



**Full Power Mode**

WISDOM V Asst									
TV Channel	Start Average Power (dBm)			Turn-up Limit (dBm)	Front-Average Power (dBm)			Turn-up Limit (dBm)	
Freeview (DVB)	824.2	848.4	848.8	848.2	838.4	838.4	848.8		
OFDM 1 TV test	22.61	22.76	22.88	23.00	23.04	23.70	23.08	24.50	
OFDM 1 TV test	22.57	22.72	22.86	23.00	23.07	23.72	23.06	24.50	
OFDM 2 TV test	20.00	20.15	20.25	21.00	20.00	24.15	24.00	25.00	
OFDM 2 TV test	20.00	20.07	20.09	20.00	20.00	24.41	24.00	25.00	
OFDM 4 TV test	27.00	27.14	27.24	28.00	24.00	24.14	24.04	28.00	
EDGE 1 TV test	25.00	25.06	25.23	25.00	19.00	17.00	18.00	20.00	
EDGE 2 TV test	25.00	25.13	25.09	26.00	19.00	19.13	19.09	20.00	
EDGE 3 TV test	23.24	23.42	23.33	24.00	18.00	18.10	18.07	20.24	
EDGE 4 TV test	23.52	23.74	23.67	23.00	18.00	18.54	18.07	20.00	

  

WISDOM V Asst									
TV Channel	Start Average Power (dBm)			Turn-up Limit (dBm)	Front-Average Power (dBm)			Turn-up Limit (dBm)	
Freeview (DVB)	829.0	850.0	850.31	850.00	850.00	850.00	850.00		
OFDM 1 TV test	20.00	20.76	20.72	20.00	20.88	20.70	20.72	21.00	
OFDM 1 TV test	20.00	20.71	20.68	20.00	20.80	20.61	20.61	21.00	
OFDM 2 TV test	18.71	18.83	18.74	20.00	20.71	20.83	20.74	22.00	
OFDM 2 TV test	20.27	20.30	20.28	20.00	21.01	21.00	21.00	22.00	
OFDM 4 TV test	20.71	21.84	21.73	20.00	20.77	20.84	20.73	20.00	
EDGE 1 TV test	24.00	24.84	24.72	20.00	18.00	18.84	18.70	17.00	
EDGE 2 TV test	21.74	21.86	21.78	20.00	17.76	17.78	17.76	19.00	
EDGE 3 TV test	22.50	22.51	22.38	23.00	18.12	18.20	18.12	19.24	
EDGE 4 TV test	20.72	20.84	20.72	22.00	17.72	17.84	17.72	19.00	

  

WISDOM V Asst												
TV Channel	WISDOM V Asst			WISDOM V Asst			WISDOM V Asst					
TV Channel	855.2	860.0	858.0	Turn-up Limit (dBm)	1812.0	1818.0	1818.0	Turn-up Limit (dBm)	4132.0	4180.0	4230.0	Turn-up Limit (dBm)
Freeview (DVB)	9652.00	9650.00	9638.00	9638.00	1812.00	1818.00	1738.00	1738.00	4037.00	4007.00	4008.00	
Freeview (DVB)	1852.00	1860.00	1867.00	1867.00	1812.00	1812.00	1738.00	1738.00	4037.00	3945.00	3945.00	
SCFP Full 0	NR1 12.25Gps	22.50	23.03	22.83	24.00	22.50	23.10	22.96	24.00	23.10	23.10	23.08
SCFP Full 0	NR1 12.25Gps	20.00	22.06	22.07	24.00	20.00	23.10	23.09	24.00	23.11	23.00	23.10
SCFP Full 0	NR1 12.25Gps	21.00	22.07	22.00	23.00	21.00	22.12	22.01	23.00	22.00	22.16	22.21
SCFP Full 0	NR1 12.25Gps	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
SCFP Full 0	NR1 12.25Gps	21.40	21.84	21.52	22.00	21.40	21.50	21.50	22.00	21.00	21.80	21.70
SCFP Full 0	NR1 12.25Gps	21.40	21.81	21.58	22.00	21.40	21.84	21.50	22.00	21.00	21.71	21.70
SCFP Full 0	NR1 12.25Gps	22.00	22.10	21.90	23.00	22.07	22.11	22.00	23.00	22.10	22.21	22.10
SCFP Full 0	NR1 12.25Gps	21.00	21.07	22.12	23.00	21.00	21.07	22.00	23.00	20.14	22.14	22.21
SCFP Full 0	NR1 12.25Gps	21.24	21.40	21.30	22.00	21.31	21.44	21.39	22.00	21.00	21.86	21.90
SCFP Full 0	NR1 12.25Gps	21.54	21.52	21.48	22.00	21.40	21.40	21.41	22.00	21.50	21.76	21.80
SCFP Full 0	NR1 12.25Gps	20.00	20.07	20.00	20.00	20.10	22.01	20.00	21.00	21.00	20.21	20.10
SCFP Full 0	NR1 12.25Gps	20.00	20.22	20.04	21.00	20.10	20.10	20.11	21.00	20.30	20.24	20.21
SCFP Full 0	NR1 12.25Gps	21.00	21.00	20.80	22.00	21.10	21.00	21.00	22.00	21.20	21.20	21.00
SCFP Full 0	NR1 12.25Gps	19.00	20.00	20.17	21.00	19.00	20.10	20.10	20.00	20.30	20.30	21.00
SCFP Full 0	NR1 12.25Gps	21.00	21.00	21.89	23.00	21.07	22.11	21.00	20.00	22.14	22.17	22.00



Band 2 Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq. (W/Hz)	Power Mhz (W)	High Ch./Freq. (W/Hz)	High Mhz (W)	Turn-up (dB)	MPR (dB)	
Channel										
Frequency (MHz)										
20	QPSK	1	0	1890	1890	1900				
20	QPSK	1	49	2230	2230	2240			24	0
20	QPSK	1	99	2240	2240	2250				
20	QPSK	1	149	2240	2240	2250				
20	QPSK	50	24	2162	2170	2165			23	1
20	QPSK	50	50	2167	2168	2164				
20	QPSK	50	99	2152	2161	2156				
20	HQAM	1	0	2165	2171	2171			23	1
20	HQAM	1	49	2150	2161	2156				
20	HQAM	1	99	2165	2171	2171				
20	HQAM	50	0	2073	2081	2075				
20	HQAM	50	49	2073	2079	2079			22	2
20	HQAM	50	99	2060	2071	2065				
20	HQAM	100	0	2050	2058	2052				
20	HQAM	100	49	2050	2056	2056			22	2
20	HQAM	100	99	2042	2050	2044				
20	HQAM	1	49	2084	2090	2086			22	2
20	HQAM	1	99	2082	2079	2088				
20	HQAM	50	24	1853	1855	1857			21	3
20	HQAM	50	50	1855	1857	1852				
20	HQAM	50	99	1842	1847	1842				
20	HQAM	100	0	1842	1848	1848			21	3
20	HQAM	100	49	1835	1842	1837				
20	HQAM	100	99	1828	1834	1828				
20	ZSSB-AM	1	0	1730	1730	1737			19	5
20	ZSSB-AM	1	49	1738	1738	1738				
20	ZSSB-AM	1	99	1738	1738	1738				
20	ZSSB-AM	50	0	1734	1737	1737			19	5
20	ZSSB-AM	50	49	1737	1737	1737				
20	ZSSB-AM	50	99	1737	1737	1737				
20	ZSSB-AM	100	0	1733	1730	1734			19	5
Channel										
Frequency (MHz)										
15	QPSK	1	0	2240	2240	2250				
15	QPSK	1	49	2240	2240	2250			24	0
15	QPSK	1	99	2240	2240	2250				
15	QPSK	74	24	2233	2248	2240			24	0
15	QPSK	38	0	2180	2184	2182				
15	QPSK	38	49	2180	2184	2182			23	1
15	QPSK	38	99	2183	2180	2181				
15	QPSK	75	0	2140	2152	2143				
15	QPSK	75	49	2140	2152	2144			23	1
15	HQAM	1	37	2146	2149	2148			23	1
15	HQAM	1	74	2142	2149	2149				
15	HQAM	38	0	2032	2037	2031				
15	HQAM	38	50	2033	2034	2039			22	2
15	HQAM	38	99	2032	2034	2034				
15	HQAM	75	0	2044	2052	2050				
15	HQAM	75	49	2044	2050	2050			22	2
15	HQAM	75	99	2044	2050	2050				
15	HQAM	1	0	2084	2088	2086				
15	HQAM	1	49	2082	2088	2088			22	2
15	HQAM	1	99	2082	2088	2088				
15	HQAM	74	24	2038	2050	2043			21	3
15	HQAM	38	0	1935	1937	1932				
15	HQAM	38	49	1935	1937	1937			21	3
15	HQAM	38	99	1937	1930	1931				
15	HQAM	75	0	1939	1939	1940				
15	HQAM	75	49	1938	1937	1937			19	5
15	ZSSB-AM	1	37	1738	1738	1748			19	5
15	ZSSB-AM	1	74	1738	1738	1748				
15	ZSSB-AM	38	0	1734	1732	1732				
15	ZSSB-AM	38	49	1734	1732	1732			19	5
15	ZSSB-AM	38	99	1734	1732	1732				
15	ZSSB-AM	75	0	1748	1748	1747			19	5
15	ZSSB-AM	75	49	1748	1748	1748				
15	ZSSB-AM	75	99	1748	1748	1748				
15	ZSSB-AM	100	0	1744	1742	1748			19	5
Channel										
Frequency (MHz)										
10	QPSK	1	0	2240	2240	2250				
10	QPSK	1	25	2240	2247	2251			24	0
10	QPSK	1	50	2240	2243	2243				
10	QPSK	25	0	2158	2164	2162				
10	QPSK	25	12	2155	2163	2161			23	1
10	QPSK	25	25	2158	2161	2161				
10	QPSK	50	0	2147	2148	2143				
10	HQAM	1	0	2181	2186	2181			23	1
10	HQAM	1	25	2139	2146	2144				
10	HQAM	1	50	2158	2157	2157			23	1
10	HQAM	25	0	2083	2088	2086				
10	HQAM	25	12	2083	2088	2088			22	2
10	HQAM	25	25	2048	2047	2059				
10	HQAM	50	0	2040	2040	2040				
10	HQAM	50	49	2040	2040	2056			22	2
10	HQAM	50	99	2040	2040	2056				
10	HQAM	25	0	2071	2064	2077				
10	HQAM	25	12	2047	2048	2054			21	3
10	HQAM	25	25	1936	1936	1945				
10	HQAM	50	0	1935	1939	1938			21	3
10	HQAM	50	49	1935	1939	1938				
10	HQAM	50	99	1935	1939	1938				
10	ZSSB-AM	1	25	1731	1731	1731			19	5
10	ZSSB-AM	1	49	1730	1732	1737				
10	ZSSB-AM	1	99	1730	1732	1737				
10	ZSSB-AM	50	0	1734	1732	1732				
10	ZSSB-AM	50	49	1734	1732	1732			19	5
10	ZSSB-AM	50	99	1734	1732	1732				
10	ZSSB-AM	100	0	1748	1748	1748			19	5
10	ZSSB-AM	100	49	1748	1748	1748				
10	ZSSB-AM	100	99	1748	1748	1748				
10	ZSSB-AM	150	0	1744	1742	1748			19	5
Channel										
Frequency (MHz)										
5	QPSK	1	0	1932	1932	1935				
5	QPSK	1	12	2242	2248	2243			24	0
5	QPSK	1	24	2233	2254	2246				
5	QPSK	1	34	2232	2254	2246				
5	QPSK	12	0	2152	2161	2157				
5	QPSK	12	7	2151	2160	2156			23	1
5	QPSK	12	13	2157	2163	2161				
5	QPSK	25	0	2149	2159	2154				
5	HQAM	1	0	2151	2158	2154			23	1
5	HQAM	1	12	2147	2156	2152				
5	HQAM	1	24	2160	2161	2161				
5	HQAM	12	0	2042	2048	2049			23	1
5	HQAM	12	12	2045	2048	2051				
5	HQAM	12	13	2055	2050	2056			22	2
5	HQAM	25	0	2039	2050	2046				
5	HQAM	25	12	2038	2037	2049			22	2
5	HQAM	25	13	2071	2070	2077				
5	HQAM	25	24	2039	2034	2035				
5	HQAM	50	0	1943	1949	1943			21	3
5	HQAM	50	10	1940	1947	1947				
5	HQAM	50	20	1940	1947	1947				
5	ZSSB-AM	1	0	1738	1737	1731			19	5
5	ZSSB-AM	1	12	1734	1737	1738				
5	ZSSB-AM	1	24	1730	1734	1739				
5	ZSSB-AM	12	0	1733	1732	1730			19	5
5	ZSSB-AM	12	12	1748	1748	1748				
5	ZSSB-AM	12	13	1737	1737	1741			19	5
5	ZSSB-AM	25	0	1743	1742	1748			19	5
Channel										
Frequency (MHz)										
3	QPSK	1	0	1815	1810	1815				
3	QPSK	1	0	2247	2254	2252			24	0
3	QPSK	1	14	2237	2257	2248				
3	QPSK	8	0	2161	2167	2163				
3	QPSK	8	7	2157	2167	2163			23	1
3	QPSK	8	7	2159	2167	2163	</			



Band 12 Ant 0										
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)										
10	QPSK	1	0	22.84	22.78	22.53				
10	QPSK	1	35	22.85	22.54	22.52			24	0
10	QPSK	1	40	22.81	22.70	22.59				
10	QPSK	35	0	22.84	22.54	22.52				
10	QPSK	35	12	21.88	21.70	21.55				
10	QPSK	35	25	21.88	21.64	21.63			23	1
10	QPSK	35	0	20.76	20.70	20.56				
10	HQAM	1	0	21.71	21.68	21.63				
10	HQAM	1	25	21.54	21.71	21.62			23	1
10	HQAM	40	0	21.70	21.70	21.52				
10	HQAM	35	0	20.71	20.84	20.89				
10	HQAM	35	12	20.84	20.84	20.70				
10	HQAM	35	25	20.59	20.72	20.70			22	2
10	HQAM	50	0	20.89	20.75	20.62				
10	HQAM	50	0	20.96	20.96	20.96				
10	HQAM	1	35	20.82	20.63	20.61			22	2
10	HQAM	1	40	20.71	20.80	20.65				
10	HQAM	25	0	19.28	19.27	19.03				
10	HQAM	35	12	19.56	19.63	19.66			21	3
10	HQAM	35	25	19.48	19.61	19.55				
10	HQAM	50	0	17.75	17.56	17.73				
10	SSBQAM	1	0	17.75	17.56	17.73				
10	SSBQAM	1	35	17.94	17.81	17.80			19	5
10	SSBQAM	1	40	17.88	17.84	17.81				
10	SSBQAM	35	0	17.83	17.71	17.66				
10	SSBQAM	35	12	17.83	17.83	17.67				
10	SSBQAM	35	25	17.68	17.75	17.80			19	5
10	SSBQAM	50	0	17.86	17.65	17.71				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.84	22.78	22.53				
5	QPSK	1	35	22.85	22.54	22.52			24	0
5	QPSK	1	40	22.81	22.67	22.49				
5	QPSK	12	0	21.83	21.66	21.51				
5	QPSK	12	13	21.83	21.50	21.50			23	1
5	QPSK	25	0	21.41	21.61	21.47				
5	HQAM	1	0	21.66	21.67	21.49				
5	HQAM	1	12	21.42	21.67	21.57			23	1
5	HQAM	1	24	21.41	21.64	21.56				
5	HQAM	12	0	20.59	20.79	20.72				
5	HQAM	12	7	20.52	20.57	20.55			22	2
5	HQAM	13	0	20.56	20.56	20.56				
5	HQAM	35	0	20.47	20.61	20.59				
5	HQAM	1	0	20.86	20.70	20.45				
5	HQAM	1	12	20.72	20.86	20.67			22	2
5	HQAM	1	24	20.88	20.73	20.62				
5	HQAM	12	0	19.52	19.66	19.49				
5	HQAM	12	7	19.62	19.54	19.48				
5	HQAM	12	13	19.65	19.58	19.47			21	3
5	HQAM	25	0	19.40	19.51	19.45				
5	SSBQAM	1	0	17.70	17.63	17.61				
5	SSBQAM	1	12	17.78	17.63	17.61			19	5
5	SSBQAM	1	24	17.69	17.65	17.65				
5	SSBQAM	12	0	17.51	17.57	17.51				
5	SSBQAM	12	7	17.44	17.51	17.51			19	5
5	SSBQAM	13	0	17.63	17.64	17.66				
5	SSBQAM	35	0	17.55	17.58	17.61				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.84	22.78	22.54				
3	QPSK	1	8	22.40	22.52	22.48			24	0
3	QPSK	14	0	22.63	22.58	22.55				
3	QPSK	8	0	21.67	21.67	21.43				
3	QPSK	8	4	21.57	21.62	21.44			23	1
3	QPSK	7	0	21.60	21.63	21.53				
3	QPSK	16	0	21.43	21.61	21.45				
3	HQAM	1	0	21.57	21.61	21.56				
3	HQAM	1	8	21.57	21.68	21.63			23	1
3	HQAM	1	14	21.63	21.63	21.43				
3	HQAM	8	0	20.59	20.73	20.66				
3	HQAM	8	4	20.60	20.62	20.57			22	2
3	HQAM	8	7	20.56	20.58	20.66				
3	HQAM	35	0	20.64	20.66	20.54				
3	HQAM	1	0	20.66	20.58	20.52				
3	HQAM	1	8	20.70	20.80	20.78			22	2
3	HQAM	1	14	20.60	20.74	20.54				
3	HQAM	8	0	19.54	19.74	19.53				
3	HQAM	8	4	19.46	19.56	19.46			21	3
3	HQAM	8	7	19.56	19.51	19.45				
3	HQAM	16	0	19.35	19.52	19.45				
3	SSBQAM	1	0	17.71	17.65	17.65				
3	SSBQAM	1	8	17.75	17.54	17.77			19	5
3	SSBQAM	1	14	17.79	17.64	17.72				
3	SSBQAM	8	0	17.56	17.64	17.58				
3	SSBQAM	8	4	17.39	17.59	17.50			19	5
3	SSBQAM	8	7	17.57	17.66	17.73				
3	SSBQAM	35	0	17.44	17.64	17.68				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.41	22.29	22.62				
1.4	QPSK	1	3	22.52	22.49	22.59				
1.4	QPSK	1	5	22.47	22.59	22.44			24	0
1.4	QPSK	3	0	22.51	22.71	22.56				
1.4	QPSK	3	1	22.51	22.58	22.59				
1.4	QPSK	3	3	22.52	22.64	22.46				
1.4	QPSK	6	0	21.60	21.61	21.40			23	1
1.4	HQAM	1	0	21.58	21.59	21.47				
1.4	HQAM	3	0	21.69	21.63	21.52				
1.4	HQAM	1	5	21.48	21.55	21.50			23	1
1.4	HQAM	3	0	21.63	21.58	21.51				
1.4	HQAM	3	1	21.48	21.66	21.53				
1.4	HQAM	3	3	21.65	21.63	21.48				
1.4	HQAM	6	0	20.61	20.76	20.71			22	2
1.4	HQAM	1	0	20.62	20.59	20.59				
1.4	HQAM	1	3	20.51	20.57	20.61				
1.4	HQAM	1	6	20.32	20.71	20.52			22	2
1.4	HQAM	3	0	20.61	20.64	20.48				
1.4	HQAM	3	1	20.69	20.50	20.75				
1.4	HQAM	6	0	20.66	20.74	20.64				
1.4	HQAM	6	0	19.41	19.57	19.48			21	3
1.4	SSBQAM	1	0	17.66	17.63	17.66				
1.4	SSBQAM	1	3	17.79	17.78	17.76				
1.4	SSBQAM	1	5	17.84	17.62	17.74			19	5
1.4	SSBQAM	3	0	17.51	17.67	17.51				
1.4	SSBQAM	3	1	17.41	17.49	17.43				
1.4	SSBQAM	3	3	17.59	17.68	17.68				
1.4	SSBQAM	6	0	17.40	17.54	17.57			19	5

