	22.21	22.10				
10	QPSK	26	12	22.06	22.21	21.97	23	1		
10	QPSK	26	25	22.03	22.03	22.09				
10	HQAM	1	0	21.89	22.09	21.93				
10	HQAM	1	25	21.72	21.96	21.83	23	1		
10	HQAM	1	49	21.89	21.79	21.82				
10	HQAM	26	0	21.00	21.19	21.08				
10	HQAM	26	12	20.94	21.21	21.14	22	2		
10	HQAM	26	25	21.04	21.16	21.05				
10	HQAM	50	0	21.01	21.14	21.05				
10	HQAM	1	0	20.93	21.04	21.10	22	2		
10	HQAM	1	25	20.88	20.93	20.97				
10	HQAM	1	49	21.04	20.93	20.75				
10	HQAM	26	0	20.09	20.19	19.99				
10	HQAM	26	12	20.15	20.11	19.98	21	3		
10	HQAM	26	25	20.13	19.97	19.93				
10	HQAM	50	0	20.04	19.91	20.00				
10	HQAM	1	0	18.08	18.18	18.08				
10	HQAM	1	25	17.93	18.25	18.11	19	5		
10	HQAM	1	49	17.93	17.94	17.98				
10	HQAM	26	0	18.11	18.18	18.08				
10	HQAM	26	12	17.97	17.93	17.99	19	5		
10	HQAM	26	25	17.73	18.03	17.77				
10	HQAM	50	0	18.08	17.73	17.84				
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.19	23.19	23.07				
5	QPSK	1	12	23.05	23.17	23.03	24	0		
5	QPSK	1	24	22.98	23.09	23.05				
5	QPSK	12	0	22.06	22.07	22.03				
5	QPSK	12	7	21.93	22.21	21.96	23	1		
5	QPSK	12	13	21.98	22.04	21.99				
5	HQAM	1	0	21.85	21.94	21.88				
5	HQAM	1	12	21.76	21.79	21.73	23	1		
5	HQAM	1	24	21.85	21.79	21.82				
5	HQAM	12	0	20.94	21.23	21.22				
5	HQAM	12	7	20.92	21.17	21.11	22	2		
5	HQAM	12	13	21.08	21.06	21.08				
5	HQAM	26	0	20.92	20.99	20.99				
5	HQAM	1	0	20.89	20.90	21.12	22	2		
5	HQAM	1	12	20.74	21.12	20.98				
5	HQAM	1	24	20.95	20.71	20.76				
5	HQAM	12	0	20.09	20.32	19.98				
5	HQAM	12	7	20.02	20.10	19.97	21	3		
5	HQAM	12	13	20.05	19.99	20.00				
5	HQAM	26	0	19.12	19.07	19.96				
5	HQAM	1	0	18.03	18.09	18.01	19	5		
5	HQAM	1	12	18.02	17.99	17.98				
5	HQAM	1	24	18.13	18.16	18.03				
5	HQAM	12	7	17.93	18.08	17.92	19	5		
5	HQAM	12	13	17.80	18.13	17.73				
5	HQAM	26	0	18.07	17.75	17.89				
Channel										
Frequency (MHz)										
3	QPSK	1	0	23.14	23.10	23.07				
3	QPSK	1	8	22.90	23.11	22.89	24	0		
3	QPSK	1	14	22.93	23.03	23.04				
3	QPSK	8	0	22.03	22.07	22.12				
3	QPSK	8	4	21.94	22.22	22.04	23	1		
3	QPSK	8	7	21.98	22.25	21.97				
3	HQAM	1	0	22.10	22.14	22.05				
3	HQAM	1	8	21.92	22.07	21.86	23	1		
3	HQAM	1	14	21.93	21.76	21.88				
3	HQAM	8	0	20.96	21.20	21.16				
3	HQAM	8	4	20.96	21.20	21.04	22	2		
3	HQAM	8	7	20.98	21.06	21.13				
3	HQAM	15	0	20.97	21.09	21.05				
3	HQAM	1	0	20.86	21.01	21.00	22	2		
3	HQAM	1	8	20.69	21.02	20.74				
3	HQAM	1	14	21.02	20.73	20.78				
3	HQAM	8	0	20.07	20.21	20.06				
3	HQAM	8	4	20.13	20.23	20.08	21	3		
3	HQAM	8	7	20.16	20.10	20.01				
3	HQAM	15	0	20.06	19.96	19.99				
3	HQAM	1	0	18.15	18.12	18.17				
3	HQAM	1	8	18.03	18.07	18.08	19	5		
3	HQAM	1	14	17.93	17.92	17.89				
3	HQAM	8	0	18.13	18.18	17.92				
3	HQAM	8	4	17.95	18.08	17.77	19	5		
3	HQAM	15	0	17.68	17.65	17.69				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	23.15	23.12	23.15				
1.4	QPSK	1	3	23.00	23.18	22.96	24	0		
1.4	QPSK	1	5	22.97	23.03	23.07				
1.4	QPSK	3	0	22.06	22.00	22.02				
1.4	QPSK	3	1	22.84	23.14	22.85				
1.4	QPSK	3	3	22.77	22.98	22.97	23	1		
1.4	QPSK	3	5	22.11	22.02	21.95				
1.4	HQAM	1	0	21.99	21.62	21.62				
1.4	HQAM	1	3	21.83	22.01	21.90	23	1		
1.4	HQAM	1	5	21.88	21.87	21.90				
1.4	HQAM	3	0	21.92	21.73	21.93				
1.4	HQAM	3	1	21.77	21.90	21.81				
1.4	HQAM	3	3	21.76	21.75	21.73	22	2		
1.4	HQAM	6	0	21.05	21.07	20.97				
1.4	HQAM	1	0	20.90	20.91	21.01				
1.4	HQAM	1	3	20.91	21.17	20.86	22	2		
1.4	HQAM	1	5	21.00	20.71	20.83				
1.4	HQAM	3	0	20.82	20.79	20.81				
1.4	HQAM	3	1	20.87	21.06	20.78	21	3		
1.4	HQAM	3	3	20.87	20.84	20.70				
1.4	HQAM	6	0	18.00	18.11	18.08				
1.4	HQAM	3	0	18.00	18.11	18.08	21	3		
1.4	HQAM	3	3	17.95	18.07	17.99				



Band 7 Ant 1 DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-up limit (dB)	MPE (dB)
Channel								
Frequency (MHz)				2510	2510	2550		
20	QPSK	1	0	20.28	20.30	20.25	21.4	0
20	QPSK	1	49	20.22	20.18	20.21		
20	QPSK	1	99	20.20	20.27	20.19		
20	QPSK	50	0	20.24	20.19	20.10		
20	QPSK	50	-24	20.08	20.04	20.17	21.4	0
20	QPSK	50	50	20.11	20.12	20.15		
20	QPSK	100	0	20.14	20.19	20.12		
20	HQAM	1	0	20.22	20.20	20.16	21.4	0
20	HQAM	1	49	20.18	20.14	20.12		
20	HQAM	1	99	20.16	20.14	20.13		
20	HQAM	50	0	20.20	20.11	19.99		
20	HQAM	50	24	20.02	19.98	20.10	21.4	0
20	HQAM	50	50	20.07	19.97	20.10		
20	HQAM	100	0	20.02	20.05	19.97		
20	HQAM	1	0	20.24	20.21	20.17		
20	HQAM	1	49	20.12	20.13	20.11	21.4	0
20	HQAM	1	99	20.08	20.21	20.12		
20	HQAM	50	0	19.94	19.92	19.87		
20	HQAM	50	24	19.83	19.77	19.81	21	0.4
20	HQAM	50	50	19.79	19.93	19.81		
20	HQAM	100	0	19.79	19.83	19.72		
20	SSBQAM	1	0	17.86	17.87	17.88	19	2.4
20	SSBQAM	1	49	17.77	17.75	17.82		
20	SSBQAM	1	99	17.85	17.86	17.73		
20	SSBQAM	50	0	17.89	17.76	17.74		
20	SSBQAM	50	-24	17.71	17.81	17.81	19	2.4
20	SSBQAM	50	50	17.67	17.76	17.78		
20	SSBQAM	100	0	17.72	17.86	17.73		
Channel				2055	21100	21375	Turn-up limit (dB)	MPE (dB)
Frequency (MHz)				2057.5	2035	2052.5		
15	QPSK	1	0	20.13	20.26	20.17	21.4	0
15	QPSK	1	37	20.14	20.03	20.09		
15	QPSK	1	74	20.13	20.16	20.12		
15	QPSK	96	0	20.14	20.12	20.01		
15	QPSK	96	-20	20.04	19.97	20.05	21.4	0
15	QPSK	96	36	20.04	20.07	20.09		
15	QPSK	75	0	20.03	20.10	20.02		
15	HQAM	1	0	20.14	20.09	20.01	21.4	0
15	HQAM	1	37	20.05	20.09	19.98		
15	HQAM	36	0	20.07	19.99	19.84		
15	HQAM	96	20	19.93	19.85	20.03	21.4	0
15	HQAM	96	36	19.98	19.87	20.04		
15	HQAM	75	0	19.97	20.01	19.82		
15	HQAM	1	0	20.11	20.07	20.09	21.4	0
15	HQAM	1	37	20.03	20.06	20.02		
15	HQAM	1	74	19.97	20.12	20.03		
15	HQAM	96	0	19.84	19.83	19.76		
15	HQAM	96	20	19.70	19.71	19.85	21	0.4
15	HQAM	96	36	19.74	19.82	19.70		
15	HQAM	75	0	19.86	19.70	19.64		
15	SSBQAM	1	0	17.76	17.76	17.73	19	2.4
15	SSBQAM	1	37	17.72	17.64	17.68		
15	SSBQAM	1	74	17.78	17.78	17.59		
15	SSBQAM	96	0	17.74	17.86	17.67		
15	SSBQAM	96	20	17.57	17.47	17.73	19	2.4
15	SSBQAM	96	36	17.52	17.64	17.65		
15	SSBQAM	75	0	17.65	17.76	17.58		
Channel				20800	21100	21400	Turn-up limit (dB)	MPE (dB)
Frequency (MHz)				20805	2035	2085		
10	QPSK	1	0	20.13	20.22	20.22	21.4	0
10	QPSK	1	25	20.15	20.05	20.17		
10	QPSK	1	49	20.08	20.17	20.08		
10	QPSK	25	0	20.16	20.09	19.88	21.4	0
10	QPSK	25	12	19.93	19.93	20.03		
10	QPSK	25	25	19.99	20.06	20.09		
10	QPSK	50	0	20.08	20.13	20.05		
10	HQAM	1	0	20.10	20.13	20.07	21.4	0
10	HQAM	1	25	20.12	20.02	19.88		
10	HQAM	1	49	20.06	19.99	20.02		
10	HQAM	25	0	20.09	19.96	19.83		
10	HQAM	25	12	19.87	19.88	20.00	21.4	0
10	HQAM	25	25	19.98	19.87	19.96		
10	HQAM	50	0	19.97	19.90	19.87		
10	HQAM	1	0	20.16	20.08	20.06	21.4	0
10	HQAM	1	25	20.00	19.98	20.03		
10	HQAM	1	49	19.94	20.12	20.04		
10	HQAM	25	0	19.78	19.82	19.73		
10	HQAM	25	12	19.73	19.70	19.70	21	0.4
10	HQAM	25	25	19.67	19.82	19.70		
10	HQAM	50	0	19.72	19.75	19.68		
10	SSBQAM	1	0	17.63	17.74	17.70	19	2.4
10	SSBQAM	1	25	17.69	17.64	17.72		
10	SSBQAM	1	49	17.79	17.75	17.68		
10	SSBQAM	25	0	17.73	17.72	17.61		
10	SSBQAM	25	12	17.64	17.48	17.68	19	2.4
10	SSBQAM	25	25	17.59	17.64	17.72		
10	SSBQAM	50	0	17.58	17.72	17.61		
Channel				20775	21100	21425	Turn-up limit (dB)	MPE (dB)
Frequency (MHz)				2082.5	2035	2087.5		
5	QPSK	1	0	20.14	20.27	20.21	21.4	0
5	QPSK	1	12	20.12	20.12	20.10		
5	QPSK	1	24	20.05	20.17	20.14		
5	QPSK	12	0	20.17	20.12	20.07	21.4	0
5	QPSK	12	7	19.98	19.97	20.00		
5	QPSK	12	13	20.04	20.01	20.05		
5	QPSK	25	0	20.05	20.12	19.88		
5	HQAM	1	0	20.07	20.12	20.11	21.4	0
5	HQAM	1	12	20.03	20.03	20.01		
5	HQAM	1	24	20.12	20.04	20.04		
5	HQAM	12	0	20.10	20.07	19.92		
5	HQAM	12	7	19.88	19.83	19.95	21.4	0
5	HQAM	12	13	20.03	19.86	20.03		
5	HQAM	25	0	19.88	19.93	19.91		
5	HQAM	1	0	20.08	20.07	20.09	21.4	0
5	HQAM	1	12	20.03	20.07	19.98		
5	HQAM	1	24	20.01	20.10	20.03		
5	HQAM	12	0	19.79	19.77	19.76	21	0.4
5	HQAM	12	7	19.69	19.63	19.69		
5	HQAM	12	13	19.70	19.84	19.70		
5	HQAM	25	0	19.71	19.89	19.81		
5	SSBQAM	1	0	17.65	17.83	17.75	19	2.4
5	SSBQAM	1	12	17.69	17.60	17.72		
5	SSBQAM	1	24	17.69	17.89	17.85		
5	SSBQAM	12	0	17.78	17.65	17.69		
5	SSBQAM	12	7	17.62	17.49	17.74	19	2.4
5	SSBQAM	12	13	17.67	17.89	17.85		
5	SSBQAM	25	0	17.63	17.71	17.58		



Band 2 Ant 4 DS16										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power High Ch./F.Freq.	Power Low Ch./F.Freq.	Turn-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.25	18.25	18.17				
20	QPSK	1	48	18.14	18.14	18.14				
20	QPSK	1	96	18.08	18.13	18.10			19.5	0
20	QPSK	50	0	18.15	18.23	18.13				
20	QPSK	50	48	18.08	18.24	18.18				
20	QPSK	50	96	18.06	18.07	18.02				
20	QPSK	100	0	18.08	18.12	18.11				
20	QPSK	100	48	18.17	18.23	18.17				
20	QPSK	1	48	18.15	18.13	18.02			19.5	0
20	16QAM	1	96	18.04	17.86	18.05				
20	16QAM	50	0	17.98	18.04	18.01				
20	16QAM	50	24	17.92	17.99	17.95				
20	16QAM	50	50	17.96	17.99	17.93				
20	16QAM	100	0	18.00	18.05	17.95				
20	16QAM	1	0	18.18	18.20	18.07				
20	16QAM	1	48	18.09	18.05	17.95			19.5	0
20	16QAM	50	0	18.07	18.19	18.09				
20	16QAM	50	24	17.98	18.00	17.92				
20	16QAM	50	50	17.93	17.84	17.84			19.5	0
20	16QAM	100	0	17.95	18.02	17.96				
20	25QAM	1	0	18.16	18.21	18.14				
20	25QAM	1	48	18.16	18.21	18.14			17.5	2
20	25QAM	1	96	18.20	18.14	18.02				
20	25QAM	50	0	18.09	18.03	18.03				
20	25QAM	50	24	18.06	18.06	18.05				
20	25QAM	50	50	18.13	18.07	18.08			17.5	2
20	25QAM	100	0	18.03	18.07	18.03				
Channel										
Frequency (MHz)										
15	QPSK	1	0	18.12	18.11	18.13				
15	QPSK	1	48	18.07	18.11	18.10			19.5	0
15	QPSK	1	96	17.96	17.99	18.00				
15	QPSK	36	0	18.01	18.10	18.08				
15	QPSK	36	48	17.95	18.03	17.95				
15	QPSK	36	96	17.91	17.93	17.95			19.5	0
15	QPSK	75	0	18.00	18.00	17.97				
15	QPSK	75	48	18.06	18.14	18.06				
15	16QAM	1	37	18.08	18.08	17.97			19.5	0
15	16QAM	1	74	18.04	18.04	17.92				
15	16QAM	36	0	17.94	17.98	17.92				
15	16QAM	36	20	17.85	17.87	17.80			19.5	0
15	16QAM	36	48	17.82	17.85	17.82				
15	16QAM	75	0	17.88	17.85	17.85				
15	16QAM	1	0	18.08	18.15	18.02				
15	16QAM	1	37	18.04	18.04	17.92			19.5	0
15	16QAM	1	74	17.95	17.90	17.95				
15	16QAM	36	0	17.85	18.06	18.00			19.5	0
15	16QAM	36	20	17.82	17.85	17.84				
15	16QAM	75	0	17.92	17.88	17.94				
15	25QAM	1	37	18.02	18.00	18.02			17.5	2
15	25QAM	1	74	18.09	18.08	18.08				
15	25QAM	36	0	18.00	18.00	18.00				
15	25QAM	36	20	18.01	18.02	18.02			17.5	2
15	25QAM	75	0	18.08	18.01	18.07				
15	25QAM	1	0	18.00	18.00	18.00				
Channel										
Frequency (MHz)										
10	QPSK	1	0	18.00	18.00	18.00				
10	QPSK	1	25	18.06	18.14	18.01			19.5	0
10	QPSK	1	48	17.98	18.06	18.00				
10	QPSK	12	0	17.95	18.00	17.95				
10	QPSK	25	12	17.90	18.03	17.99				
10	QPSK	25	25	17.84	18.03	17.92			19.5	0
10	QPSK	50	0	18.00	18.00	17.94				
10	QPSK	50	24	17.95	18.00	17.95				
10	16QAM	1	25	18.10	18.08	18.12			19.5	0
10	16QAM	1	48	18.07	18.02	17.90				
10	16QAM	25	12	17.95	17.83	17.85				
10	16QAM	25	25	17.88	17.88	17.80			19.5	0
10	16QAM	50	0	17.92	17.85	17.84				
10	16QAM	50	24	17.92	18.00	17.88				
10	16QAM	100	0	18.12	18.17	17.97			19.5	0
10	16QAM	1	0	18.05	18.05	18.05				
10	16QAM	1	48	17.91	17.85	17.90				
10	16QAM	25	0	18.03	18.13	18.00				
10	16QAM	25	12	17.95	18.00	17.92			19.5	0
10	16QAM	25	25	17.85	17.84	17.80				
10	16QAM	50	0	17.95	18.11	18.00				
10	16QAM	50	24	17.92	17.94	17.92			19.5	0.8
10	25QAM	1	37	18.10	18.20	18.23			17.5	2.8
10	25QAM	1	74	18.24	18.32	18.28				
10	25QAM	36	0	18.00	18.00	18.00				
10	25QAM	36	20	18.04	18.24	18.10			17.5	2.8
10	25QAM	75	0	18.10	18.11	18.08				
10	25QAM	1	0	18.00	18.00	18.00				
Channel										
Frequency (MHz)										
5	QPSK	1	0	18.00	18.00	18.00				
5	QPSK	1	12	18.05	18.15	18.04			19.5	0
5	QPSK	1	24	17.99	18.05	18.05				
5	QPSK	12	0	17.95	18.00	17.95				
5	QPSK	12	12	17.87	18.01	17.97				
5	QPSK	25	0	18.07	18.09	18.08			19.5	0
5	QPSK	25	12	17.95	17.83	17.85				
5	QPSK	25	25	17.88	17.88	17.80				
5	16QAM	1	12	18.05	18.07	17.94			19.5	0
5	16QAM	1	24	17.94	17.86	17.86				
5	16QAM	12	0	17.93	17.83	17.89				
5	16QAM	12	12	17.87	17.82	17.91			19.5	0
5	16QAM	25	0	17.92	17.89	17.86				
5	16QAM	25	12	17.83	17.84	17.85			19.5	0
5	16QAM	25	25	17.81	17.80	17.85				
5	16QAM	50	0	18.14	18.14	17.95				
5	16QAM	50	24	18.01	17.90	17.95			19.5	0
5	16QAM	100	0	17.92	17.91	17.96				
5	16QAM	1	0	17.97	18.07	17.99				
5	16QAM	1	12	17.87	17.83	17.86			19.5	0
5	16QAM	1	24	17.81	17.86	17.86				
5	16QAM	12	0	17.87	17.81	17.87				
5	16QAM	12	12	17.81	17.72	17.86			19.5	0
5	16QAM	25	0	17.97	17.97	17.99				
5	16QAM	25	12	17.87	17.89	17.79			19.5	0
5	16QAM	25	25	17.81	17.72	17.86				
5	16QAM	50	0	18.14	18.14	17.96				
5	16QAM	50	24	18.00	17.90	17.95			19.5	0
5	16QAM	100	0	17.92	17.91	17.96				
5	16QAM	1	0	17.97	18.07	17.99				
5	16QAM	1	12	17.87	17.83	17.86			19.5	0
5	16QAM	1	24	17.81	17.86	17.86				
5	16QAM	12	0	17.87	17.81	17.87				
5	16QAM	12	12	17.81	17.72	17.86			19.5	0
5	16QAM	25	0	17.97	17.97	17.99				
5	16QAM	25	12	17.87	17.89	17.79			19.5	0
5	16QAM	25	25	17.81	17.72	17.86				
5	16QAM	50	0	18.14	18.14	17.96				
5	16QAM	50	24	18.00	17.90	17.95			19.5	0
5	16QAM	100	0	17.92	17.91	17.96				
5	16QAM	1	0	17.97	18.07	17.99				
5	16QAM	1	12	17.87	17.83	17.86			19.5	0
5	16QAM	1	24	17.81	17.86	17.86				
5	16QAM	12	0	17.87	17.81	17.87				
5	16QAM	12	12	17.81	17.72	17.86			19.5	0
5	16QAM	25	0	17.97	17.97	17.99				
5	16QAM	25	12	17.87	17.89	17.79			19.5	0
5	16QAM	25	25	17.81	17.72	17.86				
5	16QAM	50	0	18.14	18.14	17.96				
5	16QAM	50	24	18.00	17.90	17.95			19.5	0
5	16QAM	100	0	17.92	17.91	17.96				
5	16QAM	1	0	17.97	18.07	17.99				
5	16QAM	1	12	17.87	17.83	17.86			19.5	0
5	16QAM	1	24	17.81	17.86	17.86				
5	16QAM	12	0	17.87	17.81	17.87				
5	16QAM	12	12	17.81	17.72	17.86			19.5	0
5	16QAM	25	0	17.97	17.97	17.99				
5	16QAM	25	12	17.87	17.89	17.79			19.5	0
5	16QAM	25	25	17.81	17.72	17.86				
5	16QAM	50	0	18.14	18.14	17.96				
5	16QAM	50	24	18.00	17.90	17.95			19.5	0
5	16QAM	100	0	17.92	17.91	17.96				
5	16QAM	1	0	17.97	18.07	17.99				
5	16QAM	1	12	17.87	17.83	17.86			19.5	0
5	16QAM	1	24	17.81	17.86	17.86				
5	16QAM	12	0	17.87	17.81	17.87				



Band 25 Ant 4 DS16										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up Init. (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.22	18.35	18.29		19.5	0	
20	QPSK	1	99	18.20	18.26	18.17				
20	QPSK	50	0	18.19	18.29	18.22				
20	QPSK	50	150	18.15	18.15	18.10		19.5	0	
20	QPSK	50	50	18.17	18.13	18.10				
20	QPSK	100	0	18.18	18.22	18.15				
20	HQAM	1	49	18.19	18.21	18.13		19.5	0	
20	HQAM	1	99	18.10	18.11	18.12				
20	HQAM	50	0	18.20	18.16	18.15				
20	HQAM	50	24	17.99	18.05	18.04		19.5	0	
20	HQAM	50	50	18.06	18.04	18.03				
20	HQAM	100	0	18.05	18.09	18.11				
20	HQAM	1	0	18.28	18.24	18.22				
20	HQAM	1	49	18.10	18.22	18.01		19.5	0	
20	HQAM	1	99	18.12	18.13	18.14				
20	HQAM	50	24	18.02	18.11	18.03		19.5	0	
20	HQAM	50	50	18.13	17.96	18.05				
20	HQAM	100	0	18.08	18.17	18.09				
20	ZSSBAM	1	49	18.21	18.27	18.25		17.5	2	
20	ZSSBAM	1	99	18.23	18.23	18.12				
20	ZSSBAM	50	24	18.14	18.13	18.08		17.5	2	
20	ZSSBAM	50	50	18.20	18.12	18.13				
20	ZSSBAM	100	0	18.17	18.20	18.20				
Channel										
Frequency (MHz)										
16	QPSK	1	0	18.22	18.24	18.22		19.5	0	
16	QPSK	1	37	18.21	18.19	18.24				
16	QPSK	1	74	18.10	18.12	18.27				
16	QPSK	36	0	18.13	18.24	18.13		19.5	0	
16	QPSK	36	36	18.12	18.09	18.28				
16	QPSK	75	0	18.04	18.18	18.07				
16	HQAM	1	37	18.20	18.17	18.07		19.5	0	
16	HQAM	1	37	18.13	18.11	18.07				
16	HQAM	74	0	18.20	18.13	18.04				
16	HQAM	36	0	17.95	18.05	18.04				
16	HQAM	36	20	17.92	17.95	17.97		19.5	0	
16	HQAM	36	39	17.95	17.91	17.92				
16	HQAM	75	0	17.98	18.15	17.97				
16	HQAM	1	0	18.21	18.15	18.07		19.5	0	
16	HQAM	1	49	18.20	18.05	18.03				
16	HQAM	1	74	18.20	18.03	17.95				
16	HQAM	36	0	18.01	18.19	18.06		19.5	0	
16	HQAM	36	39	18.02	18.05	18.03				
16	HQAM	75	0	17.93	18.13	17.98				
16	ZSSBAM	1	49	18.20	18.17	18.04		17.5	2	
16	ZSSBAM	1	99	18.16	18.16	18.16				
16	ZSSBAM	1	74	18.19	18.14	18.01				
16	ZSSBAM	36	0	18.02	18.16	18.03		17.5	2	
16	ZSSBAM	36	20	18.02	18.00	18.05				
16	ZSSBAM	36	39	18.13	18.05	18.07		17.5	2	
16	ZSSBAM	75	0	18.15	18.17	18.01				
Channel										
Frequency (MHz)										
10	QPSK	1	0	18.21	18.20	18.20		19.5	0	
10	QPSK	1	25	18.21	18.25	18.12				
10	QPSK	1	49	18.11	18.17	18.12				
10	QPSK	25	0	18.16	18.16	18.16		19.5	0	
10	QPSK	25	12	18.09	18.12	18.00				
10	QPSK	25	25	18.02	18.01	18.08				
10	HQAM	1	25	18.20	18.07	18.01		19.5	0	
10	HQAM	1	25	18.22	18.19	18.10				
10	HQAM	1	25	18.13	18.07	18.03		19.5	0	
10	HQAM	1	25	18.15	18.02	18.01				
10	HQAM	25	0	17.98	18.06	18.04				
10	HQAM	25	12	17.87	17.99	17.96		19.5	0	
10	HQAM	25	12	17.91	17.91	17.92				
10	HQAM	50	0	18.20	18.15	18.02				
10	HQAM	1	0	18.17	18.10	18.12		19.5	0	
10	HQAM	25	0	18.05	18.13	18.04				
10	HQAM	1	49	18.08	17.99	17.94				
10	HQAM	25	0	18.01	18.12	18.08		19.5	0	
10	HQAM	12	0	18.02	18.02	18.02				
10	HQAM	25	25	18.08	17.93	17.95				
10	HQAM	50	0	17.96	18.11	18.00		19.5	0	
10	ZSSBAM	1	25	18.18	18.24	18.21		17.5	2	
10	ZSSBAM	1	49	18.16	18.09	18.06				
10	ZSSBAM	25	0	18.05	18.16	18.11		17.5	2	
10	ZSSBAM	25	12	18.09	18.00	18.00				
10	ZSSBAM	25	25	18.16	18.02	18.00		17.5	2	
10	ZSSBAM	50	0	18.11	18.09	18.01				
Channel										
Frequency (MHz)										
5	QPSK	1	0	18.21	18.20	18.21		19.5	0	
5	QPSK	1	12	18.21	18.27	18.13				
5	QPSK	1	24	18.10	18.15	18.05				
5	QPSK	1	49	18.13	18.23	18.13		19.5	0	
5	QPSK	12	7	17.99	18.09	18.04				
5	QPSK	12	13	18.13	18.05	18.04		19.5	0	
5	QPSK	25	0	18.02	18.11	18.01				
5	HQAM	1	0	18.25	18.22	18.11		19.5	0	
5	HQAM	1	12	18.06	18.15	18.10				
5	HQAM	1	24	18.05	18.04	18.04				
5	HQAM	12	0	17.97	18.04	18.06				
5	HQAM	12	7	17.95	17.99	17.96		19.5	0	
5	HQAM	12	13	17.91	17.96	17.95				
5	HQAM	25	0	17.99	18.15	17.99				
5	HQAM	1	0	18.23	18.12	18.10		19.5	0	
5	HQAM	1	12	18.04	18.06	18.06				
5	HQAM	1	24	18.08	18.06	17.90				
5	HQAM	12	0	18.04	18.12	18.00		19.5	0	
5	HQAM	12	7	17.91	18.06	17.95				
5	HQAM	12	13	18.10	17.83	17.92				
5	HQAM	25	0	17.96	18.03	18.05		19.5	0	
5	HQAM	25	0	18.16	18.24	18.24				
5	ZSSBAM	1	12	18.14	18.24	18.21		17.5	2	
5	ZSSBAM	1	24	18.06	18.15	18.00				
5	ZSSBAM	12	0	18.06	18.16	18.14		17.5	2	
5	ZSSBAM	12	7	18.09	18.04	18.02				
5	ZSSBAM	25	0	18.11	18.11	18.08		17.5	2	
Channel										
Frequency (MHz)										
3	QPSK	1	0	18.10	18.23	18.13		19.5	0	
3	QPSK	1	14	18.17	18.19	18.13				
3	QPSK	1	28	18.06	18.26	18.15				
3	QPSK	8	4	18.04	18.05	18.01		19.5	0	
3	QPSK	8	7	18.11	18.09	17.98				
3	QPSK	14	0	18.12	18.09	18.01				
3	HQAM	1	0	18.25	18.27	18.10		19.5	0	
3	HQAM	1	8	18.04	18.13	18.06				
3	HQAM	1	14	18.02	18.06	18.02				
3	HQAM	8	0	17.93	18.02	18.07		19.5	0	
3	HQAM	8	4	17.90	17.98	17.95				
3	HQAM	16	0	17.94	18.05	18.07				
3	HQAM	1	0	18.21	18.09	18.10		19.5	0	
3	HQAM	1	8	18.11	18.12	17.92				
3	HQAM	1	14	17.99	18.03	17.94				
3	HQAM	8	0	18.02	18.09	18.10		19.5	0	
3	HQAM	8	4	17.99	17.98	17.98				
3	HQAM	8	7	18.05	17.91	17.90		19.5	0	
3	ZSSBAM	16	0	18.02	18.07	18.01				
3	ZSSBAM	1	0	18.23	18.26	18.17		17.5	2	
3	ZSSBAM	1	8	18.09	18.18	18.13				
3	ZSSBAM	1	14	18.06	18.14	18.04		17.5	2	
3	ZSSBAM	8	0	18.03	18.17	18.04				
3	ZSSBAM	8	4	18.09	18.07	18.00		17.5	2	
3	ZSSBAM	16	0	18.05	18.04	18.04				



Band 38 Ant 1 DSI6										
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)										
3950	3950	3950	3950	3950	3950	3950				
20	QPSK	1	0	21.27	21.27	21.27				
20	QPSK	1	49	21.23	21.28	21.29	22.6	0		
20	QPSK	1	99	21.22	21.29	21.30				
20	QPSK	50	0	21.30	21.34	21.35				
20	QPSK	50	24	21.29	21.29	21.29	22.6	0		
20	QPSK	50	49	21.25	21.32	21.32				
20	QPSK	100	0	21.27	21.31	21.32				
20	16QAM	1	0	21.30	21.31	21.31	22.6	0		
20	16QAM	1	49	21.25	21.30	21.30				
20	16QAM	1	99	21.13	21.23	21.23				
20	16QAM	50	0	20.97	20.99	20.99				
20	16QAM	50	24	20.94	20.92	20.96	22	0.6		
20	16QAM	50	49	20.76	20.69	20.78				
20	64QAM	100	0	20.79	20.78	20.80				
20	64QAM	1	49	20.77	20.65	20.65	22	0.6		
20	64QAM	1	99	20.62	20.65	20.65				
20	64QAM	50	0	19.53	19.85	19.76				
20	64QAM	50	24	19.89	19.84	19.81	21	1.6		
20	64QAM	50	49	19.77	19.83	19.78				
20	64QAM	100	0	19.68	19.76	19.74				
20	256QAM	1	0	17.86	17.89	17.83				
20	256QAM	1	49	17.82	17.86	17.80	19	3.6		
20	256QAM	1	99	17.67	17.73	17.80				
20	256QAM	50	0	17.86	17.82	17.72				
20	256QAM	50	24	17.74	17.82	17.58	19	3.6		
20	256QAM	50	49	17.71	17.70	17.64				
20	256QAM	100	0	17.56	17.56	17.56				
Channel										
Frequency (MHz)										
3950	3950	3950	3950	3950	3950	3950				
15	QPSK	1	0	21.27	21.27	21.27				
15	QPSK	1	37	21.19	21.23	21.18	22.6	0		
15	QPSK	1	74	21.05	21.06	21.17				
15	QPSK	36	0	21.21	21.31	21.21				
15	QPSK	36	20	21.14	21.23	21.18	22.6	0		
15	QPSK	36	39	21.04	21.17	21.19				
15	QPSK	75	0	21.17	21.28	21.26				
15	16QAM	1	0	21.18	21.26	21.26	22.6	0		
15	16QAM	1	37	21.11	21.19	21.22				
15	16QAM	1	74	21.00	21.19	21.22				
15	16QAM	36	0	20.93	20.90	20.74				
15	16QAM	36	20	20.88	20.74	20.64	22	0.6		
15	16QAM	36	39	20.63	20.49	20.69				
15	16QAM	75	0	20.63	20.73	20.65				
15	64QAM	1	0	20.75	20.71	20.43				
15	64QAM	1	37	20.67	20.53	20.49	22	0.6		
15	64QAM	1	74	20.62	20.36	20.48				
15	64QAM	36	0	19.71	19.73	19.68				
15	64QAM	36	20	19.84	19.80	19.46	21	1.6		
15	64QAM	36	39	19.51	19.52	19.56				
15	64QAM	75	0	19.76	17.82	17.89	19	3.6		
15	256QAM	1	0	17.82	17.81	17.81				
15	256QAM	1	37	17.82	17.83	17.85				
15	256QAM	1	74	17.62	17.62	17.59				
15	256QAM	36	0	17.63	17.77	17.44	19	3.6		
15	256QAM	36	20	17.61	17.66	17.58				
15	256QAM	36	39	17.56	17.46	17.41				
15	256QAM	75	0	17.56	17.46	17.41				
Channel										
Frequency (MHz)										
3950	3950	3950	3950	3950	3950	3950				
10	QPSK	1	0	21.27	21.27	21.27				
10	QPSK	1	25	21.18	21.24	21.20	22.6	0		
10	QPSK	1	49	21.03	21.05	21.27				
10	QPSK	12	0	21.26	21.34	21.35				
10	QPSK	25	12	21.15	21.14	21.19	22.6	0		
10	QPSK	25	25	21.08	21.11	21.14				
10	16QAM	1	0	21.17	21.18	21.21	22.6	0		
10	16QAM	1	25	21.16	21.08	21.15				
10	16QAM	1	49	20.97	21.11	21.19				
10	16QAM	25	0	20.84	20.81	20.68				
10	16QAM	25	12	20.75	20.72	20.47	22	0.6		
10	16QAM	25	25	20.68	20.65	20.62				
10	16QAM	50	0	20.74	20.68	20.64				
10	64QAM	1	0	20.66	20.76	20.56				
10	64QAM	1	25	20.72	20.55	20.58	22	0.6		
10	64QAM	1	49	20.48	20.51	20.56				
10	64QAM	25	0	19.65	19.78	19.82				
10	64QAM	25	12	19.65	19.66	19.53	21	1.6		
10	64QAM	25	25	19.25	19.69	19.60				
10	64QAM	50	0	19.65	19.68	19.70				
10	256QAM	1	0	17.67	17.78	17.73				
10	256QAM	1	25	17.86	17.70	17.51	19	3.6		
10	256QAM	1	49	17.79	17.82	17.81				
10	256QAM	25	0	17.60	17.67	17.68				
10	256QAM	25	12	17.56	17.76	17.52				
10	256QAM	25	25	17.54	17.61	17.60	19	3.6		
10	256QAM	50	0	17.62	17.44	17.40				
Channel										
Frequency (MHz)										
3950	3950	3950	3950	3950	3950	3950				
5	QPSK	1	0	21.22	21.22	21.27				
5	QPSK	1	18	21.20	21.19	21.25	22.6	0		
5	QPSK	1	24	21.00	21.15	21.25				
5	QPSK	12	0	21.22	21.28	21.32				
5	QPSK	12	7	21.10	21.19	21.12	22.6	0		
5	QPSK	12	13	21.11	21.20	21.09				
5	QPSK	25	0	21.13	21.22	21.22				
5	16QAM	1	0	21.18	21.25	21.26	22.6	0		
5	16QAM	1	12	21.17	21.05	21.28				
5	16QAM	1	24	20.99	21.09	21.21				
5	16QAM	12	0	20.84	20.92	20.61				
5	16QAM	12	7	20.76	20.69	20.54	22	0.6		
5	16QAM	12	13	20.61	20.60	20.70				
5	16QAM	25	0	20.78	20.75	20.68				
5	16QAM	25	12	20.65	20.60	20.50				
5	64QAM	1	0	20.69	20.58	20.55	22	0.6		
5	64QAM	1	24	20.61	20.49	20.62				
5	64QAM	12	0	19.75	19.76	19.46				
5	64QAM	12	7	19.75	19.65	19.46	21	1.6		
5	64QAM	12	13	19.59	19.79	19.61				
5	64QAM	25	0	19.53	19.62	19.70				
5	256QAM	1	0	17.70	17.83	17.78				
5	256QAM	1	12	17.68	17.67	17.54	19	3.6		
5	256QAM	1	24	17.60	17.68	17.72				
5	256QAM	12	0	17.67	17.68	17.51				
5	256QAM	12	7	17.67	17.67	17.50	19	3.6		
5	256QAM	12	13	17.59	17.67	17.50				
5	256QAM	25	0	17.58	17.52	17.44				

Band 41 Ant 1 DSI6										
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)										
4050	4050	4050	4050	4050	4050	4050				
30	QPSK	1	0	21.28	21.41	21.42				
30	QPSK	1	49	21.26	21.29	21.35	22.6	0		
30	QPSK	1	99	21.26	21.28	21.30				
30	QPSK	50	0	21.31	21.33	21.40				
30	QPSK	50	24	21.16	21.18	21.27	22.6	0		
30	QPSK	50	49	21.22	21.22	21.30				
30	QPSK	100	0	21.34	21.29	21.36				
30	16QAM	1	0	21.31	21.34	21.41	22.6	0		
30	16QAM	1	49	21.22	21.15	21.29				
30	16QAM	1	99	21.19	21.18	21.25				
30	16QAM	50	0	20.91	20.74	20.94				
30	16QAM	50	24	20.75	20.71	20.81	22	0.6		
30	16QAM	50	49	20.74	20.61	20.67				
30	64QAM	100	0	20.74	20.55	20.55				
30	64QAM	1	49	20.62	20.55	20.76	22	0.6		
30	64QAM	1	99	20.53	20.52	20.75				
30	64QAM	50	0	19.57	19.65	19.85				
30	64QAM	50	24	19.62	19.77	19.97	21	1.6		
30	64QAM	50	49	19.61	19.75	19.77				
30	64QAM	100	0	19.74	19.69	19.76				
30	256QAM	1	0	17.91	17.82	17.86				
30	256QAM	1	49	17.75	17.73	17.68	19	3.6		
30	256QAM	1	99	17.67	17.76	17.82				
30	256QAM	50	0	17.86	17.82	17.79				
30	256QAM	50	24	17.77	17.69	17.84	19	3.6		
30	256QAM	50	49	17.50	17.62	17.78				
30	256QAM	100	0	17.48	17.48	17.50				
Channel										
Frequency (MHz)										
4050	4050	4050	4050	4050	4050	4050				
15	QPSK	1	0	21.25	21.42	21.42				
15	QPSK	1	37	21.21	21.17	21.23	22.6	0		



Band 38 Ant 4 DSI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				38750	39000	38150			
20	QPSK	1	0	21.13	21.07	21.11			
20	QPSK	1	49	20.35	21.10	21.07	22.3	0	
20	QPSK	50	24	20.35	21.00	20.97			
20	QPSK	50	0	21.05	21.15	20.98			
20	QPSK	50	24	20.83	20.92	20.96	22.3	0	
20	QPSK	100	0	21.03	21.04	20.99			
20	16QAM	1	0	21.03	21.07	20.98	22.3	0	
20	16QAM	1	49	20.82	20.97	21.02			
20	16QAM	1	99	20.85	21.04	20.86			
20	16QAM	50	0	20.76	20.83	20.71			0.3
20	16QAM	50	24	20.65	20.85	20.65			
20	16QAM	50	50	20.80	20.85	20.48	22	0.3	
20	16QAM	100	0	20.73	20.84	20.76			
20	16QAM	100	0	20.64	20.75	20.74			
20	16QAM	1	49	20.43	20.79	20.48	22	0.3	
20	16QAM	1	99	20.59	20.87	20.48			
20	16QAM	50	0	19.73	19.84	19.76			
20	16QAM	50	24	19.84	19.80	19.87	21	1.3	
20	16QAM	50	50	19.76	19.83	19.59			
20	16QAM	100	0	19.81	19.77	19.72			
20	25QAM	1	0	17.87	17.86	17.80			
20	25QAM	1	49	17.92	17.75	17.82	19	3.3	
20	25QAM	1	99	17.71	17.86	17.49			
20	25QAM	50	0	17.67	17.83	17.77			
20	25QAM	50	24	17.61	17.78	17.69	19	3.3	
20	25QAM	50	50	17.58	17.85	17.40			
20	25QAM	100	0	17.71	17.83	17.48			
Channel									
Frequency (MHz)				31923	32000	32175	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	21.07	21.08	21.03			
15	QPSK	1	37	20.82	21.06	21.03	22.3	0	
15	QPSK	1	74	20.77	20.96	20.87			
15	QPSK	36	0	20.99	21.12	20.83			
15	QPSK	36	20	20.80	20.86	20.86	22.3	0	
15	QPSK	36	36	20.80	20.86	20.86			
15	QPSK	75	0	20.90	20.97	20.93			
15	16QAM	1	0	20.94	20.96	20.89	22.3	0	
15	16QAM	1	37	20.77	20.92	20.88			
15	16QAM	1	74	20.82	20.89	20.71			
15	16QAM	36	0	20.71	20.74	20.68	22	0.3	
15	16QAM	36	20	20.47	20.87	20.44			
15	16QAM	36	36	20.72	20.47	20.41			
15	16QAM	75	0	20.58	20.63	20.50			
15	16QAM	75	0	20.44	20.99	20.57			
15	16QAM	1	37	20.32	20.81	20.41	22	0.3	
15	16QAM	1	74	20.84	20.58	20.51			
15	16QAM	36	0	19.83	19.71	19.66	21	1.3	
15	16QAM	36	20	19.49	19.80	19.53			
15	16QAM	36	36	19.73	19.48	19.42			
15	16QAM	75	0	19.87	19.88	19.58			
15	25QAM	1	0	17.50	17.87	17.71	19	3.3	
15	25QAM	1	37	17.52	17.83	17.66			
15	25QAM	1	74	17.52	17.48	17.41			
15	25QAM	36	0	17.83	17.80	17.88	19	3.3	
15	25QAM	36	20	17.46	17.71	17.64			
15	25QAM	36	36	17.40	17.48	17.38			
15	25QAM	75	0	17.81	17.42	17.68			
Channel									
Frequency (MHz)				2573	2595	2615	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	21.06	21.09	21.09	22.3	0	
10	QPSK	1	25	20.99	21.05	20.96			
10	QPSK	1	49	20.89	20.95	20.88			
10	QPSK	12	0	20.87	20.94	20.83	22.3	0	
10	QPSK	25	12	20.71	20.87	20.84			
10	QPSK	25	25	20.87	20.96	20.80			
10	16QAM	1	0	20.98	21.02	20.89	22.3	0	
10	16QAM	1	25	20.77	20.88	20.92			
10	16QAM	1	49	20.72	21.01	20.79			
10	16QAM	25	0	20.56	20.83	20.66	22	0.3	
10	16QAM	25	12	20.45	20.70	20.44			
10	16QAM	25	25	20.65	20.95	20.43			
10	16QAM	50	0	20.84	20.88	20.86	22	0.3	
10	16QAM	50	0	20.44	20.83	20.53			
10	16QAM	1	25	20.24	20.81	20.43	22	0.3	
10	16QAM	1	49	20.49	20.49	20.20			
10	16QAM	25	0	19.69	19.65	19.68	21	1.3	
10	16QAM	25	12	19.59	19.73	19.50			
10	16QAM	25	25	19.83	19.59	19.49			
10	16QAM	50	0	19.71	19.87	19.87			
10	25QAM	1	0	17.49	17.87	17.68	19	3.3	
10	25QAM	1	25	17.35	17.84	17.44			
10	25QAM	1	49	17.65	17.55	17.45			
10	25QAM	12	0	17.56	17.77	17.73	19	3.3	
10	25QAM	12	12	17.56	17.83	17.45			
10	25QAM	25	0	17.45	17.56	17.35			
10	25QAM	50	0	17.83	17.48	17.31			
Channel									
Frequency (MHz)				2572.5	2595.5	2617.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	20.99	21.06	20.96	22.3	0	
5	QPSK	1	19	20.81	21.03	20.93			
5	QPSK	1	24	20.82	20.99	20.84			
5	QPSK	12	0	21.00	21.09	20.92	22.3	0	
5	QPSK	12	7	20.74	20.85	20.89			
5	QPSK	12	19	20.89	21.01	20.89			
5	QPSK	25	0	20.96	20.99	20.88	22.3	0	
5	QPSK	25	0	20.91	21.02	20.94			
5	16QAM	1	12	20.70	20.81	20.98	22.3	0	
5	16QAM	1	24	20.78	20.90	20.76			
5	16QAM	12	0	20.89	20.79	20.88			
5	16QAM	12	7	20.49	20.87	20.52	22	0.3	
5	16QAM	12	13	20.66	20.47	20.31			
5	16QAM	25	0	20.83	20.71	20.84			
5	16QAM	1	0	20.87	20.82	20.88	22	0.3	
5	16QAM	1	12	20.36	20.93	20.49			
5	16QAM	1	24	20.46	20.38	20.27			
5	16QAM	12	0	19.59	19.65	19.69	21	1.3	
5	16QAM	12	13	19.43	19.74	19.49			
5	16QAM	25	0	19.69	19.60	19.63			
5	16QAM	1	0	17.57	17.78	17.70	19	3.3	
5	25QAM	1	12	17.57	17.83	17.56			
5	25QAM	1	24	17.61	17.46	17.35			
5	25QAM	12	0	17.71	17.71	17.86	19	3.3	
5	25QAM	12	7	17.57	17.80	17.48			
5	25QAM	12	13	17.51	17.82	17.32			
5	25QAM	25	0	17.58	17.38	17.39			