Band 13 Ant 0										
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)										
10	QPSK	1	0	22.80	22.80	22.80				
10	QPSK	1	25	22.91	22.91	22.91			24	0
10	QPSK	1	40	22.85	22.85	22.85				
10	QPSK	35	0	21.81	21.81	21.81				
10	QPSK	35	12	21.86	21.86	21.86			23	1
10	QPSK	35	25	21.81	21.81	21.81				
10	QPSK	50	0	21.82	21.82	21.82				
10	HQAM	1	0	21.79	21.79	21.79				
10	HQAM	1	25	21.82	21.82	21.82			23	1
10	HQAM	1	40	21.80	21.80	21.80				
10	HQAM	25	0	20.97	20.97	20.97				
10	HQAM	25	12	20.76	20.76	20.76				
10	HQAM	25	25	20.88	20.88	20.88			22	2
10	HQAM	50	0	20.86	20.86	20.86				
10	HQAM	50	0	20.88	20.88	20.88				
10	HQAM	1	25	21.10	21.10	21.10			22	2
10	HQAM	1	40							



Band 26 Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch/Freq	Power High Ch/Freq	Power Max Ch/Freq	Turn-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.82	22.82	22.77				
15	QPSK	1	37	22.85	22.75	22.84	24	0		
15	QPSK	1	74	22.88	22.73	22.82				
15	QPSK	3	0	21.63	21.51	21.52				
15	QPSK	36	20	21.63	21.70	21.48				
15	QPSK	36	56	21.63	21.69	21.59				
15	QPSK	36	86	21.63	21.73	21.58				
15	QPSK	36	116	21.63	21.74	21.60				
15	QPSK	36	146	21.63	21.75	21.62				
15	QPSK	36	176	21.63	21.76	21.63				
15	QPSK	36	206	21.63	21.77	21.64				
15	QPSK	36	236	21.63	21.78	21.65				
15	QPSK	36	266	21.63	21.79	21.66				
15	QPSK	36	296	21.63	21.80	21.67				
15	QPSK	36	326	21.63	21.81	21.68				
15	QPSK	36	356	21.63	21.82	21.69				
15	QPSK	36	386	21.63	21.83	21.70				
15	QPSK	36	416	21.63	21.84	21.71				
15	QPSK	36	446	21.63	21.85	21.72				
15	QPSK	36	476	21.63	21.86	21.73				
15	QPSK	36	506	21.63	21.87	21.74				
15	QPSK	36	536	21.63	21.88	21.75				
15	QPSK	36	566	21.63	21.89	21.76				
15	QPSK	36	596	21.63	21.90	21.77				
15	QPSK	36	626	21.63	21.91	21.78				
15	QPSK	36	656	21.63	21.92	21.79				
15	QPSK	36	686	21.63	21.93	21.80				
15	QPSK	36	716	21.63	21.94	21.81				
15	QPSK	36	746	21.63	21.95	21.82				
15	QPSK	36	776	21.63	21.96	21.83				
15	QPSK	36	806	21.63	21.97	21.84				
15	QPSK	36	836	21.63	21.98	21.85				
15	QPSK	36	866	21.63	21.99	21.86				
15	QPSK	36	896	21.63	22.00	21.87				
15	QPSK	36	926	21.63	22.01	21.88				
15	QPSK	36	956	21.63	22.02	21.89				
15	QPSK	36	986	21.63	22.03	21.90				
15	QPSK	36	1016	21.63	22.04	21.91				
15	QPSK	36	1046	21.63	22.05	21.92				
15	QPSK	36	1076	21.63	22.06	21.93				
15	QPSK	36	1106	21.63	22.07	21.94				
15	QPSK	36	1136	21.63	22.08	21.95				
15	QPSK	36	1166	21.63	22.09	21.96				
15	QPSK	36	1196	21.63	22.10	21.97				
15	QPSK	36	1226	21.63	22.11	21.98				
15	QPSK	36	1256	21.63	22.12	21.99				
15	QPSK	36	1286	21.63	22.13	22.00				
15	QPSK	36	1316	21.63	22.14	22.01				
15	QPSK	36	1346	21.63	22.15	22.02				
15	QPSK	36	1376	21.63	22.16	22.03				
15	QPSK	36	1406	21.63	22.17	22.04				
15	QPSK	36	1436	21.63	22.18	22.05				
15	QPSK	36	1466	21.63	22.19	22.06				
15	QPSK	36	1496	21.63	22.20	22.07				
15	QPSK	36	1526	21.63	22.21	22.08				
15	QPSK	36	1556	21.63	22.22	22.09				
15	QPSK	36	1586	21.63	22.23	22.10				
15	QPSK	36	1616	21.63	22.24	22.11				
15	QPSK	36	1646	21.63	22.25	22.12				
15	QPSK	36	1676	21.63	22.26	22.13				
15	QPSK	36	1706	21.63	22.27	22.14				
15	QPSK	36	1736	21.63	22.28	22.15				
15	QPSK	36	1766	21.63	22.29	22.16				
15	QPSK	36	1796	21.63	22.30	22.17				
15	QPSK	36	1826	21.63	22.31	22.18				
15	QPSK	36	1856	21.63	22.32	22.19				
15	QPSK	36	1886	21.63	22.33	22.20				
15	QPSK	36	1916	21.63	22.34	22.21				
15	QPSK	36	1946	21.63	22.35	22.22				
15	QPSK	36	1976	21.63	22.36	22.23				
15	QPSK	36	2006	21.63	22.37	22.24				
15	QPSK	36	2036	21.63	22.38	22.25				
15	QPSK	36	2066	21.63	22.39	22.26				
15	QPSK	36	2096	21.63	22.40	22.27				
15	QPSK	36	2126	21.63	22.41	22.28				
15	QPSK	36	2156	21.63	22.42	22.29				
15	QPSK	36	2186	21.63	22.43	22.30				
15	QPSK	36	2216	21.63	22.44	22.31				
15	QPSK	36	2246	21.63	22.45	22.32				
15	QPSK	36	2276	21.63	22.46	22.33				
15	QPSK	36	2306	21.63	22.47	22.34				
15	QPSK	36	2336	21.63	22.48	22.35				
15	QPSK	36	2366	21.63	22.49	22.36				
15	QPSK	36	2396	21.63	22.50	22.37				
15	QPSK	36	2426	21.63	22.51	22.38				
15	QPSK	36	2456	21.63	22.52	22.39				
15	QPSK	36	2486	21.63	22.53	22.40				
15	QPSK	36	2516	21.63	22.54	22.41				
15	QPSK	36	2546	21.63	22.55	22.42				
15	QPSK	36	2576	21.63	22.56	22.43				
15	QPSK	36	2606	21.63	22.57	22.44				
15	QPSK	36	2636	21.63	22.58	22.45				
15	QPSK	36	2666	21.63	22.59	22.46				
15	QPSK	36	2696	21.63	22.60	22.47				
15	QPSK	36	2726	21.63	22.61	22.48				
15	QPSK	36	2756	21.63	22.62	22.49				
15	QPSK	36	2786	21.63	22.63	22.50				
15	QPSK	36	2816	21.63	22.64	22.51				
15	QPSK	36	2846	21.63	22.65	22.52				
15	QPSK	36	2876	21.63	22.66	22.53				
15	QPSK	36	2906	21.63	22.67	22.54				
15	QPSK	36	2936	21.63	22.68	22.55				
15	QPSK	36	2966	21.63	22.69	22.56				
15	QPSK	36	2996	21.63	22.70	22.57				
15	QPSK	36	3026	21.63	22.71	22.58				
15	QPSK	36	3056	21.63	22.72	22.59				
15	QPSK	36	3086	21.63	22.73	22.60				
15	QPSK	36	3116	21.63	22.74	22.61				
15	QPSK	36	3146	21.63	22.75	22.62				
15	QPSK	36	3176	21.63	22.76	22.63				
15	QPSK	36	3206	21.63	22.77	22.64				
15	QPSK	36	3236	21.63	22.78	22.65				
15	QPSK	36	3266	21.63	22.79	22.66				
15	QPSK	36	3296	21.63	22.80	22.67				
15	QPSK	36	3326	21.63	22.81	22.68				
15	QPSK	36	3356	21.63	22.82	22.69				
15	QPSK	36	3386	21.63	22.83	22.70				
15	QPSK	36	3416	21.63	22.84	22.71				
15	QPSK	36	3446	21.63	22.85	22.72				
15	QPSK	36	3476	21.63	22.86	22.73				
15	QPSK	36	3506	21.63	22.87	22.74				
15	QPSK	36	3536	21.63	22.88	22.75				
15	QPSK	36	3566	21.63	22.89	22.76				
15	QPSK	36	3596	21.63	22.90	22.77				
15	QPSK	36	3626	21.63	22.91	22.78				
15	QPSK	36	3656	21.63	22.92	22.79				
15	QPSK	36	3686	21.63	22.93	22.80				
15	QPSK	36	3716	21.63	22.94	22.81				
15	QPSK	36								



Band 38 Ant 0										
RF (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Time-up (min)	MPR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.21	23.20	23.27			24	0
20	QPSK	1	40	23.11	23.20	23.24				
20	QPSK	1	80	23.15	23.24	23.18				
20	QPSK	50	0	22.21	22.20	22.13				
20	QPSK	50	24	22.15	22.16	22.16				
20	QPSK	50	50	22.14	22.13	21.98			23	1
20	QPSK	100	0	22.04	22.03	22.04				
20	16QAM	1	0	22.06	22.06	22.06				
20	16QAM	1	40	21.93	22.14	22.07			23	1
20	16QAM	1	80	22.11	22.12	22.05				
20	16QAM	50	0	21.91	21.92	21.98				
20	16QAM	50	24	21.98	21.95	21.98				
20	16QAM	50	50	21.12	21.18	21.48				
20	8QAM	1	0	21.28	21.31	21.19			22	2
20	8QAM	1	40	21.32	21.47	21.37				
20	8QAM	1	80	21.18	21.18	21.23				
20	8QAM	50	0	22.06	22.06	22.06				
20	8QAM	50	24	22.04	22.01	21.99				
20	8QAM	50	50	20.02	20.07	19.99				
20	8QAM	100	0	20.00	20.18	20.08				
20	25QAM	1	0	18.19	18.26	18.21				
20	25QAM	1	40	18.18	18.24	18.25				
20	25QAM	1	80	18.07	18.07	18.20				
20	25QAM	50	0	18.13	18.17	17.98			19	5
20	25QAM	50	24	18.05	18.22	18.20				
20	25QAM	50	50	18.12	18.26	18.16				
20	25QAM	100	0	17.95	18.21	18.08				
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.10	23.09	23.13			24	0
15	QPSK	1	40	23.06	23.14	23.14				
15	QPSK	1	80	23.08	23.10	23.07				
15	QPSK	50	0	22.15	22.16	22.16				
15	QPSK	50	24	22.19	22.08	22.12			23	1
15	QPSK	50	50	22.05	21.99	21.91				
15	QPSK	100	0	22.03	22.11	21.90				
15	16QAM	1	0	22.00	22.11	21.98				
15	16QAM	1	40	22.04	21.98	21.98			23	1
15	16QAM	1	80	21.09	21.10	21.12				
15	16QAM	50	0	21.08	21.08	21.07				
15	16QAM	50	24	21.12	21.19	21.22			22	2
15	16QAM	50	50	21.03	21.18	21.17				
15	16QAM	100	0	21.18	21.18	21.20				
15	8QAM	1	0	21.22	21.32	21.24			22	2
15	8QAM	1	40	21.11	21.14	21.10				
15	8QAM	1	80	20.08	20.07	20.12				
15	8QAM	50	0	19.82	19.95	19.94				
15	8QAM	50	24	19.88	20.00	19.95			21	3
15	8QAM	50	50	19.85	19.92	19.92				
15	25QAM	1	0	18.09	18.15	18.17				
15	25QAM	1	40	18.31	18.33	18.26			19	5
15	25QAM	1	80	18.05	18.05	18.20				
15	25QAM	50	0	17.80	18.16	17.86				
15	25QAM	50	24	18.03	18.21	18.10			19	5
15	25QAM	50	50	17.82	18.09	18.10				
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.16	23.16	23.19			24	0
10	QPSK	1	25	23.04	23.16	23.19				
10	QPSK	1	50	23.12	23.16	23.16				
10	QPSK	25	0	22.16	22.18	21.88				
10	QPSK	25	12	22.07	22.14	22.06			23	1
10	QPSK	25	24	22.05	22.05	21.98				
10	QPSK	50	0	21.83	22.11	21.99				
10	16QAM	1	0	21.83	22.07	22.02			23	1
10	16QAM	1	40	22.05	21.98	22.02				
10	16QAM	1	80	21.02	21.11	21.06				
10	16QAM	25	0	21.05	21.18	21.02			22	2
10	16QAM	25	12	21.02	21.12	21.05				
10	16QAM	25	24	21.01	21.12	21.07				
10	8QAM	1	0	21.19	21.32	21.27			21	3
10	8QAM	1	40	21.03	21.13	21.18				
10	8QAM	1	80	20.10	20.21	20.17				
10	8QAM	25	0	19.91	20.02	20.13				
10	8QAM	25	12	19.89	20.02	20.01			21	3
10	8QAM	25	24	19.85	20.06	20.06				
10	25QAM	1	0	18.14	18.18	18.20				
10	25QAM	1	25	18.11	18.24	18.23			19	5
10	25QAM	1	50	18.07	18.07	18.07				
10	25QAM	25	0	18.08	18.21	18.13				
10	25QAM	25	12	17.86	18.02	18.15			19	5
10	25QAM	25	24	17.88	18.15	18.12				
10	25QAM	50	0	18.18	18.02	18.23				
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.05	23.05	23.05			24	0
5	QPSK	1	12	23.00	23.06	23.17				
5	QPSK	1	24	23.00	23.11	23.08				
5	QPSK	12	0	22.10	22.10	22.10				
5	QPSK	12	12	22.10	22.08	22.08			23	1
5	QPSK	12	24	22.05	22.05	22.11				
5	QPSK	25	0	21.81	22.06	22.05				
5	16QAM	1	0	21.80	22.01	22.18			23	1
5	16QAM	1	12	21.80	22.08	22.03				
5	16QAM	1	24	22.05	22.06	21.91				
5	16QAM	12	0	21.18	21.14	21.18				
5	16QAM	12	12	21.04	21.14	21.07			22	2
5	16QAM	12	24	20.99	21.04	20.94				
5	8QAM	1	0	21.04	21.28	21.07				
5	8QAM	1	12	21.25	21.43	21.25			22	2
5	8QAM	1	24	21.08	21.03	21.14				
5	8QAM	12	0	20.05	20.05	20.07				
5	8QAM	12	12	19.86	19.86	19.86			21	3
5	8QAM	12	24	19.82	20.04	19.86				
5	8QAM	25	0	19.36	20.04	19.99				
5	25QAM	1	0	18.12	18.16	18.13				
5	25QAM	1	12	18.12	18.12	18.13			19	5
5	25QAM	1	24	18.31	18.40	18.19				
5	25QAM	12	0	17.99	18.11	17.96				
5	25QAM	12	12	18.01	18.15	18.13			19	5
5	25QAM	12	24	17.99	18.14	18.12				
5	25QAM	25	0	17.81	18.16	17.94				

Band 41 Ant 0										
RF (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Time-up (min)	MPR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.18	23.30	23.35	23.34	23.23	24	0
20	QPSK	1	40	23.18	23.23	23.28	23.30	23.10		
20	QPSK	1	80	23.10	23.24	23.34	23.36	23.18		
20	QPSK	50	0	22.21	22.28	22.38	22.19	22.18		
20	QPSK	50	24	22.15	22.24	22.36	22.18	22.18		
20	QPSK	50	50	22.17	22.23	22.24	22.08	22.20	23	1
20	QPSK	100	0	22.01	22.10	22.28	22.19	22.05		
20	16QAM	1	0	22.02	22.13	22.26	22.11	22.00		
20	16QAM	1	40	21.83	22.03	22.21	22.15	21.90	23	1
20	16QAM	1	80	22.21	22.29	22.21	22.29	22.18		
20	16QAM	50	0	21.91	21.91	21.91	21.91	21.90		
20	16QAM	50	24	21.18	21.24	21.28	21.21	21.18		
20	16QAM	50	50	21.13	21.20	21.25	21.45	21.20		
20	8QAM	1	0	21.17	21.27	21.25	21.21	21.13		
20	8QAM	1	40	21.20	21.38	21.39	21.25	21.33		
20	8QAM	1	80	21.92	22.04	21.98	21.90	21.87		
20	8QAM	1	160	21.15	21.25	21.30	21.28	21.21		
20	8QAM	50	0	22.02	22.12	22.22	22.11	22.07		
20	8QAM	50	24	22.07	22.07	22.05	22.05	22.07		
20	8QAM	50	50	20.03	20.09	20.13	20.07	19.99		
20	8QAM	100	0	20.07	20.15	20.28	20.20	20.00		
20	25QAM	1	0	18.17	18.30	18.41	18.31	18.18		
20	25QAM	1	40	18.25	18.32	18.34	18.41	18.18	19	5
20	25QAM	1	80	18.35	18.34	18.32	18.41	18.17		
20	25QAM	50	0	18.21	18.29	18.25	18.13	18.17		
20	25QAM	50	24	18.02	18.10	18.17	18.15	18.15		
20	25QAM	50	50	18.11	18.19	18.22	18.23	18.12	19	5
20	25QAM	100	0	18.20	18.18	18.20	18.20	17.99		
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.16	23.16	23.19	23.17	23.14	24	0
15	QPSK	1	40	23.11	23.14	23.14	23.17	23.08		
15	QPSK	1	80	23.08	23.09	23.07	23.18	23.10		
15	QPSK	50	0	22.15	22.16	22.16	22.16	22.16		
15	QPSK	50	24	22.11	22.12	22.25	22.22	22.02		
15	QPSK	50	50	22.07	22.14	22.20	22.02	22.14		
15	QPSK	100	0	21.9						



COGNAC A&T													
	Ruled Average Power (dBm)			Turn-up	Frame Average Power (dBm)			Turn-up					
TX Channel	194	189	201	Limit (dBm)	198	199	201	Limit (dBm)					
Frequency (MHz)	824.8	818.4	819.9	33.00	802.2	805.4	848.8						
OSNR 1 Tx (dB)	32.86	30.84	32.91	33.00	29.86	29.44	29.91	29.90					
OSNR 2 Tx (dB)	32.84	30.80	32.75	33.00	29.84	29.38	29.71	29.90					
OSNR 3 Tx (dB)	35.15	33.29	35.17	31.00	34.15	34.20	34.17	35.00					
OSNR 4 Tx (dB)	28.89	28.74	28.84	29.00	27.88	28.48	28.24	29.00					
OSNR 5 Tx (dB)	28.69	28.78	28.68	29.00	27.88	28.78	27.89	29.00					
EDGE 1 Tx (dB)	25.00	25.03	25.86	27.00	18.02	18.95	18.86	18.00					
EDGE 2 Tx (dB)	25.00	25.15	25.95	26.00	18.06	18.15	18.99	18.00					
EDGE 3 Tx (dB)	23.34	23.41	23.27	24.00	18.08	19.15	19.01	20.24					
EDGE 4 Tx (dB)	21.68	21.81	21.70	22.00	18.88	18.81	18.79	20.00					
COGNAC A&T													
	Ruled Average Power (dBm)			Turn-up	Frame Average Power (dBm)			Turn-up					
TX Channel	512	661	810	Limit (dBm)	512	661	810	Limit (dBm)					
Frequency (MHz)	868	867	810	33.00	812	808	807.8						
OSNR 1 Tx (dB)	29.21	28.78	30.24	30.00	29.21	29.24	29.24	31.00					
OSNR 2 Tx (dB)	29.12	28.23	29.15	30.00	28.12	28.23	28.15	31.00					
OSNR 3 Tx (dB)	28.71	28.17	28.08	27.00	28.11	28.15	28.08	29.00					
OSNR 4 Tx (dB)	24.42	24.54	24.41	25.00	20.16	20.28	20.15	21.24					
OSNR 5 Tx (dB)	22.75	22.86	22.74	24.00	19.70	19.81	19.74	21.00					
EDGE 1 Tx (dB)	24.00	24.30	24.30	25.00	18.02	18.20	18.10	18.00					
EDGE 2 Tx (dB)	23.00	22.71	23.08	24.00	17.68	17.23	17.00	18.00					
EDGE 3 Tx (dB)	21.79	21.68	21.78	23.00	17.53	17.62	17.52	18.74					
EDGE 4 Tx (dB)	20.00	20.15	20.01	21.00	17.08	17.15	17.01	18.00					
WICOMA A													
	WICOMA I			Turn-up	WICOMA IV			Turn-up	WICOMA V				
TX Channel	9063	9060	9038	Limit (dBm)	1512	1415	1513	Limit (dBm)	4132	4133			
Frequency (MHz)	8662	8660	8668	33.00	8537	8638	1738	4307	4407	4408			
OSNR Full	1892.6	1890	1893.4	23.00	1815.6	1812.8	1807.6	386.8	386.4	386.6			
OSNR Part 1	AMR 12-20kpa	21.89	21.83	21.85	23.00	21.59	21.73	21.82	23.00	22.81	22.86	22.83	24.00
OSNR Part 2	AMR 12-20kpa	21.84	21.78	21.83	23.00	21.66	21.69	21.74	23.00	22.21	22.26	22.28	24.00
OSNR Part 3	MSRPA Subband 1	20.79	21.03	20.73	22.00	20.93	21.05	20.81	22.00	21.63	22.03	21.77	23.00
OSNR Part 4	MSRPA Subband 2	20.58	20.68	20.75	22.00	20.64	20.78	20.76	22.00	21.88	21.79	21.75	23.00
OSNR Part 5	MSRPA Subband 3	20.53	20.62	20.15	21.00	20.34	20.31	20.20	21.00	21.51	21.25	21.15	22.00
OSNR Part 6	MSRPA Subband 4	20.11	20.26	20.23	21.00	20.23	20.31	20.33	21.00	21.25	21.28	21.34	22.00
OSNR Part 7	DC-MSRPA Subband 1	20.24	20.14	20.61	22.00	20.84	20.82	20.80	22.00	21.80	21.86	21.75	23.00
OSNR Part 8	DC-MSRPA Subband 2	20.21	20.52	20.71	22.00	20.78	20.68	20.80	22.00	21.21	21.59	21.80	23.00
OSNR Part 9	DC-MSRPA Subband 3	20.13	20.27	20.00	21.00	20.22	20.26	20.27	21.00	21.18	21.33	21.06	22.00
OSNR Part 10	DC-MSRPA Subband 4	20.02	20.30	19.92	21.00	20.14	20.33	20.05	21.00	21.18	21.38	21.06	22.00
OSNR Part 11	MSRPA Subband 1	18.24	18.46	18.25	22.00	18.41	18.74	18.18	22.00	17.88	17.80	17.86	23.00
OSNR Part 12	MSRPA Subband 2	18.29	18.75	18.87	20.00	18.91	18.80	18.73	20.00	18.81	18.86	18.73	21.00
OSNR Part 13	MSRPA Subband 3	18.08	18.84	18.82	21.00	18.70	18.86	18.89	21.00	20.01	20.73	20.80	22.00
OSNR Part 14	MSRPA Subband 4	18.00	18.08	18.81	20.00	18.87	18.70	18.73	20.00	18.61	18.83	18.70	21.00
OSNR Part 15	MSRPA Subband 5	20.58	20.74	20.53	22.00	20.64	20.78	20.68	22.00	21.84	21.73	21.68	23.00



MINISTRY OF NATIONAL DEFENSE

Band 2 Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq. (W/Hz)	Power Mask (dB)	High Ch./Freq. (W/Hz)	High Mask (dB)	Turn-up (dB)	MPR (dB)	
Channel										
Frequency (MHz)										
20	QPSK	1	0	1880	1880	1900				
20	QPSK	1	49	2114	2114	2113			23	0
20	QPSK	1	99	2109	2109	2111				
20	QPSK	1	149	2104	2104	2105				
20	QPSK	50	24	2013	2013	2009			22	1
20	QPSK	50	24	2011	2010	2007				
20	QPSK	50	24	2005	2005	1994				
20	HQAM	1	0	2058	2058	2039				
20	HQAM	1	49	2003	2003	2011			22	1
20	HQAM	1	99	2002	2002	1994				
20	HQAM	50	0	1931	1931	1924				
20	HQAM	50	49	1931	1931	1924			21	2
20	HQAM	50	99	1927	1927	1917				
20	HQAM	100	0	1920	1920	1909				
20	HQAM	1	49	1935	1935	1925			21	2
20	HQAM	1	99	1928	1927	1911				
20	HQAM	50	24	1734	1734	1744			20	3
20	HQAM	50	24	1733	1733	1724				
20	HQAM	100	0	1732	1732	1727				
20	ZSMBAM	1	0	1625	1625	1630				
20	ZSMBAM	1	49	1621	1626	1631			18	5
20	ZSMBAM	1	99	1626	1626	1631				
20	ZSMBAM	50	0	1603	1611	1614				
20	ZSMBAM	50	49	1603	1611	1614				
20	ZSMBAM	50	99	1610	1610	1607			18	5
20	ZSMBAM	100	0	1608	1608	1604				
Channel										
Frequency (MHz)										
15	QPSK	1	0	2103	2103	2103				
15	QPSK	1	49	2103	2103	2103			23	0
15	QPSK	1	99	2105	2105	2108				
15	QPSK	38	0	1936	1936	1936				
15	QPSK	38	49	1932	1932	1932				
15	QPSK	38	99	1931	1930	1936			22	1
15	QPSK	75	0	1931	1936	1937				
15	QPSK	75	49	1934	1936	1937				
15	HQAM	1	49	1935	1935	1933			22	1
15	HQAM	1	99	1935	1935	1934				
15	HQAM	50	0	1925	1925	1914				
15	HQAM	50	49	1925	1925	1914			21	2
15	HQAM	100	0	1927	1927	1924				
15	HQAM	1	49	1926	1926	1916			21	2
15	HQAM	1	99	1926	1926	1916				
15	HQAM	50	24	1820	1820	1821			20	3
15	HQAM	50	24	1820	1820	1821				
15	HQAM	100	0	1820	1820	1821				
15	ZSMBAM	1	49	1820	1820	1821			18	5
15	ZSMBAM	1	99	1820	1820	1821				
15	ZSMBAM	50	0	1820	1820	1821				
15	ZSMBAM	50	49	1820	1820	1821				
15	ZSMBAM	50	99	1820	1820	1821			18	5
15	ZSMBAM	100	0	1820	1820	1821				
Channel										
Frequency (MHz)										
10	QPSK	1	0	2102	2102	2108				
10	QPSK	1	25	2091	2101	2101			23	0
10	QPSK	1	50	2091	2101	2101				
10	QPSK	25	0	1927	1927	1927				
10	QPSK	25	12	1929	1929	1929				
10	QPSK	25	12	1929	1929	1929			22	1
10	QPSK	50	0	1926	1926	1926				
10	HQAM	1	0	1930	1930	1930				
10	HQAM	1	49	1930	1930	1930			22	1
10	HQAM	1	99	1930	1930	1930				
10	HQAM	50	0	1928	1928	1924				
10	HQAM	50	49	1928	1928	1924			21	2
10	HQAM	100	0	1928	1928	1924				
10	HQAM	1	49	1928	1928	1924			21	2
10	HQAM	1	99	1928	1928	1924				
10	HQAM	50	24	1820	1820	1821			20	3
10	HQAM	50	24	1820	1820	1821				
10	HQAM	100	0	1820	1820	1821				
10	ZSMBAM	1	49	1820	1820	1821			18	5
10	ZSMBAM	1	99	1820	1820	1821				
10	ZSMBAM	50	0	1820	1820	1821				
10	ZSMBAM	50	49	1820	1820	1821				
10	ZSMBAM	50	99	1820	1820	1821			18	5
10	ZSMBAM	100	0	1820	1820	1821				
Channel										
Frequency (MHz)										
5	QPSK	1	0	2102	2102	2108				
5	QPSK	1	12	2093	2101	2108			23	0
5	QPSK	1	24	2095	2095	2106				
5	QPSK	1	36	2093	2093	2101				
5	QPSK	12	7	1934	1931	1936				
5	QPSK	12	19	1931	1931	1936			22	1
5	QPSK	25	0	1931	1936	1937				
5	HQAM	1	0	1931	1936	1939				
5	HQAM	1	24	1935	1935	1936			22	1
5	HQAM	1	49	1938	1938	1935				
5	HQAM	1	74	1935	1935	1934				
5	HQAM	50	0	1928	1928	1924				
5	HQAM	50	49	1928	1928	1924			21	2
5	HQAM	100	0	1928	1928	1924				
5	HQAM	1	49	1928	1928	1924			21	2
5	HQAM	1	99	1928	1928	1924				
5	HQAM	50	24	1820	1820	1821			20	3
5	HQAM	50	24	1820	1820	1821				
5	HQAM	100	0	1820	1820	1821				
5	ZSMBAM	1	49	1820	1820	1821			18	5
5	ZSMBAM	1	99	1820	1820	1821				
5	ZSMBAM	50	0	1820	1820	1821				
5	ZSMBAM	50	49	1820	1820	1821				
5	ZSMBAM	50	99	1820	1820	1821			18	5
5	ZSMBAM	100	0	1820	1820	1821				
Channel										
Frequency (MHz)										
3	QPSK	1	0	2101	2101	2108				
3	QPSK	1	6	2101	2101	2108			23	0
3	QPSK	1	14	2103	2103	2103				
3	QPSK	8	0	1936	1936	1936				
3	QPSK	8	6	1939	1939	1939				
3	QPSK	8	7	1932	1936	1934			22	1
3	HQAM	1	0	1936	1936	1936				
3	HQAM	1	6	1936	1936	1936				
3	HQAM	1	14	1938	1938	1935			22	1
3	HQAM	1	21	1936	1936	1936				
3	HQAM	50	0	1928	1928	1924				
3	HQAM	50	6	1928	1928	1924			21	2
3	HQAM	100	0	1928	1928	1924				
3	HQAM	1	6	1928	1928	1924			21	2
3	HQAM	1	14	1928	1928	1924				
3	HQAM	50	24	1820	1820	1821			20	3
3	HQAM	50	24	1820	1820	1821				
3	HQAM	100	0	1820	1820	1821				
3	ZSMBAM	1	6	1820	1820	1821			18	5
3	ZSMBAM	1	14	1820	1820	1821				
3	ZSMBAM	50	0	1820	1820	1821				
3	ZSMBAM	50	6	1820	1820	1821				
3	ZSMBAM	50	14	1820	1820	1821			18	5
3	ZSMBAM	100	0	1820	1820	1821				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	2103	2103	2108				
1.4	QPSK	1	3	2099	2106	2108			23	0
1.4	QPSK	1	6	2099	2106	2108				
1.4	QPSK	3	0	2039	2039	2039				
1.4	QPSK	3	3	2049	2049	2047				
1.4	QPSK	3	6	2020	2038	2032			22	1
1.4	HQAM	1	0	2039	2039	2039				
1.4	HQAM	1	3	2039	2039	2039				
1.4	HQAM	1	6	2039	2039	2039				
1.4	HQAM</									