Band 41 Ant 4 DSI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				39750	40185	40620	41055	41490	
20	QPSK	1	0	21.22	21.04	21.09	21.15	21.10	21.16
20	QPSK	1	49	21.09	21.04	21.18	21.10	21.10	21.06
20	QPSK	1	99	21.16	21.04	21.06	21.00	21.00	21.03
20	QPSK	50	0	21.17	21.00	21.10	21.11	21.13	
20	QPSK	50	24	21.03	20.96	21.06	20.99	20.92	20.92
20	QPSK	100	0	21.08	21.13	21.03	21.03	21.07	
20	QPSK	100	0	21.16	21.13	21.17	21.12	21.04	
20	16QAM	1	0	21.08	21.10	21.19	21.09	21.08	21.08
20	16QAM	1	49	20.95	20.98	21.06	21.07	20.94	21.03
20	16QAM	1	99	21.05	20.95	21.15	21.00	20.89	
20	16QAM	50	0	20.84	20.43	20.81	20.50	20.54	
20	16QAM	50	24	20.83	20.39	20.42	20.50	20.52	
20	16QAM	50	50	20.42	20.67	20.54	20.43	20.53	22
20	16QAM	100	0	20.81	20.92	20.87	20.53	20.62	
20	16QAM	100	0	20.45	20.32	20.25	20.38	20.45	
20	16QAM	1	49	20.53	20.29	20.31	20.32	20.30	22
20	16QAM	1	99	20.27	20.30	20.58	20.36	20.35	
20	16QAM	50	0	19.57	19.47	19.83	19.50	19.50	
20	16QAM	50	24	19.32	19.30	19.50	19.59	19.35	21
20	16QAM	50	50	19.63	19.50	19.52	19.36	19.34	1.3
20	16QAM	100	0	19.60	19.54	19.60	19.58	19.44	
20	25QAM	1	0	17.82	17.45	17.56	17.60	17.83	
20	25QAM	1	49	17.43	17.38	17.41	17.49	17.38	19
20	25QAM	1	99	17.45	17.56	17.57	17.50	17.42	3.3
20	25QAM	50	0	17.67	17.48	17.60	17.52	17.48	
20	25QAM	50	24	17.53	17.20	17.48	17.31	17.51	19
20	25QAM	50	50	17.17	17.23	17.24	17.30	17.19	3.3
20	25QAM	100	0	17.34	17.37	17.33	17.48	17.38	
Channel									
Frequency (MHz)				39750	40173	40620	41055	41490	Tune-up limit (dBm) MPR (dB)
16	QPSK	1	0	21.03	21.03	21.03	21.17	21.02	
16	QPSK	1	37	21.02	20.98	21.10	21.03	20.97	22.3
16	QPSK	1	74	21.05	20.95	21.10	21.02	20.97	0
16	QPSK	36	0	21.10	21.09	21.09	21.06	21.06	
16	QPSK	36							



Band 42 Ant 5 DSI6

Bit (Hz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				42190	42990	42990				
Frequency (MHz)				3440	3660	3440				
20	QPSK	1	0	21.70	21.74	21.74	22.7	0		
20	QPSK	1	49	21.59	21.74	21.70				
20	QPSK	1	99	21.68	21.70	21.66				
20	QPSK	50	0	21.30	21.42	21.40	22.7	0		
20	QPSK	50	24	21.48	21.27	21.24				
20	QPSK	50	60	21.11	21.31	21.15				
20	HQAM	1	0	21.23	21.30	21.27	22.7	0		
20	HQAM	1	49	21.20	21.26	21.11				
20	HQAM	1	99	21.13	21.09	21.17				
20	HQAM	50	0	20.76	20.86	20.83	22	0.7		
20	HQAM	50	24	20.73	20.85	20.83				
20	HQAM	50	50	20.59	20.87	20.81				
20	HQAM	100	0	20.55	20.72	20.77	22	0.7		
20	HQAM	100	0	20.55	20.75	20.52				
20	HQAM	100	49	20.88	20.66	20.74				
20	HQAM	1	99	20.41	20.62	20.74	21	1.7		
20	HQAM	50	0	19.84	19.84	19.93				
20	HQAM	50	24	19.73	19.71	19.71				
20	HQAM	50	50	19.65	19.73	19.67	19	3.7		
20	HQAM	100	0	19.70	19.79	19.81				
20	HQAM	100	0	17.79	17.86	17.91				
20	SRSSAM	1	49	17.65	17.63	17.72	19	3.7		
20	SRSSAM	1	99	17.66	17.86	17.63				
20	SRSSAM	50	0	17.79	17.77	17.72				
20	SRSSAM	50	24	17.63	17.77	17.66	19	3.7		
20	SRSSAM	50	50	17.89	17.65	17.71				
20	SRSSAM	100	0	17.43	17.65	17.48				
Channel				42195	42990	43015				
Frequency (MHz)				3457.5	3503	3424.7				
15	QPSK	1	0	21.09	21.24	21.21	22.7	0		
15	QPSK	1	37	21.45	21.60	21.64				
15	QPSK	1	74	21.51	21.62	21.60				
15	QPSK	36	0	21.03	21.28	21.32	22.7	0		
15	QPSK	36	20	21.18	21.15	21.13				
15	QPSK	36	39	21.02	21.18	21.08				
15	HQAM	1	0	21.15	21.07	20.92	22.7	0		
15	HQAM	1	37	20.98	20.81	20.97				
15	HQAM	1	74	20.97	21.04	20.94				
15	HQAM	36	0	20.66	20.81	20.84	22	0.7		
15	HQAM	36	39	20.55	20.77	20.85				
15	HQAM	36	39	20.41	20.80	20.48				
15	HQAM	75	0	20.55	20.63	20.36	22	0.7		
15	HQAM	1	0	20.48	20.70	20.41				
15	HQAM	1	37	20.34	20.58	20.68				
15	HQAM	1	74	20.36	20.34	20.49	21	1.7		
15	HQAM	36	0	19.66	19.72	19.77				
15	HQAM	36	20	19.70	19.69	19.54				
15	HQAM	36	39	19.54	19.65	19.52	19	3.7		
15	HQAM	75	0	19.50	19.53	19.03				
15	SRSSAM	1	0	17.59	17.89	17.79				
15	SRSSAM	1	37	17.72	17.85	17.54	19	3.7		
15	SRSSAM	1	74	17.67	17.67	17.48				
15	SRSSAM	36	0	17.63	17.74	17.55				
15	SRSSAM	36	20	17.42	17.70	17.52	19	3.7		
15	SRSSAM	36	39	17.61	17.46	17.62				
15	SRSSAM	75	0	17.35	17.36	17.86				
Channel				42190	42990	43015				
Frequency (MHz)				3455	3503	3445				
10	QPSK	1	0	21.69	21.74	21.66	22.7	0		
10	QPSK	1	25	21.49	21.62	21.62				
10	QPSK	1	49	21.44	21.63	21.54				
10	QPSK	12	0	21.25	21.28	21.19	22.7	0		
10	QPSK	25	12	21.11	21.19	21.11				
10	QPSK	25	25	21.01	21.11	21.01				
10	HQAM	1	0	21.12	21.15	21.23	22.7	0		
10	HQAM	1	0	21.04	21.23	20.98				
10	HQAM	1	25	20.93	20.82	21.04				
10	HQAM	1	49	20.97	20.97	20.86	22	0.7		
10	HQAM	25	0	20.67	20.69	20.79				
10	HQAM	25	12	20.66	20.73	20.69				
10	HQAM	25	25	20.57	20.73	20.43	22	0.7		
10	HQAM	50	0	20.49	20.54	20.67				
10	HQAM	50	0	20.52	20.66	20.46				
10	HQAM	1	25	20.50	20.58	20.84	22	0.7		
10	HQAM	1	49	20.35	20.50	20.37				
10	HQAM	25	0	19.71	19.74	19.79				
10	HQAM	25	12	19.61	19.68	19.57	21	1.7		
10	HQAM	25	25	19.48	19.65	19.48				
10	HQAM	50	0	19.65	19.61	19.78				
10	SRSSAM	1	0	17.67	17.80	17.72	19	3.7		
10	SRSSAM	1	25	17.60	17.62	17.84				
10	SRSSAM	49	0	17.64	17.75	17.55				
10	SRSSAM	25	0	17.63	17.69	17.65	19	3.7		
10	SRSSAM	25	13	17.62	17.69	17.46				
10	SRSSAM	25	25	17.59	17.45	17.57				
10	SRSSAM	50	0	17.35	17.33	17.38	19	3.7		
Channel				42195	42990	43015				
Frequency (MHz)				3452.5	3503	3447.5				
5	QPSK	1	0	21.55	21.66	21.69	22.7	0		
5	QPSK	1	15	21.52	21.60	21.57				
5	QPSK	1	24	21.44	21.64	21.60				
5	QPSK	12	0	21.11	21.22	21.31	22.7	0		
5	QPSK	12	7	21.16	21.19	21.05				
5	QPSK	12	13	20.92	21.17	20.96				
5	HQAM	1	0	21.03	21.24	21.14	22.7	0		
5	HQAM	1	12	21.14	21.20	20.95				
5	HQAM	1	12	21.08	20.99	21.08				
5	HQAM	1	24	20.88	21.03	20.98	22	0.7		
5	HQAM	12	0	20.58	20.73	20.67				
5	HQAM	12	7	20.55	20.63	20.77				
5	HQAM	12	13	20.47	20.60	20.51	22	0.7		
5	HQAM	25	0	20.55	20.63	20.64				
5	HQAM	1	0	20.54	20.62	20.36				
5	HQAM	1	12	20.52	20.50	20.70	22	0.7		
5	HQAM	1	24	20.21	20.54	20.36				
5	HQAM	12	0	19.74	19.82	19.89				
5	HQAM	12	7	19.51	19.63	19.55	21	1.7		
5	HQAM	12	13	19.46	19.55	19.50				
5	HQAM	25	0	19.49	19.61	19.75				
5	SRSSAM	1	0	17.70	17.85	17.87	19	3.7		
5	SRSSAM	1	12	17.69	17.66	17.62				
5	SRSSAM	1	24	17.63	17.73	17.44				
5	SRSSAM	12	0	17.63	17.66	17.59	19	3.7		
5	SRSSAM	12	7	17.54	17.60	17.53				
5	SRSSAM	12	13	17.63	17.61	17.66				
5	SRSSAM	25	0	17.24	17.29	17.30	19	3.7		



Band 2 Ant 0 DS17

BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (dBm)	Power (dBm)	Turn-up (min)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	16.33	16.45	16.37	17.7	0
20	QPSK	1	49	16.33	16.29	16.33	17.7	0
20	QPSK	1	98	16.33	16.29	16.27	17.7	0
20	QPSK	50	0	16.30	16.32	16.24	17.7	0
20	QPSK	50	24	16.30	16.27	16.31	17.7	0
20	QPSK	50	48	16.30	16.22	16.12	17.7	0
20	QPSK	100	0	16.27	16.28	16.24	17.7	0
20	QPSK	100	24	16.30	16.29	16.24	17.7	0
20	QPSK	100	48	16.13	16.32	16.05	17.7	0
20	16QAM	1	0	16.24	16.29	16.14	17.7	0
20	16QAM	1	49	16.24	16.25	16.11	17.7	0
20	16QAM	50	24	16.24	16.17	16.36	17.7	0
20	16QAM	50	48	16.24	16.17	16.02	17.7	0
20	16QAM	100	0	16.25	16.40	16.17	17.7	0
20	16QAM	100	24	16.14	16.35	16.12	17.7	0
20	16QAM	100	48	16.16	16.25	16.19	17.7	0
20	16QAM	150	0	16.25	16.40	16.17	17.7	0
20	16QAM	150	24	16.04	16.24	16.03	17.7	0
20	16QAM	150	48	16.25	16.16	16.16	17.7	0
20	25QAM	1	0	16.20	16.20	16.09	17.7	0
20	25QAM	1	49	16.20	16.20	16.09	17.7	0
20	25QAM	50	24	16.19	16.32	16.20	17.7	0
20	25QAM	50	48	16.19	16.20	16.13	17.7	0
20	25QAM	100	0	16.09	16.24	16.03	17.7	0
20	25QAM	100	24	16.09	16.08	16.04	17.7	0
20	25QAM	100	48	16.27	16.09	16.12	17.7	0
Channel								
Frequency (MHz)								
15	QPSK	1	0	16.28	16.32	16.28	17.7	0
15	QPSK	1	49	16.28	16.32	16.28	17.7	0
15	QPSK	1	98	16.28	16.24	16.20	17.7	0
15	QPSK	36	0	16.20	16.25	16.14	17.7	0
15	QPSK	36	24	16.13	16.15	16.09	17.7	0
15	QPSK	36	48	16.25	16.09	16.07	17.7	0
15	QPSK	75	0	16.16	16.24	16.19	17.7	0
15	QPSK	75	24	16.24	16.28	16.28	17.7	0
15	16QAM	1	0	16.10	16.20	16.09	17.7	0
15	16QAM	1	49	16.10	16.20	16.05	17.7	0
15	16QAM	36	24	16.00	16.13	16.05	17.7	0
15	16QAM	36	48	16.00	16.13	16.05	17.7	0
15	16QAM	75	0	16.01	16.03	16.07	17.7	0
15	16QAM	75	24	16.21	16.26	16.02	17.7	0
15	16QAM	75	48	16.02	16.02	16.02	17.7	0
15	16QAM	150	0	16.02	16.10	16.15	17.7	0
15	16QAM	150	24	16.09	16.07	16.03	17.7	0
15	16QAM	150	48	16.04	16.11	16.05	17.7	0
15	16QAM	36	0	16.09	16.07	16.03	17.7	0
15	16QAM	36	24	16.09	16.07	16.03	17.7	0
15	16QAM	36	48	16.04	16.11	16.05	17.7	0
15	16QAM	75	0	16.04	16.11	16.05	17.7	0
15	16QAM	75	24	16.04	16.11	16.05	17.7	0
15	16QAM	75	48	16.04	16.11	16.05	17.7	0
15	25QAM	1	0	16.11	16.10	16.02	17.7	0
15	25QAM	1	49	16.14	16.26	16.13	17.7	0
15	25QAM	36	24	16.02	16.06	16.06	17.7	0
15	25QAM	36	48	16.02	16.01	16.01	17.7	0
15	25QAM	75	0	16.09	16.09	16.03	17.7	0
15	25QAM	75	24	16.13	16.07	16.03	17.7	0
Channel								
Frequency (MHz)								
10	QPSK	1	0	16.22	16.22	16.22	17.7	0
10	QPSK	1	25	16.12	16.27	16.08	17.7	0
10	QPSK	1	49	16.24	16.18	16.19	17.7	0
10	QPSK	12	0	16.20	16.20	16.09	17.7	0
10	QPSK	25	12	16.03	16.12	16.07	17.7	0
10	QPSK	25	25	16.05	16.13	16.06	17.7	0
10	QPSK	25	48	16.05	16.12	16.04	17.7	0
10	16QAM	1	0	16.16	16.26	16.15	17.7	0
10	16QAM	1	25	16.06	16.28	16.05	17.7	0
10	16QAM	12	0	16.03	16.03	16.06	17.7	0
10	16QAM	12	12	16.03	16.03	16.02	17.7	0
10	16QAM	25	0	16.01	16.08	16.06	17.7	0
10	16QAM	25	12	16.03	16.03	16.02	17.7	0
10	16QAM	25	25	16.05	16.01	16.01	17.7	0
10	16QAM	25	48	16.02	16.03	16.02	17.7	0
10	16QAM	50	0	16.02	16.03	16.06	17.7	0
10	16QAM	50	12	16.03	16.03	16.02	17.7	0
10	16QAM	50	25	16.05	16.01	16.01	17.7	0
10	16QAM	50	48	16.02	16.03	16.02	17.7	0
10	25QAM	1	0	16.07	16.07	16.04	17.7	0
10	25QAM	1	49	16.07	16.22	16.15	17.7	0
10	25QAM	12	0	16.05	16.05	16.06	17.7	0
10	25QAM	12	12	16.05	16.12	16.05	17.7	0
10	25QAM	25	0	16.07	16.12	16.05	17.7	0
10	25QAM	25	12	16.07	16.09	16.03	17.7	0
10	25QAM	25	25	16.09	16.09	16.03	17.7	0
10	25QAM	25	48	16.18	16.11	16.03	17.7	0
Channel								
Frequency (MHz)								
5	QPSK	1	0	16.22	16.22	16.22	17.7	0
5	QPSK	1	25	16.12	16.27	16.08	17.7	0
5	QPSK	1	49	16.24	16.18	16.19	17.7	0
5	QPSK	12	0	16.20	16.20	16.09	17.7	0
5	QPSK	25	12	16.03	16.12	16.07	17.7	0
5	QPSK	25	25	16.05	16.13	16.06	17.7	0
5	QPSK	25	48	16.05	16.12	16.04	17.7	0
5	16QAM	1	0	16.16	16.26	16.15	17.7	0
5	16QAM	1	25	16.06	16.28	16.05	17.7	0
5	16QAM	12	0	16.03	16.03	16.06	17.7	0
5	16QAM	12	12	16.03	16.03	16.02	17.7	0
5	16QAM	25	0	16.01	16.08	16.06	17.7	0
5	16QAM	25	12	16.03	16.03	16.02	17.7	0
5	16QAM	25	25	16.05	16.01	16.01	17.7	0
5	16QAM	25	48	16.02	16.03	16.02	17.7	0
5	16QAM	50	0	16.02	16.03	16.06	17.7	0
5	16QAM	50	12	16.03	16.03	16.02	17.7	0
5	16QAM	50	25	16.05	16.01	16.01	17.7	0
5	16QAM	50	48	16.02	16.03	16.02	17.7	0
5	25QAM	1	0	16.07	16.07	16.04	17.7	0
5	25QAM	1	49	16.07	16.22	16.15	17.7	0
5	25QAM	12	0	16.05	16.05	16.06	17.7	0
5	25QAM	12	12	16.05	16.12	16.05	17.7	0
5	25QAM	25	0	16.07	16.12	16.05	17.7	0
5	25QAM	25	12	16.07	16.09	16.03	17.7	0
5	25QAM	25	25	16.09	16.09	16.03	17.7	0
5	25QAM	25	48	16.18	16.11	16.03	17.7	0
Channel								
Frequency (MHz)								
3	QPSK	1	0	16.22	16.22	16.22	17.7	0
3	QPSK	1	25	16.12	16.27	16.08	17.7	0
3	QPSK	1	49	16.24	16.18	16.19	17.7	0
3	QPSK	12	0	16.20	16.20	16.09	17.7	0
3	QPSK	25	12	16.03	16.12	16.07	17.7	0
3	QPSK	25	25	16.05	16.13	16.06	17.7	0
3	QPSK	25	48	16.05	16.12	16.04	17.7	0
3	16QAM	1	0	16.16	16.26	16.15	17.7	0
3	16QAM	1	25	16.06	16.28	16.05	17.7	0
3	16QAM	12	0	16.03	16.03	16.06	17.7	0
3	16QAM	12	12	16.03	16.03	16.02	17.7	0
3	16QAM	25	0	16.01	16.08	16.06	17.7	0
3	16QAM	25	12	16.03	16.03	16.02	17.7	0
3	16QAM	25	25	16.05	16.01	16.01	17.7	0
3	16QAM	25	48	16.02	16.03	16.02	17.7	0
3	16QAM	50	0	16.02	16.03	16.06	17.7	0
3	16QAM	50	12	16.03	16.03	16.02	17.7	0
3	16QAM	50	25	16.05	16.01	16.01	17.7	0
3	16QAM	50	48	16.02	16.03	16.02	17.7	0
3	25QAM	1	0	16.07	16.07	16.04	17.7	0
3	25QAM	1	49	16.07	16.22	16.15	17.7	0
3	25QAM	12	0	16.05	16.05	16.06	17.7	0
3	25QAM	12	12	16.05	16.12	16.05	17.7	0
3	25QAM	25	0	16.07	16.12	16.05	17.7	0
3	25QAM	25	12	16.07	16.09	16.03	17.7	0
3	25QAM	25	25	16.09	16.09	16.03	17.7	0
3	25QAM	25	48	16.18	16.11	16.03	17.7	0
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	16.22	16.22	16.22	17.7	0
1.4	QPSK	1	3	16.11	16.26	16.09	17.7	0
1.4	QPSK	1	14	16.27	16.25	16.21	17.7	0
1.4	QPSK	3	0	16.22	16.23	16.17	17.7	0
1.4	QPSK	3	4	16.22	16.16	16.20	17.7	0
1.4	QPSK	3	7	16.11	16.08	16.03	17.7	0
1.4	QPSK	3	10	16.18	16.21	16.13	17.7	0
1.4	16QAM	1	0	16.19	16.28	16.14	17.7	0
1.4	16QAM	1	16	16.09	16.18	16.20	17.7	0
1.4	16QAM	3	0	16.08	16.19	16.10	17.7	0
1.4	16QAM	3	4	16.01	16.07	16.08	17.7	0
1.4	16QAM	3	7	16.09	16.11	16.09	17.7	0
1.4	16QAM	3	10	16.08	16.18	16.09	17.7	0
1.4	16QAM	15	0	16.01	16.07	16.08	17.7	0
1.4	16QAM	15	3	16.02	16.10	16.16	17.7	0



Band 13 Ant 0 DS17										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up Int. (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.87	22.87	22.87			24	0
10	QPSK	1	25	22.87	22.87	22.87				
10	QPSK	1	49	23.78	23.78	23.78				
10	QPSK	25	0	21.80	21.80	21.80			23	1
10	QPSK	25	25	21.87	21.87	21.87				
10	QPSK	25	50	21.89	21.89	21.89				
10	QPSK	50	0	21.88	21.88	21.88				
10	QPSK	50	25	21.93	21.93	21.93				
10	16QAM	1	25	21.91	21.91	21.91			23	1
10	16QAM	1	49	21.82	21.82	21.82				
10	16QAM	1	73	20.93	20.93	20.93				
10	16QAM	25	12	20.98	20.98	20.98			22	2
10	16QAM	25	37	20.97	20.97	20.97				
10	16QAM	25	62	20.77	20.77	20.77				
10	16QAM	50	0	20.98	20.98	20.98				
10	16QAM	50	25	20.91	20.91	20.91				
10	16QAM	1	25	20.83	20.83	20.83			22	2
10	16QAM	1	49	20.53	20.53	20.53				
10	16QAM	25	0	19.85	19.85	19.85			21	3
10	16QAM	25	25	19.85	19.85	19.85				
10	16QAM	25	50	19.82	19.82	19.82				
10	16QAM	50	0	19.82	19.82	19.82				
10	256QAM	1	25	17.83	17.83	17.83			19	5
10	256QAM	1	49	17.76	17.76	17.76				
10	256QAM	25	0	17.88	17.88	17.88				
10	256QAM	25	25	17.77	17.77	17.77			19	5
10	256QAM	50	0	17.45	17.45	17.45				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.89	22.74	22.72			24	0
5	QPSK	1	24	22.89	22.74	22.72				
5	QPSK	12	0	21.72	21.53	21.84				
5	QPSK	12	7	21.76	21.64	21.73			23	1
5	QPSK	12	13	21.85	21.51	21.54				
5	QPSK	25	0	21.89	21.78	21.70				
5	16QAM	1	25	21.70	21.68	21.68			23	1
5	16QAM	1	49	21.83	21.59	21.59				
5	16QAM	12	0	20.84	20.72	20.71				
5	16QAM	12	7	20.88	20.68	20.78			22	2
5	16QAM	12	13	20.96	20.62	20.62				
5	16QAM	25	0	20.82	20.81	20.79				
5	16QAM	1	0	20.70	20.72	20.87			22	2
5	16QAM	1	24	20.70	20.72	20.79				
5	16QAM	12	0	19.70	19.79	19.70				
5	16QAM	12	7	19.86	19.83	19.79			21	3
5	16QAM	12	13	19.52	19.55	19.49				
5	16QAM	25	0	19.71	19.64	19.68				
5	256QAM	1	0	17.62	17.64	17.65			19	5
5	256QAM	1	24	17.74	17.71	17.77				
5	256QAM	12	0	17.52	17.59	17.59				
5	256QAM	12	7	17.54	17.56	17.54				
5	256QAM	12	13	17.73	17.71	17.70			19	5
5	256QAM	25	0	17.84	17.68	17.84				
5	256QAM	25	0	17.38	17.40	17.25				

Band 17 Ant 0 DS17										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up Int. (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.73	22.76	22.70			24	0
10	QPSK	1	25	22.62	22.67	22.69				
10	QPSK	1	49	22.67	22.61	22.69				
10	QPSK	25	0	21.76	21.87	21.73			23	1
10	QPSK	25	25	21.71	21.67	21.64				
10	QPSK	50	0	21.70	21.76	21.61				
10	QPSK	50	25	21.59	21.70	21.54				
10	16QAM	1	25	21.81	21.49	21.53			23	1
10	16QAM	1	49	21.59	21.54	21.51				
10	16QAM	1	73	20.79	20.96	20.94				
10	16QAM	25	12	20.89	20.75	20.72			22	2
10	16QAM	25	37	20.75	20.84	20.70				
10	16QAM	25	62	20.62	20.83	20.69				
10	16QAM	50	0	20.56	20.70	20.61				
10	16QAM	1	25	20.83	20.43	20.38			22	2
10	16QAM	1	49	20.64	20.50	20.55				
10	16QAM	25	0	19.78	19.83	19.78				
10	16QAM	25	25	19.72	19.70	19.74			21	3
10	16QAM	25	50	19.75	19.58	19.50				
10	256QAM	1	25	17.71	17.68	17.76			19	5
10	256QAM	1	49	17.77	17.72	17.70				
10	256QAM	25	0	17.53	17.54	17.53			19	5
10	256QAM	25	25	17.58	17.57	17.57				
10	256QAM	50	0	17.61	17.63	17.59				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.60	22.57	22.58			24	0
5	QPSK	1	12	22.61	22.62	22.59				
5	QPSK	1	24	22.60	22.57	22.62				
5	QPSK	12	0	21.62	21.52	21.58				
5	QPSK	12	7	21.68	21.60	21.63			23	1
5	QPSK	12	13	21.62	21.58	21.47				
5	QPSK	25	0	21.86	21.52	21.59				
5	16QAM	1	25	21.81	21.52	21.48			23	1
5	16QAM	1	49	21.48	21.39	21.49				
5	16QAM	12	0	20.86	20.84	20.83				
5	16QAM	12	7	20.89	20.62	20.60			22	2
5	16QAM	12	13	20.90	20.62	20.62				
5	16QAM	25	0	20.43	20.62	20.48				
5	16QAM	1	0	20.40	20.52	20.42			22	2
5	16QAM	1	24	20.52	20.40	20.35				
5	16QAM	12	0	19.59	19.77	19.67				
5	16QAM	12	7	19.64	19.57	19.69			21	3
5	16QAM	12	13	19.40	19.48	19.45				
5	16QAM	25	0	19.64	19.46	19.43				
5	256QAM	1	0	17.53	17.58	17.61			19	5
5	256QAM	1	24	17.61	17.54	17.55				
5	256QAM	12	0	17.44	17.61	17.38				
5	256QAM	12	7	17.56	17.61	17.34				
5	256QAM	12	13	17.41	17.57	17.37			19	5
5	256QAM	25	0	17.44	17.57	17.41				
5	256QAM	25	0	17.54	17.54	17.41				

Band 25 Ant 0 DS17										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up Int. (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	16.46	16.50	16.42			17.7	0
20	QPSK	1	25	16.47	16.47	16.47				
20	QPSK	1	49	16.46	16.42	16.38				
20	QPSK	50	0	16.37	16.41	16.28			17.7	0
20	QPSK	50	24	16.37	16.36	16.21				
20	QPSK	50	50	16.27	16.36	16.21				
20	QPSK	100	0	16.32	16.38	16.25				
20	QPSK	100	0	16.39	16.41	16.31				
20	16QAM	1	49	16.21	16.39	16.22			17.7	0
20	16QAM	1	99	16.34	16.38	16.23				
20	16QAM	50	0	16.28	16.36	16.25				
20	16QAM	50	24	16.28	16.36	16.21			17.7	0
20	16QAM	50	49	16.26	16.25	16.21				
20	16QAM	100	0	16.36	16.44	16.29				
20	16QAM	1	49	16.27	16.40	16.16			17.7	0
20	16QAM	1	99	16.29	16.29	16.20				
20	16QAM	50	0	16.31	16.30	16.19				
20	16QAM	50	24	16.14	16.33	16.07			17.7	0
20	16QAM	50	49	16.29	16.25	16.30				
20	16QAM	100	0	16.18	16.24	16.28				
20	256QAM	1	49	16.24	16.42	16.13				



Band 66 Ant 0 DSI7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dB)	APR (dB)
Channel								
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	15.69	15.75	15.75		
20	QPSK	1	49	15.69	15.69	15.62	17	0
20	QPSK	1	99	15.61	15.65	15.68		
20	QPSK	50	0	15.66	15.68	15.66		
20	QPSK	50	24	15.62	15.65	15.65	17	0
20	QPSK	50	50	15.62	15.62	15.60		
20	QPSK	100	0	15.59	15.63	15.61		
20	HQAM	1	0	15.68	15.67	15.63		
20	HQAM	1	49	15.48	15.57	15.59	17	0
20	HQAM	1	99	15.58	15.62	15.58		
20	HQAM	50	0	15.62	15.68	15.59		
20	HQAM	50	24	15.48	15.52	15.55	17	0
20	HQAM	50	50	15.45	15.59	15.52		
20	HQAM	100	0	15.53	15.54	15.57		
20	HQAM	1	0	15.62	15.70	15.67		
20	HQAM	1	49	15.51	15.62	15.61	17	0
20	HQAM	1	99	15.59	15.65	15.58		
20	HQAM	50	0	15.61	15.64	15.55		
20	HQAM	50	24	15.48	15.53	15.50	17	0
20	HQAM	50	50	15.43	15.56	15.50		
20	HQAM	100	0	15.54	15.62	15.58		
20	256QAM	1	0	15.66	15.67	15.68		
20	256QAM	1	49	15.54	15.68	15.58	17	0
20	256QAM	1	99	15.63	15.55	15.62		
20	256QAM	50	0	15.65	15.61	15.55		
20	256QAM	50	24	15.49	15.44	15.45	17	0
20	256QAM	50	50	15.45	15.48	15.58		
20	256QAM	100	0	15.55	15.51	15.59		
Channel				13247	13232	13259		APR
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	15.59	15.68	15.63		
15	QPSK	1	37	15.61	15.58	15.67	17	0
15	QPSK	1	74	15.56	15.54	15.62		
15	QPSK	36	0	15.55	15.56	15.60		
15	QPSK	36	20	15.50	15.52	15.55	17	0
15	QPSK	36	36	15.49	15.61	15.53		
15	QPSK	75	0	15.58	15.61	15.61		
15	HQAM	1	0	15.59	15.59	15.59		
15	HQAM	1	37	15.49	15.46	15.53	17	0
15	HQAM	1	74	15.55	15.59	15.49		
15	HQAM	36	0	15.53	15.63	15.57		
15	HQAM	36	20	15.44	15.47	15.44	17	0
15	HQAM	36	36	15.44	15.47	15.44		
15	HQAM	75	0	15.49	15.45	15.53		
15	HQAM	1	0	15.61	15.61	15.56		
15	HQAM	1	37	15.46	15.54	15.54	17	0
15	HQAM	1	74	15.49	15.55	15.44		
15	HQAM	36	0	15.49	15.63	15.50		
15	HQAM	36	20	15.44	15.47	15.44	17	0
15	HQAM	36	36	15.32	15.53	15.47		
15	HQAM	75	0	15.49	15.62	15.49		
15	256QAM	1	0	15.61	15.59	15.64		
15	256QAM	1	37	15.49	15.60	15.51	17	0
15	256QAM	1	74	15.43	15.50	15.54		
15	256QAM	36	0	15.47	15.54	15.47		
15	256QAM	36	20	15.36	15.43	15.34	17	0
15	256QAM	36	36	15.44	15.53	15.56		
15	256QAM	75	0	15.45	15.46	15.54		
Channel				13252	13232	13252		APR
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	15.61	15.71	15.63		
10	QPSK	1	25	15.47	15.64	15.59	17	0
10	QPSK	1	49	15.67	15.62	15.55		
10	QPSK	25	0	15.62	15.58	15.56		
10	QPSK	25	12	15.43	15.53	15.46	17	0
10	QPSK	25	25	15.50	15.57	15.59		
10	QPSK	50	0	15.68	15.54	15.55		
10	HQAM	1	0	15.61	15.50	15.61		
10	HQAM	1	25	15.44	15.49	15.51	17	0
10	HQAM	1	49	15.67	15.54	15.56		
10	HQAM	25	0	15.59	15.64	15.58		
10	HQAM	25	12	15.42	15.42	15.50	17	0
10	HQAM	25	25	15.50	15.58	15.50		
10	HQAM	50	0	15.43	15.49	15.59		
10	HQAM	1	0	15.61	15.69	15.60		
10	HQAM	1	25	15.49	15.50	15.43	17	0
10	HQAM	1	49	15.55	15.64	15.49		
10	HQAM	25	0	15.52	15.63	15.47		
10	HQAM	25	12	15.35	15.43	15.38	17	0
10	HQAM	50	0	15.47	15.56	15.54		
10	HQAM	1	0	15.49	15.59	15.48		
10	256QAM	1	25	15.48	15.44	15.56	17	0
10	256QAM	25	0	15.53	15.50	15.55		
10	256QAM	25	12	15.38	15.36	15.43	17	0
10	256QAM	25	25	15.35	15.53	15.55		
10	256QAM	50	0	15.54	15.50	15.57		
Channel				13197	13232	13267		APR
Frequency (MHz)				1742.5	1745	1772.5		
5	QPSK	1	0	15.63	15.55	15.62		
5	QPSK	1	12	15.49	15.63	15.55	17	0
5	QPSK	1	24	15.55	15.55	15.60		
5	QPSK	12	0	15.62	15.56	15.61		
5	QPSK	12	7	15.49	15.46	15.55	17	0
5	QPSK	12	13	15.48	15.55	15.53		
5	QPSK	25	0	15.53	15.55	15.50		
5	HQAM	1	0	15.66	15.64	15.62		
5	HQAM	1	12	15.47	15.49	15.50	17	0
5	HQAM	1	24	15.56	15.56	15.58		
5	HQAM	12	0	15.64	15.57	15.64		
5	HQAM	12	7	15.47	15.42	15.51	17	0
5	HQAM	12	13	15.41	15.57	15.47		
5	HQAM	25	0	15.60	15.43	15.51		
5	HQAM	1	0	15.61	15.68	15.64		
5	HQAM	1	12	15.45	15.53	15.52	17	0
5	HQAM	1	24	15.58	15.64	15.47		
5	HQAM	12	0	15.59	15.62	15.55		
5	HQAM	12	7	15.38	15.50	15.46	17	0
5	HQAM	12	13	15.42	15.50	15.45		
5	HQAM	25	0	15.53	15.62	15.69		
5	256QAM	1	0	15.59	15.59	15.59		
5	256QAM	1	12	15.52	15.59	15.49	17	0
5	256QAM	1	24	15.50	15.46	15.60		
5	256QAM	12	0	15.45	15.35	15.54		
5	256QAM	12	7	15.44	15.34	15.36	17	0
5	256QAM	12	13	15.41	15.47	15.51		
5	256QAM	25	0	15.52	15.44	15.49		
Channel				13198	13232	13267		APR
Frequency (MHz)				1741.5	1745	1772.5		
3	QPSK	1	0	15.59	15.70	15.53		
3	QPSK	1	8	15.64	15.66	15.52	17	0
3	QPSK	1	14	15.52	15.65	15.58		
3	QPSK	8	0	15.57	15.62	15.60		
3	QPSK	8	4	15.49	15.53	15.50	17	0
3	QPSK	8	7	15.40	15.62	15.54		
3	QPSK	15	0	15.47	15.57	15.50		
3	HQAM	1	0	15.64	15.60	15.55		
3	HQAM	1	8	15.47	15.56	15.58	17	0
3	HQAM	1	14	15.49	15.59	15.49		
3	HQAM	8	0	15.60	15.67	15.49		
3	HQAM	8	4	15.38	15.40	15.47	17	0
3	HQAM	8	7	15.34	15.56	15.54		
3	HQAM	15	0	15.51	15.47	15.52		
3	HQAM	1	0	15.64	15.68	15.66		
3	HQAM	1	8	15.42	15.51	15.49	17	0
3	HQAM	1	14	15.67	15.62	15.48		
3	HQAM	8	0	15.64	15.69	15.46		
3	HQAM	8	4	15.37	15.48	15.47	17	0
3	HQAM	8	7	15.34	15.54	15.47		
3	HQAM	15	0	15.44	15.59	15.50		
3	256QAM	1	0	15.61	15.60	15.57		
3	256QAM	1	8	15.44	15.57	15.59	17	0
3	256QAM	1	14	15.42	15.59	15.57		
3	256QAM	8	0	15.47	15.54	15.45		
3	256QAM	8	4	15.43	15.33	15.38	17	0
3	256QAM	8	7	15.44	15.57	15.48		
3	256QAM	15	0	15.45	15.47	15.51		
Channel				13193	13232	13265		APR
Frequency (MHz)				1742	1745	1772.5		
1.4								



Band 7 Ant 1 DSI7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mode Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (min)	MPE (dB)
Channel								
2610 - 2610 - 2610								
Frequency (MHz)								
20	QPSK	1	0	17.68	17.72	17.66		
20	QPSK	1	49	17.62	17.63	17.63	18.7	0
20	QPSK	1	99	17.64	17.64	17.60		
20	QPSK	50	0	17.55	17.65	17.57		
20	QPSK	50	24	17.56	17.50	17.47	18.7	0
20	QPSK	50	50	17.52	17.52	17.48		
20	QPSK	100	0	17.59	17.64	17.61		
20	HQAM	1	0	17.63	17.63	17.58		
20	HQAM	1	49	17.54	17.49	17.49	18.7	0
20	HQAM	1	99	17.57	17.53	17.48		
20	HQAM	50	0	17.48	17.53	17.45		
20	HQAM	50	24	17.41	17.49	17.41	18.7	0
20	HQAM	50	50	17.47	17.43	17.39		
20	HQAM	100	0	17.46	17.58	17.50		
20	HQAM	1	0	17.65	17.62	17.57		
20	HQAM	1	49	17.54	17.56	17.43	18.7	0
20	HQAM	1	99	17.60	17.58	17.54		
20	HQAM	50	0	17.58	17.67	17.59		
20	HQAM	50	24	17.45	17.36	17.26	18.7	0
20	HQAM	50	50	17.49	17.48	17.51		
20	HQAM	100	0	17.40	17.52	17.45		
20	SSBQAM	1	0	17.64	17.62	17.63		
20	SSBQAM	1	49	17.53	17.47	17.39	18.7	0
20	SSBQAM	1	99	17.54	17.56	17.53		
20	SSBQAM	50	0	17.63	17.67	17.58		
20	SSBQAM	50	24	17.43	17.47	17.33	18.7	0
20	SSBQAM	50	50	17.43	17.38	17.46		
20	SSBQAM	100	0	17.21	17.51	17.39		
Channel								
2607.5 - 2607.5 - 2635								
Frequency (MHz)								
15	QPSK	1	0	17.54	17.57	17.50		
15	QPSK	1	37	17.65	17.56	17.43	18.7	0
15	QPSK	1	74	17.49	17.52	17.61		
15	QPSK	96	0	17.42	17.52	17.47		
15	QPSK	96	20	17.43	17.56	17.58	18.7	0
15	QPSK	96	39	17.41	17.46	17.42		
15	QPSK	75	0	17.52	17.56	17.54		
15	HQAM	1	0	17.55	17.48	17.51		
15	HQAM	1	37	17.44	17.39	17.24	18.7	0
15	HQAM	1	74	17.50	17.47	17.41		
15	HQAM	96	0	17.40	17.48	17.40		
15	HQAM	96	20	17.27	17.38	17.32	18.7	0
15	HQAM	96	39	17.32	17.27	17.31		
15	HQAM	75	0	17.41	17.47	17.38		
15	HQAM	1	0	17.51	17.50	17.43		
15	HQAM	1	37	17.69	17.46	17.37	18.7	0
15	HQAM	1	74	17.51	17.42	17.50		
15	HQAM	96	0	17.46	17.61	17.47		
15	HQAM	96	20	17.39	17.46	17.34	18.7	0
15	HQAM	96	39	17.42	17.33	17.43		
15	HQAM	75	0	17.34	17.36	17.52		
15	SSBQAM	1	0	17.65	17.57	17.48		
15	SSBQAM	1	37	17.50	17.47	17.39	18.7	0
15	SSBQAM	1	74	17.61	17.51	17.47		
15	SSBQAM	96	0	17.55	17.58	17.53		
15	SSBQAM	96	20	17.42	17.51	17.34	18.7	0
15	SSBQAM	96	39	17.43	17.42	17.43		
15	SSBQAM	75	0	17.33	17.43	17.38		
Channel								
2600 - 2610 - 2600								
Frequency (MHz)								
10	QPSK	1	0	17.69	17.58	17.67		
10	QPSK	1	25	17.54	17.52	17.44	18.7	0
10	QPSK	1	49	17.60	17.63	17.47		
10	QPSK	25	0	17.44	17.54	17.48		
10	QPSK	25	12	17.46	17.47	17.39	18.7	0
10	QPSK	25	25	17.40	17.39	17.36		
10	QPSK	50	0	17.46	17.53	17.58		
10	HQAM	1	0	17.47	17.57	17.42		
10	HQAM	1	25	17.48	17.40	17.35	18.7	0
10	HQAM	1	49	17.48	17.42	17.44		
10	HQAM	25	0	17.43	17.41	17.39		
10	HQAM	25	12	17.31	17.37	17.33	18.7	0
10	HQAM	25	25	17.33	17.27	17.23		
10	HQAM	50	0	17.42	17.50	17.44		
10	HQAM	1	0	17.55	17.53	17.49	18.7	0
10	HQAM	1	25	17.46	17.43	17.35		
10	HQAM	1	49	17.46	17.53	17.45		
10	HQAM	25	0	17.43	17.52	17.53		
10	HQAM	25	12	17.29	17.50	17.28	18.7	0
10	HQAM	25	25	17.41	17.43	17.37		
10	HQAM	50	0	17.26	17.42	17.31		
10	SSBQAM	1	0	17.55	17.63	17.54		
10	SSBQAM	1	25	17.63	17.55	17.39	18.7	0
10	SSBQAM	1	49	17.52	17.47	17.55		
10	SSBQAM	25	0	17.56	17.57	17.59		
10	SSBQAM	25	12	17.41	17.48	17.29	18.7	0
10	SSBQAM	25	25	17.42	17.42	17.44		
10	SSBQAM	50	0	17.34	17.48	17.43		
Channel								
2077.5 - 2100 - 2125								
Frequency (MHz)								
5	QPSK	1	0	17.69	17.58	17.50		
5	QPSK	1	12	17.55	17.52	17.49	18.7	0
5	QPSK	1	24	17.51	17.56	17.47		
5	QPSK	12	0	17.39	17.58	17.47		
5	QPSK	12	7	17.41	17.52	17.40	18.7	0
5	QPSK	12	13	17.37	17.40	17.33		
5	QPSK	25	0	17.54	17.60	17.55		
5	HQAM	1	0	17.58	17.48	17.42		
5	HQAM	1	12	17.44	17.40	17.33	18.7	0
5	HQAM	1	24	17.52	17.44	17.40		
5	HQAM	12	0	17.39	17.39	17.40		
5	HQAM	12	7	17.31	17.39	17.35	18.7	0
5	HQAM	12	13	17.34	17.32	17.30		
5	HQAM	25	0	17.40	17.47	17.42		
5	HQAM	1	0	17.58	17.53	17.43	18.7	0
5	HQAM	1	12	17.50	17.45	17.39		
5	HQAM	1	24	17.51	17.43	17.41		
5	HQAM	12	0	17.48	17.54	17.50		
5	HQAM	12	7	17.31	17.46	17.50	18.7	0
5	HQAM	12	13	17.39	17.34	17.42		
5	HQAM	25	0	17.28	17.42	17.40		
5	SSBQAM	1	0	17.58	17.61	17.53		
5	SSBQAM	1	12	17.43	17.45	17.38	18.7	0
5	SSBQAM	1	24	17.59	17.51	17.45		
5	SSBQAM	12	0	17.47	17.56	17.58		
5	SSBQAM	12	7	17.41	17.53	17.36	18.7	0
5	SSBQAM	12	13	17.43	17.40	17.52		
5	SSBQAM	25	0	17.34	17.51	17.45		