Band 12 Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Turn-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
707.5 707.5 711										
10	QPSK	1	0	22.22	22.22	22.22				
10	QPSK	1	35	22.22	22.22	22.22			24	0
10	QPSK	1	40	22.22	22.22	22.22				
10	QPSK	35	0	21.41	21.41	21.41				
10	QPSK	35	12	21.41	21.41	21.41			23	1
10	QPSK	35	25	21.40	21.53	21.30				
10	QPSK	35	38	21.40	21.47	21.38				
10	QPSK	35	51	21.41	21.48	21.41				
10	QPSK	35	64	21.41	21.54	21.39				
10	QPSK	35	77	21.36	21.50	21.36			23	1
10	QPSK	35	90	21.36	21.47	21.36				
10	QPSK	35	103	21.36	21.47	21.36				
10	QPSK	35	116	21.36	21.47	21.36				
10	QPSK	35	129	21.36	21.47	21.36				
10	QPSK	35	142	21.36	21.47	21.36				
10	QPSK	35	155	21.36	21.47	21.36				
10	QPSK	35	168	21.36	21.47	21.36				
10	QPSK	35	181	21.36	21.47	21.36				
10	QPSK	35	194	21.36	21.47	21.36				
10	QPSK	35	207	21.36	21.47	21.36				
10	QPSK	35	220	21.36	21.47	21.36				
10	QPSK	35	233	21.36	21.47	21.36				
10	QPSK	35	246	21.36	21.47	21.36				
10	QPSK	35	259	21.36	21.47	21.36				
10	QPSK	35	272	21.36	21.47	21.36				
10	QPSK	35	285	21.36	21.47	21.36				
10	QPSK	35	298	21.36	21.47	21.36				
10	QPSK	35	311	21.36	21.47	21.36				
10	QPSK	35	324	21.36	21.47	21.36				
10	QPSK	35	337	21.36	21.47	21.36				
10	QPSK	35	350	21.36	21.47	21.36				
10	QPSK	35	363	21.36	21.47	21.36				
10	QPSK	35	376	21.36	21.47	21.36				
10	QPSK	35	389	21.36	21.47	21.36				
10	QPSK	35	402	21.36	21.47	21.36				
10	QPSK	35	415	21.36	21.47	21.36				
10	QPSK	35	428	21.36	21.47	21.36				
10	QPSK	35	441	21.36	21.47	21.36				
10	QPSK	35	454	21.36	21.47	21.36				
10	QPSK	35	467	21.36	21.47	21.36				
10	QPSK	35	480	21.36	21.47	21.36				
10	QPSK	35	493	21.36	21.47	21.36				
10	QPSK	35	506	21.36	21.47	21.36				
10	QPSK	35	519	21.36	21.47	21.36				
10	QPSK	35	532	21.36	21.47	21.36				
10	QPSK	35	545	21.36	21.47	21.36				
10	QPSK	35	558	21.36	21.47	21.36				
10	QPSK	35	571	21.36	21.47	21.36				
10	QPSK	35	584	21.36	21.47	21.36				
10	QPSK	35	597	21.36	21.47	21.36				
10	QPSK	35	610	21.36	21.47	21.36				
10	QPSK	35	623	21.36	21.47	21.36				
10	QPSK	35	636	21.36	21.47	21.36				
10	QPSK	35	649	21.36	21.47	21.36				
10	QPSK	35	662	21.36	21.47	21.36				
10	QPSK	35	675	21.36	21.47	21.36				
10	QPSK	35	688	21.36	21.47	21.36				
10	QPSK	35	701	21.36	21.47	21.36				
10	QPSK	35	714	21.36	21.47	21.36				
10	QPSK	35	727	21.36	21.47	21.36				
10	QPSK	35	740	21.36	21.47	21.36				
10	QPSK	35	753	21.36	21.47	21.36				
10	QPSK	35	766	21.36	21.47	21.36				
10	QPSK	35	779	21.36	21.47	21.36				
10	QPSK	35	792	21.36	21.47	21.36				
10	QPSK	35	805	21.36	21.47	21.36				
10	QPSK	35	818	21.36	21.47	21.36				
10	QPSK	35	831	21.36	21.47	21.36				
10	QPSK	35	844	21.36	21.47	21.36				
10	QPSK	35	857	21.36	21.47	21.36				
10	QPSK	35	870	21.36	21.47	21.36				
10	QPSK	35	883	21.36	21.47	21.36				
10	QPSK	35	896	21.36	21.47	21.36				
10	QPSK	35	909	21.36	21.47	21.36				
10	QPSK	35	922	21.36	21.47	21.36				
10	QPSK	35	935	21.36	21.47	21.36				
10	QPSK	35	948	21.36	21.47	21.36				
10	QPSK	35	961	21.36	21.47	21.36				
10	QPSK	35	974	21.36	21.47	21.36				
10	QPSK	35	987	21.36	21.47	21.36				
10	QPSK	35	1000	21.36	21.47	21.36				
10	QPSK	35	1013	21.36	21.47	21.36				
10	QPSK	35	1026	21.36	21.47	21.36				
10	QPSK	35	1039	21.36	21.47	21.36				
10	QPSK	35	1052	21.36	21.47	21.36				
10	QPSK	35	1065	21.36	21.47	21.36				
10	QPSK	35	1078	21.36	21.47	21.36				
10	QPSK	35	1091	21.36	21.47	21.36				
10	QPSK	35	1104	21.36	21.47	21.36				
10	QPSK	35	1117	21.36	21.47	21.36				
10	QPSK	35	1130	21.36	21.47	21.36				
10	QPSK	35	1143	21.36	21.47	21.36				
10	QPSK	35	1156	21.36	21.47	21.36				
10	QPSK	35	1169	21.36	21.47	21.36				
10	QPSK	35	1182	21.36	21.47	21.36				
10	QPSK	35	1195	21.36	21.47	21.36				
10	QPSK	35	1208	21.36	21.47	21.36				
10	QPSK	35	1221	21.36	21.47	21.36				
10	QPSK	35	1234	21.36	21.47	21.36				
10	QPSK	35	1247	21.36	21.47	21.36				
10	QPSK	35	1260	21.36	21.47	21.36				
10	QPSK	35	1273	21.36	21.47	21.36				
10	QPSK	35	1286	21.36	21.47	21.36				
10	QPSK	35	1299	21.36	21.47	21.36				
10	QPSK	35	1312	21.36	21.47	21.36				
10	QPSK	35	1325	21.36	21.47	21.36				
10	QPSK	35	1338	21.36	21.47	21.36				
10	QPSK	35	1351	21.36	21.47	21.36				
10	QPSK	35	1364	21.36	21.47	21.36				
10	QPSK	35	1377	21.36	21.47	21.36				
10	QPSK	35	1390	21.36	21.47	21.36				
10	QPSK	35	1403	21.36	21.47	21.36				
10	QPSK	35	1416	21.36	21.47	21.36				
10	QPSK	35	1429	21.36	21.47	21.36				
10	QPSK	35	1442	21.36	21.47	21.36				
10	QPSK	35	1455	21.36	21.47	21.36				
10	QPSK	35	1468	21.36	21.47	21.36				
10	QPSK	35	1481	21.36	21.47	21.36				
10	QPSK	35	1494	21.36	21.47	21.36				
10	QPSK	35	1507	21.36	21.47	21.36				
10	QPSK	35	1520	21.36	21.47	21.36				
10	QPSK	35	1533	21.36	21.47	21.36				
10	QPSK	35	1546	21.36	21.47	21.36				
10	QPSK	35	1559	21.36	21.47	21.36				
10	QPSK	35	1572	21.36	21.47	21.36				
10	QPSK	35	1585	21.36	21.47	21.36				
10	QPSK	35	1598	21.36	21.47	21.36				
10	QPSK	35	1611	21.36	21.47	21.36				
10	QPSK	35	1624	21.36	21.47	21.36				
10	QPSK	35	1637	21.36	21.47	21.36				
10	QPSK	35	1650	21.36	21.47	21.36				
10	QPSK	35	1663	21.36	21.47	21.36				
10	QPSK	35	1676	21.36	21.47	21.36				
10	QPSK	35	1689	21.36	21.47	21.36				
10	QPSK	35	1702	21.36	21.47	21.36				
10	QPSK	35	1715	21.36	21.47	21.36				
10	QPSK	35	1728	21.36	21.47	21.36				
10	QPSK	35	1741	21.36	21.47	21.36				
10	QPSK	35	1754	21.36	21.47	21.36				
10	QPSK	35	1767	21.36	21.47	21.36				
10	QPSK	35	1780	21.36	21.47	21.36				
10	QPSK	35	1793	21.36	21.47	21.36				
10	QPSK	35	1806	21.36	21.47	21.36				
10	QPSK	35	1819	21.36	21.47	21.36				
10	QPSK	35	1832	21.36	21.47	21.36				
10	QPSK	35	1845	21.36	21.47	21.36				
10	QPSK	35	1858	21.36	21.47	21.36				
10	QPSK	35	1871	21.36	21.47	21.36				
10	QPSK	35	1884	21.36	21.					





Band 26 Ant 1													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up (dB)	MPE (dB)					
Channel										Frequency (MHz)	RB Size	RB Offset	MPE (dB)
15	QPSK	1	0	22.24	22.26	22.22	24	0					
15	QPSK	1	37	22.23	22.25	22.24	24	0					
15	QPSK	1	74	22.24	22.24	22.27	24	0					
15	QPSK	3	0	22.44	22.52	22.44	23	1					
15	QPSK	36	20	21.30	21.40	21.38	23	1					
15	QPSK	36	38	21.31	21.35	21.33	23	1					
15	QPSK	36	0	21.43	21.41	21.38	23	1					
15	QPSK	36	20	21.50	21.50	21.39	23	1					
15	QPSK	1	37	21.38	21.40	21.39	23	1					
15	QPSK	1	74	21.24	21.41	21.38	23	1					
15	QPSK	36	0	20.59	20.60	20.45	22	2					
15	QPSK	36	20	20.59	20.59	20.55	22	2					
15	QPSK	36	38	20.45	20.53	20.43	22	2					
15	QPSK	36	0	20.24	20.53	20.28	22	2					
15	QPSK	1	37	20.59	20.67	20.54	22	2					
15	QPSK	1	74	20.44	20.61	20.33	22	2					
15	QPSK	36	0	19.40	19.47	19.33	21	3					
15	QPSK	36	20	19.38	19.51	19.38	21	3					
15	QPSK	36	38	19.42	19.50	19.37	21	3					
15	QPSK	36	0	18.46	18.46	18.46	21	3					
15	QPSK	1	0	17.53	17.74	17.60	19	5					
15	QPSK	1	37	17.58	17.56	17.60	19	5					
15	QPSK	1	74	17.61	17.51	17.52	19	5					
15	QPSK	36	0	17.46	17.49	17.33	19	5					
15	QPSK	36	20	17.46	17.46	17.41	19	5					
15	QPSK	36	38	17.54	17.45	17.55	19	5					
15	QPSK	36	0	17.52	17.42	17.29	19	5					
15	QPSK	36	0	17.52	17.42	17.29	19	5					
15	QPSK	1	0	819	831.5	844	19	5					
15	QPSK	1	0	22.24	22.26	22.22	24	0					
15	QPSK	1	37	22.23	22.25	22.24	24	0					
15	QPSK	1	74	22.21	22.24	22.13	24	0					
15	QPSK	36	0	22.21	22.24	22.13	24	0					
15	QPSK	36	20	21.40	21.38	21.38	23	1					
15	QPSK	36	38	21.40	21.41	21.32	23	1					
15	QPSK	36	0	21.20	21.21	21.20	23	1					
15	QPSK	36	20	21.20	21.32	21.15	23	1					
15	QPSK	36	0	21.40	21.42	21.27	23	1					
15	QPSK	36	20	21.24	21.43	21.32	23	1					
15	QPSK	36	38	21.26	21.29	21.48	23	1					
15	QPSK	36	0	20.45	20.46	20.32	22	2					
15	QPSK	36	20	20.34	20.27	20.43	22	2					
15	QPSK	36	38	20.34	20.27	20.43	22	2					
15	QPSK	36	0	20.18	20.40	20.14	22	2					
15	QPSK	36	20	20.18	20.40	20.14	22	2					
15	QPSK	36	38	20.18	20.40	20.14	22	2					
15	QPSK	36	0	19.43	19.43	19.28	21	3					
15	QPSK	36	20	19.39	19.30	19.38	21	3					
15	QPSK	36	38	19.43	19.43	19.28	21	3					
15	QPSK	36	0	19.41	19.42	19.28	21	3					
15	QPSK	36	20	19.41	19.42	19.28	21	3					
15	QPSK	36	38	19.41	19.43	19.28	21	3					
15	QPSK	36	0	18.43	18.43	18.28	20	3					
15	QPSK	36	20	18.43	18.43	18.28	20	3					
15	QPSK	36	38	18.43	18.43	18.28	20	3					
15	QPSK	36	0	18.43	18.43	18.28	20	3					
15	QPSK	36	20	18.43	18.43	18.28	20	3					
15	QPSK	36	38	18.43	18.43	18.28	20	3					
15	QPSK	36	0	18.43	18.43	18.28	20	3					
15	QPSK	36	20	18.43	18.43	18.28	20	3					
15	QPSK	36	38	18.43	18.43	18.28	20	3					
15	QPSK	36	0	18.43	18.43	18.28	20	3					
15	QPSK	36	20	18.43	18.43	18.28	20	3					
15	QPSK	36	38	18.43	18.43	18.28	20	3					
15	QPSK	36	0	18.43	18.43	18.28	20	3					
15	QPSK	36	20	18.43	18.43	18.28	20	3					
15	QPSK	36	38	18.43	18.43	18.28	20	3					
15	QPSK	36	0	18.43	18.43	18.28	20	3					
15	QPSK	36	20	18.43	18.43	18.28	20	3					
15	QPSK	36	38	18.43	18.43	18.28	20	3					
15	QPSK	36	0	18.43	18.43	18.28	20	3					
15	QPSK	36	20	18.43	18.43	18.28	20	3					
15	QPSK	36	38	18.43	18.43	18.28	20	3					
15	QPSK	36	0	18.43	18.43	18.28	20	3					
15	QPSK	36	20	18.43	18.43	18.28	20	3					
15	QPSK	36	38	18.43	18.43	18.28	20	3					
15	QPSK	36	0	18.43	18.43	18.28	20	3					
15	QPSK	36	20	18.43	18.43	18.28	20	3					
15	QPSK	36	38	18.43	18.43	18.28	20	3					
15	QPSK	36	0	18.43	18.43	18.28	20	3					
15	QPSK	36	20	18.43	18.43	18.28	20	3					
15	QPSK	36	38	18.43	18.43	18.28	20	3					
15	QPSK	36	0	18.43	18.43	18.28	20	3					
15	QPSK	36	20	18.43	18.43	18.28	20	3					
15	QPSK	36	38	18.43	18.43	18.28	20	3					
15	QPSK	36	0	18.43	18.43	18.28	20	3					
15	QPSK	36	20	18.43	18.43	18.28	20	3					
15	QPSK	36	38	18.43	18.43	18.28	20	3					
15	QPSK	36	0	18.43	18.43	18.28	20	3					
15	QPSK	36	20	18.43	18.43	18.28	20	3					
15	QPSK	36	38	18.43	18.43	18.28	20	3					
15	QPSK	36	0	18.43	18.43	18.28	20	3					
15	QPSK	36	20	18.43	18.43	18.28	20	3					
15	QPSK	36	38	18.43	18.43	18.28	20	3					
15	QPSK	36	0	18.43	18.43	18.28	20	3					
15	QPSK	36	20	18.43	18.43	18.28	20	3					
15	QPSK	36	38	18.43	18.43	18.28	20	3					
15	QPSK	36	0	18.43	18.43	18.28	20	3					
15	QPSK	36	20	18.43	18.43	18.28	20	3					
15	QPSK	36	38	18.43	18.43	18.28	20	3					
15	QPSK	36	0	18.43	18.43	18.28	20	3					
15	QPSK	36	20	18.43	18.43	18.28	20	3					
15	QPSK	36	38	18.43	18.43	18.28	20	3					
15	QPSK	36	0	18.43	18.43	18.28	20	3					
15	QPSK	36	20	18.43	18.43	18.28	20	3					
15	QPSK	36	38	18.43	18.43	18.28	20	3					
15	QPSK	36	0	18.43	18.43	18.28	20	3					
15	QPSK	36	20	18.43	18.43	18.28	20	3					
15	QPSK	36	38	18.43	18.43	18.28	20	3					
15	QPSK	36	0	18.43	18.43	18.28	20	3					
15	QPSK	36	20	18.43	18.43	18.28	20	3					
15	QPSK	36	38	18.43	18.43	18.28	20	3					
15	QPSK	36	0	18.43	18.43	18.28	20	3					
15	QPSK	36	20	18.43	18.43	18.28	20	3					
15	QPSK	36	38	18.43	18.43	18.28	20	3					
15	QPSK	36	0	18.43	18.43	18.28	20	3					
15	QPSK	36	20	18.43	18.43	18.28	20	3					
15	QPSK	36	38	18.43	18.43	18.28	20	3					
15	QPSK	36	0	18.43	18.43	18.28	20	3					
15	QPSK	36	20	18.43	18.43	18.28	20	3					
15	QPSK	36	38	18.43	18.43	18.28	20	3					
15	QPSK	36	0	18.43	18.43	18.28	20	3					
15	QPSK	36	20	18.43	18.43	18.28	20	3					
15	QPSK	36	38	18.43	18.43	18.28	20	3					
15	QPSK	36	0	18.43	18.43	18.28	20	3					
15	QPSK	36	20	18.43	18.43	18.28	20	3					
15	QPSK	36	38	18.43	18.43	18.28	20	3					
15	QPSK	36	0	18.43	18.43	18.28	20	3					
15	QPSK	36	20	18.43	18.43	18.28	20	3					
15	QPSK	36	38	18.43	18.43	18.28	20	3					
15	QPSK	36	0	18.43	18.43	18.28	20	3					
15	QPSK	36	20	18.43	18.43	18.28	20	3					
15	QPSK	36	38	18.43	18.43	18.28	20	3					
15	QPSK	36	0	18.43	18.43	18.28	20	3					
15	QPSK	36	20	18.43	18.43	18.28	20	3					
15	QPSK	36	38	18.43	18.43	18.28	20	3					
15	QPSK	36	0	18.43	18.43	18.28	20	3					
15	QPSK	36	20	18.43	18.43	18.28	20	3					
15	QPSK	36	38	18.43	18.43	18.28	20	3					
15	QPSK	36	0	18.43	18.43	18.28	20	3					
15	QPSK	36	20	18.43	18.43	18.28	20	3					
15	QPSK	36	38	18.43	18.43	18.28	20	3					
15	QPSK	36	0	18.43	18.43	18.28	20	3					
15	QPSK	36	20	18.43	18.43	18.28	20	3					
15	QPSK	36	38	18.43	18.43	18.28	20	3					
15	QPSK												