Band 25 Ant 4 DS17										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up Init. (dBm)	MPE (dB)	MPE (dB)	
Channel										
Frequency (MHz)										
20	QPSK	1	0	13.30	13.34	13.29		14.1	0	
20	QPSK	1	99	13.18	13.27	13.14				
20	QPSK	50	0	13.18	13.30	13.16				
24	QPSK	50	0	13.04	13.04	13.04		14.1	0	
20	QPSK	50	50	13.04	13.17	12.99				
20	QPSK	100	0	13.21	13.25	13.16				
20	HQAM	100	0	13.16	13.24	13.10				
20	HQAM	1	49	13.09	13.09	13.09		14.1	0	
20	HQAM	1	99	13.09	13.18	12.96				
20	HQAM	50	0	13.11	13.26	13.09				
20	HQAM	50	24	13.02	13.04	13.03		14.1	0	
20	HQAM	50	50	13.02	13.11	12.98				
20	HQAM	100	0	13.14	13.16	13.09				
20	HQAM	1	0	13.23	13.29	13.20				
20	HQAM	1	49	13.15	13.09	13.14		14.1	0	
20	HQAM	1	99	13.05	13.19	13.05				
20	HQAM	50	24	13.00	13.00	13.00		14.1	0	
20	HQAM	50	50	12.99	13.07	12.99				
20	HQAM	100	0	13.11	13.13	13.13				
20	256QAM	1	0	13.21	13.27	13.22				
20	256QAM	1	49	13.09	13.12	13.08		14.1	0	
20	256QAM	1	99	13.11	13.23	13.10				
20	256QAM	50	0	13.05	13.06	13.06				
20	256QAM	50	24	13.03	12.92	12.98		14.1	0	
20	256QAM	50	50	12.91	13.09	12.90				
20	256QAM	100	0	13.11	13.05	13.03				
Channel										
Frequency (MHz)										
16	QPSK	1	0	13.23	13.24	13.20		14.1	0	
16	QPSK	1	37	13.12	13.10	13.05				
16	QPSK	1	74	13.08	13.14	12.90				
16	QPSK	36	0	13.04	13.20	13.02				
16	QPSK	20	0	12.97	12.95	13.00		14.1	0	
16	QPSK	36	36	12.95	13.06	12.98				
16	HQAM	75	0	13.08	13.15	13.00				
16	HQAM	1	37	12.95	13.04	12.97		14.1	0	
16	HQAM	74	0	13.08	13.16	13.00				
16	HQAM	36	0	13.04	13.14	12.90				
16	HQAM	36	20	12.97	12.90	12.93		14.1	0	
16	HQAM	36	36	12.95	13.05	12.95				
16	HQAM	75	0	13.02	13.10	12.93				
16	HQAM	1	0	13.10	13.18	13.11		14.1	0	
16	HQAM	1	37	12.96	13.07	12.97				
16	HQAM	1	74	13.10	13.17	12.95				
16	HQAM	36	0	13.01	13.06	12.95		14.1	0	
16	HQAM	36	20	12.90	13.00	12.90				
16	HQAM	36	36	12.85	13.00	12.75				
16	HQAM	75	0	13.01	13.05	13.00				
16	256QAM	1	0	13.25	13.00	12.84		14.1	0	
16	256QAM	1	74	13.06	13.14	13.01				
16	256QAM	36	0	12.90	13.00	12.90				
16	256QAM	36	20	12.90	12.83	12.92		14.1	0	
16	256QAM	36	36	12.87	13.05	12.78				
16	256QAM	75	0	13.11	13.05	13.00				
Channel										
Frequency (MHz)										
10	QPSK	14	0	13.20	13.20	13.20		14.1	0	
10	QPSK	25	0	13.17	13.15	13.05				
10	QPSK	1	49	13.09	13.16	13.02				
10	QPSK	20	0	12.97	12.97	13.00		14.1	0	
10	QPSK	25	12	13.02	12.92	13.00				
10	QPSK	25	25	12.94	13.02	12.89				
10	HQAM	50	0	13.05	13.05	13.00				
10	HQAM	1	0	13.11	13.12	12.90		14.1	0	
10	HQAM	1	25	13.03	13.03	13.00				
10	HQAM	1	49	13.02	13.12	12.97				
10	HQAM	25	0	13.02	13.12	12.90		14.1	0	
10	HQAM	25	12	12.88	12.84	12.92				
10	HQAM	25	25	12.90	13.05	12.90				
10	HQAM	50	0	13.07	13.03	12.90				
10	HQAM	1	0	13.14	13.18	13.13		14.1	0	
10	HQAM	1	25	13.01	13.01	13.01				
10	HQAM	1	49	12.99	13.14	12.86				
10	HQAM	25	0	12.96	13.06	12.94		14.1	0	
10	HQAM	25	12	12.92	12.99	12.74				
10	HQAM	50	0	13.04	13.04	13.04				
10	HQAM	50	0	13.04	13.04	13.04				
10	HQAM	50	25	12.92	12.99	12.74		14.1	0	
10	HQAM	50	50	13.04	13.04	13.04				
10	256QAM	1	49	13.00	13.02	13.04		14.1	0	
10	256QAM	1	25	13.00	13.17	13.02				
10	256QAM	25	0	12.95	13.11	13.04				
10	256QAM	25	12	12.92	12.87	12.88		14.1	0	
10	256QAM	25	25	12.84	13.04	12.82				
10	256QAM	50	0	13.04	13.11	12.90				
Channel										
Frequency (MHz)										
5	QPSK	1	0	13.23	13.23	13.23		14.1	0	
5	QPSK	1	12	13.14	13.08	13.11				
5	QPSK	1	24	13.07	13.16	13.00				
5	QPSK	3	0	13.07	13.16	13.00		14.1	0	
5	QPSK	3	12	12.97	12.92	13.04				
5	QPSK	12	13	12.97	13.03	12.89				
5	QPSK	20	0	13.13	13.18	13.00				
5	HQAM	1	0	13.08	13.14	13.05		14.1	0	
5	HQAM	1	12	12.99	12.94	12.99				
5	HQAM	1	24	13.01	13.09	12.90				
5	HQAM	12	0	13.08	13.17	12.97		14.1	0	
5	HQAM	12	7	12.90	12.89	12.91				
5	HQAM	25	0	13.09	13.12	12.94				
5	HQAM	1	0	13.10	13.20	13.12		14.1	0	
5	HQAM	1	12	12.92	12.95	13.06				
5	HQAM	1	24	13.08	13.11	12.90				
5	HQAM	12	0	12.96	13.06	12.97		14.1	0	
5	HQAM	12	7	12.94	12.83	12.98				
5	HQAM	25	0	13.07	12.97	12.77				
5	HQAM	25	0	13.09	13.00	12.90		14.1	0	
5	HQAM	25	0	13.17	13.23	13.14				
5	256QAM	1	12	12.95	13.09	13.02		14.1	0	
5	256QAM	1	24	12.97	13.10	13.03				
5	256QAM	12	0	12.96	13.03	12.96				
5	256QAM	12	7	12.90	12.81	12.84		14.1	0	
5	256QAM	25	0	13.07	13.00	12.90				
5	256QAM	25	0	13.07	13.13	12.91				
Channel										
Frequency (MHz)										
3	QPSK	1	0	13.22	13.20	13.15		14.1	0	
3	QPSK	1	8	13.09	13.12	13.05				
3	QPSK	1	14	13.08	13.13	13.00				
3	QPSK	3	0	13.07	13.17	13.00		14.1	0	
3	QPSK	3	8	13.01	12.96	12.86				
3	QPSK	8	7	12.98	13.06	12.90				
3	QPSK	8	0	13.15	13.15	13.10				
3	HQAM	1	0	13.04	13.11	13.03		14.1	0	
3	HQAM	1	8	12.97	12.95	12.96				
3	HQAM	1	14	13.05	13.14	12.91				
3	HQAM	8	0	12.96	13.18	12.97		14.1	0	
3	HQAM	8	4	12.85	12.90	12.86				
3	HQAM	15	0	13.01	13.04	12.91				
3	HQAM	15	8	13.03	12.92	13.04		14.1	0	
3	HQAM	8	0	13.08	13.14	12.97				
3	HQAM	8	4	12.87	12.87	12.79				
3	HQAM	8	7	12.89	13.01	12.73		14.1	0	
3	256QAM	15	0	13.01	13.09	13.01				
3	256QAM	8	0	13.09	13.16	13.11				
3	256QAM	8	0	13.02	13.00	12.90				



Band 38 Ant 1 DS17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				38750	38900	39150			
20	QPSK	1	0	19.27	19.28	19.29	20.7	0	
20	QPSK	1	49	19.11	19.26	19.28			
20	QPSK	50	24	19.07	19.17	19.21			
20	QPSK	50	0	19.09	19.20	19.22			
20	QPSK	50	24	19.05	19.14	19.06	20.7	0	
20	QPSK	100	0	19.18	19.20	19.21			
20	16QAM	1	0	19.16	19.14	19.15	20.7	0	
20	16QAM	1	49	19.09	19.16	19.04			
20	16QAM	1	99	19.02	19.07	19.06			
20	16QAM	50	0	19.06	19.20	19.17			
20	16QAM	50	24	19.09	19.09	19.08	20.7	0	
20	16QAM	100	0	19.03	19.15	19.07			
20	16QAM	100	0	19.03	19.13	19.13			
20	16QAM	1	49	19.12	19.11	19.09	20.7	0	
20	16QAM	1	99	19.03	19.14	19.14			
20	16QAM	50	0	19.21	19.20	19.17			
20	16QAM	50	24	19.06	19.15	19.03	20.7	0	
20	16QAM	50	50	19.09	19.05	19.02			
20	16QAM	100	0	19.08	19.11	19.06			
20	16QAM	100	0	19.08	19.11	19.06			
20	256QAM	1	0	17.98	17.89	17.83	19	1.7	
20	256QAM	1	49	17.93	17.89	17.82			
20	256QAM	1	99	17.87	17.73	17.80			
20	256QAM	50	0	17.89	17.82	17.71			
20	256QAM	50	24	17.74	17.82	17.58	19	1.7	
20	256QAM	50	50	17.71	17.70	17.64			
20	256QAM	100	0	17.71	17.82	17.81			
Channel									
Frequency (MHz)				39225	39300	39375	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	19.27	19.22	19.23	20.7	0	
15	QPSK	1	37	19.05	19.14	19.00			
15	QPSK	1	74	19.07	19.09	19.04			
15	QPSK	36	0	19.07	19.07	19.14			
15	QPSK	36	20	19.04	19.06	19.03	20.7	0	
15	QPSK	36	39	19.08	19.07	19.08			
15	QPSK	75	0	19.08	19.07	19.14			
15	16QAM	1	0	19.02	19.08	19.00	20.7	0	
15	16QAM	1	37	19.07	19.10	19.06			
15	16QAM	1	74	19.07	19.03	19.01			
15	16QAM	36	0	19.03	19.06	19.08			
15	16QAM	36	20	19.02	19.01	19.02	20.7	0	
15	16QAM	36	39	19.02	19.05	19.04			
15	16QAM	75	0	19.02	19.07	19.06			
15	16QAM	75	0	19.02	19.05	19.04			
15	16QAM	1	37	19.09	19.08	19.05	20.7	0	
15	16QAM	1	74	19.07	19.00	19.03			
15	16QAM	36	0	19.15	19.11	19.13			
15	16QAM	36	20	19.06	19.09	19.06	20.7	0	
15	16QAM	36	39	19.03	19.11	19.08			
15	16QAM	75	0	19.05	19.02	19.01			
15	256QAM	1	0	17.78	17.82	17.89	19	1.7	
15	256QAM	1	37	17.71	17.71	17.65			
15	256QAM	1	74	17.82	17.53	17.65			
15	256QAM	36	0	17.48	17.82	17.59			
15	256QAM	36	20	17.47	17.77	17.44	19	1.7	
15	256QAM	36	39	17.61	17.66	17.58			
15	256QAM	75	0	17.68	17.46	17.41			
Channel									
Frequency (MHz)				39375	39450	39525	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	19.16	19.16	19.16	20.7	0	
10	QPSK	1	25	19.05	19.21	19.05			
10	QPSK	1	49	19.07	19.08	19.00			
10	QPSK	25	0	19.06	19.07	19.18			
10	QPSK	25	12	19.09	19.01	19.02	20.7	0	
10	QPSK	25	25	19.02	19.02	19.00			
10	16QAM	1	0	19.04	19.05	19.08			
10	16QAM	1	25	19.00	19.02	19.02	20.7	0	
10	16QAM	1	49	19.07	19.06	19.08			
10	16QAM	25	0	19.06	19.13	19.07			
10	16QAM	25	12	19.07	19.00	19.04	20.7	0	
10	16QAM	25	25	19.04	19.04	19.06			
10	16QAM	50	0	19.04	19.03	19.03			
10	16QAM	50	0	19.04	19.03	19.03			
10	16QAM	1	0	19.04	19.04	19.07	20.7	0	
10	16QAM	1	25	19.07	19.02	19.07			
10	16QAM	1	49	19.07	19.02	19.07			
10	16QAM	25	0	19.17	19.08	19.12			
10	16QAM	25	12	19.03	19.02	19.06	20.7	0	
10	16QAM	25	25	19.02	19.01	19.09			
10	16QAM	50	0	19.04	19.02	19.09			
10	256QAM	1	0	17.87	17.78	17.73			
10	256QAM	1	25	17.89	17.70	17.61	19	1.7	
10	256QAM	1	49	17.79	17.52	17.61			
10	256QAM	25	0	17.60	17.87	17.68			
10	256QAM	25	12	17.58	17.79	17.54	19	1.7	
10	256QAM	25	25	17.64	17.61	17.50			
10	256QAM	50	0	17.62	17.44	17.40			
Channel									
Frequency (MHz)				39525	39600	39675	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	19.10	19.20	19.14	20.7	0	
5	QPSK	1	19	19.06	19.21	19.08			
5	QPSK	1	24	19.09	19.03	19.05			
5	QPSK	12	0	19.07	19.12	19.10			
5	QPSK	12	7	19.06	19.04	19.07	20.7	0	
5	QPSK	12	19	19.04	19.02	19.09			
5	QPSK	25	0	19.05	19.10	19.11			
5	16QAM	1	12	19.08	19.08	19.03	20.7	0	
5	16QAM	1	24	19.01	19.04	19.00			
5	16QAM	12	0	19.04	19.16	19.09			
5	16QAM	12	7	19.02	19.02	19.05	20.7	0	
5	16QAM	12	13	19.01	19.03	19.02			
5	16QAM	25	0	19.08	19.03	19.05			
5	16QAM	1	0	19.04	19.08	19.09	20.7	0	
5	16QAM	1	12	19.00	19.02	19.08			
5	16QAM	1	24	19.07	19.10	19.09			
5	16QAM	12	0	19.15	19.09	19.13	20.7	0	
5	16QAM	12	7	19.03	19.04	19.07			
5	16QAM	12	13	19.05	19.09	19.04			
5	16QAM	25	0	19.09	19.02	19.00			
5	256QAM	1	0	17.79	17.83	17.79			
5	256QAM	1	12	17.88	17.87	17.54	19	1.7	
5	256QAM	1	24	17.80	17.68	17.72			
5	256QAM	12	0	17.67	17.88	17.50			
5	256QAM	12	7	17.67	17.87	17.50	19	1.7	
5	256QAM	12	13	17.69	17.67	17.52			
5	256QAM	25	0	17.58	17.52	17.41			

Band 41 Ant 1 DS17										
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	19.32	19.24	19.24	19.24	19.24	20.7	0
20	QPSK	1	49	19.20	19.20	19.32	19.26	19.26		
20	QPSK	1	99	19.17	19.20	19.26	19.30	19.30		
20	QPSK	50	0	19.21	19.24	19.37	19.35	19.35		
20	QPSK	50	24	19.12	19.20	19.21	19.21	19.13	20.7	0
20	QPSK	100	0	19.08	19.20	19.34	19.21	19.15		
20	QPSK	100	0	19.18	19.26	19.32	19.31	19.29		
20	16QAM	1	0	19.28	19.20	19.29	19.26	19.31	20.7	0
20	16QAM	1	49	19.08	19.20	19.26	19.30	19.32		
20	16QAM	1	99	19.13	19.14	19.14	19.18	19.12		
20	16QAM	50	0	19.11	19.13	19.30	19.28	19.14	20.7	0
20	16QAM	50	24	19.07	19.20	19.26	19.14	19.04		
20	16QAM	50	50	19.09	19.06	19.08	19.13	19.04		
20	16QAM	100	0	19.08	19.20	19.22	19.16	19.19		
20	16QAM	100	0	19.25	19.23	19.30	19.28	19.22	20.7	0
20	16QAM	1	49	19.15	19.25	19.28	19.11	19.12		
20	16QAM	1	99	19.06	19.08	19.23	19.20	19.11		
20	16QAM	50	0	19.20	19.26	19.28	19.27	19.27		
20	16QAM	50	24	19.24	19.23	19.33	19.28	19.29	20.7	0
20	16QAM	50	50	19.05	19.14	19.18	19.15	19.17		
20	16QAM	100	0	19.08	19.18	19.19	19.14	19.19		
20	256QAM	1	0	17.91	17.82	17.86	17.87	17.80	19	1.7
20	256QAM	1	49	17.75	17.75	17.82	17.82	17.86		
20	256QAM	1	99	17.67	17.76	17.82	17.93	17.69		
20	256QAM	50	0	17.89	17.86	17.86	17.79	17.60		
20	256QAM	50	24	17.77	17.59	17.84	17.81	17.59	19	1.7
20	256QAM	50	50	17.50	17.62	17.78	17.81	17.66		
20	256QAM	100	0	17.49	17.62	17.80	17.81	17.61		
Channel										
Frequency (MHz)				39750	40173	40600	41068	41505	Tune-up limit (dBm)	MPR (dB)
16	QPSK	1	0	19.20	19.23	19.24	19.13	19.13	20.7	0
16	QPSK	1	37	19.10	19.20	19.25	19.21			



Band 38 Ant 4 DSI7									
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	14.70	14.83	14.73	16	0	
20	QPSK	1	49	14.83	14.73	14.87	16	0	
20	QPSK	50	0	14.70	14.70	14.70	16	0	
20	QPSK	50	24	14.58	14.86	14.58	16	0	
20	QPSK	100	0	14.70	14.70	14.70	16	0	
20	QPSK	100	49	14.83	14.73	14.87	16	0	
20	16QAM	1	0	14.84	14.89	14.83	16	0	
20	16QAM	1	49	14.89	14.84	14.93	16	0	
20	16QAM	1	99	14.58	14.86	14.58	16	0	
20	16QAM	50	0	14.80	14.73	14.86	16	0	
20	16QAM	50	24	14.58	14.86	14.58	16	0	
20	16QAM	100	0	14.80	14.80	14.80	16	0	
20	16QAM	100	49	14.81	14.87	14.84	16	0	
20	16QAM	1	99	14.58	14.86	14.58	16	0	
20	16QAM	50	24	14.42	14.87	14.37	16	0	
20	16QAM	100	0	14.80	14.70	14.88	16	0	
20	256QAM	1	0	14.89	14.88	14.70	16	0	
20	256QAM	1	49	14.89	14.88	14.81	16	0	
20	256QAM	50	0	14.80	14.80	14.80	16	0	
20	256QAM	50	24	14.44	14.86	14.47	16	0	
20	256QAM	100	0	14.48	14.85	14.52	16	0	
20	256QAM	100	0	14.88	14.86	14.89	16	0	
Channel									
Frequency (MHz)									
15	QPSK	1	0	23.73	23.93	23.73	16	0	
15	QPSK	1	37	14.50	14.81	14.42	16	0	
15	QPSK	1	74	14.27	14.84	14.59	16	0	
15	QPSK	36	0	14.50	14.89	14.59	16	0	
15	QPSK	36	20	14.54	14.54	14.46	16	0	
15	QPSK	75	0	14.82	14.82	14.85	16	0	
15	16QAM	1	0	14.55	14.56	14.58	16	0	
15	16QAM	1	37	14.55	14.54	14.41	16	0	
15	16QAM	36	0	14.54	14.83	14.49	16	0	
15	16QAM	36	20	14.28	14.74	14.22	16	0	
15	16QAM	36	39	14.29	14.39	14.31	16	0	
15	16QAM	75	0	14.54	14.82	14.59	16	0	
15	16QAM	1	37	14.55	14.53	14.51	16	0	
15	16QAM	74	0	14.51	14.44	14.48	16	0	
15	16QAM	36	0	14.55	14.52	14.48	16	0	
15	16QAM	36	20	14.39	14.49	14.27	16	0	
15	16QAM	36	39	14.55	14.55	14.46	16	0	
15	16QAM	75	0	14.53	14.80	14.53	16	0	
15	256QAM	1	0	14.59	14.54	14.62	16	0	
15	256QAM	1	37	14.43	14.53	14.45	16	0	
15	256QAM	1	74	14.38	14.51	14.38	16	0	
15	256QAM	36	0	14.50	14.80	14.47	16	0	
15	256QAM	36	20	14.32	14.51	14.37	16	0	
15	256QAM	36	39	14.32	14.44	14.47	16	0	
15	256QAM	75	0	14.82	14.80	14.86	16	0	
Channel									
Frequency (MHz)									
10	QPSK	1	0	14.66	14.71	14.69	16	0	
10	QPSK	1	25	14.58	14.64	14.43	16	0	
10	QPSK	1	49	14.54	14.87	14.53	16	0	
10	QPSK	25	0	14.62	14.60	14.60	16	0	
10	QPSK	25	12	14.50	14.80	14.52	16	0	
10	QPSK	25	25	14.45	14.49	14.47	16	0	
10	16QAM	1	0	14.58	14.80	14.85	16	0	
10	16QAM	1	0	14.55	14.80	14.85	16	0	
10	16QAM	1	25	14.33	14.56	14.46	16	0	
10	16QAM	1	49	14.46	14.59	14.44	16	0	
10	16QAM	25	0	14.53	14.82	14.44	16	0	
10	16QAM	25	12	14.29	14.39	14.37	16	0	
10	16QAM	25	25	14.29	14.39	14.37	16	0	
10	16QAM	50	0	14.58	14.58	14.50	16	0	
10	16QAM	1	0	14.64	14.72	14.63	16	0	
10	16QAM	1	25	14.38	14.45	14.48	16	0	
10	16QAM	1	49	14.46	14.51	14.42	16	0	
10	16QAM	25	0	14.60	14.87	14.41	16	0	
10	16QAM	25	12	14.28	14.44	14.29	16	0	
10	16QAM	25	25	14.30	14.47	14.41	16	0	
10	16QAM	50	0	14.47	14.81	14.58	16	0	
10	256QAM	1	0	14.58	14.81	14.87	16	0	
10	256QAM	1	25	14.43	14.58	14.46	16	0	
10	256QAM	1	49	14.38	14.47	14.55	16	0	
10	256QAM	25	0	14.54	14.49	14.48	16	0	
10	256QAM	25	12	14.35	14.47	14.35	16	0	
10	256QAM	25	25	14.34	14.51	14.35	16	0	
10	256QAM	50	0	14.57	14.83	14.58	16	0	
Channel									
Frequency (MHz)									
5	QPSK	1	0	14.60	14.88	14.73	16	0	
5	QPSK	1	19	14.53	14.80	14.54	16	0	
5	QPSK	1	24	14.85	14.82	14.52	16	0	
5	QPSK	12	0	14.88	14.73	14.88	16	0	
5	QPSK	12	7	14.47	14.58	14.48	16	0	
5	QPSK	12	13	14.46	14.54	14.49	16	0	
5	QPSK	25	0	14.60	14.66	14.63	16	0	
5	QPSK	25	0	14.63	14.65	14.58	16	0	
5	16QAM	1	12	14.51	14.81	14.49	16	0	
5	16QAM	1	24	14.52	14.53	14.51	16	0	
5	16QAM	12	0	14.58	14.83	14.52	16	0	
5	16QAM	12	7	14.30	14.43	14.34	16	0	
5	16QAM	12	13	14.25	14.42	14.31	16	0	
5	16QAM	25	0	14.58	14.59	14.59	16	0	
5	16QAM	1	0	14.84	14.79	14.80	16	0	
5	16QAM	1	12	14.53	14.47	14.49	16	0	
5	16QAM	1	24	14.48	14.51	14.42	16	0	
5	16QAM	12	0	14.54	14.67	14.42	16	0	
5	16QAM	12	7	14.31	14.51	14.30	16	0	
5	16QAM	12	13	14.35	14.43	14.40	16	0	
5	16QAM	25	0	14.56	14.84	14.44	16	0	
5	256QAM	1	0	14.58	14.58	14.51	16	0	
5	256QAM	1	12	14.45	14.57	14.49	16	0	
5	256QAM	1	24	14.43	14.47	14.51	16	0	
5	256QAM	12	0	14.53	14.81	14.58	16	0	
5	256QAM	12	7	14.39	14.42	14.30	16	0	
5	256QAM	12	13	14.39	14.48	14.40	16	0	
5	256QAM	25	0	14.82	14.82	14.84	16	0	

Band 41 Ant 4 DSI7									
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	14.85	14.82	14.80	16	0	
20	QPSK	1	49	14.74	14.78	14.78	16	0	
20	QPSK	50	0	14.70	14.70	14.70	16	0	
20	QPSK	50	24	14.86	14.82	14.71	16	0	
20	QPSK	100	0	14.73	14.82	14.82	16	0	
20	QPSK	100	0	14.79	14.77	14.83	16	0	
20	16QAM	1	0	14.74	14.73	14.78	16	0	
20	16QAM	1	49	14.88	14.88	14.86	16	0	
20	16QAM	1	99	14.58	14.71	14.75	16	0	
20	16QAM	50	0	14.75	14.80	14.81	16	0	
20	16QAM	50	24	14.82	14.82	14.59	16	0	
20	16QAM	100	0	14.70	14.82	14.58	16	0	
20	16QAM	100	0	14.80	14.70	14.75	16	0	
20	16QAM	1	99	14.74	14.73	14.83	16	0	
20	16QAM	1	49	14.89	14.88	14.89	16	0	
20	16QAM	1	99	14.88	14.85	14.82	16	0	
20	16QAM	50	0	14.87	14.72	14.75	16	0	
20	16QAM	50	24	14.82	14.83	14.87	16	0	
20	16QAM	100	0	14.78	14.88	14.78	16	0	
20	16QAM	100	0	14.78	14.75	14.77	16	0	
20	256QAM	1	0	14.86	14.81	14.74	16	0	
20	256QAM	1	49	14.87	14.80	14.88	16	0	
20	256QAM	50	0	14.71	14.80	14.86	16	0	
20	256QAM	50	24	14.57	14.82	14.83	16	0	



Band 42 Ant 5 DSI7

Bit (Hz)	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)				3490	3590	3690		
20	QPSK	1	0	16.71	16.70	16.68	17.8	0
20	QPSK	1	49	16.81	16.80	16.81		
20	QPSK	1	99	16.81	16.87	16.82		
20	QPSK	50	0	16.80	16.70	16.59		
20	QPSK	50	24	16.51	16.56	16.53	17.8	0
20	QPSK	50	49	16.52	16.60	16.58		
20	QPSK	100	0	16.66	16.67	16.60		
20	HQAM	1	0	16.64	16.72	16.62		
20	HQAM	1	49	16.47	16.62	16.57	17.8	0
20	HQAM	50	0	16.56	16.55	16.49		
20	HQAM	50	24	16.46	16.52	16.48	17.8	0
20	HQAM	50	49	16.44	16.52	16.49		
20	HQAM	100	0	16.57	16.57	16.51		
20	HQAM	1	49	16.55	16.58	16.49	17.8	0
20	HQAM	1	99	16.51	16.60	16.52		
20	HQAM	50	0	16.49	16.52	16.51		
20	HQAM	50	24	16.40	16.44	16.47	17.8	0
20	HQAM	50	49	16.39	16.46	16.49		
20	HQAM	100	0	16.68	16.69	16.46		
20	SRSSAM	1	0	16.58	16.66	16.54		
20	SRSSAM	1	49	16.57	16.60	16.57	17.8	0
20	SRSSAM	1	99	16.57	16.56	16.50		
20	SRSSAM	50	0	16.67	16.58	16.51		
20	SRSSAM	50	24	16.40	16.50	16.44	17.8	0
20	SRSSAM	50	49	16.45	16.50	16.51		
20	SRSSAM	100	0	16.60	16.68	16.52		
Channel								
Frequency (MHz)				3495	3595	3695		
15	QPSK	1	0	16.69	16.67	16.54		
15	QPSK	1	37	16.63	16.68	16.53	17.8	0
15	QPSK	1	74	16.54	16.63	16.57		
15	QPSK	36	0	16.52	16.64	16.52		
15	QPSK	36	20	16.42	16.47	16.39	17.8	0
15	QPSK	36	39	16.42	16.50	16.45		
15	QPSK	75	0	16.61	16.63	16.45		
15	HQAM	1	0	16.58	16.61	16.51		
15	HQAM	1	37	16.36	16.41	16.47	17.8	0
15	HQAM	1	74	16.49	16.47	16.44		
15	HQAM	36	0	16.39	16.53	16.44		
15	HQAM	36	39	16.41	16.35	16.37	17.8	0
15	HQAM	36	39	16.34	16.48	16.37		
15	HQAM	75	0	16.45	16.43	16.39		
15	HQAM	1	0	16.52	16.55	16.52		
15	HQAM	1	37	16.49	16.48	16.37	17.8	0
15	HQAM	1	74	16.44	16.34	16.46		
15	HQAM	36	0	16.44	16.49	16.41		
15	HQAM	36	39	16.31	16.39	16.36	17.8	0
15	HQAM	36	39	16.38	16.32	16.39		
15	HQAM	75	0	16.53	16.51	16.33		
15	SRSSAM	1	0	16.48	16.58	16.46	17.8	0
15	SRSSAM	1	37	16.54	16.47	16.46		
15	SRSSAM	1	74	16.48	16.52	16.42		
15	SRSSAM	36	0	16.33	16.44	16.47		
15	SRSSAM	36	20	16.38	16.37	16.33	17.8	0
15	SRSSAM	36	39	16.33	16.43	16.42		
15	SRSSAM	75	0	16.57	16.53	16.39		
Channel								
Frequency (MHz)				3495.5	3595.5	3695.5		
10	QPSK	1	0	16.69	16.60	16.57		
10	QPSK	1	25	16.55	16.58	16.54	17.8	0
10	QPSK	1	49	16.46	16.59	16.54		
10	QPSK	36	0	16.46	16.58	16.52		
10	QPSK	25	12	16.44	16.51	16.44	17.8	0
10	QPSK	25	25	16.46	16.55	16.55		
10	QPSK	50	0	16.56	16.57	16.49		
10	HQAM	1	0	16.61	16.69	16.58	17.8	0
10	HQAM	1	25	16.52	16.58	16.47		
10	HQAM	1	49	16.52	16.43	16.41		
10	HQAM	25	0	16.42	16.60	16.41		
10	HQAM	25	12	16.36	16.43	16.36	17.8	0
10	HQAM	25	25	16.35	16.42	16.40		
10	HQAM	50	0	16.45	16.52	16.42		
10	HQAM	1	0	16.53	16.60	16.53		
10	HQAM	1	25	16.49	16.51	16.44	17.8	0
10	HQAM	25	0	16.41	16.53	16.44		
10	HQAM	25	12	16.35	16.36	16.37	17.8	0
10	HQAM	25	25	16.25	16.20	16.39		
10	HQAM	50	0	16.46	16.45	16.39		
10	SRSSAM	1	0	16.52	16.61	16.42		
10	SRSSAM	1	25	16.46	16.46	16.46	17.8	0
10	SRSSAM	1	49	16.50	16.47	16.44		
10	SRSSAM	25	0	16.36	16.48	16.38		
10	SRSSAM	25	12	16.37	16.42	16.32	17.8	0
10	SRSSAM	25	25	16.39	16.45	16.40		
10	SRSSAM	50	0	16.57	16.47	16.38		
Channel								
Frequency (MHz)				3495.5	3595.5	3695.5		
5	QPSK	1	0	16.60	16.65	16.62		
5	QPSK	1	12	16.56	16.59	16.55	17.8	0
5	QPSK	1	24	16.58	16.56	16.56		
5	QPSK	12	0	16.53	16.46	16.49		
5	QPSK	12	7	16.38	16.43	16.47	17.8	0
5	QPSK	12	13	16.47	16.56	16.47		
5	QPSK	25	0	16.53	16.64	16.51		
5	HQAM	1	0	16.58	16.69	16.52		
5	HQAM	1	12	16.34	16.56	16.43	17.8	0
5	HQAM	1	24	16.46	16.51	16.44		
5	HQAM	12	0	16.42	16.57	16.42		
5	HQAM	12	7	16.34	16.43	16.46	17.8	0
5	HQAM	12	13	16.32	16.47	16.39		
5	HQAM	25	0	16.49	16.60	16.41		
5	HQAM	1	0	16.52	16.53	16.52	17.8	0
5	HQAM	1	12	16.50	16.46	16.37		
5	HQAM	1	24	16.41	16.46	16.47		
5	HQAM	12	0	16.57	16.56	16.44		
5	HQAM	12	7	16.37	16.35	16.33	17.8	0
5	HQAM	12	13	16.36	16.32	16.36		
5	HQAM	25	0	16.44	16.48	16.34		
5	SRSSAM	1	0	16.45	16.50	16.51		
5	SRSSAM	1	12	16.45	16.51	16.52	17.8	0
5	SRSSAM	1	24	16.49	16.50	16.36		
5	SRSSAM	12	0	16.41	16.48	16.44		
5	SRSSAM	12	7	16.30	16.20	16.33	17.8	0
5	SRSSAM	12	13	16.42	16.45	16.47		
5	SRSSAM	25	0	16.59	16.48	16.48		



Band 2 Ant 0 Full power										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up (min)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.78	22.79	22.73	24	0		
20	QPSK	1	99	22.77	22.71	22.64				
20	QPSK	1	99	22.72	22.67	22.64				
20	QPSK	50	0	21.81	21.85	21.85	23	1		
20	QPSK	50	24	21.79	21.85	21.85				
20	QPSK	50	50	21.81	21.73	21.77				
20	QPSK	100	0	21.71	21.74	21.72	23	1		
20	QPSK	100	24	21.76	21.76	21.67				
20	QPSK	100	50	20.83	20.88	20.78				
20	QPSK	50	24	20.83	20.78	20.74	22	2		
20	QPSK	50	50	20.83	20.83	20.83				
20	QPSK	100	0	20.74	20.82	20.73	22	2		
20	QPSK	100	24	20.71	20.79	20.74				
20	QPSK	100	50	20.84	20.77	20.74				
20	QPSK	50	0	19.87	19.87	19.73	21	3		
20	QPSK	50	24	19.87	19.86	19.82				
20	QPSK	50	50	19.81	19.78	19.85				
20	QPSK	100	0	19.91	19.82	19.82	19	5		
20	QPSK	100	24	19.87	19.76	17.68				
20	QPSK	100	50	19.81	19.78	19.85				
20	QPSK	50	24	17.82	17.76	17.68	19	5		
20	QPSK	50	50	17.82	17.89	17.68				
20	QPSK	50	99	17.86	17.72	17.78				
20	QPSK	100	0	17.74	17.62	17.64	19	5		
Channel										
Frequency (MHz)										
16	QPSK	1	0	22.73	22.71	22.71	24	0		
16	QPSK	1	97	22.61	22.67	22.49				
16	QPSK	1	74	22.48	22.67	22.48				
16	QPSK	1	74	22.79	22.67	22.67				
16	QPSK	36	20	21.71	21.67	21.52	23	1		
16	QPSK	36	36	21.64	21.68	21.60				
16	QPSK	100	0	21.74	21.59	21.61	23	1		
16	QPSK	100	1	21.62	21.65	21.61				
16	QPSK	100	24	21.62	21.62	21.62	22	2		
16	QPSK	100	50	20.71	20.73	20.69				
16	QPSK	50	20	20.72	20.73	20.68	22	2		
16	QPSK	50	24	20.72	20.73	20.68				
16	QPSK	50	50	20.77	20.53	20.82	22	2		
16	QPSK	100	0	20.67	20.63	20.55	22	2		
16	QPSK	100	24	20.68	20.58	20.72				
16	QPSK	100	50	19.75	19.81	19.70	21	3		
16	QPSK	50	20	19.74	19.83	19.83				
16	QPSK	50	36	19.78	19.71	19.86				
16	QPSK	75	0	19.86	19.88	19.40	19	5		
16	QPSK	75	0	17.82	17.83	17.84				
16	QPSK	100	1	17.82	17.72	17.64	19	5		
16	QPSK	100	1	17.82	17.83	17.78				
16	QPSK	100	24	17.82	17.83	17.78	19	5		
16	QPSK	100	36	17.82	17.72	17.66				
16	QPSK	100	50	17.82	17.88	17.80	19	5		
16	QPSK	100	0	17.70	17.64	17.60				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.63	22.60	22.61	24	0		
10	QPSK	1	25	22.51	22.52	22.52				
10	QPSK	1	49	22.55	22.61	22.64				
10	QPSK	1	49	22.70	22.61	22.64				
10	QPSK	26	12	21.70	21.83	21.58	23	1		
10	QPSK	26	25	21.62	21.62	21.68				
10	QPSK	100	0	21.71	21.60	21.60	23	1		
10	QPSK	100	1	21.71	21.64	21.68				
10	QPSK	100	25	21.70	21.70	21.57	22	2		
10	QPSK	100	50	20.79	20.78	20.69				
10	QPSK	50	12	20.80	20.61	20.71	22	2		
10	QPSK	50	12	20.71	20.92	20.7				
10	QPSK	50	1	20.89	20.88	20.70	22	2		
10	QPSK	50	1	20.81	20.84	20.84				
10	QPSK	100	0	20.67	20.60	20.70	22	2		
10	QPSK	100	24	20.61	20.63	20.68				
10	QPSK	100	50	20.68	20.53	20.69	22	2		
10	QPSK	25	0	19.86	19.76	19.84	21	3		
10	QPSK	25	12	19.88	19.74	19.72				
10	QPSK	25	25	19.72	19.59	19.44	19	5		
10	QPSK	50	0	19.87	19.46	19.44				
10	QPSK	50	0	17.78	17.84	17.81	19	5		
10	QPSK	100	1	17.82	17.59	17.62				
10	QPSK	100	1	17.82	17.83	17.76	19	5		
10	QPSK	100	24	17.82	17.72	17.61				
10	QPSK	100	25	17.82	17.72	17.61	19	5		
10	QPSK	100	50	17.70	17.58	17.50				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.75	22.71	22.71	24	0		
5	QPSK	1	12	22.49	22.64	22.57				
5	QPSK	1	24	22.41	22.63	22.60				
5	QPSK	1	24	21.69	21.80	21.70				
5	QPSK	12	7	21.71	21.72	21.59	23	1		
5	QPSK	12	13	21.74	21.64	21.63				
5	QPSK	1	0	21.73	21.79	21.66	23	1		
5	QPSK	1	0	21.79	21.76	21.62				
5	QPSK	100	1	21.82	21.68	21.57	23	1		
5	QPSK	100	1	21.67	21.64	21.63				
5	QPSK	100	12	20.81	20.76	20.67	22	2		
5	QPSK	100	13	20.83	20.82	20.66				
5	QPSK	100	25	20.91	20.90	20.80	22	2		
5	QPSK	100	1	20.62	20.62	20.62	22	2		
5	QPSK	100	1	20.65	20.78	20.70				
5	QPSK	100	12	20.68	20.63	20.60	22	2		
5	QPSK	100	12	19.87	19.70	19.71	21	3		
5	QPSK	100	12	19.89	19.76	19.70				
5	QPSK	100	26	19.83	19.83	19.69	19	5		
5	QPSK	100	0	17.84	17.83	17.81				
5	QPSK	100	1	17.82	17.84	17.50	19	5		
5	QPSK	100	1	17.82	17.80	17.50				
5	QPSK	100	12	17.84	17.82	17.52				
5	QPSK	100	12	17.86	17.73	17.54	19	5		
5	QPSK	100	13	17.82	17.83	17.60				
5	QPSK	100	25	17.81	17.45	17.81				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.77	22.67	22.70	24	0		
3	QPSK	1	8	22.65	22.56	22.58				
3	QPSK	1	14	22.41	22.67	22.60				
3	QPSK	1	14	21.81	21.81	21.70				
3	QPSK	8	4	21.70	21.82	21.50	23	1		
3	QPSK	8	7	21.70	21.74	21.66				
3	QPSK	15	0	21.79	21.74	21.62	23	1		
3	QPSK	15	0	21.67	21.75	21.65				
3	QPSK	100	1	21.67	21.67	21.67	23	1		
3	QPSK	100	14	21.83	21.69	21.61				
3	QPSK	100	8	20.76	20.74	20.65	22	2		
3	QPSK	100	8	20.72	20.83	20.66				
3	QPSK	100	7	20.88	20.55	20.70	22	2		
3	QPSK	100	15	20.92	20.93	20.50				
3	QPSK	100	1	20.66	20.60	20.60	22	2		
3	QPSK	100	1	20.62	20.62	20.74				
3	QPSK	100	14	20.66	20.67	20.67	22	2		
3	QPSK	100	0	19.85	19.74	19.88	21	3		
3	QPSK	100	4	19.80	19.82	19.70				
3	QPSK	100	6	19.86	19.83	19.73				
3	QPSK	100	0	19.80	19.48	19.53	19	5		
3	QPSK	100	1	17.71	17.85	17.72				
3	QPSK	100	1	17.79	17.87	17.59	19	5		
3	QPSK	100	8	17.82	17.80	17.50				
3	QPSK	100	8	17.86	17.79	17.64	19	5		
3	QPSK	100	13	17.82	17.82	17.60				
3	QPSK	10								



Band 4 Ant 4 Full power										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.05	23.06	23.02			24	0
20	QPSK	1	49	22.91	22.85	22.92				
20	QPSK	1	99	22.83	22.78	22.72				
20	QPSK	50	0	21.84	21.84	21.86			23	1
20	QPSK	24	0	21.84	21.83	21.81				
20	QPSK	50	50	21.84	21.88	21.81				
20	QPSK	100	0	21.87	21.88	21.85				
20	HQAM	1	0	21.75	21.87	21.89			23	1
20	HQAM	1	49	21.49	21.78	21.58				
20	HQAM	1	99	21.76	21.85	21.64				
20	HQAM	50	0	20.99	20.98	20.92			22	2
20	HQAM	50	24	20.77	21.04	20.82				
20	HQAM	50	50	20.92	20.90	20.85				
20	HQAM	100	0	21.05	21.09	21.02				
20	HQAM	1	0	20.83	20.86	20.70			22	2
20	HQAM	1	49	20.56	20.73	20.67				
20	HQAM	1	99	20.74	20.88	20.58				
20	HQAM	50	24	19.84	19.79	20.76			21	3
20	HQAM	50	50	19.89	19.74	19.75				
20	HQAM	100	0	19.80	19.97	19.59				
20	ZSSBAM	1	0	17.85	18.02	17.89			19	5
20	ZSSBAM	1	49	17.82	17.78	17.88				
20	ZSSBAM	1	99	17.88	18.00	17.58				
20	ZSSBAM	50	24	17.82	17.88	17.93			19	5
20	ZSSBAM	50	50	17.90	17.74	18.02				
20	ZSSBAM	100	0	17.73	17.58	17.72				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.82	22.93	22.73			24	0
15	QPSK	1	37	22.75	22.86	22.86				
15	QPSK	1	74	22.86	22.59	22.81				
15	QPSK	36	0	21.62	21.89	21.81			23	1
15	QPSK	20	0	21.66	21.77	21.67				
15	QPSK	36	36	21.52	21.71	21.55				
15	HQAM	1	0	21.48	21.77	21.64			23	1
15	HQAM	1	37	21.29	21.58	21.73				
15	HQAM	1	74	21.42	21.58	21.48				
15	HQAM	36	0	20.86	20.81	20.69			22	2
15	HQAM	36	20	20.57	20.81	20.63				
15	HQAM	75	0	20.91	20.88	20.72				
15	HQAM	1	0	20.70	20.82	20.55			22	2
15	HQAM	1	37	20.20	20.48	20.58				
15	HQAM	1	74	20.51	20.40	20.25				
15	HQAM	36	0	19.74	19.92	19.78			21	3
15	HQAM	36	20	19.84	19.87	19.88				
15	HQAM	36	36	19.55	19.72	19.57				
15	HQAM	75	0	19.87	19.81	19.76				
15	ZSSBAM	1	0	17.78	17.81	17.73			19	5
15	ZSSBAM	1	37	17.42	17.58	17.62				
15	ZSSBAM	1	74	17.67	17.73	17.47				
15	ZSSBAM	36	0	17.65	17.80	17.63			19	5
15	ZSSBAM	36	20	17.73	17.68	17.58				
15	ZSSBAM	36	36	17.65	17.54	17.70			19	5
15	ZSSBAM	75	0	17.60	17.52	17.68				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.73	22.94	22.74			24	0
10	QPSK	1	25	22.67	22.70	22.78				
10	QPSK	1	49	22.71	22.60	22.57				
10	QPSK	25	0	21.66	21.96	21.63			23	1
10	QPSK	25	12	21.51	21.69	21.78				
10	QPSK	25	25	21.62	21.68	21.67				
10	HQAM	1	0	21.52	21.76	21.58			23	1
10	HQAM	1	25	21.39	21.56	21.68				
10	HQAM	1	49	21.68	21.39	21.68				
10	HQAM	25	0	20.68	20.82	20.78			22	2
10	HQAM	25	12	20.53	20.80	20.72				
10	HQAM	25	25	20.68	20.82	20.82				
10	HQAM	50	0	20.89	20.79	20.73				
10	HQAM	1	0	20.76	20.85	20.83			22	2
10	HQAM	1	25	20.35	20.42	20.43				
10	HQAM	1	49	20.41	20.41	20.37				
10	HQAM	25	0	19.74	19.84	19.74			21	3
10	HQAM	25	12	19.80	19.85	19.78				
10	HQAM	25	25	19.82	19.70	19.47				
10	HQAM	50	0	19.83	19.90	19.82				
10	ZSSBAM	1	0	17.63	17.63	17.63			19	5
10	ZSSBAM	1	25	17.47	17.63	17.78				
10	ZSSBAM	1	49	17.67	17.76	17.58				
10	ZSSBAM	25	0	17.63	17.78	17.63			19	5
10	ZSSBAM	25	12	17.68	17.66	17.73				
10	ZSSBAM	25	25	17.67	17.49	17.80				
10	ZSSBAM	50	0	17.48	17.31	17.32				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.73	22.94	22.74			24	0
5	QPSK	1	12	22.65	22.71	22.67				
5	QPSK	1	24	22.67	22.71	22.63				
5	QPSK	12	0	21.67	21.85	21.63			23	1
5	QPSK	12	7	21.51	21.64	21.67				
5	QPSK	12	13	21.51	21.73	21.64				
5	HQAM	1	0	21.45	21.70	21.73			23	1
5	HQAM	1	12	21.36	21.52	21.76				
5	HQAM	1	24	21.44	21.38	21.68				
5	HQAM	12	0	20.76	20.70	20.73			22	2
5	HQAM	12	7	20.47	20.77	20.65				
5	HQAM	12	13	20.63	20.72	20.68				
5	HQAM	25	0	20.83	20.81	20.84				
5	HQAM	1	0	20.68	20.57	20.65			22	2
5	HQAM	1	12	20.41	20.48	20.67				
5	HQAM	1	24	20.81	20.46	20.28				
5	HQAM	12	0	19.76	19.80	19.76			21	3
5	HQAM	12	7	19.60	19.65	19.69				
5	HQAM	12	13	19.51	19.74	19.58				
5	HQAM	25	0	19.74	19.82	19.86				
5	ZSSBAM	1	0	17.61	17.62	17.58			19	5
5	ZSSBAM	1	12	17.54	17.65	17.80				
5	ZSSBAM	1	24	17.49	17.70	17.46				
5	ZSSBAM	12	0	17.79	17.72	17.86			19	5
5	ZSSBAM	12	7	17.61	17.58	17.73				
5	ZSSBAM	12	13	17.64	17.58	17.81				
5	ZSSBAM	25	0	17.59	17.31	17.30				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.81	22.93	22.81			24	0
3	QPSK	1	8	22.69	22.69	22.74				
3	QPSK	1	14	22.65	22.70	22.62				
3	QPSK	1	21	21.77	21.85	21.63			23	1
3	QPSK	8	4	21.59	21.72	21.65				
3	QPSK	8	7	21.57	21.73	21.61				
3	QPSK	15	0	21.67	21.77	21.69				
3	HQAM	1	0	21.60	21.76	21.68			23	1
3	HQAM	1	8	21.32	21.45	21.72				
3	HQAM	1	14	21.56	21.44	21.34				
3	HQAM	8	0	20.69	20.74	20.81			22	2
3	HQAM	8	4	20.47	20.77	20.67				
3	HQAM	8	7	20.68	20.74	20.83				
3	HQAM	15	0	20.84	20.83	20.75				
3	HQAM	1	0	20.66	20.52	20.63			22	2
3	HQAM	1	8	20.39	20.44	20.63				
3	HQAM	1	14	20.51	20.46	20.28				
3	HQAM	8	0	19.80	19.89	19.74			21	3
3	HQAM	8	4	19.83	19.87	19.85				
3	HQAM	8	7	19.51	19.79	19.50				
3	ZSSBAM	1	0	17.76	17.88	17.83			19	5
3	ZSSBAM	1	8	17.52	17.67	17.89				
3	ZSSBAM	1	14	17.70	17.67	17.46				
3	ZSSBAM	8	0	17						