Band 38 Ant 1										
RF (MHz)	Modulation	RB Size	RB Offset	Power Leak Ch / Freq	Power Leak Ch / Freq	Power Leak Ch / Freq	Power Leak Ch / Freq	Power Leak Ch / Freq	Time-up (min)	MPR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.83	22.87	22.88			23	0
20	QPSK	1	40	22.15	22.21	22.20				
20	QPSK	1	80	22.16	22.22	22.21				
20	QPSK	50	0	21.22	21.20	21.25			22	1
20	QPSK	50	24	21.25	21.29	21.20				
20	QPSK	50	48	21.10	21.23	21.11				
20	QPSK	100	0	21.18	21.21	21.15				
20	16QAM	1	0	21.28	21.28	21.28			22	1
20	16QAM	1	40	21.23	21.27	21.28				
20	16QAM	1	80	21.27	21.29	21.15				
20	16QAM	50	0	20.37	20.41	20.46			21	2
20	16QAM	50	24	20.38	20.32	20.27				
20	16QAM	100	0	20.27	20.32	20.41				
20	8QAM	1	0	20.37	20.40	20.37			21	2
20	8QAM	1	40	20.26	20.29	20.26				
20	8QAM	1	80	20.29	20.32	20.20				
20	8QAM	50	0	19.15	19.21	19.17			20	3
20	8QAM	50	24	19.28	19.40	19.32				
20	8QAM	100	0	19.20	19.33	19.33				
20	25QAM	1	0	17.85	17.86	17.83			18	5
20	25QAM	1	40	17.27	17.18	17.24				
20	25QAM	1	80	17.02	17.03	17.18				
20	25QAM	50	0	17.11	17.19	17.16				
20	25QAM	50	24	16.85	17.01	17.06				
20	25QAM	100	0	17.05	17.10	17.03				
20	25QAM	100	0	17.02	17.11	16.91				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.29	22.29	22.14			23	0
15	QPSK	1	74	22.67	22.16	22.10				
15	QPSK	36	0	21.12	21.13	21.12			22	1
15	QPSK	36	20	21.12	21.13	21.12				
15	QPSK	36	39	21.05	21.17	21.01				
15	QPSK	36	58	21.14	21.08	21.07				
15	16QAM	1	0	21.17	21.20	21.07			22	1
15	16QAM	1	37	21.18	21.21	21.11				
15	16QAM	1	74	21.18	21.11	21.11				
15	16QAM	36	0	20.30	20.37	20.30			21	2
15	16QAM	36	20	20.33	20.28	20.38				
15	16QAM	36	39	20.14	20.32	20.33				
15	16QAM	79	0	20.24	20.17	20.32				
15	8QAM	1	0	20.25	20.25	20.24			21	2
15	8QAM	1	37	20.21	20.22	20.29				
15	8QAM	1	74	20.16	20.26	20.26				
15	8QAM	36	0	19.12	19.20	19.22			20	3
15	8QAM	36	20	19.05	19.15	19.10				
15	8QAM	36	39	19.17	19.23	19.20				
15	8QAM	79	0	18.17	18.20	18.20				
15	25QAM	1	0	17.25	17.14	17.13			18	5
15	25QAM	1	74	17.25	17.28	17.10				
15	25QAM	36	0	16.81	16.86	16.88			18	5
15	25QAM	36	20	16.86	16.87	16.88				
15	25QAM	36	39	16.89	16.89	16.87				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.21	22.22	22.16			23	0
10	QPSK	1	25	22.08	22.28	22.08				
10	QPSK	12	0	21.11	21.11	21.11			22	1
10	QPSK	12	13	21.08	21.18	21.07				
10	16QAM	1	0	21.09	21.28	21.31			22	1
10	16QAM	1	40	21.18	21.20	21.03				
10	16QAM	25	12	20.11	20.17	20.17			21	2
10	16QAM	25	26	20.11	20.25	20.11				
10	8QAM	1	0	20.29	20.34	20.31			21	2
10	8QAM	1	20	20.17	20.28	20.26				
10	8QAM	1	40	20.11	20.24	20.17				
10	8QAM	25	0	19.19	19.30	19.16			20	3
10	8QAM	25	12	19.05	19.09	19.04				
10	8QAM	25	26	19.24	19.32	19.21				
10	25QAM	1	0	17.22	17.32	17.19			18	5
10	25QAM	1	25	17.23	17.15	17.18				
10	25QAM	12	0	16.82	17.01	16.97			18	5
10	25QAM	12	13	16.81	17.04	16.94				
10	25QAM	25	0	16.89	17.07	16.80				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.21	22.26	22.20			23	0
5	QPSK	1	12	22.12	22.28	22.07				
5	QPSK	1	24	22.10	22.20	22.10				
5	QPSK	12	0	21.11	21.25	21.13			22	1
5	QPSK	12	13	21.08	21.18	21.07				
5	16QAM	1	0	21.22	21.33	21.41			22	1
5	16QAM	1	12	21.14	21.28	21.23				
5	16QAM	1	24	21.02	21.14	21.05				
5	16QAM	12	0	20.34	20.27	20.36			21	2
5	16QAM	12	13	20.11	20.37	20.16				
5	16QAM	25	0	20.20	20.22	20.26			21	2
5	8QAM	1	0	20.30	20.33	20.32				
5	8QAM	1	12	20.23	20.28	20.26				
5	8QAM	1	24	20.23	20.27	20.10				
5	8QAM	12	0	19.27	19.29	19.32			20	3
5	8QAM	12	7	19.19	19.13	19.22				
5	8QAM	12	13	19.16	19.25	19.16				
5	8QAM	25	0	19.25	19.25	19.22			19	13
5	25QAM	1	0	17.28	17.27	17.40			18	5
5	25QAM	1	12	17.11	17.20	17.17				
5	25QAM	1	24	17.20	17.30	17.40				
5	25QAM	12	0	16.89	17.03	17.05			18	5
5	25QAM	12	7	17.02	16.89	17.04				
5	25QAM	12	13	16.94	16.99	17.06				
5	25QAM	25	0	16.98	17.08	16.93				

Band 41 Ant 1										
RF (MHz)	Modulation	RB Size	RB Offset	Power Leak Ch / Freq	Power Leak Ch / Freq	Power Leak Ch / Freq	Power Leak Ch / Freq	Power Leak Ch / Freq	Time-up (min)	MPR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.26	22.27	22.29	22.32	22.28	23	0
20	QPSK	1	40	22.27	22.18	22.32	22.21	22.18		
20	QPSK	50	0	21.29	21.31	21.30	21.28	21.33	22	1
20	QPSK	50	24	21.23	21.29	21.31	21.24	21.17		
20	QPSK	50	48	21.20	21.17	21.32	21.18	21.24		
20	16QAM	1	0	21.26	21.26	21.33	21.20	21.30	22	1
20	16QAM	1	40	21.21	21.28	21.44	21.40	21.39		
20	16QAM	1	80	21.27	21.32	21.31	21.17	21.23		
20	16QAM	50	0	20.33	20.43	20.45	20.36	20.19	21	2
20	16QAM	50	24	20.17	20.28	20.32	20.35	20.19		
20	16QAM	100	0	20.34	20.28	20.45	20.35	20.38		
20	8QAM	1	0	20.31	20.32	20.38	20.12	20.30	21	2
20	8QAM	1	40	20.27	20.43	20.32	20.40	20.39		
20	8QAM	1	80	20.28	20.29	20.32	20.46	20.31		
20	8QAM	50	0	19.24	19.30	19.32	19.21	19.29	20	3
20	8QAM	50	24	19.24	19.21	19.35	19.27	19.24		
20	8QAM	100	0	19.29	19.31	19.42	19.42	19.38		
20	8QAM	100	0	19.29	19.33	19.37	19.49	19.35		
20	25QAM	1	0	17.86	17.42	17.60	17.28	17.43	18	5
20	25QAM	1	40	17.14	17.27	17.25	17.24	17.19		
20	25QAM	1	80	17.33	17.44	17.47	17.27	17.37		
20	25QAM	50	0	17.11	17.19	17.24	17.17	17.12	18	5
20	25QAM	50	24	17.07	17.16	17.21	17.08	17.02		
20	25QAM	100	0	17.08	17.09	17.21	17.11	17.10		
20	25QAM	100	0	17.02	17.10	17.12	16.88	17.04		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.06	22.14	22.05	22.09	22.14	23	0
15	QPSK	1	40	22.03	22.09	22.12	22.11	22.12		
15	QPSK	1	74	21.86	21.77	21.87	21.79	21.88		
15	QPSK	36	0	21.07	21.16	21.19	21.12	21.03	22	1
15	QPSK	36	20	21.07	21.16	21.19	21.12	21.03		
15	QPSK	36	39	21.23	21.04	21.24	21.12	21.20		
15	QPSK	36	58	21.12	21.08	21.24	21.09	21.18		
15	16QAM	1	0	21.22	21.30	21.32	21.09	21.20	22	1
15	16QAM	1	37	21.18	21.21	21.31	21.08	21.19		
15	16QAM	1	74	21.22	21.21	21.10	21.04	21.16		
15	16QAM	36	0	20.19	20.32	20.30	20.40	20.26	21	2
15	16QAM	36	20	20.21	20.18	20.31	20.29	20.31		
15	16QAM	36	39	20.27	20.23	20.40	20.24	20.24		
15	16QAM	79	0	20.16	20.18	20.24	20.20	20.15		
15	8QAM	1	0	20.29	20.27	20.38	20.26	20.31	21	2
15	8QAM	1	37	20.21	20.23	20.29	20.26	20.23		
15	8QAM	1	74	20.16	20.26	20.26	20.26	20.26		
15	8QAM	36	0	19.28	19.24	19.33	19			



Band 48\_FCC Ant 2

RF [MHz]	Modulation	RB Size	RB Offset	Power Level Ch. / Freq.	Power Level Ch. / Freq.	Power Level Ch. / Freq.	Power Level Ch. / Freq.	Tune-up limit (dB)	MPO (dB)
Channel									
Frequency (MHz)				55340	55830	56150	56640		
20	QPSK	1	0	23.31	23.42	23.40	23.30	24	0
20	QPSK	1	49	23.20	23.20	23.24	23.19		
20	QPSK	1	49	23.10	23.32	23.25	23.19		
20	QPSK	50	0	22.23	22.31	22.26	22.28	23	1
20	QPSK	50	44	22.10	22.30	22.20	22.29		
20	QPSK	50	50	22.20	22.27	22.08	22.10		
20	QPSK	100	0	22.24	22.25	22.01	22.11		
20	16QAM	1	0	22.20	22.38	22.13	22.23	23	1
20	16QAM	1	49	22.10	22.34	22.31	22.25		
20	16QAM	1	99	22.20	22.38	22.11	22.24		
20	16QAM	50	0	21.30	21.38	21.42	21.42		
20	16QAM	50	44	21.31	21.23	21.50	21.18	22	2
20	16QAM	50	50	21.20	21.30	21.25	21.18		
20	16QAM	100	0	21.23	21.30	21.05	21.28		
20	64QAM	1	0	21.42	21.35	21.32	21.31		
20	64QAM	1	49	21.30	21.27	21.43	21.54	22	2
20	64QAM	1	99	21.27	21.52	21.25	21.44		
20	64QAM	50	0	20.20	20.35	20.20	20.25		
20	64QAM	50	44	20.24	20.22	20.15	20.10	21	3
20	64QAM	50	50	20.23	20.38	20.29	20.31		
20	64QAM	100	0	20.10	20.30	20.21	20.27		
20	256QAM	1	0	18.18	18.41	18.22	18.37		
20	256QAM	1	49	18.15	18.19	18.25	18.22	19	5
20	256QAM	1	99	18.10	18.38	18.18	18.29		
20	256QAM	50	0	17.67	18.13	18.02	18.05		
20	256QAM	50	44	17.60	18.05	18.05	17.99	19	5
20	256QAM	50	50	18.10	18.28	18.14	18.12		
20	256QAM	100	0	17.67	18.10	17.62	18.01		
Channel									
Frequency (MHz)				3657.5	3698	3742	3692.5		
15	QPSK	1	0	23.11	23.39	23.28	23.20	24	0
15	QPSK	1	47	23.11	23.13	23.20	23.20		
15	QPSK	1	74	23.10	23.20	23.11	23.08		
15	QPSK	36	0	22.10	22.17	22.15	22.14	23	1
15	QPSK	36	30	22.00	22.21	22.14	22.17		
15	QPSK	36	50	22.17	22.23	22.01	22.02		
15	QPSK	18	0	22.20	22.19	21.93	22.07		
15	16QAM	1	0	22.20	22.29	22.02	22.15	23	1
15	16QAM	1	47	22.20	22.20	22.00	22.00		
15	16QAM	1	74	22.24	22.20	22.07	22.13		
15	16QAM	36	0	21.28	21.28	21.37	21.27		
15	16QAM	36	30	21.10	21.17	21.25	21.04	22	2
15	16QAM	36	50	21.24	21.28	21.17	21.09		
15	16QAM	75	0	21.18	21.22	20.94	21.24		
15	64QAM	1	0	21.30	21.22	21.50	21.25		
15	64QAM	1	37	21.24	21.51	21.58	21.42	22	2
15	64QAM	1	74	21.41	21.40	21.17	21.51		
15	64QAM	36	0	20.00	20.20	20.11	20.12		
15	64QAM	36	30	20.10	20.14	20.06	20.04	21	3
15	64QAM	36	50	20.10	20.30	20.17	20.22		
15	64QAM	75	0	20.00	20.22	20.07	20.22		
15	256QAM	1	0	18.15	18.15	18.15	18.15		
15	256QAM	1	37	18.05	18.05	18.15	18.00	19	5
15	256QAM	1	74	18.13	18.25	18.02	18.19		
15	256QAM	36	0	17.85	18.08	17.84	17.88		
15	256QAM	36	30	17.88	17.92	17.69	17.88	19	5
15	256QAM	36	50	18.05	18.16	18.02	18.08		
15	256QAM	75	0	17.91	17.95	17.88	17.94		
Channel									
Frequency (MHz)				5690	5615	5615	5660		
10	QPSK	1	0	23.18	23.36	23.32	23.18	24	0
10	QPSK	1	25	23.11	23.15	23.20	23.11		
10	QPSK	1	42	23.05	23.34	23.17	23.08		
10	QPSK	25	0	22.18	22.28	22.18	22.04	23	1
10	QPSK	25	12	22.14	22.00	22.10	22.10		
10	QPSK	25	25	22.10	22.21	22.10	22.00		
10	QPSK	50	0	22.12	22.11	21.86	21.97		
10	16QAM	1	0	22.18	22.31	22.08	22.28	23	1
10	16QAM	1	26	22.00	22.22	22.21	22.12		
10	16QAM	1	49	22.17	22.21	22.02	22.13		
10	16QAM	25	0	21.30	21.28	21.50	21.31	22	2
10	16QAM	25	12	21.22	21.20	21.27	21.04		
10	16QAM	25	26	21.18	21.20	21.14	21.12		
10	16QAM	50	0	21.15	21.28	20.51	21.21		
10	64QAM	1	0	21.30	21.23	21.24	21.27	22	2
10	64QAM	1	26	21.25	21.47	21.24	21.48		
10	64QAM	1	49	21.18	21.49	21.18	21.35		
10	64QAM	25	0	20.10	20.20	20.00	20.08		
10	64QAM	25	12	20.17	20.07	20.14	19.98	21	3
10	64QAM	25	26	20.12	20.32	20.25	20.18		
10	64QAM	50	0	20.00	20.20	20.08	20.22		
10	256QAM	1	0	18.00	18.38	18.09	18.12	19	5
10	256QAM	1	26	18.03	18.16	18.19	18.18		
10	256QAM	1	49	18.00	18.33	18.05	18.18		
10	256QAM	25	0	17.91	18.04	17.87	17.97		
10	256QAM	25	12	17.80	17.99	17.82	17.88	19	5
10	256QAM	25	26	17.90	18.23	18.10	18.05		
10	256QAM	50	0	17.92	18.06	17.88	17.88		
Channel									
Frequency (MHz)				3692.5	3697	3743	3697.5		
5	QPSK	1	0	23.21	23.28	23.35	23.17	24	0
5	QPSK	1	12	23.15	23.11	23.10	23.15		
5	QPSK	1	24	23.00	23.23	23.12	23.05		
5	QPSK	12	0	22.00	22.19	22.20	22.08	23	1
5	QPSK	12	7	22.05	22.30	22.12	22.10		
5	QPSK	12	13	22.15	22.16	22.04	21.97		
5	QPSK	25	0	22.14	22.30	21.60	22.02		
5	16QAM	1	0	22.18	22.32	22.03	22.28	23	1
5	16QAM	1	12	22.03	22.28	22.21	22.12		
5	16QAM	1	24	22.17	22.23	21.69	22.17		
5	16QAM	12	0	21.20	21.34	21.27	21.36	22	2
5	16QAM	12	7	21.20	21.20	21.17	21.04		
5	16QAM	12	13	21.14	21.24	21.10	21.12		
5	16QAM	25	0	21.16	21.21	21.00	21.17		
5	64QAM	1	0	21.30	21.20	21.25	21.23	22	2
5	64QAM	1	12	21.25	21.54	21.40	21.48		
5	64QAM	1	24	21.25	21.39	21.12	21.34		
5	64QAM	12	0	20.12	20.28	20.15	20.18		
5	64QAM	12	7	20.10	20.00	20.11	20.03	21	3
5	64QAM	12	13	20.00	20.11	20.23	20.18		
5	64QAM	25	0	20.00	20.28	20.14	20.12		
5	256QAM	1	0	18.13	18.28	18.12	18.31	19	5
5	256QAM	1	12	18.11	18.09	18.19	18.18		
5	256QAM	1	24	18.07	18.34	18.09	18.19		
5	256QAM	12	0	17.80	18.00	17.80	17.80		
5	256QAM	12	7	17.85	17.92	17.81	17.80	19	5
5	256QAM	12	13	17.88	18.23	18.00	17.99		
5	256QAM	25	0	17.88	18.00	17.88	17.88		