Reduced Power Mode for Other PA DSI2

Band 2 Ant 0 DSI2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mids Ch. Freq.	Power High Ch. Freq.	Turn-up time (dBm)	MPR (dB)		
Channel										
20	QPSK	1	0	2273	2279	2281	23	0		
20	QPSK	1	49	2277	2281	2284	24	0		
20	QPSK	1	99	2280	2288	2296				
20	QPSK	50	0	2124	2185	2195	23	1		
20	QPSK	50	24	2129	2185	2195				
20	QPSK	50	49	2134	2173	2177				
20	QPSK	100	0	2129	2177	2178				
20	HQAM	1	0	2171	2174	2172	23	1		
20	HQAM	1	49	2175	2171	2168				
20	HQAM	50	0	2083	2089	2078				
20	HQAM	50	24	2083	2078	2076				
20	HQAM	50	49	2089	2069	2061	22	2		
20	HQAM	100	0	2083	2089	2087				
20	HQAM	100	49	2071	2079	2076	22	2		
20	HQAM	1	99	2084	2071	2074				
20	HQAM	100	0	1987	1987	1992				
20	HQAM	50	24	1951	1984	1976	21	3		
20	HQAM	50	50	1981	1978	1985				
20	HQAM	100	0	1981	1982	1985				
20	HQAM	1	99	1781	1791	1770				
20	256QAM	1	49	1780	1778	1788	19	5		
20	256QAM	50	0	1788	1780	1773				
20	256QAM	50	24	1782	1789	1786	19	5		
20	256QAM	50	49	1782	1782	1783				
20	256QAM	100	0	1783	1782	1783				
Channel										
15	QPSK	1	0	2275	2271	2268				
15	QPSK	1	37	2281	2287	2249	24	0		
15	QPSK	1	74	2285	2287	2281				
15	QPSK	36	0	2187	2179	2177				
15	QPSK	36	20	2171	2187	2152	23	1		
15	QPSK	36	40	2185	2188	2188				
15	QPSK	75	0	2170	2169	2171				
15	HQAM	1	0	2174	2159	2161	23	1		
15	HQAM	1	36	2185	2182	2181				
15	HQAM	1	74	2158	2152	2151				
15	HQAM	36	0	2071	2073	2069				
15	HQAM	36	18	2072	2073	2068				
15	HQAM	36	36	2054	2050	2071	22	2		
15	HQAM	75	0	2077	2083	2082				
15	HQAM	75	18	2083	2083	2083				
15	HQAM	1	37	2058	2059	2082	22	2		
15	HQAM	1	74	2058	2058	2072				
15	HQAM	36	0	1974	1983	1986	21	3		
15	HQAM	36	36	1978	1971	1986				
15	HQAM	75	0	1985	1988	1986				
15	256QAM	1	0	1778	1783	1776				
15	256QAM	1	37	1787	1772	1784	19	5		
15	256QAM	1	74	1782	1783	1782				
15	256QAM	36	0	1781	1783	1782				
15	256QAM	36	20	1787	1772	1780	19	5		
15	256QAM	36	36	1788	1788	1789				
15	256QAM	75	0	1770	1784	1778				
Channel										
10	QPSK	1	0	2260	2260	2262				
10	QPSK	1	25	2281	2282	2282	24	0		
10	QPSK	1	49	2285	2283	2284				
10	QPSK	25	0	2170	2176	2170				
10	QPSK	25	12	2170	2183	2156	23	1		
10	QPSK	50	0	2177	2160	2168				
10	HQAM	1	0	2171	2164	2169	23	1		
10	HQAM	1	25	2180	2170	2167				
10	HQAM	1	49	2178	2185	2166				
10	HQAM	25	0	2069	2078	2063				
10	HQAM	25	12	2082	2081	2077	22	2		
10	HQAM	50	0	2089	2088	2045				
10	HQAM	50	12	2087	2080	2079				
10	HQAM	1	25	2081	2084	2080	22	2		
10	HQAM	1	49	2086	2083	2084				
10	HQAM	1	74	2048	2027	2031	22	2		
10	HQAM	1	99	2082	2082	2082				
10	HQAM	25	0	2089	2089	2089				
10	HQAM	25	12	2085	2082	2080				
10	HQAM	25	25	2081	2081	2088				
10	HQAM	50	0	2081	2074	2084				
10	HQAM	50	12	2082	2079	2082				
10	HQAM	50	25	2081	2081	2088				
10	HQAM	1	25	2048	2027	2031	22	2		
10	HQAM	1	49	2082	2082	2082				
10	HQAM	1	74	2082	2082	2082				
10	HQAM	1	99	2082	2082	2082				
10	HQAM	25	0	1989	1988	1973	21	3		
10	HQAM	25	12	1989	1988	1973				
10	HQAM	25	25	1989	1988	1973				
10	HQAM	50	0	1789	1770	1770	19	5		
10	HQAM	50	12	1789	1788	1784				
10	HQAM	50	25	1771	1788	1785				
10	HQAM	50	49	1789	1788	1784	19	5		
10	HQAM	100	0	1789	1788	1784				
10	HQAM	100	49	1789	1788	1784	19	5		
10	256QAM	1	0	1789	1788	1784				
10	256QAM	1	25	1789	1788	1784	19	5		
10	256QAM	1	49	1789	1788	1784				
10	256QAM	25	0	1789	1788	1784	19	5		
10	256QAM	25	12	1781	1748	1748				
10	256QAM	25	25	1781	1748	1748				
10	256QAM	50	0	1739	1751	1749	19	5		
Channel										
5	QPSK	1	0	2283	2278	2273				
5	QPSK	1	12	2288	2284	2287	24	0		
5	QPSK	5	0	2289	2289	2284				
5	QPSK	12	0	2187	2186	2170				
5	QPSK	12	7	2182	2171	2187	23	1		
5	QPSK	12	13	2184	2182	2180				
5	QPSK	25	0	2180	2173	2180				
5	HQAM	1	0	2180	2147	2181	23	1		
5	HQAM	1	12	2183	2143	2141				
5	HQAM	1	24	2143	2151	2141				
5	HQAM	12	0	2057	2082	2088				
5	HQAM	12	13	2079	2086	2084	22	2		
5	HQAM	25	0	2082	2079	2088				
5	HQAM	25	12	2081	2088	2088				
5	HQAM	25	25	2081	2088	2088				
5	HQAM	1	12	2054	2036	2034	22	2		
5	HQAM	1	24	2082	2082	2082				
5	HQAM	12	0	1983	1985	1973	21	3		
5	HQAM	12	7	1987	1973	1982				
5	HQAM	12	13	1987	1982	1982				
5	HQAM	25	0	1949	1986	1956				
5	256QAM	1	0	1788	1773	1773	19	5		
5	256QAM	1	12	1778	1786	1786				
5	256QAM	1	24	1780	1770	1749				
5	256QAM	12	0	1783	1786	1782	19	5		
5	256QAM	12	13	1782	1783	1783				
5	256QAM	12	13	1742	1741	1741	19	5		
5	256QAM	25	0	1740	1782	1782				
Channel										
3	QPSK	1	0	2273	2276	2270				
3	QPSK	1	8	2287	2287	2270	24	0		
3	QPSK	1	14	2241	2287	2287				
3	QPSK	8	0	2181	2181	2188				
3	QPSK	8	4	2175	2182	2180	23	1		
3	QPSK	15	0	2175	2180	2188				
3	QPSK	15	0	2170	2174	2185				
3	HQAM	1	0	2181	2171	2181	23	1		
3	HQAM	1	14	2183	2159	2151				
3	HQAM	8	0	2072	2083	2084	22	2		
3										



Band 4 Ant 4 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up (dB)	MPE (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	19.44	19.58	19.51	20.6	0	
20	QPSK	1	49	19.52	19.52	19.52			
20	QPSK	1	99	19.62	19.56	19.51			
20	QPSK	50	0	19.40	19.50	19.21			
20	QPSK	50	24	19.49	19.50	19.26			
20	QPSK	50	50	19.40	19.50	19.24			
20	QPSK	100	0	19.41	19.54	19.50			
20	HQAM	1	0	19.24	19.53	19.52			
20	HQAM	1	49	19.46	19.52	19.54			
20	HQAM	1	99	19.36	19.48	19.20			
20	HQAM	50	0	19.20	19.39	19.42			
20	HQAM	50	24	19.29	19.55	19.53			
20	HQAM	50	50	19.43	19.42	19.21			
20	HQAM	100	0	19.21	19.51	19.51			
20	HQAM	1	0	19.43	19.51	19.34			
20	HQAM	1	49	19.43	19.50	19.50			
20	HQAM	1	99	19.37	19.49	19.20			
20	HQAM	50	0	19.44	19.53	19.52			
20	HQAM	50	24	19.46	19.54	19.51			
20	HQAM	50	50	19.38	19.52	19.31			
20	ZSSBAM	100	0	17.66	18.02	17.69			
20	ZSSBAM	1	49	17.82	17.76	17.98			19 1.6
20	ZSSBAM	1	99	17.88	18.00	17.58			
20	ZSSBAM	50	0	17.82	17.99	18.02			
20	ZSSBAM	50	24	17.82	17.88	17.93			19 1.6
20	ZSSBAM	50	50	17.90	17.74	18.02			
20	ZSSBAM	100	0	17.70	17.58	17.71			
Channel									
Frequency (MHz)									
16	QPSK	1	0	19.35	19.48	19.27			
16	QPSK	1	37	19.23	19.43	19.26			20.6 0
16	QPSK	1	74	19.46	19.52	19.38			
16	QPSK	36	0	19.27	19.42	19.15			
16	QPSK	36	20	19.35	19.38	19.47			20.6 0
16	QPSK	36	36	19.27	19.32	19.16			
16	HQAM	1	0	19.42	19.47	19.42			
16	HQAM	1	74	17.67	18.31	18.19			20.6 0
16	HQAM	1	37	19.34	19.37	19.48			
16	HQAM	36	0	19.17	19.30	19.31			
16	HQAM	36	20	19.35	19.48	19.38			20.6 0
16	HQAM	36	36	19.27	19.42	19.26			
16	HQAM	75	0	19.36	19.40	19.41			
16	HQAM	1	0	19.26	19.41	19.27			20.6 0
16	HQAM	1	37	19.25	19.51	19.20			
16	HQAM	1	74	19.21	19.40	19.15			
16	HQAM	36	0	19.29	19.45	19.44			
16	HQAM	36	20	19.31	19.40	19.38			
16	HQAM	36	36	19.22	19.43	19.17			20.6 0
16	HQAM	75	0	19.12	19.21	19.27			
16	ZSSBAM	1	0	17.26	17.81	17.71			
16	ZSSBAM	1	37	17.42	17.28	17.52			19 1.6
16	ZSSBAM	1	74	17.67	17.73	17.47			
16	ZSSBAM	36	0	17.46	17.63	17.51			
16	ZSSBAM	36	20	17.73	17.68	17.58			19 1.6
16	ZSSBAM	36	36	17.65	17.54	17.70			
16	ZSSBAM	75	0	17.40	17.32	17.28			
Channel									
Frequency (MHz)									
10	QPSK	1	0	19.30	19.49	19.20			
10	QPSK	1	25	19.25	19.34	19.24			20.6 0
10	QPSK	1	49	19.41	19.49	19.35			
10	QPSK	25	0	19.26	19.32	19.20			
10	QPSK	25	12	19.38	19.38	19.47			20.6 0
10	QPSK	25	25	19.29	19.39	19.15			
10	HQAM	1	0	19.28	19.43	19.20			
10	HQAM	1	25	19.34	19.35	19.48			20.6 0
10	HQAM	1	49	19.28	19.28	19.20			
10	HQAM	25	0	19.20	19.25	19.34			
10	HQAM	25	12	19.36	19.43	19.46			20.6 0
10	HQAM	25	25	19.32	19.32	19.26			
10	HQAM	50	0	19.35	19.42	19.38			
10	HQAM	1	0	19.25	19.37	19.19			20.6 0
10	HQAM	1	25	19.32	19.46	19.32			
10	HQAM	1	49	19.29	19.37	19.15			
10	HQAM	25	0	19.38	19.42	19.25			20.6 0
10	HQAM	25	12	19.35	19.37	19.25			
10	HQAM	25	25	19.22	19.37	19.14			
10	HQAM	50	0	19.06	19.19	19.20			
10	ZSSBAM	1	0	17.63	17.63	17.54			
10	ZSSBAM	1	25	17.47	17.63	17.78			19 1.6
10	ZSSBAM	1	49	17.67	17.76	17.58			
10	ZSSBAM	25	0	17.63	17.78	17.71			
10	ZSSBAM	25	12	17.66	17.66	17.73			19 1.6
10	ZSSBAM	25	25	17.67	17.49	17.80			
10	ZSSBAM	50	0	17.46	17.31	17.32			
Channel									
Frequency (MHz)									
5	QPSK	1	0	19.31	19.53	19.34			
5	QPSK	1	12	19.23	19.37	19.19			20.6 0
5	QPSK	1	24	19.39	19.50	19.36			
5	QPSK	12	0	19.29	19.36	19.20			
5	QPSK	12	7	19.41	19.37	19.47			20.6 0
5	QPSK	12	13	19.28	19.35	19.16			
5	HQAM	1	0	19.26	19.38	19.26			
5	HQAM	1	0	19.17	19.39	19.15			
5	HQAM	1	12	19.39	19.37	19.42			20.6 0
5	HQAM	1	24	19.23	19.29	19.25			
5	HQAM	12	0	19.21	19.21	19.27			
5	HQAM	12	7	19.36	19.39	19.30			20.6 0
5	HQAM	12	13	19.32	19.32	19.16			
5	HQAM	25	0	19.36	19.41	19.35			
5	HQAM	1	0	19.29	19.42	19.24			20.6 0
5	HQAM	1	12	19.28	19.48	19.42			
5	HQAM	1	24	19.31	19.31	19.21			
5	HQAM	12	0	19.30	19.41	19.26			20.6 0
5	HQAM	12	7	19.24	19.37	19.42			
5	HQAM	12	13	19.22	19.41	19.22			
5	HQAM	25	0	19.07	19.27	19.22			
5	ZSSBAM	1	0	17.61	17.62	17.58			
5	ZSSBAM	1	12	17.54	17.76	17.80			19 1.6
5	ZSSBAM	1	24	17.49	17.70	17.46			
5	ZSSBAM	12	0	17.79	17.72	17.86			
5	ZSSBAM	12	7	17.61	17.58	17.71			19 1.6
5	ZSSBAM	12	13	17.64	17.58	17.63			
5	ZSSBAM	25	0	17.59	17.31	17.30			
Channel									
Frequency (MHz)									
3	QPSK	1	0	19.33	19.47	19.41			
3	QPSK	1	8	19.26	19.33	19.24			20.6 0
3	QPSK	1	14	19.43	19.49	19.36			
3	QPSK	8	0	19.31	19.42	19.16			
3	QPSK	8	4	19.46	19.43	19.45			20.6 0
3	QPSK	8	7	19.23	19.37	19.11			
3	HQAM	1	0	19.24	19.46	19.25			
3	HQAM	1	0	19.25	19.42	19.17			
3	HQAM	1	8	19.36	19.41	19.28			20.6 0
3	HQAM	1	14	19.29	19.36	19.16			
3	HQAM	8	0	19.16	19.26	19.33			
3	HQAM	8	4	19.41	19.47	19.41			20.6 0
3	HQAM	8	7	19.27	19.31	19.17			
3	HQAM	16	0	19.34	19.38	19.34			
3	HQAM	1	0	19.25	19.44	19.24			20.6 0
3	HQAM	1	8	19.33	19.39	19.40			
3	HQAM	1	14	19.30	19.31	19.19			
3	HQAM	8	0	19.20	19.42	19.30			20.6 0
3	HQAM	8	4	19.30	19.39	19.36			
3	HQAM	8	7	19.24	19.45	19.23			
3	ZSSBAM	16	0	17.76	17.88	17.83			
3	ZSSBAM	1	8	17.52	17.67	17.89			19 1.6
3	ZSSBAM	1	14	17.70	17.67	17.46			
3	ZSSBAM	8	0	17.66	17.71	17.72			
3	ZSSBAM	8	4	17.70	17.58	17.78			19 1.6
3	ZSSBAM	8	7	17.63	17.49	17.71			
3	ZSSBAM	16	0	17.53	17.34	17.36			
Channel									
Frequency (MHz)									



Band 2 Ant 0 DS13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. (MHz)	Power High Ch./Freq. (MHz)	Turn-up (dB)	MPE (dB)			
Channel										
Frequency (MHz)										
20	QPSK	1	0	19.43	19.46	19.43	20.5	0		
20	QPSK	1	99	19.36	19.33	19.33				
20	QPSK	50	24	19.29	19.42	19.42				
20	QPSK	50	24	19.24	19.21	19.13				
20	QPSK	50	50	19.25	19.19	19.29	20.5	0		
20	QPSK	100	0	19.23	19.15	19.15				
20	HQAM	1	0	19.26	19.31	19.23				
20	HQAM	1	49	19.17	19.19	19.15	20.5	0		
20	HQAM	50	24	19.24	19.31	19.31				
20	HQAM	50	0	19.09	19.30	19.10				
20	HQAM	50	24	19.10	19.11	19.00	20.5	0		
20	HQAM	100	0	19.16	19.02	19.16				
20	HQAM	100	0	19.15	19.13	19.12				
20	HQAM	1	0	19.33	19.35	19.24				
20	HQAM	1	49	19.22	19.17	19.08	20.5	0		
20	HQAM	1	99	19.21	19.16	19.21				
20	HQAM	50	0	19.18	19.27	19.13				
20	HQAM	50	50	19.03	19.02	19.14	20.5	0		
20	HQAM	100	0	19.21	19.19	19.15				
20	HQAM	100	0	19.21	19.19	19.15				
20	256QAM	1	49	17.81	17.87	17.81	19	1.5		
20	256QAM	1	99	17.90	17.83	17.78				
20	256QAM	50	24	17.78	17.69	17.65				
20	256QAM	50	24	17.78	17.69	17.65	19	1.5		
20	256QAM	50	50	17.80	17.85	17.80				
20	256QAM	100	0	17.74	17.82	17.82				
Channel										
Frequency (MHz)										
16	QPSK	1	0	19.23	19.27	19.23	20.5	0		
16	QPSK	1	37	19.20	19.23	19.14				
16	QPSK	1	74	19.20	19.23	19.28				
16	QPSK	1	111	19.20	19.23	19.28				
16	QPSK	36	20	19.20	19.07	19.05	20.5	0		
16	QPSK	36	36	19.18	19.13	19.20				
16	QPSK	1	0	19.20	19.27	19.20				
16	HQAM	1	0	19.17	19.18	19.14				
16	HQAM	1	37	19.03	19.04	19.09	20.5	0		
16	HQAM	1	74	19.03	19.04	19.09				
16	HQAM	36	0	18.94	19.15	19.04				
16	HQAM	36	20	19.00	19.08	19.08	20.5	0		
16	HQAM	36	20	19.00	19.00	19.06				
16	HQAM	75	0	19.10	19.09	19.06				
16	HQAM	1	0	19.20	19.30	19.13				
16	HQAM	1	37	19.16	19.02	19.06	20.5	0		
16	HQAM	1	74	19.16	19.02	19.06				
16	HQAM	36	0	19.05	19.20	19.02				
16	HQAM	36	20	19.05	19.06	19.02	20.5	0		
16	HQAM	36	36	18.93	18.92	19.01				
16	HQAM	75	0	19.09	19.09	19.11				
16	HQAM	75	0	17.75	17.83	17.83	19	1.5		
16	256QAM	1	37	17.71	17.78	17.78				
16	256QAM	1	74	17.75	17.69	17.71				
16	256QAM	50	20	17.76	17.76	17.64				
16	256QAM	36	20	17.67	17.57	17.55	19	1.5		
16	256QAM	36	36	17.66	17.51	17.54				
16	256QAM	50	0	17.75	17.67	17.61				
Channel										
Frequency (MHz)										
10	QPSK	1	0	19.20	19.26	19.16	20.5	0		
10	QPSK	1	25	19.20	19.28	19.16				
10	QPSK	1	49	19.19	19.24	19.18				
10	QPSK	1	73	19.14	19.36	19.18				
10	QPSK	26	12	19.15	19.17	19.03	20.5	0		
10	QPSK	26	25	19.15	19.09	19.11				
10	QPSK	1	0	19.13	19.20	19.10				
10	HQAM	1	0	19.13	19.19	19.10				
10	HQAM	1	25	19.11	19.06	19.06	20.5	0		
10	HQAM	1	49	19.09	19.10	19.06				
10	HQAM	26	0	18.99	19.16	19.01				
10	HQAM	26	12	18.99	18.01	18.95	20.5	0		
10	HQAM	26	25	19.12	19.07	19.10				
10	HQAM	50	0	19.12	19.01	19.00				
10	HQAM	1	0	19.10	19.24	19.10	20.5	0		
10	HQAM	1	25	19.13	19.05	19.01				
10	HQAM	1	49	19.09	19.07	19.16				
10	HQAM	26	0	19.12	19.16	19.01	20.5	0		
10	HQAM	26	12	18.96	18.95	19.01				
10	HQAM	26	25	19.00	19.00	19.05				
10	HQAM	50	0	19.05	19.09	19.01				
10	256QAM	1	25	17.75	17.73	17.72	19	1.5		
10	256QAM	1	49	17.79	17.75	17.64				
10	256QAM	50	0	17.68	17.75	17.64				
10	256QAM	26	12	17.67	17.59	17.59	19	1.5		
10	256QAM	26	25	17.72	17.67	17.61				
10	256QAM	50	0	17.81	17.68	17.65				
Channel										
Frequency (MHz)										
5	QPSK	1	0	19.24	19.31	19.23	20.5	0		
5	QPSK	1	12	19.24	19.20	19.23				
5	QPSK	1	24	19.27	19.19	19.24				
5	QPSK	1	36	19.12	19.30	19.23				
5	QPSK	12	7	19.11	19.10	19.07	20.5	0		
5	QPSK	12	13	19.11	19.14	19.22				
5	QPSK	1	0	19.23	19.21	19.26				
5	HQAM	1	0	19.15	19.22	19.12				
5	HQAM	1	12	19.07	19.05	19.01	20.5	0		
5	HQAM	1	24	19.13	19.02	19.10				
5	HQAM	12	0	18.99	19.19	19.01				
5	HQAM	12	7	19.00	19.04	19.01	20.5	0		
5	HQAM	26	0	19.02	19.21	19.05				
5	HQAM	26	13	19.01	19.02	19.10				
5	HQAM	12	0	19.12	19.07	19.07				
5	HQAM	1	0	19.13	19.23	19.10	20.5	0		
5	HQAM	1	12	19.13	19.03	19.03				
5	HQAM	1	24	19.06	19.10	19.14				
5	HQAM	12	0	19.03	19.15	19.03	20.5	0		
5	HQAM	12	7	18.99	18.92	18.98				
5	HQAM	12	13	19.00	18.97	19.01				
5	HQAM	26	0	19.02	19.03	19.06				
5	256QAM	1	0	17.85	17.97	17.75	19	1.5		
5	256QAM	1	12	17.87	17.81	17.86				
5	256QAM	12	0	17.85	17.79	17.80				
5	256QAM	12	7	17.78	17.76	17.74				
5	256QAM	12	13	17.71	17.68	17.64	19	1.5		
5	256QAM	26	0	17.81	17.73	17.67				
Channel										
Frequency (MHz)										
3	QPSK	1	0	19.37	19.35	19.25	20.5	0		
3	QPSK	1	8	19.27	19.20	19.17				
3	QPSK	1	16	19.20	19.19	19.10				
3	QPSK	1	24	19.13	19.27	19.14				
3	QPSK	8	4	19.20	19.16	19.20	20.5	0		
3	QPSK	15	0	19.19	19.25	19.11				
3	HQAM	1	0	19.19	19.16	19.12				
3	HQAM	1	8	19.21	19.20	19.06	20.5	0		
3	HQAM	1	14	19.18	19.06	19.05				
3	HQAM	8	0	18.98	19.17	19.00				
3	HQAM	8	4	19.01	19.00	19.06	20.5	0		
3	HQAM	15	0	19.07	19.09	19.12				
3	HQAM	15	0	19.02	19.04	19.09				
3	HQAM	1	0	19.23	19.21	19.19				
3	HQAM	1	8	19.10	19.06	19.02	20.5	0		
3	HQAM	1	14	19.11	19.06	19.07				
3	HQAM	8	0	19.07	19.13	19.09				
3	HQAM	8	4	18.98	18.98	18.91	20.5	0		
3	HQAM	8	7	19.03	18.99	19.00				
3	HQAM	15	0	19.05	19.03	19.01				
3	256QAM	1	0	17.85	17.86	17.78	19	1.5		
3	256QAM	1	8	17.89	17.82	17.88			</	



Band 4 Ant 4 DS13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.60	18.61	18.63	10.8	0		
20	QPSK	1	49	18.44	18.47	18.43				
20	QPSK	1	99	18.44	18.58	18.43				
20	QPSK	50	0	18.32	18.54	18.45				
20	QPSK	50	24	18.28	18.38	18.27				
20	QPSK	50	50	18.40	18.39	18.38	10.8	0		
20	QPSK	100	0	18.31	18.58	18.42				
20	HQAM	1	0	18.24	18.49	18.49				
20	HQAM	1	49	18.42	18.42	18.34	10.8	0		
20	HQAM	1	99	18.29	18.43	18.40				
20	HQAM	50	0	18.22	18.40	18.27				
20	HQAM	50	24	18.18	18.23	18.18				
20	HQAM	50	50	18.25	18.33	18.22				
20	HQAM	100	0	18.28	18.33	18.29				
20	HQAM	1	0	18.27	18.40	18.42				
20	HQAM	1	49	18.14	18.27	18.32	10.8	0		
20	HQAM	1	99	18.45	18.43	18.29				
20	HQAM	50	0	18.27	18.36	18.29				
20	HQAM	50	24	18.25	18.47	18.34				
20	HQAM	50	50	18.25	18.27	18.26	10.8	0		
20	HQAM	100	0	18.43	18.48	18.27				
20	ZSSBAM	1	0	17.48	17.54	17.56				
20	ZSSBAM	1	49	17.59	17.47	17.43	10.8	0.8		
20	ZSSBAM	1	99	17.34	17.41	17.44				
20	ZSSBAM	50	0	17.28	17.49	17.42				
20	ZSSBAM	50	24	17.24	17.42	17.22				
20	ZSSBAM	50	50	17.40	17.32	17.34	10.8	0.8		
20	ZSSBAM	100	0	17.42	17.48	17.25				
Channel										
Frequency (MHz)										
16	QPSK	1	0	18.42	18.48	18.45				
16	QPSK	1	37	18.27	18.41	18.34	10.8	0		
16	QPSK	1	74	18.34	18.43	18.31				
16	QPSK	36	0	18.17	18.42	18.27				
16	QPSK	36	20	18.10	18.20	18.20				
16	QPSK	36	36	18.25	18.26	18.28	10.8	0		
16	HQAM	1	0	18.13	18.46	18.40				
16	HQAM	1	74	18.28	18.34	18.40	10.8	0		
16	HQAM	36	0	18.13	18.33	18.17				
16	HQAM	36	20	18.07	18.05	18.00	10.8	0		
16	HQAM	36	36	18.18	18.17	18.22				
16	HQAM	75	0	18.08	18.19	18.22				
16	HQAM	1	0	18.17	18.32	18.28				
16	HQAM	1	37	17.28	18.16	18.22	10.8	0		
16	HQAM	1	74	18.37	18.29	18.15				
16	HQAM	36	0	18.11	18.19	18.20				
16	HQAM	36	20	18.18	18.38	18.25				
16	HQAM	36	36	18.11	18.12	18.15	10.8	0		
16	HQAM	75	0	18.30	18.35	18.21				
16	ZSSBAM	1	0	17.40	17.43	17.44				
16	ZSSBAM	1	37	17.33	17.41	17.38	10.8	0.8		
16	ZSSBAM	1	74	17.21	17.31	17.29				
16	ZSSBAM	36	0	17.34	17.44	17.42				
16	ZSSBAM	36	20	17.39	17.37	17.13				
16	ZSSBAM	36	36	17.36	17.28	17.25	10.8	0.8		
16	ZSSBAM	75	0	17.45	17.40	17.28				
Channel										
Frequency (MHz)										
10	QPSK	1	0	18.37	18.49	18.41				
10	QPSK	1	25	18.35	18.37	18.34	10.8	0		
10	QPSK	1	49	18.30	18.49	18.30				
10	QPSK	25	0	18.38	18.38	18.29				
10	QPSK	25	12	18.09	18.30	18.28				
10	QPSK	25	25	18.22	18.31	18.24	10.8	0		
10	QPSK	50	0	18.24	18.40	18.32				
10	HQAM	1	0	18.27	18.37	18.41				
10	HQAM	1	25	18.29	18.28	18.23	10.8	0		
10	HQAM	1	49	18.03	18.33	18.26				
10	HQAM	25	0	18.11	18.33	18.18				
10	HQAM	25	12	17.69	18.15	17.69	10.8	0		
10	HQAM	25	25	18.18	18.21	18.22				
10	HQAM	50	0	18.09	18.16	18.20				
10	HQAM	1	0	18.20	18.26	18.26	10.8	0		
10	HQAM	1	25	18.07	18.13	18.15				
10	HQAM	1	49	18.31	18.26	18.05				
10	HQAM	25	0	18.19	18.21	18.15				
10	HQAM	25	12	18.25	18.30	18.21	10.8	0		
10	HQAM	25	25	18.12	18.16	18.18				
10	HQAM	50	0	18.34	18.40	18.20				
10	ZSSBAM	1	0	18.17	17.48	17.25				
10	ZSSBAM	1	25	17.21	17.43	17.38	10.8	0.8		
10	ZSSBAM	1	49	17.28	17.27	17.28				
10	ZSSBAM	25	0	17.45	17.33	17.23				
10	ZSSBAM	25	12	17.14	17.35	17.17				
10	ZSSBAM	25	25	17.33	17.21	17.25	10.8	0.8		
10	ZSSBAM	50	0	17.21	17.40	17.23				
Channel										
Frequency (MHz)										
5	QPSK	1	0	18.30	18.45	18.42				
5	QPSK	1	12	18.32	18.37	18.40	10.8	0		
5	QPSK	1	24	18.27	18.46	18.35				
5	QPSK	12	0	18.18	18.45	18.29				
5	QPSK	12	7	18.17	18.27	18.20	10.8	0		
5	QPSK	12	13	18.30	18.28	18.25				
5	QPSK	25	0	18.24	18.44	18.32				
5	HQAM	1	0	18.22	18.35	18.35				
5	HQAM	1	12	18.30	18.30	18.24	10.8	0		
5	HQAM	1	24	18.11	18.27	18.21				
5	HQAM	12	0	18.13	18.30	18.26				
5	HQAM	12	7	17.69	18.15	18.07	10.8	0		
5	HQAM	12	13	18.14	18.19	18.24				
5	HQAM	25	0	18.14	18.25	18.22				
5	HQAM	1	0	18.09	18.33	18.28	10.8	0		
5	HQAM	1	12	17.68	18.14	18.24				
5	HQAM	1	24	18.30	18.28	18.08				
5	HQAM	12	0	18.19	18.21	18.14				
5	HQAM	12	7	18.17	18.39	18.23	10.8	0		
5	HQAM	12	13	18.09	18.12	18.18				
5	HQAM	25	0	18.32	18.36	18.14				
5	ZSSBAM	1	0	17.52	17.49	17.48				
5	ZSSBAM	1	12	17.31	17.43	17.29	10.8	0.8		
5	ZSSBAM	1	24	17.19	17.29	17.24				
5	ZSSBAM	12	0	17.57	17.36	17.39				
5	ZSSBAM	12	7	17.68	17.29	17.09				
5	ZSSBAM	12	13	17.21	17.25	17.28	10.8	0.8		
5	ZSSBAM	25	0	17.52	17.33	17.28				
Channel										
Frequency (MHz)										
3	QPSK	1	0	18.44	18.51	18.38				
3	QPSK	1	8	18.34	18.31	18.38	10.8	0		
3	QPSK	1	14	18.36	18.41	18.26				
3	QPSK	8	0	18.25	18.47	18.35				
3	QPSK	8	4	18.09	18.19	18.25				
3	QPSK	8	7	18.27	18.24	18.20	10.8	0		
3	QPSK	15	0	18.22	18.41	18.29				
3	HQAM	1	0	18.25	18.39	18.32				
3	HQAM	1	8	18.25	18.34	18.17	10.8	0		
3	HQAM	1	14	18.17	18.37	18.27				
3	HQAM	8	0	18.09	18.31	18.11				
3	HQAM	8	4	18.08	18.08	18.02	10.8	0		
3	HQAM	8	7	18.09	18.15	18.06				
3	HQAM	15	0	18.18	18.16	18.23				
3	HQAM	1	0	18.20	18.24	18.24	10.8	0		
3	HQAM	1	8	18.02	18.15	18.17				
3	HQAM	1	14	18.37	18.26	18.11				
3	HQAM	8	0	18.18	18.23	18.21				
3	HQAM	8	4	18.20	18.38					



Reduced Power Mode for Other PA DS16

Band 2 Ant 0 DS16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power Pch./Freq.	Power Pch2./Freq.	Power Pch3./Freq.	Turn-up Unit (dBm)	MPR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	19.95	20.10	19.94		21.1	0
20	QPSK	1	49	19.95	20.10	19.94		21.1	0
20	QPSK	1	99	19.95	20.10	19.94		21.1	0
20	QPSK	50	0	19.84	19.96	19.80		21.1	0
20	QPSK	50	24	19.84	19.96	19.80		21.1	0
20	QPSK	50	49	19.75	19.79	19.84		21.1	0
20	QPSK	100	0	19.81	19.83	19.80		21.1	0
20	QPSK	100	24	19.81	19.83	19.80		21.1	0
20	QPSK	100	49	19.67	19.74	19.82		21.1	0
20	HQAM	1	0	19.95	20.10	19.94		21.1	0
20	HQAM	1	49	19.95	20.10	19.94		21.1	0
20	HQAM	50	24	19.59	19.65	19.70		21.1	0
20	HQAM	50	50	19.67	19.77	19.67		21.1	0
20	HQAM	100	0	19.62	19.70	19.70		21.1	0
20	HQAM	100	24	19.53	19.62	19.68		21.1	0
20	HQAM	100	49	19.59	19.64	19.71		21.1	0
20	HQAM	50	0	19.52	19.60	19.60		21	0.1
20	HQAM	50	24	19.39	19.48	19.56		21	0.1
20	HQAM	50	50	19.46	19.46	19.44		21	0.1
20	HQAM	100	0	19.50	19.58	19.43		19	2.1
20	HQAM	100	24	17.81	17.84	17.90		19	2.1
20	HQAM	100	49	17.72	17.79	17.82		19	2.1
20	HQAM	100	0	17.69	17.83	17.82		19	2.1
20	HQAM	50	0	17.75	17.70	17.70		19	2.1
20	HQAM	50	24	17.77	17.67	17.63		19	2.1
20	HQAM	50	50	17.64	17.75	17.78		19	2.1
20	HQAM	100	0	17.62	17.70	17.67		19	2.1
Channel									
Frequency (MHz)									
15	QPSK	1	0	19.80	19.92	19.88		21.1	0
15	QPSK	1	49	19.80	19.92	19.88		21.1	0
15	QPSK	1	99	19.79	19.82	19.84		21.1	0
15	QPSK	36	0	19.75	19.92	19.70		21.1	0
15	QPSK	36	18	19.77	19.77	19.81		21.1	0
15	QPSK	36	36	19.67	19.68	19.80		21.1	0
15	QPSK	75	0	19.70	19.80	19.73		21.1	0
15	HQAM	1	0	19.72	19.81	19.81		21.1	0
15	HQAM	1	37	19.55	19.60	19.79		21.1	0
15	HQAM	1	74	19.68	19.75	19.87		21.1	0
15	HQAM	36	0	19.52	19.74	19.66		21.1	0
15	HQAM	36	18	19.50	19.50	19.57		21.1	0
15	HQAM	36	36	19.61	19.71	19.84		21.1	0
15	HQAM	75	0	19.52	19.74	19.66		21.1	0
15	HQAM	1	0	19.50	19.58	19.58		21.1	0
15	HQAM	1	37	19.53	19.53	19.53		21.1	0
15	HQAM	1	74	19.53	19.57	19.53		21.1	0
15	HQAM	36	0	19.52	19.54	19.58		21	0.1
15	HQAM	36	18	19.40	19.38	19.41		21	0.1
15	HQAM	36	36	19.39	19.40	19.39		21	0.1
15	HQAM	75	0	19.38	19.46	19.30		21	0.1
15	HQAM	1	0	17.71	17.74	17.80		19	2.1
15	HQAM	1	37	17.61	17.69	17.69		19	2.1
15	HQAM	1	74	17.64	17.77	17.78		19	2.1
15	HQAM	36	0	17.69	17.69	17.69		19	2.1
15	HQAM	36	18	17.53	17.53	17.50		19	2.1
15	HQAM	36	36	17.59	17.67	17.69		19	2.1
15	HQAM	75	0	17.52	17.70	17.62		19	2.1
Channel									
Frequency (MHz)									
10	QPSK	1	0	19.88	19.87	19.85		21.1	0
10	QPSK	1	49	19.77	19.81	19.84		21.1	0
10	QPSK	1	99	19.75	19.76	19.84		21.1	0
10	QPSK	25	0	19.81	19.82	19.81		21.1	0
10	QPSK	25	12	19.61	19.68	19.66		21.1	0
10	QPSK	25	25	19.62	19.70	19.74		21.1	0
10	QPSK	50	0	19.71	19.83	19.71		21.1	0
10	QPSK	50	25	19.72	19.76	19.86		21.1	0
10	QPSK	100	0	19.53	19.66	19.74		21.1	0
10	HQAM	1	0	19.80	19.87	19.84		21.1	0
10	HQAM	1	49	19.68	19.72	19.86		21.1	0
10	HQAM	25	12	19.53	19.62	19.58		21.1	0
10	HQAM	25	25	19.41	19.41	19.51		21.1	0
10	HQAM	50	0	19.45	19.59	19.39		21.1	0
10	HQAM	50	25	19.43	19.50	19.60		21.1	0
10	HQAM	100	0	19.59	19.64	19.55		21.1	0
10	HQAM	100	25	19.41	19.48	19.38		21	0.1
10	HQAM	50	0	19.41	19.48	19.20		21	0.1
10	HQAM	50	25	17.71	17.76	17.74		19	2.1
10	HQAM	50	50	17.58	17.67	17.74		19	2.1
10	HQAM	100	0	17.64	17.68	17.65		19	2.1
10	HQAM	100	25	17.48	17.58	17.51		19	2.1
10	HQAM	25	25	17.59	17.65	17.66		19	2.1
10	HQAM	50	0	17.62	17.65	17.68		19	2.1
Channel									
Frequency (MHz)									
5	QPSK	1	0	19.85	19.86	19.85		21.1	0
5	QPSK	1	12	19.87	19.76	19.81		21.1	0
5	QPSK	1	24	19.81	19.81	19.80		21.1	0
5	QPSK	12	0	19.80	19.88	19.87		21.1	0
5	QPSK	12	6	19.55	19.69	19.69		21.1	0
5	QPSK	12	12	19.65	19.73	19.69		21.1	0
5	QPSK	25	0	19.73	19.81	19.85		21.1	0
5	HQAM	1	0	19.78	19.81	19.85		21.1	0
5	HQAM	1	12	19.53	19.71	19.68		21.1	0
5	HQAM	1	24	19.72	19.76	19.84		21.1	0
5	HQAM	12	0	19.63	19.71	19.72		21.1	0
5	HQAM	12	6	19.54	19.67	19.58		21.1	0
5	HQAM	12	12	19.53	19.60	19.58		21.1	0
5	HQAM	25	0	19.39	19.50	19.41		21.1	0
5	HQAM	25	12	19.48	19.60	19.60		21.1	0
5	HQAM	25	24	19.60	19.58	19.40		21.1	0
5	HQAM	50	0	19.50	19.57	19.43		21	0.1
5	HQAM	50	12	19.27	19.41	19.35		21	0.1
5	HQAM	50	24	19.42	19.43	19.31		21	0.1
5	HQAM	25	0	19.43	19.52	19.38		21	0.1
5	HQAM	25	12	17.52	17.54	17.58		19	2.1
5	HQAM	25	24	17.58	17.67	17.74		19	2.1
5	HQAM	50	0	17.60	17.76	17.75		19	2.1
5	HQAM	50	12	17.71	17.76	17.73		19	2.1
5	HQAM	50	24	17.63	17.79	17.62		19	2.1
5	HQAM	8	0	17.44	17.58	17.58		19	2.1
5	HQAM	8	4	17.50	17.70	17.64		19	2.1
5	HQAM	16	0	17.52	17.75	17.69		19	2.1
Channel									
Frequency (MHz)									
14	QPSK	1	0	19.83	19.82	19.88		21.1	0
14	QPSK	1	3	19.74	19.82	19.73		21.1	0
14	QPSK	1	5	19.78	19.85	19.83		21.1	0
14	QPSK	3	0	19.82	19.86	19.80		21.1	0
14	QPSK	3	1	19.58	19.69	19.61		21.1	0
14	QPSK	3	3	19.71	19.69	19.73		21.1	0
14	QPSK	6	0	19.81	19.81	19.81		21.1	0
14	QPSK	6	3	19.69	19.86	19.86		21.1	0
14	HQAM	1	0	19.95	19.94	19.71		21.1	0
14	HQAM	1	3	19.62	19.75	19.70		21.1	0
14	HQAM	3	0	19.46	19.54	19.66		21.1	0
14	HQAM	3	1	19.61	19.71	19.62		21.1	0
14	HQAM	3	3	19.58	19.69	19.55		21.1	0
14	HQAM	6	0	19.46	19.50	19.38		21.1	0
14	HQAM	6	3	19.55	19.55	19.57		21.1	0
14	HQAM	6	6	19.51	19.51	19.41		21	0.1
14	HQAM	6	3	19.40	19.36	19.33		21	0.1
14	HQAM	15	0	19.45	19.50	19.35		21	0.1
14	HQAM	15	3	17.70	17.81	17.81		19	2.1
14	HQAM	15	6	17.62	17.65	17.77		19	2.1
14	HQAM	15	9	17.63	17.76	17.73		19	2.1

Band 4 Ant 4 DS16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power High Ch. Freq.	Power High Ch. Freq.	Tune-up (MHz)	MFR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	18.08	18.11	18.12	20.3	0	
20	QPSK	1	50	18.86	18.90	18.93			
20	QPSK	50	24	18.95	19.01	19.06			
20	QPSK	50	24	18.96	19.00	19.06	20.3	0	
20	QPSK	50	50	18.72	18.86	18.87			
20	QPSK	1	0	18.84	19.03	19.04			
20	16QAM	1	0	18.81	18.91	18.97	20.3	0	
20	16QAM	1	50	18.79	18.95	18.93			
20	16QAM	50	0	18.92	19.01	19.00			
20	16QAM	50	24	18.77	18.93	18.79	20.3	0	
20	16QAM	50	50	18.79	18.79	18.79			
20	16QAM	100	0	18.79	18.91	18.91			
20	64QAM	1	0	18.97	18.97	18.90	20.3	0	
20	64QAM	1	50	18.84	18.95	18.86			
20	64QAM	50	0	18.77	18.81	18.90			
20	64QAM	50	24	18.68	18.92	18.90	20.3	0	
20	64QAM	50	50	18.78	18.93	18.96			
20	64QAM	100	0	18.93	18.90	18.98			
20	256QAM	1	0	17.66	17.71	17.87	19	1.3	
20	256QAM	1	50	17.46	17.52	17.38			
20	256QAM	50	0	17.50	17.52	17.50			
20	256QAM	50	0	17.68	17.61	17.70			
20	256QAM	50	24	17.47	17.61	17.52	19	1.3	
20	256QAM	50	50	17.44	17.58	17.48			
20	256QAM	100	0	17.63	17.57	17.63			
Channel									
Frequency (MHz)									
15	QPSK	1	0	17.17	17.20	17.21	20.3	0	
15	QPSK	1	50	18.91	19.02	19.06			
15	QPSK	1	74	18.91	19.01	19.01			
15	QPSK	1	74	18.72	18.87	18.86			
15	QPSK	36	0	18.91	19.08	18.82			
15	QPSK	36	20	18.71	18.85	18.76	20.3	0	
15	QPSK	36	39	18.63	18.82	18.77			
15	QPSK	75	0	18.81	18.90	18.91			
15	16QAM	1	0	18.84	18.93	18.96	20.3	0	
15	16QAM	1	37	18.70	18.88	18.86			
15	16QAM	1	74	18.70	18.79	18.77			
15	16QAM	35	0	18.84	18.91	18.94			
15	16QAM	35	20	18.67	18.85	18.72	20.3	0	
15	16QAM	35	39	18.64	18.83	18.80			
15	16QAM	75	0	18.65	18.80	18.78			
15	64QAM	1	0	18.96	18.89	18.78	20.3	0	
15	64QAM	1	74	18.73	18.81	18.68			
15	64QAM	1	74	18.75	18.81	18.68			
15	64QAM	35	0	18.68	18.69	18.76			
15	64QAM	35	20	18.94	18.85	18.82	20.3	0	
15	64QAM	35	39	18.69	18.79	18.85			
15	64QAM	75	0	18.81	18.80	18.77			
15	256QAM	1	0	17.32	17.62	17.44	19	1.3	
15	256QAM	1	37	17.40	17.38	17.24			
15	256QAM	1	74	17.32	17.45	17.45			
15	256QAM	35	0	17.63	17.45	17.41			
15	256QAM	35	20	17.42	17.42	17.31	19	1.3	
15	256QAM	35	39	17.55	17.55	17.55			
15	256QAM	75	0	17.59	17.53	17.58			
Channel									
Frequency (MHz)									
10	QPSK	1	0	18.86	19.05	18.96	20.3	0	
10	QPSK	1	25	18.82	18.97	18.91			
10	QPSK	1	49	18.75	18.85	18.82			
10	QPSK	25	0	18.92	19.01	19.00			
10	QPSK	25	12	18.72	18.86	18.75	20.3	0	
10	QPSK	50	0	18.77	18.89	18.92			
10	16QAM	1	0	18.89	18.93	19.04	20.3	0	
10	16QAM	1	25	18.73	18.84	18.90			
10	16QAM	1	49	18.62	18.85	18.71			
10	16QAM	25	0	18.86	18.84	18.73	20.3	0	
10	16QAM	25	12	18.71	18.81	18.87			
10	16QAM	25	25	18.69	18.70	18.67			
10	16QAM	50	0	18.69	18.83	18.80			
10	64QAM	1	0	18.96	18.84	18.93	20.3	0	
10	64QAM	1	25	18.77	18.83	18.83			
10	64QAM	1	49	18.68	18.81	18.77			
10	64QAM	25	0	18.62	18.63	18.79			
10	64QAM	25	12	18.96	18.84	18.83	20.3	0	
10	64QAM	25	25	18.63	18.84	18.78			
10	64QAM	50	0	18.77	18.77	18.74			
10	256QAM	1	0	17.33	17.48	17.31	19	1.3	
10	256QAM	1	25	17.35	17.38	17.26			
10	256QAM	1	49	17.32	17.46	17.47			
10	256QAM	25	0	17.51	17.51	17.51			
10	256QAM	25	12	17.39	17.41	17.39	19	1.3	
10	256QAM	25	25	17.31	17.49	17.41			
10	256QAM	50	0	17.53	17.43	17.56			
Channel									
Frequency (MHz)									
5	QPSK	1	0	18.97	19.05	19.05	20.3	0	
5	QPSK	1	12	18.83	18.94	18.85			
5	QPSK	1	24	18.76	18.87	18.78			
5	QPSK	12	0	18.96	18.95	18.92			
5	QPSK	12	7	18.80	18.83	18.73	20.3	0	
5	QPSK	12	13	18.58	18.91	18.77			
5	QPSK	25	0	18.81	18.85	19.00			
5	16QAM	1	0	18.95	18.98	19.06	20.3	0	
5	16QAM	1	12	18.69	18.85	18.82			
5	16QAM	1	24	18.62	18.86	18.68			
5	16QAM	12	0	18.79	18.94	18.76	20.3	0	
5	16QAM	12	7	18.64	18.76	18.62			
5	16QAM	12	13	18.68	18.83	18.63			
5	16QAM	25	0	18.68	18.73	18.77			
5	64QAM	1	0	18.91	18.83	18.77	20.3	0	
5	64QAM	1	12	18.80	18.85	18.79			
5	64QAM	1	24	18.75	18.82	18.70			
5	64QAM	12	0	18.60	18.70	18.74	20.3	0	
5	64QAM	12	7	18.56	18.61	18.85			
5	64QAM	12	13	18.68	18.85	18.86			
5	64QAM	25	0	18.74	18.77	18.75			
5	256QAM	1	0	17.67	17.57	17.53	19	1.3	
5	256QAM	1	12	17.56	17.49	17.46			
5	256QAM	1	24	17.21	17.48	17.55			
5	256QAM	12	0	17.63	17.46	17.48			
5	256QAM	12	7	17.43	17.40	17.32	19	1.3	
5	256QAM	12	13	17.30	17.48	17.35			
5	256QAM	25	0	17.52	17.54	17.58			
Channel									
Frequency (MHz)									
3	QPSK	1	0	18.91	19.01	19.05	20.3	0	
3	QPSK	1	12	18.82	19.03	19.01			
3	QPSK	1	14	18.74	18.85	18.77			
3	QPSK	8	0	18.91	19.05	18.87			
3	QPSK	8	7	18.72	18.84	18.72	20.3	0	
3	QPSK	8	7	18.56	18.89	18.73			
3	16QAM	1	0	18.77	18.93	18.87			
3	16QAM	1	12	18.65	18.88	18.98	20.3	0	
3	16QAM	1	8	18.73	18.87	18.80			
3	16QAM	1	14	18.72	18.85	18.75			
3	16QAM	8	0	18.65	18.86	18.61	20.3	0	
3	16QAM	8	7	18.59	18.92	18.80			
3	64QAM	1	0	18.88	18.86	18.81	20.3	0	
3	64QAM	1	14	18.76	18.90	18.74			
3	64QAM	1	14	18.68	18.82	18.70			
3	64QAM	8	0	18.63	18.74	18.76	20.3	0	
3	64QAM	8	7	18.64	18.92	18.84			
3	64QAM	8	7	18.63	18.82	18.84			
3	256QAM	1	0	17.59	17.50	17.50	19	1.3	
3	256QAM	1	8	17.32	17.46	17.32			
3	256QAM	1	14	17.55	17.49	17.46			
3	256QAM	8	0	17.67	17.53	17.56			
3	256QAM	8	4	17.44	17.46	17.46	19	1.3	
3	256QAM	8	7	17.37	17.43	17.40			
3	256QAM	15	0	17.48	17.48	17.51			