Reduced Power Mode for DS12

DS120 Ant	Start Average Power (dBm)			Turn-up	Frame-Average Power (dBm)			Turn-up
TV Channel	824	864	868	Limit (dBm)	842	884	888	Limit (dBm)
DS120 TV start	22.61	22.76	22.88	33.00	23.04	23.70	23.88	24.50
OPNR 1 TV start	22.57	22.72	22.85	33.00	23.07	23.72	23.88	24.50
OPNR 2 TV start	22.59	22.75	22.85	31.00	24.00	24.15	24.25	25.00
OPNR 3 TV start	22.60	22.67	22.79	32.00	24.30	24.45	24.55	25.00
OPNR 4 TV start	22.62	22.74	22.84	28.00	24.05	24.14	24.24	25.00
EDGE 1 TV start	22.60	22.66	22.74	27.00	24.06	24.08	24.10	25.00
EDGE 2 TV start	22.59	22.73	22.80	26.00	23.05	23.13	23.20	23.00
EDGE 3 TV start	22.54	22.62	22.73	24.00	23.00	23.10	23.07	23.24
EDGE 4 TV start	22.52	22.74	22.87	23.00	23.02	23.14	23.07	23.00

DS1200 Ant	Start Average Power (dBm)			Turn-up	Frame-Average Power (dBm)			Turn-up
TV Channel	812	861	810	Limit (dBm)	812	861	810	Limit (dBm)
DS1200 TV start	19.00	19.00	19.00	30.00	19.00	19.00	19.00	30.00
OPNR 1 TV start	20.00	20.75	20.72	30.00	20.85	20.75	20.72	31.00
OPNR 2 TV start	20.00	20.75	20.72	30.00	20.85	20.75	20.72	31.00
OPNR 3 TV start	20.00	20.83	20.74	28.00	20.71	20.83	20.74	29.00
OPNR 4 TV start	20.00	20.35	20.28	26.00	21.01	21.00	21.00	26.24
OPNR 5 TV start	20.00	20.84	20.75	26.00	20.77	20.84	20.75	26.00
EDGE 1 TV start	24.00	24.84	24.72	26.00	18.00	18.84	18.75	17.00
EDGE 2 TV start	21.74	21.86	21.78	25.00	17.76	17.78	17.78	19.00
EDGE 3 TV start	22.50	22.51	22.38	23.00	18.12	18.20	18.12	19.24
EDGE 4 TV start	20.12	20.84	20.72	22.00	17.72	17.84	17.72	19.00

DS12	DS120 F. Power			Turn-up	DS1200 F. Power			Turn-up	DS120 F. Power			Turn-up
TV Channel	8524	8500	8536	Limit (dBm)	1812	1813	1813	Limit (dBm)	4132	4185	4232	Limit (dBm)
TV Channel	9652	9650	9638	34.00	1812	1813	1758	30.00	4537	4457	4458	30.00
Frequency (MHz)	1852.00	1850.00	1807.00	34.00	1812.50	1812.50	1758.00	30.00	4537.00	4457.00	4458.00	30.00
DS120 F. Power	22.50	23.03	22.83	24.00	22.50	23.10	22.96	24.00	23.10	23.10	23.08	24.00
DS1200 F. Power	20.00	20.00	20.00	24.00	20.00	20.00	20.00	24.00	20.00	20.00	20.00	24.00
DS120 F. Power	21.00	22.07	22.00	23.00	21.00	22.12	22.01	23.00	22.00	22.16	22.21	23.00
DS1200 F. Power	21.00	21.00	21.00	24.00	21.00	21.00	21.00	24.00	21.00	21.00	21.00	24.00
DS120 F. Power	21.40	21.84	21.82	22.00	21.40	21.50	21.50	22.00	21.50	21.80	21.78	22.00
DS1200 F. Power	21.40	21.81	21.58	22.00	21.42	21.84	21.58	22.00	21.58	21.71	21.70	22.00
DS120 F. Power	22.00	22.00	21.00	23.00	22.00	21.00	22.00	23.00	22.00	22.00	22.00	23.00
DS1200 F. Power	21.50	21.57	22.32	23.00	21.50	21.57	22.00	23.00	21.54	22.14	22.21	23.00
DS120 F. Power	21.24	21.40	21.35	22.00	21.31	21.44	21.39	22.00	21.52	21.66	21.56	22.00
DS1200 F. Power	21.24	21.52	21.48	22.00	21.45	21.65	21.41	22.00	21.52	21.76	21.60	22.00
DS120 F. Power	22.00	22.00	22.00	23.00	22.00	22.00	22.00	23.00	22.00	22.00	22.00	23.00
DS1200 F. Power	20.00	20.22	20.04	21.00	20.13	20.10	20.11	21.00	20.38	20.24	20.23	21.00
DS120 F. Power	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00
DS1200 F. Power	19.00	20.00	20.17	21.00	19.00	20.10	20.18	21.00	20.00	20.32	20.30	21.00
DS120 F. Power	21.00	21.00	21.89	23.00	21.07	22.11	21.03	23.00	22.14	22.17	22.00	23.00



Band 2 Ant0 DS12										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power Ch./Freq.	Power Ch./Freq.	Power Ch./Freq.	Turn-up Time (ms)	MFR (dB)	
Channel										
Frequency (MHz)				1880	1880	1900				
20	QPSK	1	0	22.40	22.40	22.53				
20	QPSK	1	48	22.40	22.40	22.53				
20	QPSK	1	96	22.40	22.40	22.53				24
20	QPSK	1	144	22.40	22.40	22.53				
20	QPSK	50	24	21.62	21.70	21.65				23
20	QPSK	50	50	21.62	21.68	21.64				
20	QPSK	50	75	21.62	21.68	21.64				
20	QPSK	50	100	21.62	21.70	21.65				
20	HQAM	1	0	21.65	21.71	21.71				
20	HQAM	1	48	21.65	21.70	21.70				23
20	HQAM	1	96	21.65	21.71	21.71				
20	HQAM	1	144	21.65	21.71	21.65				
20	HQAM	50	0	20.73	20.81	20.75				
20	HQAM	50	24	20.73	20.77	20.81				22
20	HQAM	50	50	20.73	20.77	20.81				
20	HQAM	50	75	20.73	20.77	20.81				
20	HQAM	50	100	20.73	20.79	20.82				
20	HQAM	100	0	20.73	20.79	20.82				
20	HQAM	100	48	20.73	20.79	20.82				22
20	HQAM	100	96	20.73	20.79	20.82				
20	HQAM	100	144	20.73	20.79	20.82				
20	HQAM	50	24	18.53	18.65	18.68				21
20	HQAM	50	50	18.53	18.67	18.62				
20	HQAM	50	75	18.53	18.67	18.62				
20	HQAM	50	100	18.53	18.67	18.62				
20	ZSSBAM	1	0	17.80	17.90	17.77				19
20	ZSSBAM	1	48	17.88	17.92	17.78				
20	ZSSBAM	1	96	17.88	17.91	17.81				
20	ZSSBAM	1	144	17.88	17.91	17.81				
20	ZSSBAM	50	0	17.84	17.87	17.87				
20	ZSSBAM	50	24	17.84	17.87	17.87				19
20	ZSSBAM	50	50	17.87	17.87	17.87				
20	ZSSBAM	50	75	17.87	17.87	17.87				
20	ZSSBAM	50	100	17.83	17.80	17.84				
Channel										
Frequency (MHz)				1887.5	1880	1900.5				
15	QPSK	1	0	22.40	22.41	22.53				
15	QPSK	1	48	22.40	22.41	22.53				24
15	QPSK	1	96	22.40	22.41	22.53				
15	QPSK	1	144	22.33	22.48	22.60				
15	QPSK	36	0	21.60	21.64	21.42				
15	QPSK	36	24	21.60	21.63	21.42				23
15	QPSK	36	48	21.63	21.60	21.49				
15	QPSK	36	72	21.60	21.62	21.43				
15	HQAM	1	0	21.40	21.52	21.43				
15	HQAM	1	48	21.40	21.54	21.44				23
15	HQAM	1	96	21.46	21.60	21.48				
15	HQAM	1	144	21.46	21.60	21.48				
15	HQAM	36	0	20.62	20.67	20.61				22
15	HQAM	36	24	20.62	20.64	20.59				
15	HQAM	36	48	20.62	20.64	20.59				
15	HQAM	36	72	20.64	20.52	20.58				22
15	HQAM	100	0	20.64	20.68	20.56				
15	HQAM	100	48	20.62	20.68	20.56				22
15	HQAM	100	96	20.62	20.68	20.56				
15	HQAM	100	144	20.58	20.56	20.63				
15	HQAM	36	0	19.55	19.70	19.52				
15	HQAM	36	24	19.57	19.60	19.61				21
15	HQAM	36	48	19.57	19.60	19.53				
15	HQAM	36	72	19.59	19.60	19.46				
15	HQAM	36	96	19.59	19.60	19.46				
15	HQAM	75	0	17.78	17.78	17.48				19
15	HQAM	75	24	17.78	17.78	17.48				
15	HQAM	75	48	17.78	17.78	17.48				
15	HQAM	75	72	17.78	17.78	17.48				
15	HQAM	75	96	17.48	17.52	17.52				19
15	HQAM	75	120	17.48	17.48	17.43				
15	HQAM	75	144	17.48	17.52	17.43				
15	HQAM	75	168	17.48	17.52	17.43				
Channel										
Frequency (MHz)				1889.5	1890	1910				
10	QPSK	1	0	22.45	22.58	22.53				
10	QPSK	1	24	22.40	22.47	22.51				24
10	QPSK	1	48	22.40	22.48	22.53				
10	QPSK	25	0	21.58	21.64	21.62				
10	QPSK	25	12	21.55	21.63	21.44				23
10	QPSK	25	24	21.58	21.58	21.44				
10	QPSK	25	36	21.47	21.48	21.43				
10	HQAM	1	0	21.61	21.66	21.43				
10	HQAM	1	48	21.59	21.66	21.44				23
10	HQAM	1	96	21.58	21.52	21.47				
10	HQAM	1	144	21.58	21.52	21.47				
10	HQAM	25	0	20.63	20.68	20.56				22
10	HQAM	25	12	20.63	20.68	20.56				
10	HQAM	25	24	20.68	20.67	20.59				
10	HQAM	25	36	20.68	20.68	20.59				
10	HQAM	25	48	20.60	20.68	20.56				22
10	HQAM	25	60	20.71	20.64	20.77				
10	HQAM	25	72	20.67	20.68	20.61				
10	HQAM	25	84	20.67	20.68	20.61				
10	HQAM	25	96	20.60	20.68	20.56				
10	HQAM	25	108	20.60	20.68	20.56				
10	HQAM	25	120	20.60	20.68	20.56				
10	HQAM	25	132	20.60	20.68	20.56				
10	HQAM	25	144	20.60	20.68	20.56				
10	HQAM	25	156	20.60	20.68	20.56				
10	HQAM	25	168	20.60	20.68	20.56				
10	HQAM	25	180	20.60	20.68	20.56				
10	HQAM	25	192	20.60	20.68	20.56				
10	HQAM	25	204	20.60	20.68	20.56				
10	HQAM	25	216	20.60	20.68	20.56				
10	HQAM	25	228	20.60	20.68	20.56				
10	HQAM	25	240	20.60	20.68	20.56				
10	HQAM	25	252	20.60	20.68	20.56				
10	HQAM	25	264	20.60	20.68	20.56				
10	HQAM	25	276	20.60	20.68	20.56				
10	HQAM	25	288	20.60	20.68	20.56				
10	HQAM	25	300	20.60	20.68	20.56				
10	HQAM	25	312	20.60	20.68	20.56				
10	HQAM	25	324	20.60	20.68	20.56				
10	HQAM	25	336	20.60	20.68	20.56				
10	HQAM	25	348	20.60	20.68	20.56				
10	HQAM	25	360	20.60	20.68	20.56				
10	HQAM	25	372	20.60	20.68	20.56				
10	HQAM	25	384	20.60	20.68	20.56				
10	HQAM	25	396	20.60	20.68	20.56				
10	HQAM	25	408	20.60	20.68	20.56				
10	HQAM	25	420	20.60	20.68	20.56				
10	HQAM	25	432	20.60	20.68	20.56				
10	HQAM	25	444	20.60	20.68	20.56				
10	HQAM	25	456	20.60	20.68	20.56				
10	HQAM	25	468	20.60	20.68	20.56				
10	HQAM	25	480	20.60	20.68	20.56				
10	HQAM	25	492	20.60	20.68	20.56				
10	HQAM	25	504	20.60	20.68	20.56				
10	HQAM	25	516	20.60	20.68	20.56				
10	HQAM	25	528	20.60	20.68	20.56				
10	HQAM	25	540	20.60	20.68	20.56				
10	HQAM	25	552	20.60	20.68	20.56				
10	HQAM	25	564	20.60	20.68	20.56				
10	HQAM	25	576	20.60	20.68	20.56				
10	HQAM	25	588	20.60	20.68	20.56				
10	HQAM	25	600	20.60	20.68	20.56				
10	HQAM	25	612	20.60	20.68	20.56				
10	HQAM	25	624	20.60	20.68	20.56				
10	HQAM	25	636	20.60	20.68	20.56				
10	HQAM	25	648	20.60	20.68	20.56				
10	HQAM	25	660	20.60	20.68	20.56				
10	HQAM	25	672	20.60	20.68	20.56				
10	HQAM	25	684	20.60	20.68	20.56				
10	HQAM	25	696	20.60	20.68	20.56				
10	HQAM	25	708	20.60	20.68	20.56				
10	HQAM	25	720	20.60	20.68	20.56				
10	HQAM	25	732	20.60	20.68	20.56				
10	HQAM	25	744	20.60	20.68	20.56				
10	HQAM	25	756	20.60	20.68	20.56				
10	HQAM	25	768	20.60	20.68	20.56				
10	HQAM	25	780	20.60	20.68	20.56				
10	HQAM	25	792	20.60	20.68	20.56				
10	HQAM	25	804	20.60	20.68	20.56				
10	HQAM	25	816	20.60	20.68	20.56				
10	HQAM	25	828	20.60	20.68	20.56				
10	HQAM	25	840	20.60	20.68	2				



Band 12 Ant0 DSI2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Tune-up (MHz)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.44	22.78	22.83				
10	QPSK	1	25	22.54	22.54	22.82			24	0
10	QPSK	1	40	22.61	22.70	22.59				
10	QPSK	8	0	22.61	22.70	22.59				
10	QPSK	25	12	21.68	21.70	21.55			23	1
10	QPSK	25	25	21.68	21.64	21.83				
10	QPSK	50	0	21.62	21.65	21.74				
10	HQAM	1	0	21.71	21.88	21.83				
10	HQAM	1	25	21.54	21.71	21.67			23	1
10	HQAM	1	40	21.73	21.70	21.52				
10	HQAM	25	0	20.71	20.84	20.86				
10	HQAM	12	0	20.72	20.85	20.70			22	2
10	HQAM	25	25	20.59	20.72	20.70				
10	HQAM	50	0	20.60	20.75	20.82				
10	HQAM	1	0	20.66	20.86	20.85				
10	HQAM	1	25	20.52	20.50	20.51			22	2
10	HQAM	1	40	20.71	20.89	20.85				
10	HQAM	25	0	19.25	19.17	19.03				
10	HQAM	25	12	19.58	19.63	19.58			21	3
10	HQAM	25	25	19.68	19.61	19.55				
10	HQAM	50	0	19.47	19.61	19.58				
10	SSBQAM	1	0	17.75	17.85	17.73				
10	SSBQAM	1	25	17.84	17.82	17.85			19	5
10	SSBQAM	1	40	17.84	17.84	17.81				
10	SSBQAM	25	0	17.63	17.71	17.85				
10	SSBQAM	12	0	17.63	17.69	17.70			19	5
10	SSBQAM	25	25	17.58	17.75	17.80				
10	SSBQAM	50	0	17.69	17.65	17.71				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.58	22.78	22.53				
5	QPSK	1	12	22.64	22.68	22.50			24	0
5	QPSK	1	24	22.47	22.57	22.49				
5	QPSK	12	0	21.63	21.66	21.51				
5	QPSK	12	7	21.68	21.59	21.49				
5	QPSK	12	13	21.58	21.56	21.50			23	1
5	QPSK	25	0	21.43	21.51	21.47				
5	QPSK	1	0	21.68	21.67	21.68				
5	HQAM	1	12	21.62	21.67	21.42			23	1
5	HQAM	1	24	21.62	21.61	21.42				
5	HQAM	12	0	20.59	20.79	20.72			22	2
5	HQAM	12	7	20.62	20.57	20.65				
5	HQAM	25	0	20.47	20.51	20.59				
5	HQAM	1	0	20.66	20.70	20.45				
5	HQAM	12	0	20.52	20.66	20.67			22	2
5	HQAM	1	24	20.68	20.73	20.62				
5	HQAM	12	0	19.52	19.66	19.49				
5	HQAM	12	7	19.52	19.54	19.49				
5	HQAM	12	13	19.52	19.58	19.47			21	3
5	HQAM	25	0	19.46	19.51	19.45				
5	SSBQAM	1	0	17.75	17.83	17.81				
5	SSBQAM	1	12	17.78	17.83	17.83			19	5
5	SSBQAM	1	24	17.78	17.84	17.75				
5	SSBQAM	12	0	17.51	17.57	17.51				
5	SSBQAM	12	7	17.44	17.51	17.51			19	5
5	SSBQAM	12	13	17.62	17.69	17.60				
5	SSBQAM	25	0	17.52	17.56	17.61				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.54	22.70	22.54				
3	QPSK	1	8	22.49	22.52	22.48			24	0
3	QPSK	1	14	22.63	22.58	22.55				
3	QPSK	8	0	21.67	21.67	21.43				
3	QPSK	8	4	21.57	21.62	21.44			23	1
3	QPSK	8	7	21.60	21.63	21.50				
3	QPSK	16	0	21.43	21.61	21.45				
3	HQAM	1	0	21.67	21.63	21.50			23	1
3	HQAM	1	8	21.60	21.68	21.63				
3	HQAM	1	14	21.61	21.63	21.43				
3	HQAM	8	0	20.68	20.73	20.66				
3	HQAM	8	4	20.60	20.62	20.57			22	2
3	HQAM	8	7	20.50	20.58	20.66				
3	HQAM	16	0	20.64	20.66	20.50				
3	HQAM	1	0	20.69	20.58	20.52				
3	HQAM	1	8	20.70	20.60	20.78			22	2
3	HQAM	1	14	20.60	20.74	20.54				
3	HQAM	8	0	19.54	19.74	19.53				
3	HQAM	8	4	19.46	19.50	19.46			21	3
3	HQAM	8	7	19.50	19.51	19.45				
3	HQAM	16	0	19.38	19.52	19.45				
3	SSBQAM	1	0	17.75	17.81	17.77				
3	SSBQAM	1	8	17.78	17.83	17.82			19	5
3	SSBQAM	1	14	17.79	17.84	17.72				
3	SSBQAM	8	0	17.50	17.64	17.50				
3	SSBQAM	8	4	17.50	17.59	17.50			19	5
3	SSBQAM	8	7	17.57	17.66	17.73				
3	SSBQAM	16	0	17.64	17.54	17.68				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.61	22.73	22.62				
1.4	QPSK	1	3	22.52	22.60	22.58			24	0
1.4	QPSK	1	5	22.47	22.59	22.44				
1.4	QPSK	3	0	22.67	22.71	22.56				
1.4	QPSK	3	1	22.51	22.68	22.59				
1.4	QPSK	3	3	22.62	22.64	22.46			23	1
1.4	HQAM	1	0	21.60	21.61	21.40				
1.4	HQAM	1	0	21.58	21.59	21.47				
1.4	HQAM	1	3	21.61	21.63	21.52				
1.4	HQAM	1	5	21.48	21.55	21.00			23	1
1.4	HQAM	3	0	21.63	21.58	21.51				
1.4	HQAM	3	1	21.60	21.66	21.53				
1.4	HQAM	3	3	21.60	21.63	21.48				
1.4	HQAM	6	0	20.61	20.76	20.71			22	2
1.4	HQAM	1	3	20.61	20.67	20.61				
1.4	HQAM	1	6	20.62	20.71	20.52			22	2
1.4	HQAM	3	0	20.61	20.64	20.48				
1.4	HQAM	3	1	20.60	20.50	20.75				
1.4	HQAM	6	0	20.62	20.74	20.64				
1.4	HQAM	6	0	19.41	19.57	19.48			21	3
1.4	SSBQAM	1	0	17.68	17.83	17.80				
1.4	SSBQAM	1	3	17.70	17.78	17.70				
1.4	SSBQAM	1	5	17.54	17.62	17.74			19	5
1.4	SSBQAM	3	0	17.51	17.67	17.51				
1.4	SSBQAM	3	1	17.41	17.69	17.43				
1.4	SSBQAM	3	3	17.59	17.68	17.68				
1.4	SSBQAM	6	0	17.60	17.54	17.57			19	5

Band 13 Ant0 DSI2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Tune-up (MHz)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.97	22.97	22.97				
10	QPSK	1	49	22.85	22.85	22.85			24	0
10	QPSK	35	12	21.82	21.82	21.82				
10	QPSK	25	12	21.86	21.86	21.86			23	1
10	QPSK	25	25	21.81	21.81	21.81				
10	QPSK	50	0	21.82	21.82	21.82				
10	HQAM	1	0	21.79	21.79	21.79				
10	HQAM	1	25	21.82	21.82	21.82			23	1
10	HQAM	1	49	21.80	21.80	21.80				
10	HQAM	25	0	20.77	20.77	20.77				
10	HQAM	12	0	20.79	20.79	20.79			22	2
10	HQAM	25	25	20.68	20.68	20.68				
10	HQAM	50	0	20.68	20.68	20.68				
10	HQAM	1	0	20.65	20.65	20.65				
10	HQAM	1	25	21.10	21.10	21.10			22	2
10	HQAM	1	49	20.90	20.90	20.90				
10	HQAM	25	0	19.92	19.92	19.92				
10	HQAM	25	12	19.71						



Band 26 Ant0 DS12										
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)				831.5	831.5	841.5				
15	QPSK	1	0	22.68	22.68	22.72			24	0
15	QPSK	1	74	22.68	22.73	22.82				
15	QPSK	3	0	21.65	21.65	21.72				
15	QPSK	3	20	21.69	21.70	21.48			23	1
15	QPSK	3	30	21.65	21.69	21.59				
15	QPSK	3	0	20.98	20.98	21.08				
15	HQAM	1	0	21.87	21.84	21.85			23	1
15	HQAM	1	37	21.55	21.60	21.60				
15	HQAM	1	74	20.98	20.98	21.08				
15	HQAM	3	0	20.81	20.81	20.78				
15	HQAM	3	20	20.72	20.87	20.85			22	2
15	HQAM	3	30	20.84	20.75	20.87				
15	HQAM	3	0	19.62	19.67	19.73				
15	HQAM	3	37	19.83	19.59	19.59			22	2
15	HQAM	3	74	20.77	20.77	20.81				
15	HQAM	3	0	19.62	19.67	19.73				
15	HQAM	3	20	19.54	19.61	19.55			21	3
15	HQAM	3	30	19.57	19.63	19.54				
15	HQAM	3	0	18.67	18.83	18.74				
15	HQAM	3	0	17.77	17.83	17.77				
15	SSBAM	1	0	17.78	17.75	17.88			19	5
15	SSBAM	1	74	17.50	18.04	17.81				
15	SSBAM	3	0	17.68	17.75	17.57				
15	SSBAM	3	20	17.55	17.61	17.55				
15	SSBAM	3	30	17.57	17.59	17.64			19	5
15	SSBAM	3	0	17.50	17.74	17.80				
Channel										
Frequency (MHz)				819	831.5	844				
15	QPSK	1	0	22.62	22.62	22.77			24	0
15	QPSK	1	36	22.62	22.64	22.81				
15	QPSK	1	40	22.57	22.62	22.57				
15	QPSK	25	0	21.63	21.75	21.58				
15	QPSK	12	0	21.67	21.67	21.48			23	1
15	QPSK	25	20	21.59	21.61	21.52				
15	QPSK	50	0	21.63	21.67	21.41				
15	QPSK	1	0	21.67	21.63	21.48				
15	HQAM	1	25	21.48	21.48	21.51			23	1
15	HQAM	1	0	21.57	21.52	21.52				
15	HQAM	25	0	20.71	20.70	20.71				
15	HQAM	25	12	20.48	20.53	20.80			22	2
15	HQAM	25	0	20.59	20.59	20.72				
15	HQAM	25	0	20.59	20.52	20.51				
15	HQAM	1	0	20.82	20.75	20.87				
15	HQAM	25	0	20.59	20.59	20.83			22	2
15	HQAM	1	40	20.70	20.72	20.87				
15	HQAM	25	0	19.57	19.60	19.66				
15	HQAM	12	0	19.48	19.58	19.41			21	3
15	HQAM	25	25	19.47	19.56	19.40				
15	HQAM	50	0	19.35	19.66	19.45				
15	HQAM	1	0	17.73	17.73	17.73			19	5
15	SSBAM	1	25	17.75	17.89	17.75				
15	SSBAM	25	0	17.53	17.65	17.48				
15	SSBAM	25	12	17.55	17.70	17.51			19	5
15	SSBAM	25	0	17.41	17.68	17.68				
15	SSBAM	50	0	17.40	17.68	17.48				
Channel										
Frequency (MHz)				2676	2686	2705				
5	QPSK	1	0	22.57	22.70	22.73			24	0
5	QPSK	1	12	22.55	22.66	22.71				
5	QPSK	1	24	22.54	22.64	22.74				
5	QPSK	12	0	21.61	21.74	21.59				
5	QPSK	12	7	21.63	21.61	21.40			23	1
5	QPSK	12	13	21.67	21.61	21.56				
5	QPSK	25	0	21.62	21.65	21.44				
5	HQAM	1	0	21.30	21.52	21.50			23	1
5	HQAM	1	12	21.48	21.48	21.48				
5	HQAM	1	24	21.50	21.59	21.48				
5	HQAM	12	0	20.71	20.71	20.72				
5	HQAM	12	7	20.43	20.50	20.66			22	2
5	HQAM	12	13	20.68	20.83	20.59				
5	HQAM	12	0	20.63	20.61	20.65				
5	HQAM	1	0	20.52	20.72	20.59				
5	HQAM	1	12	20.75	20.52	20.59			22	2
5	HQAM	1	24	20.64	20.70	20.77				
5	HQAM	12	0	19.54	19.81	19.56			21	3
5	HQAM	12	7	19.48	19.43	19.44				
5	HQAM	12	13	19.41	19.45	19.45				
5	HQAM	25	0	19.41	19.62	19.47				
5	SSBAM	1	0	17.75	17.71	17.73			19	5
5	SSBAM	1	24	17.68	17.68	17.77				
5	SSBAM	12	0	17.53	17.65	17.48				
5	SSBAM	12	7	17.53	17.62	17.48				
5	SSBAM	12	13	17.53	17.70	17.56			19	5
5	SSBAM	25	0	17.41	17.68	17.52				
Channel										
Frequency (MHz)				2676	2686	2705				
5	QPSK	1	0	22.62	22.74	22.75			24	0
5	QPSK	1	8	22.65	22.61	22.76				
5	QPSK	1	14	22.55	22.68	22.48				
5	QPSK	3	0	21.61	21.74	21.58				
5	QPSK	3	4	21.60	21.56	21.37			23	1
5	QPSK	3	8	21.50	21.57	21.44				
5	HQAM	1	0	21.52	21.69	21.45				
5	HQAM	1	0	21.60	21.51	21.49			23	1
5	HQAM	1	8	21.59	21.59	21.59				
5	HQAM	1	14	21.62	21.70	21.48				
5	HQAM	8	0	20.74	20.71	20.85				
5	HQAM	8	4	20.63	20.66	20.80				
5	HQAM	8	7	20.63	20.82	20.57			22	2
5	HQAM	15	0	20.50	20.63	20.63				
5	HQAM	1	0	20.54	20.73	20.55				
5	HQAM	1	8	20.73	20.94	20.95			22	2
5	HQAM	1	16	20.71	20.71	20.73				
5	HQAM	15	0	19.60	19.69	19.65				
5	HQAM	3	0	19.43	19.42	19.44			21	3
5	HQAM	3	6	19.46	19.58	19.46				
5	HQAM	15	0	19.31	19.52	19.44				
5	SSBAM	1	0	17.64	17.63	17.68			19	5
5	SSBAM	1	8	17.68	17.68	17.80				
5	SSBAM	1	14	17.58	17.50	17.75				
5	SSBAM	8	0	17.63	17.64	17.47				
5	SSBAM	8	4	17.60	17.72	17.43				
5	SSBAM	8	7	17.53	17.70	17.52				
5	SSBAM	15	0	17.40	17.64	17.52			19	5
Channel										
Frequency (MHz)				814.7	831.5	848.3				
1.4	QPSK	1	0	22.62	22.78	22.96			24	0
1.4	QPSK	1	3	22.61	22.83	22.73				
1.4	QPSK	1	5	22.65	22.80	22.58				
1.4	QPSK	3	0	22.62	22.76	22.68				
1.4	QPSK	3	1	22.51	22.60	22.72				
1.4	QPSK	3	3	22.51	22.65	22.49			23	1
1.4	HQAM	1	0	21.63	21.66	21.35				
1.4	HQAM	1	3	21.58	21.64	21.49			23	1
1.4	HQAM	3	0	21.52	21.59	21.48				
1.4	HQAM	3	1	21.45	21.52	21.55				
1.4	HQAM	3	0	20.74	20.72	20.68			22	2
1.4	HQAM	1	0	20.49	20.57	20.68				
1.4	HQAM	3	0	20.68	20.83	20.56				
1.4	HQAM	1	5	20.59	20.66	20.52			22	2
1.4	HQAM	3	0	20.53	20.60	20.56				
1.4	HQAM	3	1	20.73	20.73	20.81			21	3
1.4	SSBAM	1	0	17.72	17.80	17.65				
1.4	SSBAM	1	3	17.65	17.63	17.79			19	5
1.4	SSBAM	3	0	17.50						