Reduced Power Mode for Other PA DSIT

Band 2 Ant 0 DS17										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	16.45	16.50	16.62				
20	QPSK	1	49	16.40	16.47	16.58	17.7	0		
20	QPSK	1	99	16.40	16.43	16.33				
20	QPSK	50	0	16.37	16.41	16.28				
20	QPSK	50	24	16.41	16.41	16.35	17.7	0		
20	QPSK	50	50	16.27	16.30	16.21				
20	QPSK	100	0	16.32	16.36	16.35				
20	QPSK	100	24	16.36	16.41	16.30				
20	HQAM	1	49	16.21	16.39	16.22	17.7	0		
20	HQAM	1	99	16.34	16.38	16.23				
20	HQAM	50	0	16.33	16.30	16.25				
20	HQAM	50	24	16.05	16.28	16.01	17.7	0		
20	HQAM	50	50	16.20	16.21	16.15				
20	HQAM	1	0	16.36	16.44	16.20				
20	HQAM	1	49	16.22	16.40	16.16	17.7	0		
20	HQAM	1	99	16.29	16.29	16.20				
20	HQAM	50	0	16.31	16.30	16.10				
20	HQAM	50	24	16.14	16.33	16.01	17.7	0		
20	HQAM	50	50	16.18	16.25	16.10				
20	HQAM	100	0	16.18	16.24	16.28				
20	HQAM	1	0	16.27	16.40	16.24				
20	HQAM	1	49	16.24	16.42	16.13	17.7	0		
20	HQAM	1	99	16.31	16.36	16.26				
20	HQAM	50	0	16.32	16.31	16.16				
20	HQAM	50	24	16.13	16.29	16.10	17.7	0		
20	HQAM	50	50	16.14	16.22	16.09				
20	HQAM	100	0	16.17	16.20	16.16				
Channel										
Frequency (MHz)										
15	QPSK	1	0	16.75	16.80	16.92				
15	QPSK	1	37	16.26	16.38	16.35	17.7	0		
15	QPSK	1	74	16.34	16.28	16.20				
15	QPSK	36	0	16.20	16.34	16.10				
15	QPSK	36	18	16.30	16.30	16.10	17.7	0		
15	QPSK	36	36	16.18	16.25	16.08				
15	QPSK	75	0	16.20	16.27	16.24				
15	QPSK	75	18	16.24	16.34	16.24				
15	HQAM	1	37	16.13	16.38	16.18	17.7	0		
15	HQAM	1	74	16.27	16.37	16.26				
15	HQAM	36	0	16.29	16.26	16.20				
15	HQAM	36	18	16.02	16.16	16.07	17.7	0		
15	HQAM	36	36	16.06	16.10	16.13				
15	HQAM	1	0	16.22	16.30	16.22				
15	HQAM	1	37	16.22	16.30	16.22	17.7	0		
15	HQAM	1	74	16.15	16.22	16.14				
15	HQAM	36	0	16.21	16.25	16.12				
15	HQAM	36	18	16.07	16.11	16.02	17.7	0		
15	HQAM	36	36	16.05	16.10	16.17				
15	HQAM	75	0	16.05	16.10	16.17				
15	HQAM	1	0	16.22	16.30	16.22				
15	HQAM	1	37	16.16	16.29	16.07	17.7	0		
15	HQAM	1	74	16.19	16.28	16.11				
15	HQAM	36	0	16.23	16.25	16.14				
15	HQAM	36	18	16.04	16.18	16.00	17.7	0		
15	HQAM	36	36	16.09	16.11	16.04				
15	HQAM	75	0	16.17	16.20	16.11				
Channel										
Frequency (MHz)										
10	QPSK	1	0	16.28	16.38	16.18	17.7	0		
10	QPSK	1	49	16.26	16.29	16.23				
10	QPSK	20	0	16.16	16.27	16.20				
10	QPSK	20	12	16.14	16.35	16.08	17.7	0		
10	QPSK	25	0	16.21	16.23	16.13				
10	QPSK	50	0	16.20	16.27	16.10				
10	HQAM	1	0	16.28	16.38	16.17				
10	HQAM	1	25	16.10	16.33	16.17	17.7	0		
10	HQAM	1	50	16.12	16.32	16.12				
10	HQAM	25	0	16.28	16.23	16.22				
10	HQAM	25	12	16.09	16.25	16.06	17.7	0		
10	HQAM	25	25	16.12	16.25	16.08				
10	HQAM	50	0	16.08	16.16	16.16				
10	HQAM	1	0	16.25	16.37	16.20				
10	HQAM	1	25	16.22	16.37	16.20	17.7	0		
10	HQAM	1	50	16.20	16.24	16.10				
10	HQAM	25	0	16.26	16.25	16.08				
10	HQAM	25	12	16.10	16.15	16.09	17.7	0		
10	HQAM	25	25	16.14	16.16	16.20				
10	HQAM	50	0	16.13	16.27	16.10				
10	HQAM	50	12	16.19	16.33	16.06	17.7	0		
10	HQAM	50	25	16.23	16.32	16.22				
10	HQAM	100	0	16.16	16.24	16.14				
10	HQAM	25	12	16.10	16.25	16.09	17.7	0		
10	HQAM	25	25	16.07	16.19	16.02				
10	HQAM	50	0	16.17	16.26	16.11				
Channel										
Frequency (MHz)										
5	QPSK	1	0	16.27	16.37	16.20				
5	QPSK	1	12	16.27	16.40	16.16	17.7	0		
5	QPSK	1	24	16.30	16.31	16.23				
5	QPSK	12	0	16.24	16.34	16.24				
5	QPSK	12	7	16.05	16.28	16.12	17.7	0		
5	QPSK	12	13	16.22	16.27	16.10				
5	QPSK	25	0	16.22	16.29	16.20				
5	HQAM	1	0	16.27	16.29	16.20				
5	HQAM	1	12	16.16	16.28	16.12	17.7	0		
5	HQAM	1	24	16.17	16.19	16.08				
5	HQAM	12	0	16.21	16.27	16.11				
5	HQAM	12	7	16.03	16.24	16.08	17.7	0		
5	HQAM	12	13	16.17	16.19	16.09				
5	HQAM	25	0	16.18	16.09	16.10				
5	HQAM	1	0	16.31	16.33	16.23				
5	HQAM	1	12	16.14	16.33	16.23	17.7	0		
5	HQAM	1	24	16.17	16.26	16.07				
5	HQAM	12	0	16.22	16.20	16.13				
5	HQAM	12	7	16.01	16.19	16.05	17.7	0		
5	HQAM	12	13	16.10	16.11	16.00				
5	HQAM	25	0	16.20	16.17	16.24				
5	HQAM	25	0	16.30	16.33	16.24				
5	HQAM	1	12	16.13	16.31	16.24	17.7	0		
5	HQAM	1	24	16.16	16.33	16.10				
5	HQAM	12	0	16.24	16.26	16.16				
5	HQAM	12	7	16.01	16.15	16.04	17.7	0		
5	HQAM	12	13	16.06	16.18	16.06				
5	HQAM	25	0	16.24	16.29	16.22				
Channel										
Frequency (MHz)										
3	QPSK	1	0	16.41	16.39	16.24				
3	QPSK	1	8	16.23	16.43	16.24	17.7	0		
3	QPSK	1	14	16.27	16.34	16.19				
3	QPSK	8	0	16.24	16.29	16.21				
3	QPSK	8	4	16.07	16.29	16.06	17.7	0		
3	QPSK	8	7	16.21	16.25	16.07				
3	QPSK	16	0	16.10	16.27	16.14				
3	HQAM	1	0	16.30	16.27	16.24				
3	HQAM	1	8	16.16	16.24	16.09	17.7	0		
3	HQAM	1	14	16.26	16.25	16.05				
3	HQAM	8	0	16.19	16.28	16.21				
3	HQAM	8	4	16.09	16.24	16.04	17.7	0		
3	HQAM	1	0	16.21	16.36	16.27				
3	HQAM	1	8	16.10	16.37	16.13	17.7	0		
3	HQAM	1	14	16.18	16.14	16.17				
3	HQAM	8	0	16.13	16.23	16.06				
3	HQAM	8	4	16.04	16.20	16.04	17.7	0		
3	HQAM	16	0	16.12	16.19	16.05				
3	HQAM	1	0	16.21	16.36	16.27				
3	HQAM	1	8	16.10	16.37	16.13	17.7	0		
3	HQAM	1								



Band 4 Ant 4 DS17									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up (dB)	MPE (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	16.27	16.29	16.24			
20	QPSK	1	49	16.23	16.23	16.23	17.7	0	
20	QPSK	1	99	16.09	16.20	16.14			
20	QPSK	50	0	16.03	16.27	16.25			
20	QPSK	24	0	16.02	16.28	16.23			
20	QPSK	50	50	16.13	16.17	16.23	17.7	0	
20	QPSK	100	0	16.10	16.26	16.16			
20	HQAM	1	0	16.13	16.23	16.23			
20	HQAM	1	49	15.97	16.09	16.07	17.7	0	
20	HQAM	1	99	16.17	16.12	16.23			
20	HQAM	50	0	16.02	16.20	16.23			
20	HQAM	50	24	15.99	16.19	16.10			
20	HQAM	50	50	16.01	16.26	16.16			
20	HQAM	100	0	16.04	16.15	16.20			
20	HQAM	1	0	15.96	16.19	16.14			
20	HQAM	1	49	16.10	16.09	16.06	17.7	0	
20	HQAM	1	99	16.04	16.16	16.20			
20	HQAM	50	24	16.00	16.21	16.17	17.7	0	
20	HQAM	50	50	16.05	16.26	16.16			
20	HQAM	100	0	16.22	16.11	16.21			
20	ZSSBAM	1	0	16.03	16.22	16.19			
20	ZSSBAM	1	49	16.01	16.19	16.19	17.7	0	
20	ZSSBAM	1	99	16.06	16.22	16.20			
20	ZSSBAM	50	0	16.11	16.12	16.20			
20	ZSSBAM	50	24	15.96	16.21	16.17	17.7	0	
20	ZSSBAM	50	50	16.12	16.06	16.16			
20	ZSSBAM	100	0	16.14	16.21	16.20			
Channel									
Frequency (MHz)									
16	QPSK	1	0	16.18	16.14	16.14			
16	QPSK	1	37	16.10	16.21	16.16	17.7	0	
16	QPSK	1	74	15.99	16.10	16.01			
16	QPSK	36	0	15.92	16.23	16.20			
16	QPSK	20	0	16.08	16.18	16.08	17.7	0	
16	QPSK	36	36	15.99	16.06	16.08			
16	HQAM	1	0	16.02	16.16	16.14			
16	HQAM	1	37	16.02	16.17	16.12	17.7	0	
16	HQAM	1	74	16.03	16.19	16.17			
16	HQAM	36	0	16.17	16.14	16.20			
16	HQAM	36	20	15.96	16.16	16.02	17.7	0	
16	HQAM	36	36	16.04	16.16	16.12			
16	HQAM	75	0	15.95	16.11	16.02			
16	HQAM	1	0	15.90	16.14	16.02	17.7	0	
16	HQAM	1	37	16.04	16.06	16.01			
16	HQAM	1	74	16.13	16.12	16.15			
16	HQAM	36	0	16.11	16.12	16.19			
16	HQAM	36	20	15.93	16.16	16.12	17.7	0	
16	HQAM	36	36	16.00	16.15	16.05			
16	HQAM	75	0	16.12	16.17	16.08			
16	ZSSBAM	1	0	16.15	16.16	16.20			
16	ZSSBAM	1	37	15.93	16.02	16.12	17.7	0	
16	ZSSBAM	1	74	15.98	16.13	16.10			
16	ZSSBAM	36	0	15.96	16.03	16.06			
16	ZSSBAM	36	20	15.92	16.10	16.11	17.7	0	
16	ZSSBAM	36	36	16.06	16.03	16.04			
16	ZSSBAM	75	0	16.04	16.14	16.03			
Channel									
Frequency (MHz)									
10	QPSK	1	0	16.07	16.16	16.09			
10	QPSK	1	25	16.14	16.15	16.18	17.7	0	
10	QPSK	1	49	15.97	16.08	16.09			
10	QPSK	25	0	16.22	16.22	16.22			
10	QPSK	25	12	16.10	16.13	16.05	17.7	0	
10	QPSK	25	25	16.07	16.09	16.15			
10	QPSK	36	0	16.04	16.16	16.11			
10	HQAM	1	0	16.04	16.16	16.09			
10	HQAM	1	25	15.98	16.00	16.01	17.7	0	
10	HQAM	1	49	16.14	16.19	16.07			
10	HQAM	25	0	16.11	16.15	16.12			
10	HQAM	25	12	15.88	16.19	16.05	17.7	0	
10	HQAM	25	25	16.01	16.19	16.02			
10	HQAM	50	0	15.95	16.10	16.01			
10	HQAM	1	0	15.89	16.13	16.06	17.7	0	
10	HQAM	1	25	16.01	16.06	16.03			
10	HQAM	1	49	16.15	16.13	16.18			
10	HQAM	25	0	16.03	16.01	16.19			
10	HQAM	25	12	15.97	16.18	16.13	17.7	0	
10	HQAM	25	25	16.00	16.17	16.07			
10	HQAM	50	0	16.13	16.24	16.05			
10	ZSSBAM	1	0	16.13	16.08	16.20			
10	ZSSBAM	1	25	15.96	16.08	16.08	17.7	0	
10	ZSSBAM	1	49	15.96	16.08	16.15			
10	ZSSBAM	25	0	16.01	16.02	16.05			
10	ZSSBAM	25	12	15.91	16.15	16.09	17.7	0	
10	ZSSBAM	25	25	16.00	15.93	16.09			
10	ZSSBAM	50	0	16.10	16.16	15.91			
Channel									
Frequency (MHz)									
5	QPSK	1	0	15.92	16.17	16.03			
5	QPSK	1	12	16.09	16.15	16.18	17.7	0	
5	QPSK	1	24	15.99	16.10	16.06			
5	QPSK	12	0	15.96	16.20	16.21			
5	QPSK	12	7	16.09	16.17	16.12	17.7	0	
5	QPSK	12	13	16.04	16.11	16.10			
5	QPSK	25	0	16.00	16.15	16.11			
5	HQAM	1	0	16.07	16.19	16.20			
5	HQAM	1	12	16.00	16.05	16.00	17.7	0	
5	HQAM	1	24	16.11	16.18	16.13			
5	HQAM	12	0	16.18	16.17	16.18			
5	HQAM	12	7	15.94	16.23	16.01	17.7	0	
5	HQAM	12	13	15.93	16.21	16.09			
5	HQAM	25	0	16.00	16.08	16.01			
5	HQAM	1	0	15.92	16.09	16.06	17.7	0	
5	HQAM	1	12	15.98	16.03	16.00			
5	HQAM	1	24	16.19	16.08	16.13			
5	HQAM	12	0	16.03	16.07	16.16			
5	HQAM	12	7	15.99	16.14	16.04	17.7	0	
5	HQAM	12	13	15.99	16.17	16.16			
5	HQAM	25	0	16.13	16.17	16.16			
5	ZSSBAM	1	0	16.15	16.17	16.22			
5	ZSSBAM	1	12	15.97	16.15	16.07	17.7	0	
5	ZSSBAM	1	24	15.92	16.16	16.15			
5	ZSSBAM	12	0	16.07	16.09	15.96			
5	ZSSBAM	12	7	15.94	16.08	16.14	17.7	0	
5	ZSSBAM	12	13	16.02	16.01	16.06			
5	ZSSBAM	25	0	16.02	16.16	16.00			
Channel									
Frequency (MHz)									
3	QPSK	1	0	16.17	16.25	16.17			
3	QPSK	1	6	16.14	16.21	16.19	17.7	0	
3	QPSK	1	14	16.03	16.11	16.05			
3	QPSK	6	0	16.03	16.16	16.20			
3	QPSK	6	4	16.16	16.18	16.04	17.7	0	
3	QPSK	6	7	16.10	16.08	16.11			
3	QPSK	15	0	15.99	16.23	16.09			
3	HQAM	1	0	16.08	16.20	16.19			
3	HQAM	1	6	15.97	16.04	16.03	17.7	0	
3	HQAM	1	14	16.04	16.26	16.16			
3	HQAM	6	0	16.14	16.17	16.10			
3	HQAM	6	4	15.96	16.19	15.96	17.7	0	
3	HQAM	6	7	15.94	16.12	16.10			
3	HQAM	15	0	15.95	16.10	16.10			
3	HQAM	1	0	15.98	16.02	16.00	17.7	0	
3	HQAM	1	14	16.14	16.13	16.23			
3	HQAM	6	0	16.00	16.11	16.19			
3	HQAM	6	4	15.87	16.10	16.04	17.7	0	
3	HQAM	6	7	15.98	16.19	16.11			
3	ZSSBAM	15	0	16.20	16.17	16.18			
3	ZSSBAM	1	0	16.03	16.09	16.15	17.7	0	
3	ZSSBAM	1	14	15.98	16.17	16.14			
3	ZSSBAM	6	0	16.03	16.05	16.03			
3	ZSSBAM	6	4	15.92	16.17	16.13	17.7	0	
3	ZSSBAM	6	7	16.07	16.00	16.20			
3	ZSSBAM	15	0	16.01	16.07	15.91			

3CA DL

3CA List	PCC									SCC1				SCC2				DL Antenna Configuration	Power			
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL		DL	DL Antenna Configuration	With CA	Without CA
	Band	Ant	(MHz)	Freq. (MHz)	Channel		RB	Offset		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)		Channel		Tx. Power (dBm)	Tx. Power (dBm)
CA_2A-4A-5A	Band 2	Ant0	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		Band 5	10M	881.5	2525			22.73	22.79
	Band 2	Ant4	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		Band 5	10M	881.5	2525			21.52	21.59
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0		Band 5	10M	881.5	2525		Band 2	20M	1960	900			22.77	22.84
	Band 4	Ant4	20M	1732.5	20175	QPSK	1	0		Band 5	10M	881.5	2525		Band 2	20M	1960	900			21.59	21.64
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175			23.08	23.17
CA_2A-4A-7A	Band 5	Ant4	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175			23.22	23.30
	Band 2	Ant0	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		Band 7	20M	2655	3100			22.76	22.79
	Band 2	Ant4	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		Band 7	20M	2655	3100			21.51	21.59
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0		Band 7	20M	2655	3100		Band 2	20M	1960	900			22.79	22.84
	Band 4	Ant4	20M	1732.5	20175	QPSK	1	0		Band 7	20M	2655	3100		Band 2	20M	1960	900			21.58	21.64
CA_2A-5A-7A	Band 7	Ant1	20M	2535	21100	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175			22.05	22.13
	Band 2	Ant0	20M	1880	18900	QPSK	1	0		Band 5	10M	881.5	2525		Band 7	20M	2655	3100			22.66	22.79
	Band 2	Ant4	20M	1880	18900	QPSK	1	0		Band 5	10M	881.5	2525		Band 7	20M	2655	3100			21.44	21.59
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 2	20M	2655	3100		Band 2	20M	1960	900			23.04	23.17
	Band 5	Ant4	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100		Band 2	20M	1960	900			23.21	23.30
CA_2A-7A-7A	Band 7	Ant1	20M	2535	21100	QPSK	1	0		Band 2	20M	1960	900		Band 5	10M	881.5	2525			22.02	22.13
	Band 2	Ant0	20M	1880	18900	QPSK	1	0		Band 7	20M	2655	3100		Band 7	5M	2687.5	3425			22.75	22.79
	Band 2	Ant4	20M	1880	18900	QPSK	1	0		Band 7	20M	2655	3100		Band 7	5M	2687.5	3425			21.50	21.59
	Band 7	Ant1	20M	2535	21100	QPSK	1	0		Band 7	5M	2687.5	3425		Band 2	20M	1960	900			22.00	22.13
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0		Band 7	20M	2655	3100		Band 7	5M	2687.5	3425			22.70	22.84
CA_4A-7A-7A	Band 4	Ant4	20M	1732.5	20175	QPSK	1	0		Band 7	20M	2655	3100		Band 7	5M	2687.5	3425			21.51	21.64
	Band 7	Ant1	20M	2535	21100	QPSK	1	0		Band 7	5M	2687.5	3425		Band 4	20M	2132.5	2175			22.07	22.13
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886		Band 7	20M	2655	3100			23.10	23.17
	Band 5	Ant4	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886		Band 7	20M	2655	3100			23.26	23.30
	Band 7	Ant1	20M	2535	21100	QPSK	1	0		Band 5	10M	881.5	2525		Band 66	20M	2155	66886			22.01	22.13
CA_5A-6A-6A	Band 66	Ant0	20M	1745	132322	QPSK	1	0		Band 7	20M	2655	3100		Band 5	10M	881.5	2525			22.85	22.91
	Band 66	Ant4	20M	1745	132322	QPSK	1	0		Band 7	20M	2655	3100		Band 5	10M	881.5	2525			21.48	21.62
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100		Band 7	20M	2554.8	3298			23.10	23.17
	Band 5	Ant4	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100		Band 7	20M	2554.8	3298			23.17	23.30
	Band 7	Ant1	20M	2535	21100	QPSK	1	0		Band 7	20M	2554.8	3298		Band 5	10M	881.5	2525			22.02	22.13
CA_5A-6A-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886		Band 66	5M	2197.5	67311			23.09	23.17
	Band 5	Ant4	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886		Band 66	5M	2197.5	67311			23.24	23.30
	Band 66	Ant0	20M	1745	132322	QPSK	1	0		Band 66	5M	2197.5	67311		Band 5	10M	881.5	2525			22.76	22.81
	Band 66	Ant4	20M	1745	132322	QPSK	1	0		Band 66	5M	2197.5	67311		Band 5	10M	881.5	2525			21.51	21.62
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886		Band 66	20M	2174.8	67084			23.07	23.17
CA_5A-66C	Band 5	Ant4	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886		Band 66	20M	2174.8	67084			23.22	23.30
	Band 66	Ant0	20M	1745	132322	QPSK	1	0		Band 66	20M	2164.8	66984		Band 5	10M	881.5	2525			22.81	22.91
	Band 66	Ant4	20M	1745	132322	QPSK	1	0		Band 66	20M	2164.8	66984		Band 5	10M	881.5	2525			21.47	21.62
	Band 7	Ant1	20M	2535	21100	QPSK	1	0		Band 26	15M	876.5	8865		Band 66	20M	2155	66886			22.08	22.13
	Band 26	Ant0	20M	831.5	28865	QPSK	1	0		Band 66	20M	2155	66886		Band 7	20M	2655	3100			23.17	23.25
CA_7A-26A-66A	Band 26	Ant4	20M	831.5	28865	QPSK	1	0		Band 66	20M	2155	66886		Band 7	20M	2655	3100			21.78	21.86
	Band 66	Ant0	20M	1745	132322	QPSK	1	0		Band 7	20M	2655	3100		Band 26	15M	876.5	8865			22.78	22.91
	Band 66	Ant4	20M	1745	132322	QPSK	1	0		Band 7	20M	2655	3100		Band 26	15M	876.5	8865			21.53	21.62
	Band 7	Ant1	20M	2535	21100	QPSK	1	0		Band 7	20M	2554.8	3298		Band 66	20M	2155	66886			21.99	22.13
	Band 66	Ant0	20M	1745	132322	QPSK	1	0		Band 7	20M	2655	3100		Band 7	20M	2554.8	3298			22.81	22.91
CA_7C-66A	Band 66	Ant4	20M	1745	132322	QPSK	1	0		Band 7	20M	2655	3100		Band 7	20M	2554.8	3298			21.56	21.62



4CA DL

Configure	PCC								SCC1				SCC2				SCC3				Power					
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
	Band	Ant	(MHz)	Freq. (MHz)	Channel		RB	RB Offset		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Tx. Power (dBm)	Tx. Power (dBm)
CA_2A-4A-7C	Band 2	Ant0	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		Band 7	20M	2655	3100		Band 7	20M	2554.8	3298		22.65	22.79
	Band 2	Ant4	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		Band 7	20M	2655	3100		Band 7	20M	2554.8	3298		21.50	21.59
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0		Band 7	20M	2655	3100		Band 7	20M	2554.8	3298		Band 2	20M	1960	900		22.71	22.84
	Band 4	Ant4	20M	1732.5	20175	QPSK	1	0		Band 7	20M	2655	3100		Band 7	20M	2554.8	3298		Band 2	20M	1960	900		21.47	21.64
	Band 7	Ant1	20M	2535	21100	QPSK	1	0		Band 7	20M	2554.8	3298		Band 2	20M	1960	900		Band 4	20M	2132.5	2175		22.06	22.13
CA_2A-7A-66A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0		Band 7	20M	2655	3100		Band 66	20M	2155	66886		Band 66	5M	2197.5	67311		22.67	22.79
	Band 2	Ant4	20M	1880	18900	QPSK	1	0		Band 7	20M	2655	3100		Band 66	20M	2155	66886		Band 66	5M	2197.5	67311		21.44	21.59
	Band 7	Ant1	20M	2535	21100	QPSK	1	0		Band 66	20M	2155	66886		Band 66	5M	2197.5	67311		Band 2	20M	1960	900		21.97	22.13
	Band 66	Ant0	20M	1745	132322	QPSK	1	0		Band 66	5M	2197.5	67311		Band 2	20M	1960	900		Band 7	20M	2655	3100		22.81	22.91
	Band 66	Ant4	20M	1745	132322	QPSK	1	0		Band 66	5M	2197.5	67311		Band 2	20M	1960	900		Band 7	20M	2655	3100		21.50	21.62

Uplink CA Power Full&Default Power Mode

CA_7C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	21.30	23.00
21100	21298	QPSK	1	99	1	0	21.45	23.00
21350	21152	QPSK	1	0	1	99	21.44	23.00

CA_38C Ant 4								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	21.62	23.00
37901	38099	QPSK	1	99	1	0	21.48	23.00
38150	37952	QPSK	1	0	1	99	21.50	23.00

CA_66C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	21.66	23.00
132322	132520	QPSK	1	99	1	0	21.58	23.00
132572	132374	QPSK	1	0	1	99	21.50	23.00

CA_66B Ant 0								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	21.59	23.00
132322	132415	QPSK	1	74	1	0	21.46	23.00
132597	132504	QPSK	1	0	1	24	21.50	23.00

Uplink CA Power Reduced Power Mode for DSI2

CA_7C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	21.30	23.00
21100	21298	QPSK	1	99	1	0	21.45	23.00
21350	21152	QPSK	1	0	1	99	21.44	23.00

CA_38C Ant 4								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	19.92	21.30
37901	38099	QPSK	1	99	1	0	19.82	21.30
38150	37952	QPSK	1	0	1	99	19.84	21.30

CA_66C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	21.66	23.00
132322	132520	QPSK	1	99	1	0	21.58	23.00
132572	132374	QPSK	1	0	1	99	21.50	23.00

CA_66B Ant 0								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	21.59	23.00
132322	132415	QPSK	1	74	1	0	21.46	23.00
132597	132504	QPSK	1	0	1	24	21.50	23.00

Uplink CA Power Reduced Power Mode for DSI3

CA_7C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	17.10	18.70
21100	21298	QPSK	1	99	1	0	17.16	18.70
21350	21152	QPSK	1	0	1	99	17.12	18.70

CA_38C Ant 4								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	17.48	18.70
37901	38099	QPSK	1	99	1	0	17.36	18.70
38150	37952	QPSK	1	0	1	99	17.33	18.70

CA_66C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	16.02	17.30
132322	132520	QPSK	1	99	1	0	15.95	17.30
132572	132374	QPSK	1	0	1	99	15.90	17.30

CA_66B Ant 0								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	15.96	17.30
132322	132415	QPSK	1	74	1	0	15.85	17.30
132597	132504	QPSK	1	0	1	24	15.89	17.30

Uplink CA Power Reduced Power Mode for DSI7

CA_7C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	17.10	18.70
21100	21298	QPSK	1	99	1	0	17.16	18.70
21350	21152	QPSK	1	0	1	99	17.12	18.70

CA_38C Ant 4								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	14.75	16.00
37901	38099	QPSK	1	99	1	0	14.56	16.00
38150	37952	QPSK	1	0	1	99	14.62	16.00

CA_66C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	15.72	17.00
132322	132520	QPSK	1	99	1	0	15.65	17.00
132572	132374	QPSK	1	0	1	99	15.60	17.00

CA_66B Ant 0								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	15.63	17.00
132322	132415	QPSK	1	74	1	0	15.56	17.00
132597	132504	QPSK	1	0	1	24	15.52	17.00

Uplink CA Power Reduced Power Mode for DSI6

CA_7C Ant 1								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	19.85	21.40
21100	21298	QPSK	1	99	1	0	19.96	21.40
21350	21152	QPSK	1	0	1	99	19.88	21.40

CA_38C Ant 4								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	21.06	22.30
37901	38099	QPSK	1	99	1	0	20.92	22.30
38150	37952	QPSK	1	0	1	99	20.99	22.30

CA_66C Ant 0								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	18.85	20.10
132322	132520	QPSK	1	99	1	0	18.77	20.10
132572	132374	QPSK	1	0	1	99	18.72	20.10

CA_66B Ant 0								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	18.72	20.10
132322	132415	QPSK	1	74	1	0	18.68	20.10
132597	132504	QPSK	1	0	1	24	18.63	20.10



Full&Default Power Mode

n2 Ant 0 Full power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI/2 BPSK	1	1	23.44	23.46	23.41	24.0	0.0	
20	PI/2 BPSK	1	53	23.48	23.54	23.38			
20	PI/2 BPSK	1	104	23.39	23.49	23.31			
20	PI/2 BPSK	50	0	23.00	23.02	22.86	23.5	0.5	
20	PI/2 BPSK	50	28	23.46	23.52	23.36	24.0	0.0	
20	PI/2 BPSK	50	56	23.02	23.07	22.90	23.5	0.5	
20	PI/2 BPSK	100	0	22.84	22.96	22.84			
20	QPSK	1	1	23.54	23.63	23.45	24.0	0.0	
20	QPSK	1	53	23.54	23.61	23.56			
20	QPSK	1	104	23.55	23.61	23.45			
20	QPSK	50	0	22.37	22.54	22.37	23.0	1.0	
20	QPSK	50	28	23.33	23.51	23.38	24.0	0.0	
20	QPSK	50	56	22.57	22.63	22.50	23.0	1.0	
20	QPSK	100	0	22.47	22.48	22.43			
20	16QAM	1	1	22.11	22.25	22.11	23.0	1.0	
20	64QAM	1	1	20.94	21.04	20.89	21.5	2.5	
20	256QAM	1	1	18.78	18.91	18.86	19.5	4.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	23.34	23.48	23.23	24.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	23.31	23.47	23.29	24.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	23.30	23.53	23.21	24.0	0.0	

n5 Ant 0 Full power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI/2 BPSK	1	1	23.29	23.32	23.27	24.0	0.0	
20	PI/2 BPSK	1	53	22.95	23.28	23.00			
20	PI/2 BPSK	1	104	23.08	23.33	23.07			
20	PI/2 BPSK	50	0	22.83	23.05	22.97	23.5	0.5	
20	PI/2 BPSK	50	28	23.26	23.40	23.33	24.0	0.0	
20	PI/2 BPSK	50	56	22.94	22.93	22.99	23.5	0.5	
20	PI/2 BPSK	100	0	22.84	23.08	22.99			
20	QPSK	1	1	23.38	23.49	23.42	24.0	0.0	
20	QPSK	1	53	23.15	23.35	23.23			
20	QPSK	1	104	23.19	23.39	23.28			
20	QPSK	50	0	22.34	22.47	22.45	23.0	1.0	
20	QPSK	50	28	23.32	23.46	23.42	24.0	0.0	
20	QPSK	50	56	22.39	22.45	22.44	23.0	1.0	
20	QPSK	100	0	22.42	22.48	22.44			
20	16QAM	1	1	22.37	22.53	22.48	23.0	1.0	
20	64QAM	1	1	20.90	20.98	20.93	21.5	2.5	
20	256QAM	1	1	18.82	18.94	18.97	19.5	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	23.30	23.36	23.27	24.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	23.19	23.40	23.34	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	23.28	23.27	23.30	24.0	0.0	



n26 Ant 0 Full power

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				164800	166300	167800		
Frequency (MHz)				824	831.5	839		
20	PI/2 BPSK	1	1	23.34	23.36	23.39	24.0	0.0
20	PI/2 BPSK	1	53	23.34	23.45	23.29		
20	PI/2 BPSK	1	104	23.33	23.31	23.33		
20	PI/2 BPSK	50	0	22.95	23.04	22.97	23.5	0.5
20	PI/2 BPSK	50	28	23.34	23.44	23.24	24.0	0.0
20	PI/2 BPSK	50	56	23.02	23.06	23.03	23.5	0.5
20	PI/2 BPSK	100	0	22.95	23.07	23.04		
20	PI/2 BPSK	1	1	23.50	23.55	23.48		
20	QPSK	1	53	23.32	23.41	23.38	24.0	0.0
20	QPSK	1	104	23.44	23.49	23.28		
20	QPSK	50	0	22.54	22.46	22.50		
20	QPSK	50	28	23.40	23.42	23.36	24.0	0.0
20	QPSK	50	56	22.45	22.52	22.46	23.0	1.0
20	QPSK	100	0	22.42	22.55	22.52		
20	QPSK	1	1	22.59	22.62	22.44		
20	16QAM	1	1	20.97	21.12	21.06	21.5	2.5
20	256QAM	1	1	19.08	19.07	19.02	19.5	4.5
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	23.25	23.30	23.22	24.0	0.0
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	1	23.30	23.30	23.14	24.0	0.0
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	23.22	23.35	23.14	24.0	0.0

n66 Ant 0 Full power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	23.36	23.46	23.47	24.0	0.0
40	PI/2 BPSK	1	108	23.35	23.44	23.47		
40	PI/2 BPSK	1	214	23.51	23.40	23.48		
40	PI/2 BPSK	108	0	23.16	23.04	23.13	23.5	0.5
40	PI/2 BPSK	108	54	23.37	23.44	23.43	24.0	0.0
40	PI/2 BPSK	108	108	23.05	23.21	22.97	23.5	0.5
40	PI/2 BPSK	216	0	23.16	23.11	23.02		
40	QPSK	1	1	23.58	23.62	23.55		
40	QPSK	1	108	23.35	23.46	23.42	24.0	0.0
40	QPSK	1	214	23.47	23.49	23.47		
40	QPSK	108	0	22.50	22.56	22.52		
40	QPSK	108	54	23.45	23.51	23.43	24.0	0.0
40	QPSK	108	108	22.63	22.63	22.50	23.0	1.0
40	QPSK	216	0	22.61	22.62	22.58		
40	QPSK	1	1	22.60	22.68	22.48		
40	16QAM	1	1	21.15	21.19	21.04	21.5	2.5
40	256QAM	1	1	19.13	19.07	19.11	19.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	23.38	23.44	23.34	24.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.32	23.48	23.43	24.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	23.40	23.49	23.37	24.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	23.42	23.44	23.44	24.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	23.46	23.35	23.40	24.0	0.0



n7 Ant 1 Full power

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	23.26	23.22	23.14	24.0	0.0
40	PI/2 BPSK	1	108	23.12	23.24	23.07		
40	PI/2 BPSK	1	214	23.17	23.17	23.25		
40	PI/2 BPSK	108	0	22.91	22.94	22.89	23.5	0.5
40	PI/2 BPSK	108	54	23.24	23.26	23.11	24.0	0.0
40	PI/2 BPSK	108	108	22.76	22.97	22.85	23.5	0.5
40	PI/2 BPSK	216	0	22.92	22.94	22.84		
40	QPSK	1	1	23.33	23.38	23.31	24.0	0.0
40	QPSK	1	108	23.17	23.20	23.18		
40	QPSK	1	214	23.18	23.19	23.24		
40	QPSK	108	0	22.27	22.40	22.28	23.0	1.0
40	QPSK	108	54	23.10	23.27	23.11	24.0	0.0
40	QPSK	108	108	22.25	22.32	22.28	23.0	1.0
40	QPSK	216	0	22.30	22.46	22.26		
40	16QAM	1	1	22.41	22.33	22.39	23.0	1.0
40	64QAM	1	1	20.84	20.83	20.88	21.5	2.5
40	256QAM	1	1	18.86	18.80	18.77	19.5	4.5
Channel				503000	507000	511000		
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	23.16	23.11	23.11	24.0	0.0
Channel				502500	507000	511500		
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	23.14	23.14	23.12	24.0	0.0
Channel				502000	507000	512000		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	23.12	23.18	23.14	24.0	0.0
Channel				501500	507000	512500		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	23.06	23.26	23.11	24.0	0.0
Channel				501000	507000	513000		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	23.21	23.18	23.20	24.0	0.0
Channel				500500	507000	513500		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	23.09	23.11	23.06	24.0	0.0



n2 Ant 4 Full power								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1800	1880	1900		
20	PI/2 BPSK	1	1	21.58	21.71	21.54		
20	PI/2 BPSK	1	53	21.59	21.63	21.61	23.0	0.0
20	PI/2 BPSK	1	104	21.66	21.65	21.66		
20	PI/2 BPSK	50	0	21.41	21.42	21.25	22.5	0.5
20	PI/2 BPSK	50	28	21.56	21.69	21.54	23.0	0.0
20	PI/2 BPSK	50	56	21.36	21.45	21.28		
20	PI/2 BPSK	100	0	21.27	21.45	21.37	22.5	0.5
20	QPSK	1	1	21.84	21.87	21.80		
20	QPSK	1	53	21.63	21.71	21.54	23.0	0.0
20	QPSK	1	104	21.66	21.63	21.69		
20	QPSK	50	0	20.87	20.83	20.83	22.0	1.0
20	QPSK	50	28	21.62	21.74	21.67	23.0	0.0
20	QPSK	50	56	20.90	20.86	20.88		
20	QPSK	100	0	20.90	20.95	20.80	22.0	1.0
20	16QAM	1	1	20.84	20.88	20.74	22.0	1.0
20	64QAM	1	1	19.27	19.41	19.35	20.5	2.5
20	256QAM	1	1	17.29	17.33	17.35	18.5	4.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5	23.0	0.0
15	QPSK	1	1	21.68	21.66	21.67		
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905	23.0	0.0
10	QPSK	1	1	21.66	21.70	21.71		
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5	23.0	0.0
5	QPSK	1	1	21.67	21.68	21.69	23.0	0.0

n5 Ant 4 Full power								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	21.85	22.06	21.84		
20	PI/2 BPSK	1	53	21.80	21.91	22.06	23.0	0.0
20	PI/2 BPSK	1	104	21.99	21.98	21.98		
20	PI/2 BPSK	50	0	21.49	21.58	21.64	22.5	0.5
20	PI/2 BPSK	50	28	21.90	21.92	21.83	23.0	0.0
20	PI/2 BPSK	50	56	21.58	21.58	21.65		
20	PI/2 BPSK	100	0	21.59	21.56	21.72	22.5	0.5
20	QPSK	1	1	22.05	22.11	22.10		
20	QPSK	1	53	21.85	21.98	21.88	23.0	0.0
20	QPSK	1	104	21.87	21.97	21.89		
20	QPSK	50	0	21.19	21.12	21.16	22.0	1.0
20	QPSK	50	28	21.97	22.05	21.89	23.0	0.0
20	QPSK	50	56	21.17	21.22	21.12		
20	QPSK	100	0	21.10	21.17	21.08	22.0	1.0
20	16QAM	1	1	21.16	21.07	21.05	22.0	1.0
20	64QAM	1	1	19.58	19.70	19.51	20.5	2.5
20	256QAM	1	1	17.59	17.51	17.64	18.5	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5	23.0	0.0
15	QPSK	1	1	21.80	21.99	21.74		
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844	23.0	0.0
10	QPSK	1	1	21.78	21.99	21.75		
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5	23.0	0.0
5	QPSK	1	1	21.79	21.99	21.77	23.0	0.0



n7 Ant 4 Full power								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	22.95	22.90	22.85		
40	PI/2 BPSK	1	108	22.82	22.94	22.85	24.0	0.0
40	PI/2 BPSK	1	214	22.85	22.93	22.79		
40	PI/2 BPSK	108	0	22.49	22.60	22.48	23.5	0.5
40	PI/2 BPSK	108	54	22.86	22.97	22.86	24.0	0.0
40	PI/2 BPSK	108	108	22.47	22.53	22.46		
40	PI/2 BPSK	216	0	22.62	22.53	22.43	23.5	0.5
40	QPSK	1	1	23.04	23.09	23.00		
40	QPSK	1	108	22.86	22.97	22.91	24.0	0.0
40	QPSK	1	214	22.89	22.90	22.78		
40	QPSK	108	0	22.11	22.02	22.01	23.0	1.0
40	QPSK	108	54	22.89	23.03	22.89	24.0	0.0
40	QPSK	108	108	22.08	22.04	22.02	23.0	1.0
40	QPSK	216	0	21.97	22.06	21.99		
40	16QAM	1	1	22.01	22.12	22.05	23.0	1.0
40	64QAM	1	1	20.52	20.62	20.42	21.5	2.5
40	256QAM	1	1	18.59	18.65	18.49	19.5	4.5
Channel				503000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555	24.0	0.0
30	QPSK	1	1	22.70	22.69	22.62		
Channel				502400	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5	24.0	0.0
25	QPSK	1	1	22.73	22.73	22.69		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560	24.0	0.0
20	QPSK	1	1	22.63	22.73	22.65		
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5	24.0	0.0
15	QPSK	1	1	22.70	22.62	22.63		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565	24.0	0.0
10	QPSK	1	1	22.59	22.73	22.65		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5	24.0	0.0
5	QPSK	1	1	22.60	22.67	22.61		

n26 Ant 4 Full power								
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				164800	166300	167800		
Frequency (MHz)				824	831.5	839		
20	PI/2 BPSK	1	1	21.82	21.79	21.81		
20	PI/2 BPSK	1	53	21.84	21.80	21.77	23.0	0.0
20	PI/2 BPSK	1	104	21.79	21.91	21.83		
20	PI/2 BPSK	50	0	21.34	21.46	21.45	22.5	0.5
20	PI/2 BPSK	50	28	21.81	21.90	21.74	23.0	0.0
20	PI/2 BPSK	50	56	21.35	21.45	21.39		
20	PI/2 BPSK	100	0	21.45	21.50	21.38	22.5	0.5
20	QPSK	1	1	21.92	22.01	21.95		
20	QPSK	1	53	21.77	21.85	21.78	23.0	0.0
20	QPSK	1	104	21.77	21.83	21.85		
20	QPSK	50	0	20.98	20.96	20.95	22.0	1.0
20	QPSK	50	28	21.79	21.95	21.83	23.0	0.0
20	QPSK	50	56	20.95	21.02	20.90		
20	QPSK	100	0	20.90	20.94	20.88	22.0	1.0
20	16QAM	1	1	21.00	20.95	21.04	22.0	1.0
20	64QAM	1	1	19.37	19.45	19.53	20.5	2.5
20	256QAM	1	1	17.34	17.44	17.48	18.5	4.5
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5	23.0	0.0
15	QPSK	1	1	21.70	21.88	21.72		
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844	23.0	0.0
10	QPSK	1	1	21.68	21.73	21.83		
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5	23.0	0.0
5	QPSK	1	1	21.67	21.72	21.72		



n66 Ant 4 Full power

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel	346000	349000	352000					
Frequency (MHz)	1730	1745	1760					
40	PI/2 BPSK	1	1	21.73	21.72	21.70	23.0	0.0
40	PI/2 BPSK	1	108	21.69	21.83	21.76		
40	PI/2 BPSK	1	214	21.74	21.74	21.67		
40	PI/2 BPSK	108	0	21.43	21.50	21.43	22.5	0.5
40	PI/2 BPSK	108	54	21.77	21.84	21.76	23.0	0.0
40	PI/2 BPSK	108	108	21.32	21.43	21.35	22.5	0.5
40	PI/2 BPSK	216	0	21.45	21.43	21.31		
40	QPSK	1	1	21.90	21.93	21.89	23.0	0.0
40	QPSK	1	108	21.79	21.75	21.80		
40	QPSK	1	214	21.74	21.78	21.70		
40	QPSK	108	0	20.83	20.95	20.81	22.0	1.0
40	QPSK	108	54	21.75	21.86	21.81	23.0	0.0
40	QPSK	108	108	20.93	20.85	20.90	22.0	1.0
40	QPSK	216	0	20.92	20.94	20.85		
40	16QAM	1	1	20.82	20.99	20.84	22.0	1.0
40	64QAM	1	1	19.35	19.48	19.41	20.5	2.5
40	256QAM	1	1	17.45	17.36	17.32	18.5	4.5
Channel	345000	349000	353000					
Frequency (MHz)	1725	1745	1765	Tune-up limit (dBm)	MPR (dB)			
30	QPSK	1	1	21.70	21.68	21.71	23.0	0.0
Channel	344000	349000	354000					
Frequency (MHz)	1720	1745	1770	Tune-up limit (dBm)	MPR (dB)			
20	QPSK	1	1	21.68	21.72	21.68	23.0	0.0
Channel	343500	349000	354500					
Frequency (MHz)	1717.5	1745	1772.5	Tune-up limit (dBm)	MPR (dB)			
15	QPSK	1	1	21.63	21.72	21.76	23.0	0.0
Channel	343000	349000	355000					
Frequency (MHz)	1715	1745	1775	Tune-up limit (dBm)	MPR (dB)			
10	QPSK	1	1	21.71	21.73	21.67	23.0	0.0
Channel	342500	349000	355500					
Frequency (MHz)	1712.5	1745	1777.5	Tune-up limit (dBm)	MPR (dB)			
5	QPSK	1	1	21.73	21.67	21.76	23.0	0.0



n38 Ant 4 Full power								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	22.64	22.64	22.67		
40	PI/2 BPSK	1	53	22.66	22.67	22.70	24.0	0.0
40	PI/2 BPSK	1	104	22.65	22.71	22.62		
40	PI/2 BPSK	50	0	22.24	22.34	22.20	23.5	0.5
40	PI/2 BPSK	50	28	22.66	22.69	22.70	24.0	0.0
40	PI/2 BPSK	50	56	22.33	22.38	22.29		
40	PI/2 BPSK	100	0	22.21	22.37	22.21	23.5	0.5
40	QPSK	1	1	22.75	22.61	22.73		
40	QPSK	1	53	22.73	22.76	22.63	24.0	0.0
40	QPSK	1	104	22.74	22.70	22.65		
40	QPSK	50	0	21.72	21.89	21.75	23.0	1.0
40	QPSK	50	28	22.69	22.76	22.67	24.0	0.0
40	QPSK	50	56	21.74	21.81	21.78		
40	QPSK	100	0	21.71	21.80	21.65	23.0	1.0
40	16QAM	1	1	21.80	21.89	21.70	23.0	1.0
40	64QAM	1	1	20.33	20.39	20.23	21.5	2.5
40	256QAM	1	1	18.31	18.38	18.25	19.5	4.5
Channel				517092	519000	520998		
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	22.63	22.74	22.51	24.0	0.0
Channel				516000	519000	522000		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	22.68	22.69	22.68	24.0	0.0

n41 Ant 4 Full power								
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				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	22.77	22.83	22.67		
100	PI/2 BPSK	1	137	22.77	22.76	22.75	24.0	0.0
100	PI/2 BPSK	1	271	22.77	22.84	22.83		
100	PI/2 BPSK	135	0	22.24	22.32	22.30	23.5	0.5
100	PI/2 BPSK	135	69	22.76	22.82	22.76	24.0	0.0
100	PI/2 BPSK	135	138	22.37	22.49	22.41		
100	PI/2 BPSK	270	0	22.29	22.34	22.38	23.5	0.5
100	QPSK	1	1	22.62	22.90	22.85		
100	QPSK	1	137	22.64	22.79	22.81	24.0	0.0
100	QPSK	1	271	22.71	22.72	22.81		
100	QPSK	135	0	21.88	21.93	21.92	23.0	1.0
100	QPSK	135	69	22.74	22.89	22.68	24.0	0.0
100	QPSK	135	138	21.75	21.93	21.78		
100	QPSK	270	0	21.78	21.96	21.77	23.0	1.0
100	16QAM	1	1	21.86	21.85	21.89	23.0	1.0
100	64QAM	1	1	20.31	20.45	20.32	21.5	2.5
100	256QAM	1	1	18.35	18.41	18.38	19.5	4.5
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.75	22.67	22.69	24.0	0.0
Channel				507204	518598	529996		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	22.69	22.68	22.71	24.0	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.73	22.76	22.68	24.0	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	22.70	22.83	22.72	24.0	0.0
Channel				504204	518598	532996		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.64	22.79	22.74	24.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.66	22.78	22.69	24.0	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.67	22.74	22.75	24.0	0.0
Channel				501204	518598	535996		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.64	22.71	22.73	24.0	0.0



Part27Q n78 Ant 5 Full power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI/2 BPSK	1	1	22.99	3499.98				
100	PI/2 BPSK	1	137	22.97			24.0	0.0	
100	PI/2 BPSK	1	271	22.95					
100	PI/2 BPSK	135	0	22.59			23.5	0.5	
100	PI/2 BPSK	135	69	23.00			24.0	0.0	
100	PI/2 BPSK	135	138	22.69					
100	PI/2 BPSK	270	0	22.63			23.5	0.5	
100	QPSK	1	1	23.10					
100	QPSK	1	137	23.01			24.0	0.0	
100	QPSK	1	271	23.09					
100	QPSK	135	0	22.13			23.0	1.0	
100	QPSK	135	69	23.06			24.0	0.0	
100	QPSK	135	138	22.06					
100	QPSK	270	0	22.13			23.0	1.0	
100	16QAM	1	1	22.09			23.0	1.0	
100	64QAM	1	1	20.58			21.5	2.5	
100	256QAM	1	1	18.69			19.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.91	3499.98	3504.99	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.84	3499.98	3510	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.85	3499.98	3514.98	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.86	3499.98	3519.99	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.84	3499.98	3525	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.84	3499.98	3529.98	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.92	3499.98	3534.99	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.82	3499.98	3540	24.0	0.0	

Part27Q n78 Ant 1 Full power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI/2 BPSK	1	1	19.04	3499.98				
100	PI/2 BPSK	1	137	19.05			20.5	0.0	
100	PI/2 BPSK	1	271	19.13					
100	PI/2 BPSK	135	0	18.63			20.0	0.5	
100	PI/2 BPSK	135	69	19.12			20.5	0.0	
100	PI/2 BPSK	135	138	18.70					
100	PI/2 BPSK	270	0	18.70			20.0	0.5	
100	QPSK	1	1	18.19					
100	QPSK	1	137	18.07			20.5	0.0	
100	QPSK	1	271	18.12					
100	QPSK	135	0	18.13			19.5	1.0	
100	QPSK	135	69	18.17			20.5	0.0	
100	QPSK	135	138	18.11					
100	QPSK	270	0	18.12			19.5	1.0	
100	16QAM	1	1	18.24			19.5	1.0	
100	64QAM	1	1	16.65			18.0	2.5	
100	256QAM	1	1	14.73			16.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.96	3499.98	3504.99	20.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.01	3499.98	3510	20.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.87	3499.98	3514.98	20.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.90	3499.98	3519.99	20.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.98	3499.98	3525	20.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.85	3499.98	3529.98	20.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.98	3499.98	3534.99	20.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.93	3499.98	3540	20.5	0.0	



Part27Q n78 Ant 2 Full power									
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				633332	633332				
Frequency (MHz)				3499.98					
100	PI/2 BPSK	1	1	21.36					
100	PI/2 BPSK	1	137	21.38			22.5	0.0	
100	PI/2 BPSK	1	271	21.36					
100	PI/2 BPSK	135	0	20.93			22.0	0.5	
100	PI/2 BPSK	135	69	21.41			22.5	0.0	
100	PI/2 BPSK	135	138	20.87					
100	PI/2 BPSK	270	0	21.01			22.0	0.5	
100	QPSK	1	1	21.51					
100	QPSK	1	137	21.34			22.5	0.0	
100	QPSK	1	271	21.42					
100	QPSK	135	0	20.59			21.5	1.0	
100	QPSK	135	69	21.44			22.5	0.0	
100	QPSK	135	138	20.42					
100	QPSK	270	0	20.48			21.5	1.0	
100	16QAM	1	1	20.45			21.5	1.0	
100	64QAM	1	1	18.99			20.0	2.5	
100	256QAM	1	1	17.03			18.0	4.5	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99			
90	QPSK	1	1	21.44	21.48	21.30	22.5	0.0	
Channel				632666	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1	21.29	21.30	21.31	22.5	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1	21.34	21.38	21.25	22.5	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3519.99			
60	QPSK	1	1	21.32	21.34	21.30	22.5	0.0	
Channel				631666	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1	21.33	21.41	21.25	22.5	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	21.35	21.35	21.34	22.5	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99			
30	QPSK	1	1	21.34	21.37	21.30	22.5	0.0	
Channel				630666	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1	21.38	21.37	21.34	22.5	0.0	

Part27Q n78 Ant 8 Full power									
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				633332	633332				
Frequency (MHz)				3499.98					
100	PI/2 BPSK	1	1	17.97					
100	PI/2 BPSK	1	137	18.01			19.5	0.0	
100	PI/2 BPSK	1	271	18.05					
100	PI/2 BPSK	135	0	17.59			19.0	0.5	
100	PI/2 BPSK	135	69	18.02			19.5	0.0	
100	PI/2 BPSK	135	138	17.68					
100	PI/2 BPSK	270	0	17.65			19.0	0.5	
100	QPSK	1	1	18.10					
100	QPSK	1	137	18.05			19.5	0.0	
100	QPSK	1	271	17.92					
100	QPSK	135	0	17.14			18.5	1.0	
100	QPSK	135	69	18.08			19.5	0.0	
100	QPSK	135	138	17.11					
100	QPSK	270	0	17.14			18.5	1.0	
100	16QAM	1	1	17.13			18.5	1.0	
100	64QAM	1	1	15.55			17.0	2.5	
100	256QAM	1	1	13.59			15.0	4.5	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99			
90	QPSK	1	1	17.93	17.98	17.91	19.5	0.0	
Channel				632666	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1	17.97	17.93	17.92	19.5	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1	17.85	17.94	17.79	19.5	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3519.99			
60	QPSK	1	1	17.91	17.93	17.81	19.5	0.0	
Channel				631666	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1	17.84	18.00	17.88	19.5	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	17.92	18.03	17.92	19.5	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99			
30	QPSK	1	1	17.87	18.03	17.94	19.5	0.0	
Channel				630666	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1	17.88	17.91	17.80	19.5	0.0	



Reduced Power Mode for DSI2

n2 Ant 0 DSI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1860	1890	1900		
20	PI/2 BPSK	1	1	23.44	23.46	23.41	24.0	0.0
20	PI/2 BPSK	1	53	23.48	23.54	23.38		
20	PI/2 BPSK	1	104	23.39	23.49	23.31		
20	PI/2 BPSK	50	0	23.00	23.02	22.86	23.5	0.5
20	PI/2 BPSK	50	28	23.46	23.52	23.36	24.0	0.0
20	PI/2 BPSK	50	56	23.02	23.07	22.90	23.5	0.5
20	PI/2 BPSK	100	0	22.84	22.96	22.84		
20	PI/2 BPSK	100	56	22.84	22.96	22.84		
20	QPSK	1	1	23.54	23.63	23.45	24.0	0.0
20	QPSK	1	53	23.54	23.61	23.56		
20	QPSK	1	104	23.55	23.61	23.45		
20	QPSK	50	0	22.37	22.54	22.37	23.0	1.0
20	QPSK	50	28	23.33	23.51	23.38	24.0	0.0
20	QPSK	50	56	22.57	22.63	22.50	23.0	1.0
20	QPSK	100	0	22.47	22.48	22.43		
20	QPSK	100	56	22.47	22.48	22.43		
20	16QAM	1	1	22.11	22.25	22.11	23.0	1.0
20	64QAM	1	1	20.94	21.04	20.89	21.5	2.5
20	256QAM	1	1	18.78	18.91	18.86	19.5	4.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	23.34	23.48	23.23	24.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	23.31	23.47	23.29	24.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	23.30	23.53	23.21	24.0	0.0

n5 Ant 0 DSI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167600		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	23.29	23.32	23.27	24.0	0.0
20	PI/2 BPSK	1	53	22.95	23.26	23.00		
20	PI/2 BPSK	1	104	23.08	23.33	23.07		
20	PI/2 BPSK	50	0	22.83	23.05	22.97	23.5	0.5
20	PI/2 BPSK	50	28	23.26	23.40	23.33	24.0	0.0
20	PI/2 BPSK	50	56	22.94	22.93	22.99	23.5	0.5
20	PI/2 BPSK	100	0	22.84	23.08	22.99		
20	PI/2 BPSK	100	56	22.84	23.08	22.99		
20	QPSK	1	1	23.38	23.49	23.42	24.0	0.0
20	QPSK	1	53	23.15	23.35	23.23		
20	QPSK	1	104	23.19	23.39	23.28		
20	QPSK	50	0	22.34	22.47	22.45	23.0	1.0
20	QPSK	50	28	23.32	23.46	23.42	24.0	0.0
20	QPSK	50	56	22.39	22.45	22.44	23.0	1.0
20	QPSK	100	0	22.42	22.48	22.44		
20	QPSK	100	56	22.42	22.48	22.44		
20	16QAM	1	1	22.37	22.53	22.48	23.0	1.0
20	64QAM	1	1	20.90	20.98	20.93	21.5	2.5
20	256QAM	1	1	18.82	18.94	18.97	19.5	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.30	23.36	23.27	24.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.19	23.40	23.34	24.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.28	23.27	23.30	24.0	0.0



n26 Ant 0 DSI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				164800	166300	167800		
Frequency (MHz)				824	831.5	839		
20	PI/2 BPSK	1	1	23.34	23.38	23.39	24.0	0.0
20	PI/2 BPSK	1	53	23.34	23.45	23.29		
20	PI/2 BPSK	1	104	23.33	23.31	23.33		
20	PI/2 BPSK	50	0	22.95	23.04	22.97	23.5	0.5
20	PI/2 BPSK	50	28	23.34	23.44	23.24	24.0	0.0
20	PI/2 BPSK	50	56	23.02	23.06	23.03	23.5	0.5
20	PI/2 BPSK	100	0	22.95	23.07	23.04		
20	QPSK	1	1	23.50	23.55	23.48	24.0	0.0
20	QPSK	1	53	23.32	23.41	23.38		
20	QPSK	1	104	23.44	23.49	23.28		
20	QPSK	50	0	22.54	22.46	22.50	23.0	1.0
20	QPSK	50	28	23.40	23.42	23.36	24.0	0.0
20	QPSK	50	56	22.45	22.52	22.46	23.0	1.0
20	QPSK	100	0	22.42	22.55	22.52		
20	16QAM	1	1	22.59	22.62	22.44	23.0	1.0
20	64QAM	1	1	20.97	21.12	21.06	21.5	2.5
20	256QAM	1	1	19.08	19.07	19.02	19.5	4.5
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	23.25	23.30	23.22	24.0	0.0
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	1	23.30	23.30	23.14	24.0	0.0
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	23.22	23.35	23.14	24.0	0.0

n66 Ant 0 DSI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	23.36	23.46	23.47	24.0	0.0
40	PI/2 BPSK	1	108	23.35	23.44	23.47		
40	PI/2 BPSK	1	214	23.51	23.40	23.48		
40	PI/2 BPSK	108	0	23.16	23.04	23.13	23.5	0.5
40	PI/2 BPSK	108	54	23.37	23.44	23.43	24.0	0.0
40	PI/2 BPSK	108	108	23.05	23.21	22.97	23.5	0.5
40	PI/2 BPSK	216	0	23.16	23.11	23.02		
40	QPSK	1	1	23.58	23.62	23.55	24.0	0.0
40	QPSK	1	108	23.35	23.46	23.42		
40	QPSK	1	214	23.47	23.49	23.47		
40	QPSK	108	0	22.50	22.56	22.52	23.0	1.0
40	QPSK	108	54	23.45	23.51	23.43	24.0	0.0
40	QPSK	108	108	22.63	22.63	22.50	23.0	1.0
40	QPSK	216	0	22.61	22.62	22.58		
40	16QAM	1	1	22.60	22.68	22.48	23.0	1.0
40	64QAM	1	1	21.15	21.19	21.04	21.5	2.5
40	256QAM	1	1	19.13	19.07	19.11	19.5	4.5
Channel				345900	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	23.38	23.44	23.34	24.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.32	23.48	23.43	24.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	23.40	23.49	23.37	24.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	23.42	23.44	23.44	24.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	23.46	23.35	23.40	24.0	0.0



n7 Ant 1 DSI2

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel	504000	507000	510000					
Frequency (MHz)	2520	2535	2550					
40	Pi/2 BPSK	1	1	23.26	23.22	23.14	24.0	0.0
40	Pi/2 BPSK	1	108	23.12	23.24	23.07		
40	Pi/2 BPSK	1	214	23.17	23.17	23.25	23.5	0.5
40	Pi/2 BPSK	108	0	22.91	22.94	22.89		
40	Pi/2 BPSK	108	54	23.24	23.26	23.11	24.0	0.0
40	Pi/2 BPSK	108	108	22.78	22.97	22.85		
40	Pi/2 BPSK	216	0	22.92	22.94	22.84	23.5	0.5
40	QPSK	1	1	23.33	23.38	23.31		
40	QPSK	1	108	23.17	23.20	23.18	24.0	0.0
40	QPSK	1	214	23.18	23.19	23.24		
40	QPSK	108	0	22.27	22.40	22.28	23.0	1.0
40	QPSK	108	54	23.10	23.27	23.11		
40	QPSK	108	108	22.25	22.32	22.28	23.0	1.0
40	QPSK	216	0	22.30	22.46	22.26		
40	16QAM	1	1	22.41	22.33	22.39	23.0	1.0
40	64QAM	1	1	20.84	20.83	20.88		
40	256QAM	1	1	18.86	18.80	18.77	21.5	2.5
40	256QAM	1	1	18.86	18.80	18.77		
Channel	503000	507000	511000					
Frequency (MHz)	2515	2535	2555					
30	QPSK	1	1	23.16	23.11	23.11	24.0	0.0
30	QPSK	1	1	23.16	23.11	23.11		
Channel	502500	507000	511500					
Frequency (MHz)	2512.5	2535	2557.5					
25	QPSK	1	1	23.14	23.14	23.12	24.0	0.0
25	QPSK	1	1	23.14	23.14	23.12		
Channel	502000	507000	512000					
Frequency (MHz)	2510	2535	2560					
20	QPSK	1	1	23.12	23.18	23.14	24.0	0.0
20	QPSK	1	1	23.12	23.18	23.14		
Channel	501500	507000	512500					
Frequency (MHz)	2507.5	2535	2562.5					
15	QPSK	1	1	23.06	23.26	23.11	24.0	0.0
15	QPSK	1	1	23.06	23.26	23.11		
Channel	501000	507000	513000					
Frequency (MHz)	2505	2535	2565					
10	QPSK	1	1	23.21	23.18	23.20	24.0	0.0
10	QPSK	1	1	23.21	23.18	23.20		
Channel	500500	507000	513500					
Frequency (MHz)	2502.5	2535	2567.5					
5	QPSK	1	1	23.09	23.11	23.06	24.0	0.0
5	QPSK	1	1	23.09	23.11	23.06		



n2 Ant 4 DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI/2 BPSK	1	1	16.15	16.28	16.18			
20	PI/2 BPSK	1	53	16.13	16.19	16.11	17.2	0.0	
20	PI/2 BPSK	1	104	16.14	16.20	16.22			
20	PI/2 BPSK	50	0	16.17	16.29	16.17	17.2	0.0	
20	PI/2 BPSK	50	28	16.23	16.20	16.19	17.2	0.0	
20	PI/2 BPSK	50	56	16.22	16.28	16.15	17.2	0.0	
20	PI/2 BPSK	100	0	16.16	16.28	16.21			
20	QPSK	1	1	16.30	16.35	16.28			
20	QPSK	1	53	16.16	16.20	16.19	17.2	0.0	
20	QPSK	1	104	16.21	16.21	16.13			
20	QPSK	50	0	16.13	16.29	16.13	17.2	0.0	
20	QPSK	50	28	16.28	16.33	16.25	17.2	0.0	
20	QPSK	50	56	16.13	16.25	16.21			
20	QPSK	100	0	16.24	16.28	16.26	17.2	0.0	
20	16QAM	1	1	16.17	16.27	16.20	17.2	0.0	
20	64QAM	1	1	16.17	16.20	16.16	17.2	0.0	
20	256QAM	1	1	16.18	16.21	16.12	17.2	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	16.17	16.25	16.22	17.2	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	16.16	16.27	16.20	17.2	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	16.21	16.20	16.13	17.2	0.0	

n5 Ant 4 DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI/2 BPSK	1	1	21.85	22.06	21.84			
20	PI/2 BPSK	1	53	21.80	21.91	22.06	23.0	0.0	
20	PI/2 BPSK	1	104	21.99	21.98	21.98			
20	PI/2 BPSK	50	0	21.49	21.58	21.64	22.5	0.5	
20	PI/2 BPSK	50	28	21.90	21.92	21.83	23.0	0.0	
20	PI/2 BPSK	50	56	21.58	21.58	21.65	22.5	0.5	
20	PI/2 BPSK	100	0	21.59	21.56	21.72			
20	QPSK	1	1	22.05	22.11	22.10			
20	QPSK	1	53	21.85	21.98	21.88	23.0	0.0	
20	QPSK	1	104	21.87	21.97	21.89			
20	QPSK	50	0	21.19	21.12	21.16	22.0	1.0	
20	QPSK	50	28	21.97	22.05	21.89	23.0	0.0	
20	QPSK	50	56	21.17	21.22	21.12			
20	QPSK	100	0	21.10	21.17	21.08	22.0	1.0	
20	16QAM	1	1	21.16	21.07	21.05	22.0	1.0	
20	64QAM	1	1	19.58	19.70	19.51	20.5	2.5	
20	256QAM	1	1	17.59	17.61	17.64	18.5	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	21.80	21.99	21.74	23.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	21.76	21.99	21.75	23.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	21.79	21.99	21.77	23.0	0.0	



n7 Ant 4 DSI2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	16.96	17.08	16.96	18.1	0.0
40	PI/2 BPSK	1	108	16.97	17.00	16.92		
40	PI/2 BPSK	1	214	16.95	17.08	17.00		
40	PI/2 BPSK	108	0	17.04	17.09	16.95	18.1	0.0
40	PI/2 BPSK	108	54	16.98	17.06	16.97	18.1	0.0
40	PI/2 BPSK	108	108	16.95	17.00	16.93	18.1	0.0
40	PI/2 BPSK	216	0	17.04	17.07	16.99		
40	QPSK	1	1	17.08	17.13	17.06	18.1	0.0
40	QPSK	1	108	17.03	17.02	17.03		
40	QPSK	1	214	17.01	16.99	17.02		
40	QPSK	108	0	16.99	17.02	17.02	18.1	0.0
40	QPSK	108	54	17.03	17.10	17.05	18.1	0.0
40	QPSK	108	108	16.96	16.99	17.02		
40	QPSK	216	0	16.98	17.03	16.95	18.1	0.0
40	16QAM	1	1	16.98	16.98	16.99	18.1	0.0
40	64QAM	1	1	17.04	16.99	16.98	18.1	0.0
40	256QAM	1	1	17.00	17.04	16.97	18.1	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	16.94	17.06	16.95	18.1	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	16.93	17.01	17.01	18.1	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	16.99	17.08	16.92	18.1	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	16.98	17.05	16.93	18.1	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	16.99	17.00	16.95	18.1	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	16.96	17.09	17.03	18.1	0.0

n26 Ant 4 DSI2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				164800	166300	167800		
Frequency (MHz)				824	831.5	839		
20	PI/2 BPSK	1	1	21.82	21.79	21.81	23.0	0.0
20	PI/2 BPSK	1	53	21.84	21.80	21.77		
20	PI/2 BPSK	1	104	21.79	21.91	21.83		
20	PI/2 BPSK	50	0	21.34	21.46	21.45	22.5	0.5
20	PI/2 BPSK	50	28	21.81	21.90	21.74	23.0	0.0
20	PI/2 BPSK	50	56	21.35	21.45	21.39	22.5	0.5
20	PI/2 BPSK	100	0	21.45	21.50	21.38		
20	QPSK	1	1	21.92	22.01	21.95	23.0	0.0
20	QPSK	1	53	21.77	21.85	21.78		
20	QPSK	1	104	21.77	21.83	21.85		
20	QPSK	50	0	20.98	20.96	20.95	22.0	1.0
20	QPSK	50	28	21.79	21.95	21.83	23.0	0.0
20	QPSK	50	56	20.95	21.02	20.90	22.0	1.0
20	QPSK	100	0	20.90	20.94	20.88		
20	16QAM	1	1	21.00	20.95	21.04	22.0	1.0
20	64QAM	1	1	19.37	19.45	19.53	20.5	2.5
20	256QAM	1	1	17.34	17.44	17.48	18.5	4.5
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	21.70	21.86	21.72	23.0	0.0
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	1	21.66	21.73	21.83	23.0	0.0
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	21.67	21.72	21.72	23.0	0.0



n66 Ant 4 DSI2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	19.40	19.50	19.46		
40	PI/2 BPSK	1	108	19.45	19.44	19.41	20.4	0.0
40	PI/2 BPSK	1	214	19.41	19.48	19.49		
40	PI/2 BPSK	108	0	19.48	19.43	19.49	20.4	0.0
40	PI/2 BPSK	108	54	19.40	19.46	19.45	20.4	0.0
40	PI/2 BPSK	108	108	19.39	19.47	19.44		
40	PI/2 BPSK	216	0	19.47	19.53	19.49	20.4	0.0
40	QPSK	1	1	19.55	19.60	19.57		
40	QPSK	1	108	19.48	19.53	19.41	20.4	0.0
40	QPSK	1	214	19.46	19.53	19.46		
40	QPSK	108	0	19.45	19.51	19.42	20.4	0.0
40	QPSK	108	54	19.50	19.56	19.52	20.4	0.0
40	QPSK	108	108	19.40	19.42	19.49		
40	QPSK	216	0	19.45	19.50	19.46	20.4	0.0
40	16QAM	1	1	19.42	19.54	19.44	20.4	0.0
40	64QAM	1	1	19.42	19.53	19.48	20.4	0.0
40	256QAM	1	1	17.67	17.71	17.70	18.5	1.9
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	19.45	19.46	19.43	20.4	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	19.44	19.44	19.41	20.4	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	19.38	19.48	19.45	20.4	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	19.43	19.53	19.42	20.4	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	19.48	19.44	19.51	20.4	0.0



n38 Ant 4 DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				517004	519000	519998			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	16.57	16.68	16.63	17.9	0.0	
40	PI/2 BPSK	1	53	16.64	16.72	16.57			
40	PI/2 BPSK	1	104	16.62	16.70	16.54			
40	PI/2 BPSK	50	0	16.55	16.66	16.59	17.9	0.0	
40	PI/2 BPSK	50	28	16.63	16.62	16.64	17.9	0.0	
40	PI/2 BPSK	50	56	16.66	16.64	16.58	17.9	0.0	
40	PI/2 BPSK	100	0	16.61	16.67	16.67			
40	QPSK	1	1	16.72	16.86	16.73	17.9	0.0	
40	QPSK	1	53	16.56	16.70	16.66			
40	QPSK	1	104	16.63	16.63	16.62			
40	QPSK	50	0	16.57	16.63	16.57	17.9	0.0	
40	QPSK	50	28	16.57	16.76	16.72	17.9	0.0	
40	QPSK	50	56	16.63	16.67	16.53	17.9	0.0	
40	QPSK	100	0	16.64	16.73	16.60			
40	16QAM	1	1	16.58	16.61	16.60	17.9	0.0	
40	64QAM	1	1	16.56	16.67	16.71	17.9	0.0	
40	256QAM	1	1	16.64	16.71	16.61	17.9	0.0	
Channel				517002	519000	520998			
Frequency (MHz)				2585.01	2595	2604.99			
30	QPSK	1	1	16.61	16.76	16.66	17.9	0.0	
Channel				516000	519000	522000			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	1	16.61	16.86	16.68	17.9	0.0	

n41 Ant 4 DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	529000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	16.72	16.78	16.73	17.9	0.0	
100	PI/2 BPSK	1	137	16.78	16.86	16.73			
100	PI/2 BPSK	1	271	16.78	16.82	16.72			
100	PI/2 BPSK	135	0	16.68	16.83	16.76	17.9	0.0	
100	PI/2 BPSK	135	69	16.79	16.75	16.80	17.9	0.0	
100	PI/2 BPSK	135	138	16.78	16.84	16.72	17.9	0.0	
100	PI/2 BPSK	270	0	16.75	16.76	16.78			
100	QPSK	1	1	16.89	16.95	16.82	17.9	0.0	
100	QPSK	1	137	16.69	16.85	16.77			
100	QPSK	1	271	16.74	16.80	16.76			
100	QPSK	135	0	16.71	16.74	16.75	17.9	0.0	
100	QPSK	135	69	16.75	16.91	16.81	17.9	0.0	
100	QPSK	135	138	16.73	16.84	16.72	17.9	0.0	
100	QPSK	270	0	16.74	16.89	16.78			
100	16QAM	1	1	16.75	16.80	16.79	17.9	0.0	
100	64QAM	1	1	16.72	16.76	16.83	17.9	0.0	
100	256QAM	1	1	16.80	16.80	16.80	17.9	0.0	
Channel				508200	518598	528998			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	16.69	16.84	16.83	17.9	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	16.79	16.81	16.76	17.9	0.0	
Channel				506202	518598	531000			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	16.73	16.84	16.82	17.9	0.0	
Channel				505200	518598	531998			
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	16.72	16.83	16.72	17.9	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	16.78	16.74	16.76	17.9	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	16.71	16.76	16.80	17.9	0.0	
Channel				502200	518598	534998			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	16.78	16.77	16.74	17.9	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	16.80	16.77	16.75	17.9	0.0	



Part27Q n78 Ant 5 DS12								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633000	633332	633666		
Frequency (MHz)				3499.98	3499.98	3499.98		
100	PI/2 BPSK	1	1	16.17			17.6	0.0
100	PI/2 BPSK	1	137	16.19				
100	PI/2 BPSK	1	271	16.09				
100	PI/2 BPSK	135	0	16.12			17.6	0.0
100	PI/2 BPSK	135	69	16.10			17.6	0.0
100	PI/2 BPSK	135	138	16.10			17.6	0.0
100	PI/2 BPSK	270	0	16.11				
100	QPSK	1	1	16.23				
100	QPSK	1	137	16.14			17.6	0.0
100	QPSK	1	271	16.16				
100	QPSK	135	0	16.09			17.6	0.0
100	QPSK	135	69	16.19			17.6	0.0
100	QPSK	135	138	16.13			17.6	0.0
100	QPSK	270	0	16.18			17.6	0.0
100	16QAM	1	1	16.17			17.6	0.0
100	64QAM	1	1	16.16			17.6	0.0
100	256QAM	1	1	16.13			17.6	0.0
Channel				633000	633332	633666		
Frequency (MHz)				3495	3499.98	3504.99		
90	QPSK	1	1	16.10	16.16	16.13	17.6	0.0
Channel				632668	633332	634000		
Frequency (MHz)				3490.02	3499.98	3510		
80	QPSK	1	1	16.07	16.06	15.98	17.6	0.0
Channel				632334	633332	634332		
Frequency (MHz)				3485.01	3499.98	3514.98		
70	QPSK	1	1	15.95	16.05	16.04	17.6	0.0
Channel				632000	633332	634666		
Frequency (MHz)				3480	3499.98	3519.99		
60	QPSK	1	1	15.97	16.11	16.02	17.6	0.0
Channel				631668	633332	635000		
Frequency (MHz)				3475.02	3499.98	3525		
50	QPSK	1	1	15.98	16.03	16.07	17.6	0.0
Channel				631334	633332	635332		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	QPSK	1	1	16.04	16.08	16.03	17.6	0.0
Channel				631000	633332	635666		
Frequency (MHz)				3465	3499.98	3534.99		
30	QPSK	1	1	16.05	16.06	16.02	17.6	0.0
Channel				630668	633332	636000		
Frequency (MHz)				3460.02	3499.98	3540		
20	QPSK	1	1	16.05	16.09	16.08	17.6	0.0

Part27Q n78 Ant 1 DS12								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633000	633332	633666		
Frequency (MHz)				3495	3499.98	3504.99		
100	PI/2 BPSK	1	1	19.04			20.5	0.0
100	PI/2 BPSK	1	137	19.05				
100	PI/2 BPSK	1	271	19.13				
100	PI/2 BPSK	135	0	18.63			20.0	0.5
100	PI/2 BPSK	135	69	19.12			20.5	0.0
100	PI/2 BPSK	135	138	18.70			20.0	0.5
100	PI/2 BPSK	270	0	18.70				
100	QPSK	1	1	19.19				
100	QPSK	1	137	19.07			20.5	0.0
100	QPSK	1	271	19.12				
100	QPSK	135	0	18.13			19.5	1.0
100	QPSK	135	69	19.17			20.5	0.0
100	QPSK	135	138	18.11			19.5	1.0
100	QPSK	270	0	18.12				
100	16QAM	1	1	18.24			19.5	1.0
100	64QAM	1	1	16.85			18.0	2.5
100	256QAM	1	1	14.73			16.0	4.5
Channel				633000	633332	633666		
Frequency (MHz)				3495	3499.98	3504.99		
90	QPSK	1	1	18.96	18.99	18.97	20.5	0.0
Channel				632668	633332	634000		
Frequency (MHz)				3490.02	3499.98	3510		
80	QPSK	1	1	19.01	18.92	18.96	20.5	0.0
Channel				632334	633332	634332		
Frequency (MHz)				3485.01	3499.98	3514.98		
70	QPSK	1	1	18.97	19.01	19.02	20.5	0.0
Channel				632000	633332	634666		
Frequency (MHz)				3480	3499.98	3519.99		
60	QPSK	1	1	18.90	19.05	18.92	20.5	0.0
Channel				631668	633332	635000		
Frequency (MHz)				3475.02	3499.98	3525		
50	QPSK	1	1	18.98	19.04	18.91	20.5	0.0
Channel				631334	633332	635332		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	QPSK	1	1	18.85	18.93	19.03	20.5	0.0
Channel				631000	633332	635666		
Frequency (MHz)				3465	3499.98	3534.99		
30	QPSK	1	1	18.98	19.00	18.95	20.5	0.0
Channel				630668	633332	636000		
Frequency (MHz)				3460.02	3499.98	3540		
20	QPSK	1	1	18.93	18.96	18.87	20.5	0.0



Part27Q n78 Ant 2 DS12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
633332									
3499.98									
100	Pi/2 BPSK	1	1	21.00					
100	Pi/2 BPSK	1	137	21.02			22.5	0.0	
100	Pi/2 BPSK	1	271	21.00					
100	Pi/2 BPSK	135	0	20.57			22.0	0.5	
100	Pi/2 BPSK	135	69	21.05			22.5	0.0	
100	Pi/2 BPSK	135	138	20.51			22.0	0.5	
100	Pi/2 BPSK	270	0	20.65					
100	QPSK	1	1	21.15					
100	QPSK	1	137	20.98			22.5	0.0	
100	QPSK	1	271	21.06					
100	QPSK	135	0	20.23			21.5	1.0	
100	QPSK	135	69	21.08			22.5	0.0	
100	QPSK	135	138	20.06			21.5	1.0	
100	QPSK	270	0	20.12					
100	16QAM	1	1	20.09			21.5	1.0	
100	64QAM	1	1	18.63			20.0	2.5	
100	256QAM	1	1	16.67			18.0	4.5	
Channel									
Frequency (MHz)									
633000									
3495									
3499.98									
3504.99									
90	QPSK	1	1	21.08	21.00	21.05	22.5	0.0	
Channel									
Frequency (MHz)									
633332									
634000									
3490.02									
3499.98									
3510									
80	QPSK	1	1	21.10	20.90	21.00	22.5	0.0	
Channel									
Frequency (MHz)									
632334									
633332									
634332									
3485.01									
3499.98									
3514.98									
70	QPSK	1	1	21.08	20.91	21.03	22.5	0.0	
Channel									
Frequency (MHz)									
632000									
633332									
634668									
3480									
3499.98									
3519.99									
60	QPSK	1	1	21.03	20.88	21.08	22.5	0.0	
Channel									
Frequency (MHz)									
631668									
633332									
635000									
3475.02									
3499.98									
3525									
50	QPSK	1	1	21.02	20.93	21.07	22.5	0.0	
Channel									
Frequency (MHz)									
631334									
633332									
635332									
3470.01									
3499.98									
3529.98									
40	QPSK	1	1	20.96	21.01	21.07	22.5	0.0	
Channel									
Frequency (MHz)									
631000									
633332									
635666									
3465									
3499.98									
3534.99									
30	QPSK	1	1	20.94	20.89	20.96	22.5	0.0	
Channel									
Frequency (MHz)									
630668									
633332									
636000									
3460.02									
3499.98									
3540									
20	QPSK	1	1	21.04	20.91	20.99	22.5	0.0	

Part27Q n78 Ant 8 DS12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
633332									
3499.98									
100	Pi/2 BPSK	1	1	17.97					
100	Pi/2 BPSK	1	137	18.01			19.5	0.0	
100	Pi/2 BPSK	1	271	18.05					
100	Pi/2 BPSK	135	0	17.59			19.0	0.5	
100	Pi/2 BPSK	135	69	18.02			19.5	0.0	
100	Pi/2 BPSK	135	138	17.68			19.0	0.5	
100	Pi/2 BPSK	270	0	17.65					
100	QPSK	1	1	18.10					
100	QPSK	1	137	18.05			19.5	0.0	
100	QPSK	1	271	17.92					
100	QPSK	135	0	17.14			18.5	1.0	
100	QPSK	135	69	18.08			19.5	0.0	
100	QPSK	135	138	17.11			18.5	1.0	
100	QPSK	270	0	17.14					
100	16QAM	1	1	17.13			18.5	1.0	
100	64QAM	1	1	15.55			17.0	2.5	
100	256QAM	1	1	13.59			15.0	4.5	
Channel									
Frequency (MHz)									
633000									
3495									
3499.98									
3504.99									
90	QPSK	1	1	17.93	17.98	17.91	19.5	0.0	
Channel									
Frequency (MHz)									
632668									
633332									
634000									
3490.02									
3499.98									
3510									
80	QPSK	1	1	17.97	17.93	17.92	19.5	0.0	
Channel									
Frequency (MHz)									
632334									
633332									
634332									
3485.01									
3499.98									
3514.98									
70	QPSK	1	1	17.85	17.94	17.79	19.5	0.0	
Channel									
Frequency (MHz)									
632000									
633332									
634668									
3480									
3499.98									
3519.99									
60	QPSK	1	1	17.91	17.93	17.81	19.5	0.0	
Channel									
Frequency (MHz)									
631668									
633332									
635000									
3475.02									
3499.98									
3525									
50	QPSK	1	1	17.84	18.00	17.88	19.5	0.0	
Channel									
Frequency (MHz)									
631334									
633332									
635332									
3470.01									
3499.98									
3529.98									
40	QPSK	1	1	17.92	18.03	17.92	19.5	0.0	
Channel									
Frequency (MHz)									
631000									
633332									
635666									
3465									
3499.98									
3534.99									
30	QPSK	1	1	17.87	18.03	17.94	19.5	0.0	
Channel									
Frequency (MHz)									
630668									
633332									
636000									
3460.02									
3499.98									
3540									
20	QPSK	1	1	17.88	17.91	17.80	19.5	0.0	



Reduced Power Mode for DSI3

n2 Ant 0 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI/2 BPSK	1	1	19.24	19.26	19.22	20.4	0.0	
20	PI/2 BPSK	1	53	19.12	19.20	19.25			
20	PI/2 BPSK	1	104	19.23	19.22	19.19			
20	PI/2 BPSK	50	0	19.14	19.21	19.22	20.4	0.0	
20	PI/2 BPSK	50	28	19.13	19.27	19.25	20.4	0.0	
20	PI/2 BPSK	50	56	19.23	19.21	19.22	20.4	0.0	
20	PI/2 BPSK	100	0	19.16	19.24	19.21			
20	QPSK	1	1	19.28	19.35	19.31			
20	QPSK	1	53	19.18	19.25	19.24	20.4	0.0	
20	QPSK	1	104	19.13	19.23	19.19			
20	QPSK	50	0	19.13	19.25	19.20			
20	QPSK	50	28	19.27	19.30	19.25	20.4	0.0	
20	QPSK	50	56	19.13	19.27	19.25	20.4	0.0	
20	QPSK	100	0	19.12	19.27	19.21			
20	16QAM	1	1	19.18	19.20	19.25			
20	64QAM	1	1	19.22	19.25	19.23	20.4	0.0	
20	256QAM	1	1	18.43	18.50	18.39	19.5	0.9	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	19.13	19.23	19.15	20.4	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	19.16	19.19	19.22	20.4	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	19.18	19.25	19.20	20.4	0.0	

n5 Ant 0 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI/2 BPSK	1	1	23.29	23.32	23.27	24.0	0.0	
20	PI/2 BPSK	1	53	22.95	23.28	23.00			
20	PI/2 BPSK	1	104	23.08	23.33	23.07			
20	PI/2 BPSK	50	0	22.83	23.05	22.97	23.5	0.5	
20	PI/2 BPSK	50	28	23.26	23.40	23.33	24.0	0.0	
20	PI/2 BPSK	50	56	22.94	22.93	22.99	23.5	0.5	
20	PI/2 BPSK	100	0	22.84	23.08	22.99			
20	QPSK	1	1	23.38	23.49	23.42			
20	QPSK	1	53	23.15	23.35	23.23	24.0	0.0	
20	QPSK	1	104	23.19	23.39	23.28			
20	QPSK	50	0	22.34	22.47	22.45			
20	QPSK	50	28	23.32	23.46	23.42	24.0	0.0	
20	QPSK	50	56	22.39	22.45	22.44	23.0	1.0	
20	QPSK	100	0	22.42	22.48	22.44			
20	16QAM	1	1	22.37	22.53	22.48			
20	64QAM	1	1	20.90	20.98	20.93	21.5	2.5	
20	256QAM	1	1	18.82	18.94	18.97	19.5	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	23.30	23.36	23.27	24.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	23.19	23.40	23.34	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	23.28	23.27	23.30	24.0	0.0	



n26 Ant 0 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164800	166300	167800			
Frequency (MHz)				824	831.5	839			
20	PI/2 BPSK	1	1	23.34	23.36	23.39	24.0	0.0	
20	PI/2 BPSK	1	53	23.34	23.45	23.29			
20	PI/2 BPSK	1	104	23.33	23.31	23.33			
20	PI/2 BPSK	50	0	22.95	23.04	22.97	23.5	0.5	
20	PI/2 BPSK	50	28	23.34	23.44	23.24	24.0	0.0	
20	PI/2 BPSK	50	56	23.02	23.06	23.03	23.5	0.5	
20	PI/2 BPSK	100	0	22.95	23.07	23.04			
20	QPSK	1	1	23.50	23.55	23.48			
20	QPSK	1	53	23.32	23.41	23.38	24.0	0.0	
20	QPSK	1	104	23.44	23.49	23.28			
20	QPSK	50	0	22.54	22.46	22.50			
20	QPSK	50	28	23.40	23.42	23.36	24.0	0.0	
20	QPSK	50	56	22.45	22.52	22.46	23.0	1.0	
20	QPSK	100	0	22.42	22.55	22.52			
20	16QAM	1	1	22.59	22.62	22.44			
20	64QAM	1	1	20.97	21.12	21.06	21.5	2.5	
20	256QAM	1	1	19.08	19.07	19.02	19.5	4.5	
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	23.25	23.30	23.22	24.0	0.0	
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	23.30	23.30	23.14	24.0	0.0	
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	23.22	23.35	23.14	24.0	0.0	

n66 Ant 0 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	17.27	17.24	17.20	18.6	0.0	
40	PI/2 BPSK	1	108	17.18	17.30	17.20			
40	PI/2 BPSK	1	214	17.23	17.26	17.20			
40	PI/2 BPSK	108	0	17.24	17.26	17.25	18.6	0.0	
40	PI/2 BPSK	108	54	17.27	17.23	17.19	18.6	0.0	
40	PI/2 BPSK	108	108	17.28	17.32	17.22	18.6	0.0	
40	PI/2 BPSK	216	0	17.23	17.24	17.22			
40	QPSK	1	1	17.32	17.37	17.30			
40	QPSK	1	108	17.22	17.24	17.22	18.6	0.0	
40	QPSK	1	214	17.20	17.24	17.24			
40	QPSK	108	0	17.20	17.28	17.15			
40	QPSK	108	54	17.17	17.32	17.23	18.6	0.0	
40	QPSK	108	108	17.28	17.22	17.15	18.6	0.0	
40	QPSK	216	0	17.22	17.30	17.21			
40	16QAM	1	1	17.24	17.21	17.21			
40	64QAM	1	1	17.24	17.25	17.27	18.6	0.0	
40	256QAM	1	1	17.21	17.23	17.18	18.6	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	17.06	17.17	17.12	18.6	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	17.03	17.19	17.15	18.6	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	17.07	17.18	17.10	18.6	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	17.07	17.17	17.15	18.6	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	17.11	17.20	17.14	18.6	0.0	

n7 Ant 1 DSI3

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel	504000	507000	510000					
Frequency (MHz)	2520	2535	2550					
40	PI/2 BPSK	1	1	16.63	16.57	16.50	17.9	0.0
40	PI/2 BPSK	1	108	16.63	16.58	16.54		
40	PI/2 BPSK	1	214	16.53	16.58	16.58		
40	PI/2 BPSK	108	0	16.60	16.61	16.56	17.9	0.0
40	PI/2 BPSK	108	54	16.64	16.66	16.52	17.9	0.0
40	PI/2 BPSK	108	108	16.61	16.57	16.62	17.9	0.0
40	PI/2 BPSK	216	0	16.56	16.58	16.55		
40	QPSK	1	1	16.71	16.75	16.69	17.9	0.0
40	QPSK	1	108	16.59	16.63	16.61		
40	QPSK	1	214	16.57	16.57	16.59		
40	QPSK	108	0	16.59	16.63	16.59	16.9	1.0
40	QPSK	108	54	16.66	16.72	16.68	17.9	0.0
40	QPSK	108	108	16.57	16.65	16.58	16.9	1.0
40	QPSK	216	0	16.62	16.68	16.65		
40	16QAM	1	1	16.63	16.59	16.56	17.9	0.0
40	64QAM	1	1	16.64	16.65	16.61	17.9	0.0
40	256QAM	1	1	16.56	16.63	16.63	17.9	0.0
Channel	503000	507000	511000					
Frequency (MHz)	2515	2535	2555					
30	QPSK	1	1	16.55	16.68	16.61	17.9	0.0
Channel	502500	507000	511500					
Frequency (MHz)	2512.5	2535	2557.5					
25	QPSK	1	1	16.60	16.59	16.53	17.9	0.0
Channel	502000	507000	512000					
Frequency (MHz)	2510	2535	2560					
20	QPSK	1	1	16.54	16.61	16.56	17.9	0.0
Channel	501500	507000	512500					
Frequency (MHz)	2507.5	2535	2562.5					
15	QPSK	1	1	16.54	16.68	16.51	17.9	0.0
Channel	501000	507000	513000					
Frequency (MHz)	2505	2535	2565					
10	QPSK	1	1	16.54	16.64	16.59	17.9	0.0
Channel	500500	507000	513500					
Frequency (MHz)	2502.5	2535	2567.5					
5	QPSK	1	1	16.64	16.61	16.52	17.9	0.0



n2 Ant 4 DSI3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1800	1880	1900		
20	PI/2 BPSK	1	1	16.29	16.33	16.26		
20	PI/2 BPSK	1	53	16.36	16.37	16.26	17.5	0.0
20	PI/2 BPSK	1	104	16.29	16.32	16.26		
20	PI/2 BPSK	50	0	16.38	16.41	16.26	17.5	0.0
20	PI/2 BPSK	50	28	16.29	16.34	16.32	17.5	0.0
20	PI/2 BPSK	50	56	16.30	16.40	16.25		
20	PI/2 BPSK	100	0	16.33	16.37	16.25	17.5	0.0
20	QPSK	1	1	16.45	16.48	16.42		
20	QPSK	1	53	16.39	16.37	16.34	17.5	0.0
20	QPSK	1	104	16.31	16.37	16.32		
20	QPSK	50	0	16.29	16.38	16.36	17.5	0.0
20	QPSK	50	28	16.36	16.47	16.36	17.5	0.0
20	QPSK	50	56	16.34	16.31	16.24	17.5	0.0
20	QPSK	100	0	16.34	16.39	16.36		
20	16QAM	1	1	16.29	16.36	16.26	17.5	0.0
20	64QAM	1	1	16.31	16.39	16.30	17.5	0.0
20	256QAM	1	1	16.28	16.38	16.31	17.5	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1875.5	1880	1902.5		
15	QPSK	1	1	16.31	16.34	16.34	17.5	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	16.33	16.37	16.28	17.5	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	16.31	16.42	16.27	17.5	0.0

n5 Ant 4 DSI3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	21.85	22.06	21.84		
20	PI/2 BPSK	1	53	21.80	21.91	22.06	23.0	0.0
20	PI/2 BPSK	1	104	21.99	21.98	21.98		
20	PI/2 BPSK	50	0	21.49	21.58	21.64	22.5	0.5
20	PI/2 BPSK	50	28	21.90	21.92	21.83	23.0	0.0
20	PI/2 BPSK	50	56	21.58	21.58	21.65	22.5	0.5
20	PI/2 BPSK	100	0	21.59	21.56	21.72		
20	QPSK	1	1	22.05	22.11	22.10		
20	QPSK	1	53	21.85	21.98	21.88	23.0	0.0
20	QPSK	1	104	21.87	21.97	21.89		
20	QPSK	50	0	21.19	21.12	21.16	22.0	1.0
20	QPSK	50	28	21.97	22.05	21.89	23.0	0.0
20	QPSK	50	56	21.17	21.22	21.12	22.0	1.0
20	QPSK	100	0	21.10	21.17	21.08		
20	16QAM	1	1	21.16	21.07	21.05	22.0	1.0
20	64QAM	1	1	19.58	19.70	19.51	20.5	2.5
20	256QAM	1	1	17.59	17.51	17.64	18.5	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	21.80	21.99	21.74	23.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	21.76	21.99	21.75	23.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	21.79	21.99	21.77	23.0	0.0



n7 Ant 4 DSI3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	13.48	13.54	13.43		
40	PI/2 BPSK	1	108	13.37	13.46	13.49	14.7	0.0
40	PI/2 BPSK	1	214	13.42	13.51	13.44		
40	PI/2 BPSK	108	0	13.40	13.47	13.42	14.7	0.0
40	PI/2 BPSK	108	54	13.43	13.52	13.44	14.7	0.0
40	PI/2 BPSK	108	108	13.41	13.46	13.47	14.7	0.0
40	PI/2 BPSK	216	0	13.45	13.46	13.49		
40	QPSK	1	1	13.58	13.65	13.60		
40	QPSK	1	108	13.38	13.46	13.45	14.7	0.0
40	QPSK	1	214	13.41	13.48	13.40		
40	QPSK	108	0	13.41	13.54	13.46	14.7	0.0
40	QPSK	108	54	13.57	13.60	13.50	14.7	0.0
40	QPSK	108	108	13.38	13.55	13.45	14.7	0.0
40	QPSK	216	0	13.51	13.57	13.51		
40	16QAM	1	1	13.47	13.52	13.48	14.7	0.0
40	64QAM	1	1	13.40	13.52	13.45	14.7	0.0
40	256QAM	1	1	13.38	13.48	13.44	14.7	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555	14.7	0.0
30	QPSK	1	1	13.28	13.33	13.35		
Channel				502300	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5	14.7	0.0
25	QPSK	1	1	13.27	13.34	13.33		
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560	14.7	0.0
20	QPSK	1	1	13.32	13.30	13.37		
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5	14.7	0.0
15	QPSK	1	1	13.31	13.31	13.44		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565	14.7	0.0
10	QPSK	1	1	13.23	13.37	13.43		
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5	14.7	0.0
5	QPSK	1	1	13.31	13.40	13.44		

n26 Ant 4 DSI3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				164800	166300	167800		
Frequency (MHz)				824	831.5	839		
20	PI/2 BPSK	1	1	21.82	21.79	21.81		
20	PI/2 BPSK	1	53	21.84	21.80	21.77	23.0	0.0
20	PI/2 BPSK	1	104	21.79	21.91	21.83		
20	PI/2 BPSK	50	0	21.34	21.46	21.45	22.5	0.5
20	PI/2 BPSK	50	28	21.81	21.90	21.74	23.0	0.0
20	PI/2 BPSK	50	56	21.35	21.45	21.39	22.5	0.5
20	PI/2 BPSK	100	0	21.45	21.50	21.38		
20	QPSK	1	1	21.92	22.01	21.95		
20	QPSK	1	53	21.77	21.85	21.78	23.0	0.0
20	QPSK	1	104	21.77	21.83	21.85		
20	QPSK	50	0	20.98	20.96	20.95	22.0	1.0
20	QPSK	50	28	21.79	21.95	21.83	23.0	0.0
20	QPSK	50	56	20.95	21.02	20.90	22.0	1.0
20	QPSK	100	0	20.90	20.94	20.88		
20	16QAM	1	1	21.00	20.95	21.04	22.0	1.0
20	64QAM	1	1	19.37	19.45	19.53	20.5	2.5
20	256QAM	1	1	17.34	17.44	17.48	18.5	4.5
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5	23.0	0.0
15	QPSK	1	1	21.70	21.88	21.72		
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844	23.0	0.0
10	QPSK	1	1	21.68	21.73	21.83		
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5	23.0	0.0
5	QPSK	1	1	21.67	21.72	21.72		



n66 Ant 4 DSI3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	19.94	19.92	19.91		
40	PI/2 BPSK	1	108	19.96	19.98	19.84	21.0	0.0
40	PI/2 BPSK	1	214	19.89	20.00	19.92		
40	PI/2 BPSK	108	0	19.97	19.95	19.86	21.0	0.0
40	PI/2 BPSK	108	54	19.98	19.91	19.96	21.0	0.0
40	PI/2 BPSK	108	108	19.91	19.98	19.86	21.0	0.0
40	PI/2 BPSK	216	0	19.94	19.94	19.87		
40	QPSK	1	1	20.02	20.05	19.99		
40	QPSK	1	108	19.91	19.96	19.89	21.0	0.0
40	QPSK	1	214	19.94	19.92	19.91		
40	QPSK	108	0	19.98	19.97	19.87	21.0	0.0
40	QPSK	108	54	19.98	20.01	19.95	21.0	0.0
40	QPSK	108	108	19.92	19.96	19.93	21.0	0.0
40	QPSK	216	0	19.95	19.98	19.93		
40	16QAM	1	1	19.94	19.93	19.87	21.0	0.0
40	64QAM	1	1	19.92	19.93	19.48	20.5	0.5
40	256QAM	1	1	17.48	17.59	17.50	18.5	2.5
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	19.93	20.02	19.98	21.0	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	19.93	20.01	19.95	21.0	0.0
Channel				343500	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	19.94	19.95	19.92	21.0	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	19.93	20.02	19.89	21.0	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	19.89	19.98	19.86	21.0	0.0



n38 Ant 4 DSI3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	14.75	14.75	14.65		
40	PI/2 BPSK	1	53	14.69	14.75	14.64	16.1	0.0
40	PI/2 BPSK	1	104	14.70	14.73	14.72		
40	PI/2 BPSK	50	0	14.73	14.73	14.64	16.1	0.0
40	PI/2 BPSK	50	28	14.74	14.76	14.65	16.1	0.0
40	PI/2 BPSK	50	56	14.72	14.75	14.68		
40	PI/2 BPSK	100	0	14.69	14.65	14.78	16.1	0.0
40	QPSK	1	1	14.92	14.96	14.88		
40	QPSK	1	53	14.73	14.75	14.66	16.1	0.0
40	QPSK	1	104	14.65	14.69	14.72		
40	QPSK	50	0	14.71	14.77	14.68	16.1	0.0
40	QPSK	50	28	14.90	14.94	14.80	16.1	0.0
40	QPSK	50	56	14.60	14.69	14.66		
40	QPSK	100	0	14.82	14.88	14.76	16.1	0.0
40	16QAM	1	1	14.65	14.73	14.71	16.1	0.0
40	64QAM	1	1	14.70	14.83	14.66	16.1	0.0
40	256QAM	1	1	14.76	14.73	14.71	16.1	0.0
Channel				517002	519000	520998		
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	14.83	14.86	14.80	16.1	0.0
Channel				516000	519000	522000		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	14.88	14.89	14.77	16.1	0.0

n41 Ant 4 DSI3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	14.77	14.84	14.71		
100	PI/2 BPSK	1	137	14.74	14.80	14.70	16.1	0.0
100	PI/2 BPSK	1	271	14.75	14.75	14.79		
100	PI/2 BPSK	135	0	14.77	14.75	14.69	16.1	0.0
100	PI/2 BPSK	135	69	14.76	14.80	14.76	16.1	0.0
100	PI/2 BPSK	135	138	14.80	14.86	14.71		
100	PI/2 BPSK	270	0	14.75	14.74	14.80	16.1	0.0
100	QPSK	1	1	14.98	15.00	14.92		
100	QPSK	1	137	14.80	14.76	14.77	16.1	0.0
100	QPSK	1	271	14.76	14.80	14.79		
100	QPSK	135	0	14.82	14.78	14.79	16.1	0.0
100	QPSK	135	69	14.92	14.95	14.90	16.1	0.0
100	QPSK	135	138	14.71	14.81	14.77		
100	QPSK	270	0	14.90	14.91	14.83	16.1	0.0
100	16QAM	1	1	14.75	14.76	14.71	16.1	0.0
100	64QAM	1	1	14.78	14.86	14.74	16.1	0.0
100	256QAM	1	1	14.81	14.83	14.80	16.1	0.0
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	14.75	14.76	14.79	16.1	0.0
Channel				507204	518598	529996		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	14.77	14.83	14.80	16.1	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	14.72	14.82	14.78	16.1	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	14.82	14.84	14.79	16.1	0.0
Channel				504204	518598	532996		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	14.78	14.77	14.73	16.1	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	14.72	14.83	14.71	16.1	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	14.76	14.74	14.76	16.1	0.0
Channel				501204	518598	535996		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	14.73	14.86	14.71	16.1	0.0



Part27Q n78 Ant 5 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI/2 BPSK	1	1	17.08	17.08				
100	PI/2 BPSK	1	137	16.99	16.99		18.4	0.0	
100	PI/2 BPSK	1	271	17.04	17.04				
100	PI/2 BPSK	135	0	16.99	16.99		18.4	0.0	
100	PI/2 BPSK	135	69	17.04	17.04		18.4	0.0	
100	PI/2 BPSK	135	138	17.00	17.00				
100	PI/2 BPSK	270	0	17.01	17.01		18.4	0.0	
100	QPSK	1	1	17.20	17.20				
100	QPSK	1	137	17.00	17.00		18.4	0.0	
100	QPSK	1	271	16.99	16.99				
100	QPSK	135	0	17.10	17.10		18.4	0.0	
100	QPSK	135	69	17.15	17.15		18.4	0.0	
100	QPSK	135	138	17.04	17.04		18.4	0.0	
100	QPSK	270	0	17.10	17.10				
100	16QAM	1	1	17.09	17.09		18.4	0.0	
100	64QAM	1	1	17.09	17.09		18.4	0.0	
100	256QAM	1	1	17.04	17.04		18.4	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.07	17.03	18.89	18.4	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.05	18.92	18.89	18.4	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.01	18.98	18.89	18.4	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.02	18.98	18.89	18.4	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.08	17.01	18.97	18.4	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.05	17.03	18.95	18.4	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.02	17.01	18.93	18.4	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.06	16.97	16.92	18.4	0.0	

Part27Q n78 Ant 1 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI/2 BPSK	1	1	19.04	19.04				
100	PI/2 BPSK	1	137	19.05	19.05		20.5	0.0	
100	PI/2 BPSK	1	271	19.13	19.13				
100	PI/2 BPSK	135	0	18.63	18.63		20.0	0.5	
100	PI/2 BPSK	135	69	19.12	19.12		20.5	0.0	
100	PI/2 BPSK	135	138	18.70	18.70		20.0	0.5	
100	PI/2 BPSK	270	0	18.70	18.70				
100	QPSK	1	1	19.19	19.19				
100	QPSK	1	137	19.07	19.07		20.5	0.0	
100	QPSK	1	271	19.12	19.12				
100	QPSK	135	0	18.13	18.13		19.5	1.0	
100	QPSK	135	69	19.17	19.17		20.5	0.0	
100	QPSK	135	138	18.11	18.11		19.5	1.0	
100	QPSK	270	0	18.12	18.12				
100	16QAM	1	1	18.24	18.24		19.5	1.0	
100	64QAM	1	1	18.65	18.65		18.0	2.5	
100	256QAM	1	1	14.73	14.73		16.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.98	18.99	18.97	20.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.01	18.92	18.96	20.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.87	19.01	19.02	20.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.90	19.05	18.92	20.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.98	19.04	18.91	20.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.85	18.93	19.03	20.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.98	19.00	18.95	20.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.93	18.96	18.87	20.5	0.0	



Part27Q n78 Ant 2 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI/2 BPSK	1	1	18.22	633332	3499.98		
100	PI/2 BPSK	1	137	18.23			19.6	0.0
100	PI/2 BPSK	1	271	18.17				
100	PI/2 BPSK	135	0	18.15			19.6	0.0
100	PI/2 BPSK	135	69	18.18			19.6	0.0
100	PI/2 BPSK	135	138	18.12				
100	PI/2 BPSK	270	0	18.22			19.6	0.0
100	QPSK	1	1	18.25				
100	QPSK	1	137	18.14			19.6	0.0
100	QPSK	1	271	18.19				
100	QPSK	135	0	18.16			19.6	0.0
100	QPSK	135	69	18.19			19.6	0.0
100	QPSK	135	138	18.12				
100	QPSK	270	0	18.13			19.6	0.0
100	16QAM	1	1	18.17			19.6	0.0
100	64QAM	1	1	18.12			19.6	0.0
100	256QAM	1	1	18.07			18.0	1.6
Channel								
Frequency (MHz)								
90	QPSK	1	1	18.02	633000	3495	17.93	19.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.97	632668	3490.02	17.93	19.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.02	632334	3485.01	17.85	19.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.97	632000	3480	17.82	19.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.85	631668	3475.02	17.81	19.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.96	631334	3470.01	17.89	19.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.04	631000	3465	18.00	19.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.94	630668	3460.02	17.85	19.0

Part27Q n78 Ant 8 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI/2 BPSK	1	1	17.97	633332	3499.98		
100	PI/2 BPSK	1	137	18.01			19.5	0.0
100	PI/2 BPSK	1	271	18.05				
100	PI/2 BPSK	135	0	17.59			19.0	0.5
100	PI/2 BPSK	135	69	18.02			19.5	0.0
100	PI/2 BPSK	135	138	17.68				
100	PI/2 BPSK	270	0	17.65			19.0	0.5
100	QPSK	1	1	18.10				
100	QPSK	1	137	18.05			19.5	0.0
100	QPSK	1	271	17.92				
100	QPSK	135	0	17.14			18.5	1.0
100	QPSK	135	69	18.08			19.5	0.0
100	QPSK	135	138	17.11				
100	QPSK	270	0	17.14			18.5	1.0
100	16QAM	1	1	17.13			18.5	1.0
100	64QAM	1	1	15.55			17.0	2.5
100	256QAM	1	1	13.59			15.0	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	17.93	633000	3495	17.98	19.5
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.97	632668	3490.02	17.93	19.5
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.85	632334	3485.01	17.94	19.5
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.91	632000	3480	17.93	19.5
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.84	631668	3475.02	18.00	19.5
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.92	631334	3470.01	18.03	19.5
Channel								
Frequency (MHz)								
30	QPSK	1	1	17.87	631000	3465	18.03	19.5
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.88	630668	3460.02	17.91	19.5



Reduced Power Mode for DSI6

n2 Ant 0 DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI/2 BPSK	1	1	20.22	20.32	20.27	21.6	0.0	
20	PI/2 BPSK	1	53	20.28	20.35	20.25			
20	PI/2 BPSK	1	104	20.19	20.32	20.31			
20	PI/2 BPSK	50	0	20.20	20.31	20.31	21.6	0.0	
20	PI/2 BPSK	50	28	20.21	20.28	20.28	21.6	0.0	
20	PI/2 BPSK	50	56	20.17	20.35	20.29	21.6	0.0	
20	PI/2 BPSK	100	0	20.18	20.31	20.27			
20	QPSK	1	1	20.32	20.40	20.35			
20	QPSK	1	53	20.21	20.31	20.28	21.6	0.0	
20	QPSK	1	104	20.28	20.26	20.26			
20	QPSK	50	0	20.17	20.31	20.20			
20	QPSK	50	28	20.36	20.38	20.32	21.6	0.0	
20	QPSK	50	56	20.25	20.27	20.30	21.6	0.0	
20	QPSK	100	0	20.19	20.30	20.27			
20	16QAM	1	1	20.18	20.24	20.31			
20	64QAM	1	1	20.16	20.25	20.17	21.5	0.1	
20	256QAM	1	1	18.26	18.26	18.26	19.5	2.1	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	20.26	20.27	20.25	21.6	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	20.25	20.36	20.20	21.6	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	20.25	20.26	20.23	21.6	0.0	

n5 Ant 0 DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166900	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI/2 BPSK	1	1	23.29	23.32	23.27	24.0	0.0	
20	PI/2 BPSK	1	53	22.95	23.28	23.00			
20	PI/2 BPSK	1	104	23.08	23.33	23.07			
20	PI/2 BPSK	50	0	22.83	23.05	22.97	23.5	0.5	
20	PI/2 BPSK	50	28	23.26	23.40	23.33	24.0	0.0	
20	PI/2 BPSK	50	56	22.94	22.93	22.99	23.5	0.5	
20	PI/2 BPSK	100	0	22.84	23.08	22.99			
20	QPSK	1	1	23.38	23.49	23.42			
20	QPSK	1	53	23.15	23.35	23.23	24.0	0.0	
20	QPSK	1	104	23.19	23.39	23.28			
20	QPSK	50	0	22.34	22.47	22.45			
20	QPSK	50	28	23.32	23.46	23.42	24.0	0.0	
20	QPSK	50	56	22.39	22.45	22.44	23.0	1.0	
20	QPSK	100	0	22.42	22.48	22.44			
20	16QAM	1	1	22.37	22.53	22.48			
20	64QAM	1	1	20.90	20.98	20.93	21.5	2.5	
20	256QAM	1	1	18.82	18.94	18.97	19.5	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	23.30	23.36	23.27	24.0	0.0	
Channel				165900	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	23.19	23.40	23.34	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	23.28	23.27	23.30	24.0	0.0	



n26 Ant 0 DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164800	166300	167800			
Frequency (MHz)				824	831.5	839			
20	PI/2 BPSK	1	1	23.34	23.36	23.39	24.0	0.0	
20	PI/2 BPSK	1	53	23.34	23.45	23.29			
20	PI/2 BPSK	1	104	23.33	23.31	23.33			
20	PI/2 BPSK	50	0	22.95	23.04	22.97	23.5	0.5	
20	PI/2 BPSK	50	28	23.34	23.44	23.24	24.0	0.0	
20	PI/2 BPSK	50	56	23.02	23.06	23.03	23.5	0.5	
20	PI/2 BPSK	100	0	22.95	23.07	23.04			
20	PI/2 BPSK	1	1	23.50	23.55	23.48			
20	QPSK	1	53	23.32	23.41	23.38	24.0	0.0	
20	QPSK	1	104	23.44	23.49	23.28			
20	QPSK	50	0	22.54	22.46	22.50			
20	QPSK	50	28	23.40	23.42	23.36	24.0	0.0	
20	QPSK	50	56	22.45	22.52	22.46	23.0	1.0	
20	QPSK	100	0	22.42	22.55	22.52			
20	QPSK	1	1	22.59	22.62	22.44			
20	16QAM	1	1	20.97	21.12	21.06	21.5	2.5	
20	64QAM	1	1	20.97	21.12	21.06	19.5	4.5	
20	256QAM	1	1	19.08	19.07	19.02			
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	23.25	23.30	23.22	24.0	0.0	
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	23.30	23.30	23.14	24.0	0.0	
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	23.22	23.35	23.14	24.0	0.0	

n66 Ant 0 DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	20.46	20.56	20.48	22.1	0.0	
40	PI/2 BPSK	1	108	20.49	20.59	20.44			
40	PI/2 BPSK	1	214	20.45	20.55	20.52			
40	PI/2 BPSK	108	0	20.53	20.58	20.45	22.1	0.0	
40	PI/2 BPSK	108	54	20.47	20.51	20.51	22.1	0.0	
40	PI/2 BPSK	108	108	20.53	20.54	20.49	22.1	0.0	
40	PI/2 BPSK	216	0	20.54	20.51	20.46			
40	QPSK	1	1	20.62	20.67	20.61			
40	QPSK	1	108	20.55	20.60	20.48	22.1	0.0	
40	QPSK	1	214	20.46	20.55	20.46			
40	QPSK	108	0	20.55	20.60	20.48			
40	QPSK	108	54	20.59	20.64	20.54	22.1	0.0	
40	QPSK	108	108	20.51	20.52	20.55	22.1	0.0	
40	QPSK	216	0	20.54	20.61	20.57			
40	QPSK	1	1	20.44	20.51	20.53			
40	16QAM	1	1	20.04	20.05	19.97	21.5	0.6	
40	256QAM	1	1	17.97	18.07	18.02	19.5	2.6	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	20.53	20.53	20.49	22.1	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	20.46	20.59	20.54	22.1	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	20.49	20.58	20.50	22.1	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	20.46	20.55	20.50	22.1	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	20.46	20.60	20.44	22.1	0.0	

n7 Ant 1 DSI6								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	19.62	19.64	19.62	21.0	0.0
40	PI/2 BPSK	1	108	19.57	19.58	19.64		
40	PI/2 BPSK	1	214	19.61	19.64	19.61		
40	PI/2 BPSK	108	0	19.61	19.56	19.60	21.0	0.0
40	PI/2 BPSK	108	54	19.56	19.64	19.56	21.0	0.0
40	PI/2 BPSK	108	108	19.57	19.64	19.61	21.0	0.0
40	PI/2 BPSK	216	0	19.57	19.57	19.53		
40	QPSK	1	1	19.66	19.71	19.68	21.0	0.0
40	QPSK	1	108	19.51	19.62	19.61		
40	QPSK	1	214	19.62	19.64	19.56		
40	QPSK	108	0	19.52	19.60	19.56	21.0	0.0
40	QPSK	108	54	19.62	19.67	19.60	21.0	0.0
40	QPSK	108	108	19.56	19.64	19.65	21.0	0.0
40	QPSK	216	0	19.57	19.64	19.53		
40	16QAM	1	1	19.62	19.59	19.63	21.0	0.0
40	64QAM	1	1	19.53	19.56	19.55	21.0	0.0
40	256QAM	1	1	18.10	18.17	18.19	19.5	1.5
Channel				503000	507000	511000	Tune-up limit	MPR
Frequency (MHz)				2515	2535	2555	(dBm)	(dB)
30	QPSK	1	1	19.60	19.62	19.62	21.0	0.0
Channel				502500	507000	511500	Tune-up limit	MPR
Frequency (MHz)				2512.5	2535	2557.5	(dBm)	(dB)
25	QPSK	1	1	19.62	19.58	19.61	21.0	0.0
Channel				502000	507000	512000	Tune-up limit	MPR
Frequency (MHz)				2510	2535	2560	(dBm)	(dB)
20	QPSK	1	1	19.54	19.63	19.60	21.0	0.0
Channel				501500	507000	512500	Tune-up limit	MPR
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)
15	QPSK	1	1	19.55	19.59	19.55	21.0	0.0
Channel				501000	507000	513000	Tune-up limit	MPR
Frequency (MHz)				2505	2535	2565	(dBm)	(dB)
10	QPSK	1	1	19.56	19.66	19.59	21.0	0.0
Channel				500500	507000	513500	Tune-up limit	MPR
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)
5	QPSK	1	1	19.52	19.55	19.61	21.0	0.0



n2 Ant 4 DSI6								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1800	1880	1900		
20	PI/2 BPSK	1	1	18.40	18.47	18.42		
20	PI/2 BPSK	1	53	18.38	18.45	18.39	19.6	0.0
20	PI/2 BPSK	1	104	18.41	18.43	18.45		
20	PI/2 BPSK	50	0	18.46	18.51	18.36	19.6	0.0
20	PI/2 BPSK	50	28	18.38	18.44	18.40	19.6	0.0
20	PI/2 BPSK	50	56	18.36	18.50	18.47	19.6	0.0
20	PI/2 BPSK	100	0	18.41	18.42	18.38		
20	QPSK	1	1	18.52	18.60	18.54		
20	QPSK	1	53	18.41	18.48	18.37	19.6	0.0
20	QPSK	1	104	18.43	18.43	18.36		
20	QPSK	50	0	18.38	18.47	18.41	19.6	0.0
20	QPSK	50	28	18.52	18.55	18.50	19.6	0.0
20	QPSK	50	56	18.46	18.50	18.41	19.6	0.0
20	QPSK	100	0	18.48	18.50	18.45		
20	16QAM	1	1	18.43	18.44	18.43	19.6	0.0
20	64QAM	1	1	18.39	18.44	18.44	19.6	0.0
20	256QAM	1	1	17.47	17.54	17.39	18.5	1.1
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1875.5	1880	1902.5	19.0	0.0
15	QPSK	1	1	18.41	18.45	18.44		
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905	19.6	0.0
10	QPSK	1	1	18.37	18.46	18.45		
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5	19.6	0.0
5	QPSK	1	1	18.43	18.51	18.47	19.6	0.0

n5 Ant 4 DSI6								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	21.85	22.06	21.84		
20	PI/2 BPSK	1	53	21.80	21.91	22.06	23.0	0.0
20	PI/2 BPSK	1	104	21.99	21.98	21.98		
20	PI/2 BPSK	50	0	21.49	21.58	21.64	22.5	0.5
20	PI/2 BPSK	50	28	21.90	21.92	21.83	23.0	0.0
20	PI/2 BPSK	50	56	21.58	21.58	21.65	22.5	0.5
20	PI/2 BPSK	100	0	21.59	21.56	21.72		
20	QPSK	1	1	22.05	22.11	22.10		
20	QPSK	1	53	21.85	21.98	21.88	23.0	0.0
20	QPSK	1	104	21.87	21.97	21.89		
20	QPSK	50	0	21.19	21.12	21.16	22.0	1.0
20	QPSK	50	28	21.97	22.05	21.89	23.0	0.0
20	QPSK	50	56	21.17	21.22	21.12	22.0	1.0
20	QPSK	100	0	21.10	21.17	21.08		
20	16QAM	1	1	21.16	21.07	21.05	22.0	1.0
20	64QAM	1	1	19.58	19.70	19.51	20.5	2.5
20	256QAM	1	1	17.59	17.51	17.64	18.5	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5	23.0	0.0
15	QPSK	1	1	21.80	21.99	21.74		
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844	23.0	0.0
10	QPSK	1	1	21.76	21.99	21.75		
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5	23.0	0.0
5	QPSK	1	1	21.79	21.99	21.77	23.0	0.0



n7 Ant 4 DSI6								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	18.35	18.47	18.30		
40	PI/2 BPSK	1	108	18.39	18.39	18.38	19.9	0.0
40	PI/2 BPSK	1	214	18.38	18.44	18.36		
40	PI/2 BPSK	108	0	18.45	18.39	18.41	19.9	0.0
40	PI/2 BPSK	108	54	18.40	18.40	18.37	19.9	0.0
40	PI/2 BPSK	108	108	18.38	18.47	18.35	19.9	0.0
40	PI/2 BPSK	216	0	18.35	18.40	18.35		
40	QPSK	1	1	18.52	18.55	18.48		
40	QPSK	1	108	18.37	18.49	18.33	19.9	0.0
40	QPSK	1	214	18.39	18.43	18.35		
40	QPSK	108	0	18.45	18.39	18.36	19.9	0.0
40	QPSK	108	54	18.51	18.50	18.47	19.9	0.0
40	QPSK	108	108	18.40	18.49	18.37	19.9	0.0
40	QPSK	216	0	18.47	18.47	18.39		
40	16QAM	1	1	18.35	18.39	18.33	19.9	0.0
40	64QAM	1	1	18.43	18.38	18.41	19.9	0.0
40	256QAM	1	1	18.17	18.20	18.07	19.5	0.4
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	18.44	18.37	18.32	19.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	18.38	18.37	18.35	19.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	18.43	18.39	18.32	19.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	18.37	18.38	18.32	19.9	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	18.44	18.39	18.35	19.9	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	18.43	18.42	18.35	19.9	0.0

n26 Ant 4 DSI6								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				164800	166300	167800		
Frequency (MHz)				824	831.5	839		
20	PI/2 BPSK	1	1	21.82	21.79	21.81		
20	PI/2 BPSK	1	53	21.84	21.80	21.77	23.0	0.0
20	PI/2 BPSK	1	104	21.79	21.91	21.83		
20	PI/2 BPSK	50	0	21.34	21.46	21.45	22.5	0.5
20	PI/2 BPSK	50	28	21.81	21.90	21.74	23.0	0.0
20	PI/2 BPSK	50	56	21.35	21.45	21.39	22.5	0.5
20	PI/2 BPSK	100	0	21.45	21.50	21.38		
20	QPSK	1	1	21.92	22.01	21.95		
20	QPSK	1	53	21.77	21.85	21.78	23.0	0.0
20	QPSK	1	104	21.77	21.83	21.85		
20	QPSK	50	0	20.98	20.96	20.95	22.0	1.0
20	QPSK	50	28	21.79	21.95	21.83	23.0	0.0
20	QPSK	50	56	20.95	21.02	20.90	22.0	1.0
20	QPSK	100	0	20.90	20.94	20.88		
20	16QAM	1	1	21.00	20.95	21.04	22.0	1.0
20	64QAM	1	1	19.37	19.45	19.53	20.5	2.5
20	256QAM	1	1	17.34	17.44	17.48	18.5	4.5
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	1	21.70	21.88	21.72	23.0	0.0
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	1	21.68	21.73	21.83	23.0	0.0
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	1	21.67	21.72	21.72	23.0	0.0

n66 Ant 4 DSI6								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	19.54	19.57	19.46		
40	PI/2 BPSK	1	108	19.55	19.52	19.53	21.0	0.0
40	PI/2 BPSK	1	214	19.45	19.59	19.54		
40	PI/2 BPSK	108	0	19.47	19.56	19.49	21.0	0.0
40	PI/2 BPSK	108	54	19.45	19.52	19.54	21.0	0.0
40	PI/2 BPSK	108	108	19.48	19.58	19.53	21.0	0.0
40	PI/2 BPSK	216	0	19.47	19.54	19.49		
40	QPSK	1	1	19.61	19.66	19.60		
40	QPSK	1	108	19.49	19.50	19.43	21.0	0.0
40	QPSK	1	214	19.44	19.56	19.45		
40	QPSK	108	0	19.49	19.56	19.47	21.0	0.0
40	QPSK	108	54	19.60	19.63	19.58	21.0	0.0
40	QPSK	108	108	19.52	19.50	19.50	21.0	0.0
40	QPSK	216	0	19.56	19.59	19.56		
40	16QAM	1	1	19.49	19.58	19.45	21.0	0.0
40	64QAM	1	1	19.45	19.52	19.53	21.0	0.0
40	256QAM	1	1	19.06	19.16	19.13	20.5	0.5
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	19.47	19.39	19.43	21.0	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	19.47	19.38	19.37	21.0	0.0
Channel				343500	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	19.39	19.39	19.42	21.0	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	19.49	19.46	19.44	21.0	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	19.50	19.43	19.46	21.0	0.0



n38 Ant 4 DSI6								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	18.74	18.78	18.70		
40	PI/2 BPSK	1	53	18.68	18.80	18.72	20.1	0.0
40	PI/2 BPSK	1	104	18.84	18.69	18.66		
40	PI/2 BPSK	50	0	18.78	18.73	18.72	20.1	0.0
40	PI/2 BPSK	50	28	18.75	18.78	18.77	20.1	0.0
40	PI/2 BPSK	50	56	18.73	18.70	18.62		
40	PI/2 BPSK	100	0	18.73	18.81	18.77	20.1	0.0
40	QPSK	1	1	18.81	18.93	18.81		
40	QPSK	1	53	18.67	18.74	18.80	20.1	0.0
40	QPSK	1	104	18.75	18.76	18.69		
40	QPSK	50	0	18.72	18.73	18.70	20.1	0.0
40	QPSK	50	28	18.82	18.85	18.69	20.1	0.0
40	QPSK	50	56	18.80	18.70	18.74		
40	QPSK	100	0	18.79	18.80	18.79	20.1	0.0
40	16QAM	1	1	18.75	18.81	18.72	20.1	0.0
40	64QAM	1	1	18.70	18.78	18.76	20.1	0.0
40	256QAM	1	1	18.34	18.30	18.15	19.5	0.5
Channel				517092	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2535.01	2595	2604.99		
30	QPSK	1	1	18.71	18.88	18.70	20.1	0.0
Channel				516090	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	18.71	18.82	18.78	20.1	0.0

n41 Ant 4 DSI6								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	18.79	18.84	18.76		
100	PI/2 BPSK	1	137	18.77	18.88	18.72	20.1	0.0
100	PI/2 BPSK	1	271	18.85	18.78	18.76		
100	PI/2 BPSK	135	0	18.80	18.85	18.73	20.1	0.0
100	PI/2 BPSK	135	69	18.81	18.88	18.83	20.1	0.0
100	PI/2 BPSK	135	138	18.82	18.82	18.72		
100	PI/2 BPSK	270	0	18.78	18.85	18.82	20.1	0.0
100	QPSK	1	1	18.92	18.95	18.90		
100	QPSK	1	137	18.78	18.84	18.82	20.1	0.0
100	QPSK	1	271	18.85	18.81	18.80		
100	QPSK	135	0	18.78	18.85	18.78	20.1	0.0
100	QPSK	135	69	18.85	18.90	18.80	20.1	0.0
100	QPSK	135	138	18.81	18.81	18.76		
100	QPSK	270	0	18.88	18.89	18.85	20.1	0.0
100	16QAM	1	1	18.83	18.86	18.76	20.1	0.0
100	64QAM	1	1	18.75	18.87	18.81	20.1	0.0
100	256QAM	1	1	18.35	18.35	18.24	19.5	0.5
Channel				508200	518598	528998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2542	2592.99	2644.98		
90	QPSK	1	1	18.82	18.92	18.77	20.1	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	18.84	18.87	18.73	20.1	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	18.75	18.87	18.80	20.1	0.0
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	18.80	18.80	18.76	20.1	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	18.74	18.83	18.74	20.1	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	18.79	18.87	18.79	20.1	0.0
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	18.76	18.85	18.77	20.1	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	18.81	18.87	18.74	20.1	0.0



Part27Q n78 Ant 5 DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633332					
Frequency (MHz)				3499.98					
100	PI/2 BPSK	1	1	19.57			20.8	0.0	
100	PI/2 BPSK	1	137	19.55					
100	PI/2 BPSK	1	271	19.62					
100	PI/2 BPSK	135	0	19.56			20.8	0.0	
100	PI/2 BPSK	135	69	19.61			20.8	0.0	
100	PI/2 BPSK	135	138	19.63			20.8	0.0	
100	PI/2 BPSK	270	0	19.62					
100	QPSK	1	1	19.70					
100	QPSK	1	137	19.54			20.8	0.0	
100	QPSK	1	271	19.61					
100	QPSK	135	0	19.60			20.8	0.0	
100	QPSK	135	69	19.65			20.8	0.0	
100	QPSK	135	138	19.59			20.8	0.0	
100	QPSK	270	0	19.61					
100	16QAM	1	1	19.64			20.8	0.0	
100	64QAM	1	1	19.60			20.8	0.0	
100	256QAM	1	1	19.40			20.5	0.3	
Channel				633000	633332	633666			
Frequency (MHz)				3495	3499.98	3504.99	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	19.47	19.43	19.51	20.0	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1	19.37	19.43	19.42	20.0	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1	19.44	19.57	19.39	20.0	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3519.99			
60	QPSK	1	1	19.30	19.57	19.49	20.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1	19.41	19.53	19.45	20.0	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	19.49	19.57	19.44	20.8	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99			
30	QPSK	1	1	19.41	19.57	19.45	20.8	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1	19.43	19.58	19.47	20.8	0.0	

Part27Q n78 Ant 1 DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633332					
Frequency (MHz)				3499.98					
100	PI/2 BPSK	1	1	19.04			20.5	0.0	
100	PI/2 BPSK	1	137	19.05					
100	PI/2 BPSK	1	271	19.13					
100	PI/2 BPSK	135	0	18.63			20.0	0.5	
100	PI/2 BPSK	135	69	19.12			20.5	0.0	
100	PI/2 BPSK	135	138	18.70			20.0	0.5	
100	PI/2 BPSK	270	0	18.70					
100	QPSK	1	1	19.19					
100	QPSK	1	137	19.07			20.5	0.0	
100	QPSK	1	271	19.12					
100	QPSK	135	0	18.13			19.5	1.0	
100	QPSK	135	69	19.17			20.5	0.0	
100	QPSK	135	138	18.11			19.5	1.0	
100	QPSK	270	0	18.12					
100	16QAM	1	1	18.24			19.5	1.0	
100	64QAM	1	1	16.65			18.0	2.5	
100	256QAM	1	1	14.73			16.0	4.5	
Channel				633000	633332	633666			
Frequency (MHz)				3495	3499.98	3504.99	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	18.96	18.99	19.97	20.5	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1	19.01	18.92	18.96	20.5	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1	18.87	19.01	19.02	20.5	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3519.99			
60	QPSK	1	1	18.90	19.05	18.92	20.5	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	QPSK	1	1	18.98	19.04	18.91	20.5	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	18.85	18.93	19.03	20.5	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99			
30	QPSK	1	1	18.98	19.00	18.95	20.5	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1	18.93	18.96	18.87	20.5	0.0	



Part27Q n78 Ant 2 DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633332					
Frequency (MHz)				3499.98					
100	PI/2 BPSK	1	1	21.36			22.5	0.0	
100	PI/2 BPSK	1	137	21.38					
100	PI/2 BPSK	1	271	21.36					
100	PI/2 BPSK	135	0	20.93					
100	PI/2 BPSK	135	69	21.41					
100	PI/2 BPSK	135	138	20.87					
100	PI/2 BPSK	270	0	21.01					
100	QPSK	1	1	21.51					
100	QPSK	1	137	21.34					
100	QPSK	1	271	21.42					
100	QPSK	135	0	20.59					
100	QPSK	135	69	21.44					
100	QPSK	135	138	20.42					
100	QPSK	270	0	20.48					
100	16QAM	1	1	20.45					
100	64QAM	1	1	18.99					
100	256QAM	1	1	17.03					
Channel				633000	633332	633666			
Frequency (MHz)				3495	3499.98	3504.99	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	21.44	21.42	21.39	22.5	0.0	
Channel				632668	633332	634000			
Frequency (MHz)				3499.02	3499.98	3510	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	21.20	21.30	21.31	22.5	0.0	
Channel				632334	633332	634332			
Frequency (MHz)				3485.01	3499.98	3514.98	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	21.34	21.30	21.25	22.5	0.0	
Channel				632000	633332	634666			
Frequency (MHz)				3480	3499.98	3519.99	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	21.32	21.31	21.30	22.5	0.0	
Channel				631668	633332	635000			
Frequency (MHz)				3475.02	3499.98	3525	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	21.33	21.41	21.28	22.5	0.0	
Channel				631334	633332	635332			
Frequency (MHz)				3470.01	3499.98	3529.98	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	21.35	21.35	21.34	22.5	0.0	
Channel				631000	633332	635666			
Frequency (MHz)				3465	3499.98	3534.99	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	21.34	21.37	21.30	22.5	0.0	
Channel				630668	633332	636000			
Frequency (MHz)				3460.02	3499.98	3540	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	21.38	21.37	21.34	22.5	0.0	

Part27Q n78 Ant 8 DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633332					
Frequency (MHz)				3499.98					
100	PI/2 BPSK	1	1	17.97			19.5	0.0	
100	PI/2 BPSK	1	137	18.01					
100	PI/2 BPSK	1	271	18.05					
100	PI/2 BPSK	135	0	17.59					
100	PI/2 BPSK	135	69	18.02					
100	PI/2 BPSK	135	138	17.68					
100	PI/2 BPSK	270	0	17.65					
100	QPSK	1	1	18.10					
100	QPSK	1	137	18.05					
100	QPSK	1	271	17.92					
100	QPSK	135	0	17.44					
100	QPSK	135	69	18.08					
100	QPSK	135	138	17.11					
100	QPSK	270	0	17.14					
100	16QAM	1	1	17.13					
100	64QAM	1	1	15.55					
100	256QAM	1	1	13.59					
Channel				633000	633332	633666			
Frequency (MHz)				3495	3499.98	3504.99	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	17.93	17.98	17.91	19.5	0.0	
Channel				632668	633332	634000			
Frequency (MHz)				3499.02	3499.98	3510	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	17.97	17.93	17.92	19.5	0.0	
Channel				632334	633332	634332			
Frequency (MHz)				3485.01	3499.98	3514.98	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	17.85	17.94	17.79	19.5	0.0	
Channel				632000	633332	634666			
Frequency (MHz)				3480	3499.98	3519.99	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	17.91	17.93	17.81	19.5	0.0	
Channel				631668	633332	635000			
Frequency (MHz)				3475.02	3499.98	3525	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	17.84	18.00	17.88	19.5	0.0	
Channel				631334	633332	635332			
Frequency (MHz)				3470.01	3499.98	3529.98	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	17.92	18.03	17.92	19.5	0.0	
Channel				631000	633332	635666			
Frequency (MHz)				3465	3499.98	3534.99	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	17.87	18.03	17.94	19.5	0.0	
Channel				630668	633332	636000			
Frequency (MHz)				3460.02	3499.98	3540	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	17.88	17.91	17.80	19.5	0.0	



n2 Ant 0 DSI7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1880	1880	1900		
20	PI/2 BPSK	1	1	17.24	17.29	17.30		
20	PI/2 BPSK	1	53	17.31	17.39	17.25	18.6	0.0
20	PI/2 BPSK	1	104	17.29	17.35	17.28		
20	PI/2 BPSK	50	0	17.30	17.40	17.24	18.6	0.0
20	PI/2 BPSK	50	28	17.24	17.30	17.24	18.6	0.0
20	PI/2 BPSK	50	56	17.34	17.29	17.28		
20	PI/2 BPSK	100	0	17.30	17.38	17.30	18.6	0.0
20	QPSK	1	1	17.38	17.42	17.36		
20	QPSK	1	53	17.32	17.32	17.31	18.6	0.0
20	QPSK	1	104	17.29	17.28	17.33		
20	QPSK	50	0	17.32	17.35	17.27	18.6	0.0
20	QPSK	50	28	17.35	17.40	17.32	18.6	0.0
20	QPSK	50	56	17.28	17.35	17.34	18.6	0.0
20	QPSK	100	0	17.26	17.37	17.32		
20	16QAM	1	1	17.27	17.32	17.28	18.6	0.0
20	64QAM	1	1	17.36	17.34	17.28	18.6	0.0
20	256QAM	1	1	17.28	17.35	17.25	18.6	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5	18.6	0.0
15	QPSK	1	1	17.29	17.29	17.32	18.6	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905	18.6	0.0
10	QPSK	1	1	17.29	17.34	17.33	18.6	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5	18.6	0.0
5	QPSK	1	1	17.26	17.32	17.23	18.6	0.0

n5 Ant 0 DSI7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	23.29	23.32	23.27		
20	PI/2 BPSK	1	53	22.95	23.28	23.00	24.0	0.0
20	PI/2 BPSK	1	104	23.08	23.33	23.07		
20	PI/2 BPSK	50	0	22.83	23.05	22.97	23.5	0.5
20	PI/2 BPSK	50	28	23.26	23.40	23.33	24.0	0.0
20	PI/2 BPSK	50	56	22.94	22.93	22.99	23.5	0.5
20	PI/2 BPSK	100	0	22.84	23.08	22.99		
20	QPSK	1	1	23.38	23.49	23.42		
20	QPSK	1	53	23.15	23.35	23.23	24.0	0.0
20	QPSK	1	104	23.19	23.39	23.28		
20	QPSK	50	0	22.34	22.47	22.45	23.0	1.0
20	QPSK	50	28	23.32	23.46	23.42	24.0	0.0
20	QPSK	50	56	22.39	22.45	22.44	23.0	1.0
20	QPSK	100	0	22.42	22.48	22.44		
20	16QAM	1	1	22.37	22.53	22.48	23.0	1.0
20	64QAM	1	1	20.90	20.98	20.93	21.5	2.5
20	256QAM	1	1	18.82	18.94	18.97	19.5	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5	24.0	0.0
15	QPSK	1	1	23.30	23.36	23.27	24.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844	24.0	0.0
10	QPSK	1	1	23.19	23.40	23.34	24.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5	24.0	0.0
5	QPSK	1	1	23.28	23.27	23.30	24.0	0.0



n26 Ant 0 DSI7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				164800	166300	167800		
Frequency (MHz)				824	831.5	839		
20	PI/2 BPSK	1	1	23.34	23.36	23.39		
20	PI/2 BPSK	1	53	23.34	23.45	23.29	24.0	0.0
20	PI/2 BPSK	1	104	23.33	23.31	23.33		
20	PI/2 BPSK	50	0	22.95	23.04	22.97	23.5	0.5
20	PI/2 BPSK	50	28	23.34	23.44	23.24	24.0	0.0
20	PI/2 BPSK	50	56	23.02	23.06	23.03		
20	PI/2 BPSK	100	0	22.95	23.07	23.04	23.5	0.5
20	QPSK	1	1	23.50	23.55	23.48		
20	QPSK	1	53	23.32	23.41	23.38	24.0	0.0
20	QPSK	1	104	23.44	23.49	23.28		
20	QPSK	50	0	22.54	22.46	22.50	23.0	1.0
20	QPSK	50	28	23.40	23.42	23.36	24.0	0.0
20	QPSK	50	56	22.45	22.52	22.46		
20	QPSK	100	0	22.42	22.55	22.52	23.0	1.0
20	16QAM	1	1	22.59	22.62	22.44	23.0	1.0
20	64QAM	1	1	20.97	21.12	21.06	21.5	2.5
20	256QAM	1	1	19.00	19.07	19.02	19.5	4.5
Channel				164300	166300	168300	Tune-up limit	MPR
Frequency (MHz)				821.5	831.5	841.5	(dBm)	(dB)
15	QPSK	1	1	23.25	23.30	23.22	24.0	0.0
Channel				163800	166300	168800	Tune-up limit	MPR
Frequency (MHz)				819	831.5	844	(dBm)	(dB)
10	QPSK	1	1	23.30	23.30	23.14	24.0	0.0
Channel				163300	166300	169300	Tune-up limit	MPR
Frequency (MHz)				816.5	831.5	846.5	(dBm)	(dB)
5	QPSK	1	1	23.22	23.35	23.14	24.0	0.0

n66 Ant 0 DSI7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	16.09	16.24	16.12		
40	PI/2 BPSK	1	108	16.08	16.19	16.18	17.7	0.0
40	PI/2 BPSK	1	214	16.15	16.20	16.14		
40	PI/2 BPSK	108	0	16.18	16.22	16.18	17.7	0.0
40	PI/2 BPSK	108	54	16.14	16.19	16.15	17.7	0.0
40	PI/2 BPSK	108	108	16.14	16.25	16.17		
40	PI/2 BPSK	216	0	16.17	16.15	16.13	17.7	0.0
40	QPSK	1	1	16.26	16.31	16.29		
40	QPSK	1	108	16.16	16.15	16.20	17.7	0.0
40	QPSK	1	214	16.18	16.24	16.14		
40	QPSK	108	0	16.11	16.22	16.18	17.7	0.0
40	QPSK	108	54	16.15	16.28	16.22	17.7	0.0
40	QPSK	108	108	16.11	16.18	16.19		
40	QPSK	216	0	16.22	16.24	16.20	17.7	0.0
40	16QAM	1	1	16.18	16.16	16.23	17.7	0.0
40	64QAM	1	1	16.16	16.19	16.19	17.7	0.0
40	256QAM	1	1	16.17	16.21	16.12	17.7	0.0
Channel				345000	349000	353000	Tune-up limit	MPR
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)
30	QPSK	1	1	16.12	16.21	16.12	17.7	0.0
Channel				344000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	QPSK	1	1	16.16	16.21	16.18	17.7	0.0
Channel				343500	349000	354500	Tune-up limit	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	QPSK	1	1	16.18	16.19	16.14	17.7	0.0
Channel				343000	349000	355000	Tune-up limit	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	QPSK	1	1	16.19	16.19	16.17	17.7	0.0
Channel				342500	349000	355500	Tune-up limit	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	QPSK	1	1	16.13	16.17	16.14	17.7	0.0

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Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
40	16.63	16.57	16.56	17.9	0.0
40	16.63	16.58	16.54		
40	16.53	16.58	16.58		
40	16.60	16.61	16.56	17.9	0.0
40	16.64	16.66	16.52	17.9	0.0
40	16.61	16.57	16.62	17.9	0.0
40	16.56	16.58	16.55	17.9	0.0
40	16.71	16.75	16.69		
40	16.59	16.63	16.61		
40	16.57	16.57	16.59	16.9	1.0
40	16.59	16.63	16.59	17.9	0.0
40	16.66	16.72	16.68	16.9	1.0
40	16.57	16.65	16.58	16.9	1.0
40	16.62	16.68	16.65	17.9	0.0
40	16.63	16.59	16.56	17.9	0.0
40	16.64	16.65	16.61	17.9	0.0
40	16.56	16.63	16.63	17.9	0.0
30	16.55	16.68	16.61	17.9	0.0
25	16.60	16.59	16.53	17.9	0.0
20	16.54	16.61	16.56	17.9	0.0
15	16.54	16.68	16.51	17.9	0.0
10	16.54	16.64	16.59	17.9	0.0
5	16.64	16.61	16.52	17.9	0.0



n2 Ant 4 DSI7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1800	1880	1900		
20	PI/2 BPSK	1	1	14.18	14.18	14.12		
20	PI/2 BPSK	1	53	14.18	14.27	14.23	15.6	0.0
20	PI/2 BPSK	1	104	14.19	14.26	14.11		
20	PI/2 BPSK	50	0	14.24	14.23	14.12	15.6	0.0
20	PI/2 BPSK	50	28	14.15	14.28	14.13	15.6	0.0
20	PI/2 BPSK	50	56	14.14	14.23	14.17		
20	PI/2 BPSK	100	0	14.22	14.24	14.12	15.6	0.0
20	QPSK	1	1	14.31	14.35	14.29		
20	QPSK	1	53	14.22	14.27	14.16	15.6	0.0
20	QPSK	1	104	14.19	14.18	14.19		
20	QPSK	50	0	14.22	14.25	14.20	15.6	0.0
20	QPSK	50	28	14.25	14.28	14.23	15.6	0.0
20	QPSK	50	56	14.21	14.18	14.17	15.6	0.0
20	QPSK	100	0	14.26	14.26	14.18		
20	16QAM	1	1	14.14	14.19	14.15	15.6	0.0
20	64QAM	1	1	14.20	14.28	14.13	15.6	0.0
20	256QAM	1	1	14.19	14.20	14.14	15.6	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5	15.6	0.0
15	QPSK	1	1	14.24	14.26	14.13		
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905	15.6	0.0
10	QPSK	1	1	14.24	14.20	14.22		
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5	15.6	0.0
5	QPSK	1	1	14.25	14.24	14.22		

n5 Ant 4 DSI7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	20.94	21.04	21.00		
20	PI/2 BPSK	1	53	20.95	21.11	20.95	22.3	0.0
20	PI/2 BPSK	1	104	21.04	21.02	20.89		
20	PI/2 BPSK	50	0	21.05	21.02	20.90	22.3	0.0
20	PI/2 BPSK	50	28	21.05	21.01	21.00	22.3	0.0
20	PI/2 BPSK	50	56	20.94	21.06	20.97		
20	PI/2 BPSK	100	0	21.00	21.03	20.88	22.3	0.0
20	QPSK	1	1	21.09	21.17	21.04		
20	QPSK	1	53	21.16	21.10	21.05	22.3	0.0
20	QPSK	1	104	21.12	21.09	21.07		
20	QPSK	50	0	20.98	21.01	21.00	22.0	0.3
20	QPSK	50	28	20.95	21.04	20.96	22.3	0.0
20	QPSK	50	56	20.96	21.02	20.91	22.0	0.3
20	QPSK	100	0	20.97	21.01	20.97		
20	16QAM	1	1	21.28	21.20	21.16	22.0	0.3
20	64QAM	1	1	19.72	19.83	19.65	20.5	1.8
20	256QAM	1	1	17.63	17.70	17.73	18.5	3.8
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5	22.3	0.0
15	QPSK	1	1	21.00	21.09	20.95		
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844	22.3	0.0
10	QPSK	1	1	21.03	21.07	20.90		
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5	22.3	0.0
5	QPSK	1	1	20.95	21.04	20.92		



n7 Ant 4 DSI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI/2 BPSK	1	1	12.36	12.39	12.35			
40	PI/2 BPSK	1	108	12.29	12.36	12.39	13.4	0.0	
40	PI/2 BPSK	1	214	12.38	12.40	12.41			
40	PI/2 BPSK	108	0	12.35	12.35	12.36	13.4	0.0	
40	PI/2 BPSK	108	54	12.35	12.41	12.32	13.4	0.0	
40	PI/2 BPSK	108	108	12.30	12.40	12.33			
40	PI/2 BPSK	216	0	12.35	12.36	12.30	13.4	0.0	
40	QPSK	1	1	12.48	12.55	12.51			
40	QPSK	1	108	12.37	12.44	12.32	13.4	0.0	
40	QPSK	1	214	12.28	12.42	12.33			
40	QPSK	108	0	12.32	12.34	12.40	13.4	0.0	
40	QPSK	108	54	12.43	12.51	12.39	13.4	0.0	
40	QPSK	108	108	12.36	12.43	12.37			
40	QPSK	216	0	12.38	12.46	12.48	13.4	0.0	
40	16QAM	1	1	12.29	12.44	12.41	13.4	0.0	
40	64QAM	1	1	12.28	12.36	12.41	13.4	0.0	
40	256QAM	1	1	12.37	12.39	12.34	13.4	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	13.4	0.0	
30	QPSK	1	1	12.25	12.27	12.33			
Channel				502000	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	13.4	0.0	
25	QPSK	1	1	12.33	12.31	12.30			
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	13.4	0.0	
20	QPSK	1	1	12.30	12.35	12.33			
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	13.4	0.0	
15	QPSK	1	1	12.24	12.28	12.27			
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	13.4	0.0	
10	QPSK	1	1	12.33	12.30	12.27			
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	13.4	0.0	
5	QPSK	1	1	12.23	12.25	12.28			

n26 Ant 4 DSI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				164500	166300	167800			
Frequency (MHz)				824	831.5	839			
20	PI/2 BPSK	1	1	21.62	21.79	21.81			
20	PI/2 BPSK	1	53	21.84	21.80	21.77	23.0	0.0	
20	PI/2 BPSK	1	104	21.79	21.91	21.83			
20	PI/2 BPSK	50	0	21.34	21.46	21.45	22.5	0.5	
20	PI/2 BPSK	50	28	21.81	21.90	21.74	23.0	0.0	
20	PI/2 BPSK	50	56	21.35	21.45	21.39			
20	PI/2 BPSK	100	0	21.45	21.50	21.38	22.5	0.5	
20	QPSK	1	1	21.92	22.01	21.95			
20	QPSK	1	53	21.77	21.85	21.78	23.0	0.0	
20	QPSK	1	104	21.77	21.83	21.85			
20	QPSK	50	0	20.98	20.96	20.95	22.0	1.0	
20	QPSK	50	28	21.79	21.95	21.83	23.0	0.0	
20	QPSK	50	56	20.95	21.02	20.90			
20	QPSK	100	0	20.90	20.94	20.88	22.0	1.0	
20	16QAM	1	1	21.00	20.95	21.04	22.0	1.0	
20	64QAM	1	1	19.37	19.45	19.53	20.5	2.5	
20	256QAM	1	1	17.34	17.44	17.48	18.5	4.5	
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5	23.0	0.0	
15	QPSK	1	1	21.70	21.88	21.72			
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844	23.0	0.0	
10	QPSK	1	1	21.68	21.73	21.83			
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5	23.0	0.0	
5	QPSK	1	1	21.67	21.72	21.72			



n66 Ant 4 DSI7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	15.98	16.13	16.05	17.6	0.0
40	PI/2 BPSK	1	108	16.03	16.07	16.04		
40	PI/2 BPSK	1	214	16.08	16.09	16.01		
40	PI/2 BPSK	108	0	16.06	16.09	16.05	17.6	0.0
40	PI/2 BPSK	108	54	16.05	16.13	16.08	17.6	0.0
40	PI/2 BPSK	108	108	16.00	16.05	16.04	17.6	0.0
40	PI/2 BPSK	216	0	16.07	16.12	16.06		
40	QPSK	1	1	16.16	16.20	16.14		
40	QPSK	1	108	15.99	16.06	16.03	17.6	0.0
40	QPSK	1	214	16.09	16.10	16.03		
40	QPSK	108	0	16.01	16.05	15.98		
40	QPSK	108	54	16.12	16.15	16.10	17.6	0.0
40	QPSK	108	108	16.08	16.09	16.00	17.6	0.0
40	QPSK	216	0	16.08	16.12	16.06		
40	16QAM	1	1	16.05	16.12	16.08		
40	64QAM	1	1	15.98	16.06	15.96	17.6	0.0
40	256QAM	1	1	16.03	16.07	16.06	17.6	0.0
Channel				345000	349000	353000	Tune-up limit	MPR
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)
30	QPSK	1	1	16.07	16.05	15.98	17.6	0.0
Channel				344000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	QPSK	1	1	16.03	16.08	16.00	17.6	0.0
Channel				343500	349000	354500	Tune-up limit	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	QPSK	1	1	16.00	16.07	16.06	17.6	0.0
Channel				343000	349000	355000	Tune-up limit	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	QPSK	1	1	16.06	16.11	16.05	17.6	0.0
Channel				342500	349000	355500	Tune-up limit	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	QPSK	1	1	16.10	16.07	16.08	17.6	0.0



n38 Ant 4 DSI7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				518004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	12.18	12.29	12.18		
40	PI/2 BPSK	1	53	12.11	12.21	12.17	13.7	0.0
40	PI/2 BPSK	1	104	12.14	12.35	12.15		
40	PI/2 BPSK	50	0	12.13	12.24	12.22	13.7	0.0
40	PI/2 BPSK	50	28	12.20	12.26	12.22	13.7	0.0
40	PI/2 BPSK	50	56	12.20	12.23	12.13		
40	PI/2 BPSK	100	0	12.18	12.26	12.26	13.7	0.0
40	QPSK	1	1	12.27	12.44	12.35		
40	QPSK	1	53	12.16	12.22	12.22	13.7	0.0
40	QPSK	1	104	12.13	12.19	12.14		
40	QPSK	50	0	12.11	12.24	12.26	13.7	0.0
40	QPSK	50	28	12.28	12.35	12.25	13.7	0.0
40	QPSK	50	56	12.18	12.15	12.25		
40	QPSK	100	0	12.26	12.34	12.26	13.7	0.0
40	16QAM	1	1	12.10	12.25	12.16	13.7	0.0
40	64QAM	1	1	12.21	12.29	12.12	13.7	0.0
40	256QAM	1	1	12.22	12.19	12.23	13.7	0.0
Channel				517002	519000	520998	Tune-up limit	MPR
Frequency (MHz)				2585.01	2595	2604.99	(dBm)	(dB)
30	QPSK	1	1	12.16	12.32	12.23	13.7	0.0
Channel				516000	519000	522000	Tune-up limit	MPR
Frequency (MHz)				2580	2595	2610	(dBm)	(dB)
20	QPSK	1	1	12.16	12.30	12.23	13.7	0.0

n41 Ant 4 DSI7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	12.32	12.37	12.30		
100	PI/2 BPSK	1	137	12.23	12.36	12.28	13.7	0.0
100	PI/2 BPSK	1	271	12.27	12.38	12.24		
100	PI/2 BPSK	135	0	12.24	12.37	12.25	13.7	0.0
100	PI/2 BPSK	135	69	12.27	12.35	12.35	13.7	0.0
100	PI/2 BPSK	135	138	12.24	12.30	12.26		
100	PI/2 BPSK	270	0	12.27	12.34	12.31	13.7	0.0
100	QPSK	1	1	12.42	12.49	12.45		
100	QPSK	1	137	12.30	12.30	12.36	13.7	0.0
100	QPSK	1	271	12.25	12.30	12.29		
100	QPSK	135	0	12.22	12.36	12.34	13.7	0.0
100	QPSK	135	69	12.38	12.42	12.40	13.7	0.0
100	QPSK	135	138	12.32	12.29	12.32		
100	QPSK	270	0	12.37	12.39	12.35	13.7	0.0
100	16QAM	1	1	12.21	12.35	12.30	13.7	0.0
100	64QAM	1	1	12.27	12.39	12.26	13.7	0.0
100	256QAM	1	1	12.29	12.28	12.35	13.7	0.0
Channel				508200	518598	528998	Tune-up limit	MPR
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)
90	QPSK	1	1	12.31	12.28	12.24	13.7	0.0
Channel				507204	518598	529998	Tune-up limit	MPR
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)
80	QPSK	1	1	12.28	12.32	12.32	13.7	0.0
Channel				506202	518598	531000	Tune-up limit	MPR
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)
70	QPSK	1	1	12.30	12.31	12.29	13.7	0.0
Channel				505200	518598	531998	Tune-up limit	MPR
Frequency (MHz)				2526	2592.99	2659.98	(dBm)	(dB)
60	QPSK	1	1	12.28	12.30	12.29	13.7	0.0
Channel				504204	518598	532998	Tune-up limit	MPR
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)	(dB)
50	QPSK	1	1	12.28	12.32	12.25	13.7	0.0
Channel				503202	518598	534000	Tune-up limit	MPR
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)
40	QPSK	1	1	12.23	12.39	12.28	13.7	0.0
Channel				502200	518598	534998	Tune-up limit	MPR
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)
30	QPSK	1	1	12.29	12.39	12.33	13.7	0.0
Channel				501204	518598	535998	Tune-up limit	MPR
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	12.28	12.34	12.25	13.7	0.0



Part27Q n78 Ant 5 DSI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				633332	633332	633332			
100	PI/2 BPSK	1	1	3499.98	13.48				
100	PI/2 BPSK	1	137		13.55		14.7	0.0	
100	PI/2 BPSK	1	271		13.48				
100	PI/2 BPSK	135	0		13.49		14.7	0.0	
100	PI/2 BPSK	135	69		13.44		14.7	0.0	
100	PI/2 BPSK	135	138		13.49				
100	PI/2 BPSK	270	0		13.50		14.7	0.0	
100	QPSK	1	1		13.62				
100	QPSK	1	137		13.44		14.7	0.0	
100	QPSK	1	271		13.47				
100	QPSK	135	0		13.54		14.7	0.0	
100	QPSK	135	69		13.59		14.7	0.0	
100	QPSK	135	138		13.44				
100	QPSK	270	0		13.52		14.7	0.0	
100	16QAM	1	1		13.48		14.7	0.0	
100	64QAM	1	1		13.48		14.7	0.0	
100	256QAM	1	1		13.49		14.7	0.0	
Channel									
Frequency (MHz)				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	3495	3499.98	3504.99	14.7	0.0	
Channel									
Frequency (MHz)				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3490.02	3499.98	3510	14.7	0.0	
Channel									
Frequency (MHz)				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	3485.01	3499.98	3514.98	14.7	0.0	
Channel									
Frequency (MHz)				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3480	3499.98	3519.99	14.7	0.0	
Channel									
Frequency (MHz)				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	3475.02	3499.98	3525	14.7	0.0	
Channel									
Frequency (MHz)				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	3470.01	3499.98	3529.98	14.7	0.0	
Channel									
Frequency (MHz)				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	3465	3499.98	3534.99	14.7	0.0	
Channel									
Frequency (MHz)				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	3460.02	3499.98	3540	14.7	0.0	

Part27Q n78 Ant 1 DSI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				633332	633332	633332			
100	PI/2 BPSK	1	1	3499.98	19.04				
100	PI/2 BPSK	1	137		19.05		20.5	0.0	
100	PI/2 BPSK	1	271		19.13				
100	PI/2 BPSK	135	0		18.63		20.0	0.5	
100	PI/2 BPSK	135	69		19.12		20.5	0.0	
100	PI/2 BPSK	135	138		18.70		20.0	0.5	
100	PI/2 BPSK	270	0		18.70				
100	QPSK	1	1		19.19				
100	QPSK	1	137		18.07		20.5	0.0	
100	QPSK	1	271		18.12				
100	QPSK	135	0		18.13		19.5	1.0	
100	QPSK	135	69		19.17		20.5	0.0	
100	QPSK	135	138		18.11		19.5	1.0	
100	QPSK	270	0		18.12				
100	16QAM	1	1		18.24		19.5	1.0	
100	64QAM	1	1		18.65		18.0	2.5	
100	256QAM	1	1		14.73		16.0	4.5	
Channel									
Frequency (MHz)				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	3495	3499.98	3504.99	18.97	20.5	0.0
Channel									
Frequency (MHz)				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3490.02	3499.98	3510	18.97	20.5	0.0
Channel									
Frequency (MHz)				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	3485.01	3499.98	3514.98	18.97	20.5	0.0
Channel									
Frequency (MHz)				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3480	3499.98	3519.99	18.97	20.5	0.0
Channel									
Frequency (MHz)				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	3475.02	3499.98	3525	18.97	20.5	0.0
Channel									
Frequency (MHz)				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	3470.01	3499.98	3529.98	18.85	20.5	0.0
Channel									
Frequency (MHz)				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	3465	3499.98	3534.99	18.98	20.5	0.0
Channel									
Frequency (MHz)				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	3460.02	3499.98	3540	18.93	18.96	18.87



Part27Q n78 Ant 2 DSI7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				633332	633332	633332		
Frequency (MHz)				3499.98	3499.98	3499.98		
100	PI/2 BPSK	1	1	16.58	16.58	16.58		
100	PI/2 BPSK	1	137	16.63	16.63	16.63	17.9	0.0
100	PI/2 BPSK	1	271	16.58	16.58	16.58		
100	PI/2 BPSK	135	0	16.64	16.64	16.64	17.9	0.0
100	PI/2 BPSK	135	69	16.64	16.64	16.64	17.9	0.0
100	PI/2 BPSK	135	138	16.62	16.62	16.62	17.9	0.0
100	PI/2 BPSK	270	0	16.57	16.57	16.57		
100	QPSK	1	1	16.71	16.71	16.71		
100	QPSK	1	137	16.58	16.58	16.58	17.9	0.0
100	QPSK	1	271	16.66	16.66	16.66		
100	QPSK	135	0	16.56	16.56	16.56	17.9	0.0
100	QPSK	135	69	16.65	16.65	16.65	17.9	0.0
100	QPSK	135	138	16.58	16.58	16.58	17.9	0.0
100	QPSK	270	0	16.62	16.62	16.62		
100	16QAM	1	1	16.56	16.56	16.56	17.9	0.0
100	64QAM	1	1	16.60	16.60	16.60	17.9	0.0
100	256QAM	1	1	16.67	16.67	16.67	17.9	0.0
Channel								
Frequency (MHz)				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3499.98	3504.99		
90	QPSK	1	1	16.49	16.43	16.46	17.0	0.0
Channel								
Frequency (MHz)				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3499.98	3510		
80	QPSK	1	1	16.46	16.44	16.47	17.0	0.0
Channel								
Frequency (MHz)				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3499.98	3514.98		
70	QPSK	1	1	16.42	16.34	16.41	17.0	0.0
Channel								
Frequency (MHz)				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3499.98	3519.99		
60	QPSK	1	1	16.51	16.34	16.32	17.0	0.0
Channel								
Frequency (MHz)				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3499.98	3525		
50	QPSK	1	1	16.48	16.40	16.45	17.0	0.0
Channel								
Frequency (MHz)				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3499.98	3529.98		
40	QPSK	1	1	16.43	16.37	16.46	17.0	0.0
Channel								
Frequency (MHz)				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3499.98	3534.99		
30	QPSK	1	1	16.53	16.41	16.50	17.0	0.0
Channel								
Frequency (MHz)				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3499.98	3540		
20	QPSK	1	1	16.44	16.38	16.44	17.9	0.0

Part27Q n78 Ant 8 DSI7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				633332	633332	633332		
Frequency (MHz)				3499.98	3499.98	3499.98		
100	PI/2 BPSK	1	1	17.00	17.00	17.00		
100	PI/2 BPSK	1	137	16.93	16.93	16.93	18.3	0.0
100	PI/2 BPSK	1	271	16.98	16.98	16.98		
100	PI/2 BPSK	135	0	16.99	16.99	16.99	18.3	0.0
100	PI/2 BPSK	135	69	16.96	16.96	16.96	18.3	0.0
100	PI/2 BPSK	135	138	16.98	16.98	16.98	18.3	0.0
100	PI/2 BPSK	270	0	16.91	16.91	16.91		
100	QPSK	1	1	17.08	17.08	17.08		
100	QPSK	1	137	16.94	16.94	16.94	18.3	0.0
100	QPSK	1	271	17.00	17.00	17.00		
100	QPSK	135	0	16.94	16.94	16.94	18.3	0.0
100	QPSK	135	69	17.01	17.01	17.01	18.3	0.0
100	QPSK	135	138	17.02	17.02	17.02	18.3	0.0
100	QPSK	270	0	16.97	16.97	16.97		
100	16QAM	1	1	16.97	16.97	16.97	18.3	0.0
100	64QAM	1	1	15.74	15.74	15.74	17.0	1.3
100	256QAM	1	1	13.81	13.81	13.81	15.0	3.3
Channel								
Frequency (MHz)				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3499.98	3504.99		
90	QPSK	1	1	16.48	16.50	16.42	18.3	0.0
Channel								
Frequency (MHz)				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3499.98	3510		
80	QPSK	1	1	16.40	16.40	16.28	18.3	0.0
Channel								
Frequency (MHz)				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3499.98	3514.98		
70	QPSK	1	1	16.41	16.35	16.31	18.3	0.0
Channel								
Frequency (MHz)				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3499.98	3519.99		
60	QPSK	1	1	16.43	16.43	16.38	18.3	0.0
Channel								
Frequency (MHz)				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3499.98	3525		
50	QPSK	1	1	16.35	16.43	16.34	18.3	0.0
Channel								
Frequency (MHz)				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3499.98	3529.98		
40	QPSK	1	1	16.40	16.38	16.29	18.3	0.0
Channel								
Frequency (MHz)				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3499.98	3534.99		
30	QPSK	1	1	16.34	16.38	16.36	18.3	0.0
Channel								
Frequency (MHz)				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3499.98	3540		
20	QPSK	1	1	16.42	16.42	16.31	18.3	0.0



Full&Default Power Mode Other PA

n2 Ant 4 Full power								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				1860	1880	1900		
Frequency (MHz)								
20	PI/2 BPSK	1	1	21.58	21.71	21.54	23.0	0.0
20	PI/2 BPSK	1	53	21.59	21.63	21.61		
20	PI/2 BPSK	1	104	21.66	21.65	21.66		
20	PI/2 BPSK	50	0	21.41	21.42	21.25	22.5	0.5
20	PI/2 BPSK	50	28	21.56	21.69	21.54	23.0	0.0
20	PI/2 BPSK	50	56	21.36	21.45	21.28	22.5	0.5
20	PI/2 BPSK	100	0	21.27	21.45	21.37		
20	QPSK	1	1	21.84	21.87	21.80		
20	QPSK	1	53	21.63	21.71	21.54	23.0	0.0
20	QPSK	1	104	21.66	21.63	21.69		
20	QPSK	50	0	20.87	20.83	20.83		
20	QPSK	50	28	21.62	21.74	21.67	23.0	0.0
20	QPSK	50	56	20.90	20.86	20.88	22.0	1.0
20	QPSK	100	0	20.90	20.95	20.80		
20	16QAM	1	1	20.84	20.88	20.74		
20	64QAM	1	1	19.27	19.41	19.35	20.5	2.5
20	256QAM	1	1	17.29	17.33	17.35	18.5	4.5
Channel				371500	376000	380500	Tune-up limit	MPR
Frequency (MHz)				1857.5	1880	1902.5	(dBm)	(dB)
15	QPSK	1	1	21.68	21.66	21.67	23.0	0.0
Channel				371000	376000	381000	Tune-up limit	MPR
Frequency (MHz)				1855	1880	1905	(dBm)	(dB)
10	QPSK	1	1	21.66	21.70	21.71	23.0	0.0
Channel				370500	376000	381500	Tune-up limit	MPR
Frequency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)
5	QPSK	1	1	21.67	21.68	21.69	23.0	0.0

n66 Ant 4 Full power								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	21.73	21.72	21.70	23.0	0.0
40	PI/2 BPSK	1	108	21.69	21.83	21.76		
40	PI/2 BPSK	1	214	21.74	21.74	21.67		
40	PI/2 BPSK	108	0	21.43	21.50	21.43	22.5	0.5
40	PI/2 BPSK	108	54	21.77	21.84	21.76	23.0	0.0
40	PI/2 BPSK	108	108	21.32	21.43	21.35	22.5	0.5
40	PI/2 BPSK	216	0	21.45	21.43	21.31		
40	QPSK	1	1	21.90	21.93	21.89		
40	QPSK	1	108	21.79	21.75	21.80	23.0	0.0
40	QPSK	1	214	21.74	21.78	21.70		
40	QPSK	108	0	20.83	20.95	20.81		
40	QPSK	108	54	21.75	21.86	21.81	23.0	0.0
40	QPSK	108	108	20.93	20.85	20.90	22.0	1.0
40	QPSK	216	0	20.92	20.94	20.85		
40	16QAM	1	1	20.82	20.99	20.84		
40	64QAM	1	1	19.35	19.48	19.41	20.5	2.5
40	256QAM	1	1	17.45	17.36	17.32	18.5	4.5
Channel				345000	349000	353000	Tune-up limit	MPR
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)
30	QPSK	1	1	21.70	21.66	21.71	23.0	0.0
Channel				344000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	QPSK	1	1	21.68	21.72	21.68	23.0	0.0
Channel				343500	349000	354500	Tune-up limit	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	QPSK	1	1	21.63	21.72	21.76	23.0	0.0
Channel				343000	349000	355000	Tune-up limit	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	QPSK	1	1	21.71	21.73	21.67	23.0	0.0
Channel				342500	349000	355500	Tune-up limit	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	QPSK	1	1	21.73	21.67	21.76	23.0	0.0



Reduced Power Mode for Other PA DSI2

n2 Ant 4 DSI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	16.15	16.28	16.18	17.2	0.0
20	PI/2 BPSK	1	53	16.13	16.19	16.11		
20	PI/2 BPSK	1	104	16.14	16.20	16.22		
20	PI/2 BPSK	50	0	16.17	16.29	16.17	17.2	0.0
20	PI/2 BPSK	50	28	16.23	16.20	16.19	17.2	0.0
20	PI/2 BPSK	50	56	16.22	16.28	16.15		
20	PI/2 BPSK	100	0	16.16	16.28	16.21	17.2	0.0
20	QPSK	1	1	16.30	16.35	16.28		
20	QPSK	1	53	16.16	16.20	16.19	17.2	0.0
20	QPSK	1	104	16.21	16.21	16.13		
20	QPSK	50	0	16.13	16.29	16.13	17.2	0.0
20	QPSK	50	28	16.28	16.33	16.25	17.2	0.0
20	QPSK	50	56	16.13	16.25	16.21	17.2	0.0
20	QPSK	100	0	16.24	16.28	16.26		
20	16QAM	1	1	16.17	16.27	16.20	17.2	0.0
20	64QAM	1	1	16.17	16.20	16.16	17.2	0.0
20	256QAM	1	1	16.18	16.21	16.12	17.2	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	16.17	16.25	16.22	17.2	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	16.16	16.27	16.20	17.2	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	16.21	16.20	16.13	17.2	0.0

n66 Ant 4 DSI2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				348000	349000	350000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	19.40	19.50	19.46		
40	PI/2 BPSK	1	108	19.45	19.44	19.41	20.4	0.0
40	PI/2 BPSK	1	214	19.41	19.48	19.49		
40	PI/2 BPSK	108	0	19.48	19.43	19.49	20.4	0.0
40	PI/2 BPSK	108	54	19.40	19.46	19.45	20.4	0.0
40	PI/2 BPSK	108	108	19.39	19.47	19.44		
40	PI/2 BPSK	216	0	19.47	19.53	19.49	20.4	0.0
40	QPSK	1	1	19.55	19.60	19.57		
40	QPSK	1	108	19.48	19.53	19.41	20.4	0.0
40	QPSK	1	214	19.46	19.53	19.46		
40	QPSK	108	0	19.45	19.51	19.42	20.4	0.0
40	QPSK	108	54	19.50	19.56	19.52	20.4	0.0
40	QPSK	108	108	19.40	19.42	19.49		
40	QPSK	216	0	19.45	19.50	19.46	20.4	0.0
40	16QAM	1	1	19.42	19.54	19.44	20.4	0.0
40	64QAM	1	1	19.42	19.53	19.48	20.4	0.0
40	256QAM	1	1	17.67	17.71	17.70	18.5	1.9
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	19.45	19.46	19.43	20.4	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	19.44	19.44	19.41	20.4	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	19.38	19.48	19.45	20.4	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	19.43	19.53	19.42	20.4	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	19.48	19.44	19.51	20.4	0.0



Reduced Power Mode for Other PA DSI3

n2 Ant 4 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI/2 BPSK	1	1	16.29	16.33	16.26			
20	PI/2 BPSK	1	53	16.36	16.37	16.26			
20	PI/2 BPSK	1	104	16.29	16.32	16.26			
20	PI/2 BPSK	50	0	16.38	16.41	16.26	17.5	0.0	
20	PI/2 BPSK	50	28	16.29	16.34	16.32	17.5	0.0	
20	PI/2 BPSK	50	56	16.30	16.40	16.25			
20	PI/2 BPSK	100	0	16.33	16.37	16.25	17.5	0.0	
20	QPSK	1	1	16.45	16.48	16.42			
20	QPSK	1	53	16.39	16.37	16.34			
20	QPSK	1	104	16.31	16.37	16.32	17.5	0.0	
20	QPSK	50	0	16.29	16.38	16.36	17.5	0.0	
20	QPSK	50	28	16.36	16.47	16.36	17.5	0.0	
20	QPSK	50	56	16.34	16.31	16.24			
20	QPSK	100	0	16.34	16.39	16.36	17.5	0.0	
20	16QAM	1	1	16.29	16.36	16.26	17.5	0.0	
20	64QAM	1	1	16.31	16.39	16.30	17.5	0.0	
20	256QAM	1	1	16.28	16.38	16.31	17.5	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	16.31	16.34	16.34	17.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	16.33	16.37	16.28	17.5	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	16.31	16.42	16.27	17.5	0.0	

n66 Ant 4 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	19.94	19.92	19.91			
40	PI/2 BPSK	1	108	19.96	19.98	19.84			
40	PI/2 BPSK	1	214	19.89	20.00	19.92			
40	PI/2 BPSK	108	0	19.97	19.95	19.86	21.0	0.0	
40	PI/2 BPSK	108	54	19.98	19.91	19.96	21.0	0.0	
40	PI/2 BPSK	108	108	19.91	19.98	19.86	21.0	0.0	
40	PI/2 BPSK	216	0	19.94	19.94	19.87			
40	QPSK	1	1	20.02	20.05	19.99			
40	QPSK	1	108	19.91	19.96	19.89	21.0	0.0	
40	QPSK	1	214	19.94	19.92	19.91			
40	QPSK	108	0	19.98	19.97	19.87	21.0	0.0	
40	QPSK	108	54	19.98	20.01	19.95	21.0	0.0	
40	QPSK	108	108	19.92	19.96	19.93	21.0	0.0	
40	QPSK	216	0	19.95	19.98	19.93			
40	16QAM	1	1	19.94	19.93	19.87	21.0	0.0	
40	64QAM	1	1	19.52	19.50	19.48	20.5	0.5	
40	256QAM	1	1	17.49	17.59	17.50	18.5	2.5	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	19.93	20.02	19.96	21.0	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	19.93	20.01	19.95	21.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	19.94	19.95	19.92	21.0	0.0	
Channel				343000	349000	350000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	19.93	20.02	19.89	21.0	0.0	
Channel				342500	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	19.89	19.98	19.86	21.0	0.0	



Reduced Power Mode for Other PA DSI6

n2 Ant 4 DSI6								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	18.40	18.47	18.42		
20	PI/2 BPSK	1	53	18.38	18.45	18.39	19.6	0.0
20	PI/2 BPSK	1	104	18.41	18.43	18.45		
20	PI/2 BPSK	50	0	18.46	18.51	18.36	19.6	0.0
20	PI/2 BPSK	50	28	18.38	18.44	18.40	19.6	0.0
20	PI/2 BPSK	50	56	18.36	18.50	18.47		
20	PI/2 BPSK	100	0	18.41	18.42	18.38	19.6	0.0
20	QPSK	1	1	18.52	18.60	18.54		
20	QPSK	1	53	18.41	18.48	18.37	19.6	0.0
20	QPSK	1	104	18.43	18.43	18.36		
20	QPSK	50	0	18.38	18.47	18.41	19.6	0.0
20	QPSK	50	28	18.52	18.55	18.50	19.6	0.0
20	QPSK	50	56	18.46	18.50	18.41		
20	QPSK	100	0	18.48	18.50	18.45	19.6	0.0
20	16QAM	1	1	18.43	18.44	18.43	19.6	0.0
20	64QAM	1	1	18.39	18.44	18.44	19.6	0.0
20	256QAM	1	1	17.47	17.54	17.39	18.5	1.1
Channel				371500	376000	380500		
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	18.41	18.45	18.44	19.6	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	18.37	18.48	18.45	19.6	0.0
Channel				370500	376000	381500		
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	18.43	18.51	18.47	19.6	0.0

n66 Ant 4 DSI6								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	19.54	19.57	19.46		
40	PI/2 BPSK	1	108	19.55	19.52	19.53	21.0	0.0
40	PI/2 BPSK	1	214	19.45	19.59	19.54		
40	PI/2 BPSK	108	0	19.47	19.56	19.49	21.0	0.0
40	PI/2 BPSK	108	54	19.45	19.52	19.54	21.0	0.0
40	PI/2 BPSK	108	108	19.48	19.58	19.53	21.0	0.0
40	PI/2 BPSK	216	0	19.47	19.54	19.49		
40	QPSK	1	1	19.61	19.66	19.60		
40	QPSK	1	108	19.49	19.50	19.43	21.0	0.0
40	QPSK	1	214	19.44	19.56	19.45		
40	QPSK	108	0	19.49	19.56	19.47	21.0	0.0
40	QPSK	108	54	19.60	19.63	19.58	21.0	0.0
40	QPSK	108	108	19.52	19.50	19.50		
40	QPSK	216	0	19.56	19.59	19.56	21.0	0.0
40	16QAM	1	1	19.49	19.58	19.45	21.0	0.0
40	64QAM	1	1	19.45	19.52	19.53	21.0	0.0
40	256QAM	1	1	19.06	19.16	19.13	20.5	0.5
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	19.47	19.39	19.43	21.0	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	19.47	19.38	19.37	21.0	0.0
Channel				343500	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	19.39	19.39	19.42	21.0	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	19.49	19.46	19.44	21.0	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	19.50	19.43	19.46	21.0	0.0



Reduced Power Mode for Other PA DSI7

n2 Ant 4 DSI7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	14.18	14.18	14.12	15.6	0.0
20	PI/2 BPSK	1	53	14.18	14.27	14.23		
20	PI/2 BPSK	1	104	14.19	14.26	14.11		
20	PI/2 BPSK	50	0	14.24	14.23	14.12	15.6	0.0
20	PI/2 BPSK	50	28	14.15	14.28	14.13	15.6	0.0
20	PI/2 BPSK	50	56	14.14	14.23	14.17	15.6	0.0
20	PI/2 BPSK	100	0	14.22	14.24	14.12		
20	QPSK	1	1	14.31	14.35	14.29		
20	QPSK	1	53	14.22	14.27	14.16	15.6	0.0
20	QPSK	1	104	14.19	14.18	14.19		
20	QPSK	50	0	14.22	14.25	14.20		
20	QPSK	50	28	14.25	14.28	14.23	15.6	0.0
20	QPSK	50	56	14.21	14.18	14.17	15.6	0.0
20	QPSK	100	0	14.26	14.26	14.18		
20	16QAM	1	1	14.14	14.19	14.15		
20	64QAM	1	1	14.20	14.28	14.13	15.6	0.0
20	256QAM	1	1	14.19	14.20	14.14	15.6	0.0
Channel				371500	376000	380500	Tune-up limit	MPR
Frequency (MHz)				1857.5	1880	1902.5	(dBm)	(dB)
15	QPSK	1	1	14.24	14.26	14.13	15.6	0.0
Channel				371000	376000	381000	Tune-up limit	MPR
Frequency (MHz)				1855	1880	1905	(dBm)	(dB)
10	QPSK	1	1	14.24	14.20	14.22	15.6	0.0
Channel				370500	376000	381500	Tune-up limit	MPR
Frequency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)
5	QPSK	1	1	14.25	14.24	14.22	15.6	0.0

n66 Ant 4 DSI7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	15.98	16.13	16.05	17.6	0.0
40	PI/2 BPSK	1	108	16.03	16.07	16.04		
40	PI/2 BPSK	1	214	16.08	16.09	16.01		
40	PI/2 BPSK	108	0	16.06	16.09	16.05	17.6	0.0
40	PI/2 BPSK	108	54	16.05	16.13	16.08	17.6	0.0
40	PI/2 BPSK	108	108	16.00	16.05	16.04	17.6	0.0
40	PI/2 BPSK	216	0	16.07	16.12	16.06		
40	QPSK	1	1	16.16	16.20	16.14		
40	QPSK	1	108	15.99	16.06	16.03	17.6	0.0
40	QPSK	1	214	16.09	16.10	16.03		
40	QPSK	108	0	16.01	16.05	15.98		
40	QPSK	108	54	16.12	16.15	16.10	17.6	0.0
40	QPSK	108	108	16.08	16.09	16.00	17.6	0.0
40	QPSK	216	0	16.08	16.12	16.06		
40	16QAM	1	1	16.05	16.12	16.08		
40	64QAM	1	1	15.98	16.06	15.96	17.6	0.0
40	256QAM	1	1	16.03	16.07	16.06	17.6	0.0
Channel				345000	349000	353000	Tune-up limit	MPR
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)
30	QPSK	1	1	16.07	16.05	15.98	17.6	0.0
Channel				344000	349000	354000	Tune-up limit	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	QPSK	1	1	16.03	16.06	16.00	17.6	0.0
Channel				343500	349000	354500	Tune-up limit	MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)
15	QPSK	1	1	16.00	16.07	16.06	17.6	0.0
Channel				343000	349000	355000	Tune-up limit	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	QPSK	1	1	16.06	16.11	16.05	17.6	0.0
Channel				342500	349000	355500	Tune-up limit	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	QPSK	1	1	16.10	16.07	16.08	17.6	0.0



WiFi&Bluetooth Power

Ant 6				Full power Extremity Standalone		Head Standalone Body-worn Standalone		Body-worn Simultaneous		Head Simultaneous		Hotspot		Extremity Simultaneous		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
2.4GHz WLAN	802.11b 1Mbps	1	2412	19.35	20.50	18.79	20.00	12.90	14.00	13.29	14.50	15.91	17.00	16.96	18.00	98.60
		6	2437	19.07	20.50	18.51	20.00	12.49	14.00	12.92	14.50	15.61	17.00	16.61	18.00	
		11	2462	18.92	20.50	18.39	20.00	12.41	14.00	12.83	14.50	15.53	17.00	16.53	18.00	
	802.11g 6Mbps	1	2412	18.10	19.50	18.10	19.50	Not Required	14.00	14.00	14.50	14.50	17.00	17.00	18.00	98.25
		6	2437	18.81	20.50	18.39	20.00									
		11	2462	17.32	19.00	17.32	19.00									
	802.11n-HT20 MCS0	1	2412	17.82	19.50	Not Required	20.00	14.00	14.00	14.50	14.50	17.00	17.00	18.00	98.12	
		6	2437	18.65	20.00											
		11	2462	16.23	18.00											
	802.11n-HT40 MCS0	3	2422	14.21	16.00	Not Required	18.00	14.00	14.00	14.50	14.50	17.00	17.00	18.00	94.82	
		6	2437	16.40	18.00											
		7	2442	13.48	15.00											
8		2447	13.37	15.00												
9		2452	12.48	14.00												

Ant 6				Full power Extremity Standalone		Head Standalone Body-worn Standalone		Head Simultaneous Body-worn Simultaneous		Hotspot		Extremity Simultaneous		Duty Cycle %								
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit										
5.2GHz WLAN	802.11a 6Mbps	36	5180	18.00	19.50	Not Required	15.50	10.50	10.50	12.00	12.00	14.50	14.50	98.25								
		40	5200	17.82	19.50																	
		44	5220	18.19	19.50																	
	802.11n-HT20 MCS0	36	5180	17.84	19.50									15.50	10.50	10.50	12.00	12.00	14.50	14.50	98.12	
		40	5200	17.72	19.50																	
		44	5220	17.99	19.50																	
	802.11n-HT40 MCS0	38	5190	16.33	18.00									14.01	15.50	10.50	10.50	12.00	12.00	14.50	14.50	96.24
		46	5230	16.48	18.00																	
	802.11ac-VHT20 MCS0	36	5180	17.81	19.50									15.50	10.50	10.50	12.00	12.00	14.50	14.50	98.13	
		40	5200	17.69	19.00																	
		44	5220	18.00	19.50																	
802.11ac-VHT40 MCS0	38	5190	15.50	17.00	15.50	10.50	10.50	12.00	12.00	14.50	14.50	96.27										
	46	5230	15.59	17.00																		
802.11ac-VHT80 MCS0	42	5210	12.71	14.50	14.50	10.09	10.50	11.03	12.00	12.71	14.50	92.92										

Ant 6				Full power Extremity Standalone		Head Standalone Body-worn Standalone		Head Simultaneous Body-worn Simultaneous		Extremity Simultaneous		Duty Cycle %						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit								
5.3GHz WLAN	802.11a 6Mbps	52	5260	18.25	20.00	Not Required	16.00	11.00	11.00	15.50	15.50	98.25						
		56	5280	18.40	20.00													
		60	5300	18.43	20.00													
		64	5320	18.65	20.00													
	802.11n-HT20 MCS0	52	5260	18.03	19.50							16.00	11.00	11.00	15.50	15.50	98.12	
		56	5280	18.20	20.00													
		60	5300	18.23	20.00													
		64	5320	18.50	20.00													
	802.11n-HT40 MCS0	54	5270	16.70	18.50							14.31	16.00	11.00	11.00	15.50	15.50	96.24
		62	5310	16.89	18.50													
		52	5260	17.98	19.50													
	802.11ac-VHT20 MCS0	56	5280	18.18	20.00							16.00	11.00	11.00	15.50	15.50	98.13	
		60	5300	18.22	20.00													
		64	5320	18.51	20.00													
	802.11ac-VHT40 MCS0	54	5270	15.78	17.50							16.00	11.00	11.00	15.50	15.50	96.27	
		62	5310	15.99	17.50													
	802.11ac-VHT80 MCS0	58	5290	13.83	15.50							15.50	10.18	11.00	13.83	15.50	92.92	

Ant 6				Full power		Head Standalone		Head Simultaneous		Body-worn Standalone		Body-worn Simultaneous		Extremity Standalone		Extremity Simultaneous		Duty Cycle %													
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit															
5.5GHz WLAN	802.11a 6Mbps	100	5500	18.66	20.00	Not Required	14.50	9.50	9.50	15.00	15.00	10.00	10.00	17.00	17.00	19.00	19.00	98.25													
		116	5580	17.95	19.50																										
		124	5620	17.72	19.50																										
		132	5660	18.34	20.00																										
		140	5700	17.70	19.50																										
		144	5720	18.39	20.00																										
	802.11n-HT20 MCS0	100	5500	18.55	20.00													14.50	9.50	9.50	15.00	15.00	10.00	10.00	17.56	17.56	19.00	19.00	14.00	14.00	98.12
		116	5580	17.75	19.50																										
		124	5620	17.60	19.00																										
		132	5660	18.24	20.00																										
		140	5700	17.49	19.00																										
		144	5720	18.22	20.00																										
	802.11n-HT40 MCS0	102	5510	16.88	18.50													14.50	9.50	9.50	15.00	15.00	10.00	10.00	17.28	17.28	19.00	19.00	14.00	14.00	96.24
		110	5550	16.93	18.50																										
		126	5630	16.13	18.00																										
		134	5670	16.59	18.00																										
		142	5710	16.90	18.50																										
	802.11ac-VHT20 MCS0	100	5500	18.56	20.00													14.50	9.50	9.50	15.00	15.00	10.00	10.00	19.00	19.00	14.00	14.00	98.13		
		116	5580	17.74	19.50																										
		124	5620	17.54	19.00																										
		132	5660	18.23	20.00																										
		140	5700	17.55	19.00																										
		144	5720	18.21	20.00																										
802.11ac-VHT40 MCS0	102	5510	15.98	17.50	14.50	9.50	9.50	15.00	15.00	10.00	10.00	17.50	17.50	14.00	14.00	96.27															
	110	5550	15.99	17.50																											
	126	5630	15.34	17.00																											
	134	5670	15.79	17.50																											
	142	5710	15.98	17.50																											
802.11ac-VHT80 MCS0	106	5530	12.94	14.50	12.94	14.50	8.41	9.50	12.94	14.50	9.00	10.00	14.50	12.94	14.00	14.00	92.92														
	122	5610	14.20	15.50																											
	138	5690	14.65	16.00																											



Ant 6				Full power		Head Standalone Body-worn Standalone		Extremity Standalone		Extremity Simultaneous		Head Simultaneous		Body-worn Simultaneous		Hotspot			
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	157	5785	18.59	20.00	14.50	17.50	19.00	15.50	9.50	10.50	11.00								
	165	5825	18.10	19.50	14.50	17.26	19.00	15.50	9.50	10.50	11.00								
802.11n-HT20 MCS0	149	5745	17.95	19.50	14.50	17.20	19.00	15.50	9.50	10.50	11.00								
	157	5785	18.49	20.00	14.50	17.25	19.00	15.50	9.50	10.50	11.00								
802.11n-HT40 MCS0	165	5825	17.80	19.50	14.50	17.12	19.00	15.50	9.50	10.50	11.00								
	151	5755	16.62	18.00	14.50	18.00	18.00	15.50	9.50	10.50	11.00								
802.11ac-VHT20 MCS0	159	5795	16.78	18.50	14.50	18.50	18.50	15.50	9.50	10.50	11.00								
	149	5745	17.91	19.50	14.50	19.00	19.00	15.50	9.50	10.50	11.00								
802.11ac-VHT40 MCS0	157	5785	18.50	20.00	14.50	19.00	19.00	15.50	9.50	10.50	11.00								
	165	5825	17.79	19.50	14.50	19.00	19.00	15.50	9.50	10.50	11.00								
802.11ac-VHT80 MCS0	151	5755	15.73	17.50	14.50	17.50	17.50	15.50	9.50	10.50	11.00								
	159	5795	15.96	17.50	14.50	17.50	17.50	15.50	9.50	10.50	11.00								
802.11ac-VHT80 MCS0	155	5775	14.63	16.00	13.21	14.50	16.00	14.18	15.50	8.41	9.50	9.39	10.50	9.84	11.00	92.92			

BR / EDR		Ant 6		Average power (dBm)		
Mode	Channel	Frequency (MHz)	1Mbps	2Mbps	3Mbps	
BR / EDR	CH 00	2402	16.65	11.78	11.77	
	CH 39	2441	16.86	12.06	12.04	
	CH 78	2480	16.63	11.83	11.93	
Tune-up Limit			18	13	13	

BR / EDR		Ant 6		For Body-worn Simultaneous&Hotspot		
Mode	Channel	Frequency (MHz)	1Mbps	2Mbps	3Mbps	
BR / EDR	CH 00	2402	11.95	6.90	6.94	
	CH 39	2441	12.21	7.36	7.42	
	CH 78	2480	12.09	7.25	7.29	
Tune-up Limit			13.5	8.5	8.5	

BLE_1M		Ant 6		Average power (dBm)		
Mode	Channel	Frequency (MHz)	1Mbps	2Mbps	3Mbps	
LE	CH 00	2402	10.07			
	CH 19	2440	10.38			
	CH 39	2480	10.09			
Tune-up Limit			11			

BR / EDR		Ant 6		For Head Simultaneous		
Mode	Channel	Frequency (MHz)	1Mbps	2Mbps	3Mbps	
BR / EDR	CH 00	2402	12.48	7.56	7.55	
	CH 39	2441	12.85	8.02	8.05	
	CH 78	2480	12.80	7.95	7.91	
Tune-up Limit			14	9	9	

BLE_2M		Ant 6		Average power (dBm)		
Mode	Channel	Frequency (MHz)	1Mbps	2Mbps	3Mbps	
LE	CH 00	2402	10.44			
	CH 19	2440	10.56			
	CH 39	2480	10.22			
Tune-up Limit			11.50			