Band 38 Ant0 DS12												
RF (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Time-up (ms)	MPR (dB)		
Channel												
Frequency (MHz)												
37850	38000	38150										
20	QPSK	1	0	23.21	23.20	23.27					24	0
20	QPSK	1	40	23.11	23.20	23.24						
20	QPSK	1	80	23.15	23.24	23.18						
20	QPSK	50	0	22.21	22.20	22.13						
20	QPSK	50	24	22.15	22.16	22.18						
20	QPSK	50	48	22.14	22.13	21.98					23	1
20	QPSK	100	0	22.04	22.03	22.04						
20	16QAM	1	0	22.06	22.05	22.06						
20	16QAM	1	40	21.93	22.14	22.07					23	1
20	16QAM	1	80	22.11	22.12	22.05						
20	16QAM	50	0	21.91	21.92	21.98						
20	16QAM	50	24	21.98	21.95	21.98					22	2
20	16QAM	100	0	21.12	21.18	21.48						
20	8QAM	1	0	21.28	21.31	21.19						
20	8QAM	1	40	21.32	21.47	21.37						
20	8QAM	1	80	21.18	21.18	21.23						
20	8QAM	50	0	22.06	22.04	22.06						
20	8QAM	50	24	22.04	22.01	21.99					21	3
20	8QAM	50	48	22.02	22.07	21.99						
20	8QAM	100	0	20.00	20.18	20.08						
20	25QAM	1	0	18.19	18.26	18.21						
20	25QAM	1	40	18.18	18.24	18.25						
20	25QAM	1	80	18.07	18.07	18.29						
20	25QAM	50	0	18.13	18.17	17.98						
20	25QAM	50	24	18.05	18.22	18.20						
20	25QAM	50	48	18.12	18.26	18.16						
20	25QAM	100	0	17.95	18.21	18.08						
Channel												
Frequency (MHz)												
37850	38000	38150										
15	QPSK	1	0	23.10	23.09	23.13					24	0
15	QPSK	1	40	23.06	23.14	23.16						
15	QPSK	1	80	23.08	23.10	23.07						
15	QPSK	50	0	22.15	22.16	22.18						
15	QPSK	50	24	22.19	22.08	22.12					23	1
15	QPSK	50	48	22.05	21.99	21.91						
15	QPSK	100	0	22.02	22.01	22.00						
15	16QAM	1	0	22.00	22.11	21.99					23	1
15	16QAM	1	40	22.04	21.98	21.98						
15	16QAM	1	80	21.09	21.10	21.12						
15	16QAM	50	0	21.09	21.08	21.11						
15	16QAM	50	24	21.08	21.08	21.13					22	2
15	16QAM	50	48	21.08	21.22	21.05						
15	16QAM	100	0	21.03	21.06	21.04						
15	8QAM	1	0	21.19	21.18	21.17						
15	8QAM	1	40	21.18	21.29	21.29						
15	8QAM	1	80	21.24	21.28	21.25					22	2
15	8QAM	50	0	21.05	21.04	21.10						
15	8QAM	50	24	20.94	20.99	20.99					21	3
15	8QAM	50	48	20.95	20.91	20.21						
15	8QAM	100	0	19.99	19.98	19.99						
15	25QAM	1	0	18.21	18.21	18.20						
15	25QAM	1	40	18.26	18.37	18.21					19	5
15	25QAM	1	80	18.15	18.18	18.29						
15	25QAM	50	0	18.05	17.98	18.27						
15	25QAM	50	24	18.06	18.12	18.17					19	5
15	25QAM	50	48	18.09	18.05	18.23						
15	25QAM	100	0	18.18	18.02	18.23						
Channel												
Frequency (MHz)												
37900	40100	40600	41000	41400	41800							
10	QPSK	1	0	23.12	23.23	23.23	23.14	23.20			24.00	0
10	QPSK	1	40	23.12	23.10	23.15	23.23	23.20				
10	QPSK	1	80	23.10	23.13	23.15	23.24	23.07				
10	QPSK	25	0	22.15	22.24	22.25	22.05	22.05				
10	QPSK	25	12	22.06	22.18	22.29	22.21	22.18			23	1
10	QPSK	50	0	22.04	22.18	22.28	22.07	21.90				
10	QPSK	50	24	21.89	22.09	22.24	22.11	21.96				
10	16QAM	1	0	21.81	21.88	22.10	22.00	22.07			23	1
10	16QAM	1	40	22.08	22.12	22.14	22.06	22.07				
10	16QAM	1	80	21.07	21.21	21.18	21.99	21.12				
10	16QAM	25	12	21.02	21.12	21.25	21.07	21.08			22	2
10	16QAM	25	36	21.13	21.24	21.90	21.19	21.13				
10	16QAM	50	0	21.02	21.02	21.21	21.09	21.12				
10	8QAM	1	0	21.19	21.32	21.27	21.19	21.24			22	2
10	8QAM	1	40	21.03	21.13	21.18	21.18	21.09				
10	8QAM	1	80	20.10	20.21	20.17	20.11	20.17			21	3
10	8QAM	25	0	19.91	20.02	20.13	20.01	19.90				
10	8QAM	25	12	19.99	20.02	20.01	19.97	19.94				
10	8QAM	50	0	20.00	20.10	20.23	20.06	20.04				
10	25QAM	1	0	18.14	18.18	18.20	18.24	18.04				
10	25QAM	1	40	18.11	18.24	18.23	18.33	18.24			19	5
10	25QAM	1	80	18.07	18.07	18.07	18.34	18.30				
10	25QAM	25	0	18.08	18.21	18.13	18.05	18.11				
10	25QAM	25	12	18.06	18.02	18.02	18.15	18.05			19	5
10	25QAM	25	36	18.09	18.15	18.12	18.13	18.05				
10	25QAM	50	0	18.18	18.02	18.23	18.10	17.96				
Channel												
Frequency (MHz)												
38050	38100	38150	38200	38250	38300							
5	QPSK	1	0	23.09	23.26	23.17					24.00	0
5	QPSK	1	12	23.09	23.17	23.16						
5	QPSK	1	24	23.00	23.11	23.08						
5	QPSK	12	0	22.10	22.18	22.21						
5	QPSK	12	12	22.10	22.05	22.05					23	1
5	16QAM	1	0	21.81	22.08	21.91						
5	16QAM	1	12	21.80	22.08	22.03					23	1
5	16QAM	1	24	22.05	22.06	21.91						
5	16QAM	12	0	21.18	21.14	21.18						
5	16QAM	12	12	21.04	21.14	21.07					22	2
5	16QAM	25	0	20.99	21.04	20.94						
5	8QAM	1	0	21.24	21.23	21.07						
5	8QAM	1	12	21.25	21.43	21.25					22	2
5	8QAM	1	24	21.08	21.03	21.14						
5	8QAM	25	0	20.01	20.00	20.07						
5	8QAM	25	12	19.98	19.86	19.86					21	3
5	8QAM	50	0	19.99	20.00	19.92						
5	8QAM	25	0	19.96	20.04	19.99						
5	25QAM	1	0	18.12	18.16	18.13						
5	25QAM	1	12	18.12	18.02	18.13					19	5
5	25QAM	1	24	18.01	18.00	18.19						
5	25QAM	12	0	17.99	18.11	17.95						
5	25QAM	12	12	18.05	18.15	18.02					19	5
5	25QAM	12	24	17.99	18.14	18.12						
5	25QAM	25	0	17.81	18.16	17.94						

Band 41 Ant0 DS12												
RF (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Time-up (ms)	MPR (dB)		
Channel												
Frequency (MHz)												
39700	40100	40600	41000	41400								
20	QPSK	1	0	23.18	23.30	23.35	23.34	23.23			24	0
20	QPSK	1	40	23.18	23.23	23.28	23.30	23.10				
20	QPSK	1	80	23.10	23.24	23.34	23.16	23.18				
20	QPSK	50	0	22.21	22.28	22.38	22.19	22.18				
20	QPSK	50	24	22.15	22.24	22.36	22.18	22.18			23	1
20	QPSK	50	48	22.17	22.23	22.24	22.08	22.20				
20	16QAM	1	0	22.01	22.10	22.28	22.19	22.05				
20	16QAM	1	40	22.02	22.13	22.26	22.15	21.90			23	1
20	16QAM	1	80	22.03	22.03	22.21	22.19	22.00				
20	16QAM	50	0	21.91	21.91	21.91	21.95	21.90				
20	16QAM	50	24	21.18	21.24	21.28	21.21	21.18			22	2
20	16QAM	100	0	21.17	21.27	21.25	21.21	21.13				
20	8QAM	1	0	21.20	21.38	21.39	21.25	21.33				
20	8QAM	1	40	21.32	21.42	21.39	21.29	21.37				
20	8QAM	1	80	21.15	21.25	21.30	21.28	21.21				
20	8QAM	50	0	22.02	22.12	22.22	22.11	22.07				
20	8QAM	50	24	22.05	22.07	22.05	22.05	21.97			21	3
20	8QAM	50	48	22.03	22.09	20.13	20.07	19.99				
20	8QAM	100	0	20.07	20.15	20.28	20.00	20.00				
20	25QAM	1	0	18.17	18.30	18.41	18.31	18.18				
20	25QAM	1	40	18.25	18.32	18.34	18.41	18.38			19	5
20	25QAM	1	80	18.35	18.34	18.32	18.41	18.37				
20	25QAM	50	0	18.21	18.29	18.25	18.13	18.17				
20	25QAM	50	24	18.02	18.10	18.21	18.15	18.15			19	5
20	25QAM	50	48	18.11	18.19	18.22	18.23	18.12</				





DS2									
GSMSD Ant	Band A (Tx Power) (dBm)			Front-Average Power (dBm)			Tone-up		
TX Channel	198	199	201	Limit	198	199	201	Limit	dBm
Frequency (MHz)	1824	1824	1824	(GHz)	830.2	830.4	830.6		
OSM 1 Tx Ant	28.81	29.88	29.78	31.40	28.81	29.88	29.78	22.40	
OPRR 1 Tx Ant	27.44	29.88	29.74	31.40	26.71	28.88	28.74	22.40	
OPRR 2 Tx Ant	27.56	29.88	29.72	31.40	27.56	29.88	29.72	22.40	
OPRR 3 Tx Ant	28.80	29.88	29.83	28.80	27.34	29.40	29.37	22.34	
OPRR 4 Tx Ant	28.52	28.47	28.41	29.00	27.95	27.44	27.41	22.29	
EDGE 1 Tx Ant	25.82	26.93	26.86	27.00	18.82	18.93	18.86	18.00	
EDGE 2 Tx Ant	25.95	26.13	26.09	26.00	18.90	18.13	18.09	18.00	
EDGE 3 Tx Ant	23.24	23.41	23.27	24.30	18.05	18.13	18.01	20.24	
EDGE 4 Tx Ant	21.05	21.81	21.76	23.00	18.88	18.81	18.76	20.00	

DS3									
GSMSD Ant	Band A (Tx Power) (dBm)			Front-Average Power (dBm)			Tone-up		
TX Channel	512	861	810	Limit	512	861	810	Limit	dBm
Frequency (MHz)	1824.2	1860	1859.8	(GHz)	869.2	1858	1858.8		
OSM 1 Tx Ant	25.13	26.19	26.10	26.50	25.13	26.19	26.10	17.00	
OPRR 1 Tx Ant	23.71	26.19	26.03	26.20	23.71	26.19	26.03	17.00	
OPRR 2 Tx Ant	22.18	22.26	22.15	23.30	18.16	18.20	18.15	17.00	
OPRR 3 Tx Ant	20.21	20.15	20.03	20.20	18.11	18.15	18.03	17.00	
OPRR 4 Tx Ant	18.20	18.38	18.24	20.00	18.32	18.50	18.24	17.00	
EDGE 1 Tx Ant	24.75	24.80	24.80	25.00	18.75	18.95	18.80	18.00	
EDGE 2 Tx Ant	22.44	22.68	22.55	23.30	18.48	18.60	18.52	17.00	
EDGE 3 Tx Ant	20.23	20.81	20.74	21.00	18.47	18.55	18.48	17.44	
EDGE 4 Tx Ant	18.68	19.71	19.65	20.00	18.68	18.71	18.68	17.00	

Band	WCDMA 1X Ant			WCDMA 1X Ant			WCDMA 1X Ant			
	TX Channel	864	864	864	864	864	864	864	864	
Frequency (MHz)	1824	1824	1824	1824	1824	1824	1824	1824	1824	
ISPP Pwr (dB)	15.18	15.20	15.11	16.20	15.26	15.21	15.20	20.63	20.68	20.65
ISPP Pwr (dB)	15.19	15.24	15.16	16.20	15.20	15.11	15.22	18.30	18.83	18.87
ISPP Pwr (dB)	14.21	14.31	14.20	15.20	14.10	14.28	14.21	15.30	16.60	16.84
ISPP Pwr (dB)	13.87	13.79	13.71	14.70	13.83	13.60	13.78	14.80	16.20	16.24
ISPP Pwr (dB)	14.22	14.30	14.19	15.20	14.30	14.40	14.20	15.30	16.80	16.86
ISPP Pwr (dB)	13.24	13.77	13.84	14.70	13.78	13.83	13.89	14.80	16.10	16.38
ISPP Pwr (dB)	13.71	13.86	13.95	14.70	13.75	13.80	13.82	14.80	16.21	16.22
ISPP Pwr (dB)	14.20	14.12	14.13	15.20	14.48	14.21	14.24	15.30	16.87	16.81
ISPP Pwr (dB)	13.23	13.24	13.14	13.20	13.30	13.23	13.23	13.30	17.88	17.86
ISPP Pwr (dB)	13.15	13.37	13.08	14.20	13.27	13.41	13.14	14.30	16.68	16.74
ISPP Pwr (dB)	12.20	12.21	12.08	13.20	12.20	12.28	12.10	13.20	17.00	17.00
ISPP Pwr (dB)	14.08	14.20	14.02	15.20	14.18	14.28	14.08	15.30	16.69	16.74



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Band 2 Ant1 DS12										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq. (W/Hz)	Power Modem (W)	Power Pch./Freq. (W/Hz)	Turn-up time (min)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	1880	1880	1900				
20	QPSK	1	49	1881	1871	1870	16.9	0		
20	QPSK	1	99	1882	1862	1860				
20	QPSK	1	149	1883	1843	1840				
20	QPSK	50	24	1850	1837	1830	16.9	0		
20	QPSK	50	50	1853	1820	1820				
20	QPSK	50	76	1856	1806	1800				
20	QPSK	50	102	1859	1756	1750				
20	QPSK	50	128	1862	1653	1650				
20	QPSK	50	154	1865	1444	1440				
20	QPSK	50	180	1868	1223	1220				
20	QPSK	50	206	1871	1002	1000				
20	QPSK	50	232	1874	781	780				
20	QPSK	50	258	1877	560	560				
20	QPSK	50	284	1880	339	339				
20	QPSK	50	310	1883	118	118				
20	QPSK	50	336	1886	-103	-103				
20	QPSK	50	362	1889	-324	-324				
20	QPSK	50	388	1892	-545	-545				
20	QPSK	50	414	1895	-766	-766				
20	QPSK	50	440	1898	-987	-987				
20	QPSK	50	466	1901	-1208	-1208				
20	QPSK	50	492	1904	-1429	-1429				
20	QPSK	50	518	1907	-1650	-1650				
20	QPSK	50	544	1910	-1871	-1871				
20	QPSK	50	570	1913	-2092	-2092				
20	QPSK	50	596	1916	-2313	-2313				
20	QPSK	50	622	1919	-2534	-2534				
20	QPSK	50	648	1922	-2755	-2755				
20	QPSK	50	674	1925	-2976	-2976				
20	QPSK	50	700	1928	-3197	-3197				
20	QPSK	50	726	1931	-3418	-3418				
20	QPSK	50	752	1934	-3639	-3639				
20	QPSK	50	778	1937	-3860	-3860				
20	QPSK	50	804	1940	-4081	-4081				
20	QPSK	50	830	1943	-4302	-4302				
20	QPSK	50	856	1946	-4523	-4523				
20	QPSK	50	882	1949	-4744	-4744				
20	QPSK	50	908	1952	-4965	-4965				
20	QPSK	50	934	1955	-5186	-5186				
20	QPSK	50	960	1958	-5407	-5407				
20	QPSK	50	986	1961	-5628	-5628				
20	QPSK	50	1012	1964	-5849	-5849				
20	QPSK	50	1038	1967	-6070	-6070				
20	QPSK	50	1064	1970	-6291	-6291				
20	QPSK	50	1090	1973	-6512	-6512				
20	QPSK	50	1116	1976	-6733	-6733				
20	QPSK	50	1142	1979	-6954	-6954				
20	QPSK	50	1168	1982	-7175	-7175				
20	QPSK	50	1194	1985	-7396	-7396				
20	QPSK	50	1220	1988	-7617	-7617				
20	QPSK	50	1246	1991	-7838	-7838				
20	QPSK	50	1272	1994	-8059	-8059				
20	QPSK	50	1298	1997	-8280	-8280				
20	QPSK	50	1324	2000	-8501	-8501				
20	QPSK	50	1350	2003	-8722	-8722				
20	QPSK	50	1376	2006	-8943	-8943				
20	QPSK	50	1402	2009	-9164	-9164				
20	QPSK	50	1428	2012	-9385	-9385				
20	QPSK	50	1454	2015	-9606	-9606				
20	QPSK	50	1480	2018	-9827	-9827				
20	QPSK	50	1506	2021	-10048	-10048				
20	QPSK	50	1532	2024	-10269	-10269				
20	QPSK	50	1558	2027	-10490	-10490				
20	QPSK	50	1584	2030	-10711	-10711				
20	QPSK	50	1610	2033	-10932	-10932				
20	QPSK	50	1636	2036	-11153	-11153				
20	QPSK	50	1662	2039	-11374	-11374				
20	QPSK	50	1688	2042	-11595	-11595				
20	QPSK	50	1714	2045	-11816	-11816				
20	QPSK	50	1740	2048	-12037	-12037				
20	QPSK	50	1766	2051	-12258	-12258				
20	QPSK	50	1792	2054	-12479	-12479				
20	QPSK	50	1818	2057	-12700	-12700				
20	QPSK	50	1844	2060	-12921	-12921				
20	QPSK	50	1870	2063	-13142	-13142				
20	QPSK	50	1896	2066	-13363	-13363				
20	QPSK	50	1922	2069	-13584	-13584				
20	QPSK	50	1948	2072	-13805	-13805				
20	QPSK	50	1974	2075	-14026	-14026				
20	QPSK	50	2000	2078	-14247	-14247				
20	QPSK	50	2026	2081	-14468	-14468				
20	QPSK	50	2052	2084	-14689	-14689				
20	QPSK	50	2078	2087	-14910	-14910				
20	QPSK	50	2104	2090	-15131	-15131				
20	QPSK	50	2130	2093	-15352	-15352				
20	QPSK	50	2156	2096	-15573	-15573				
20	QPSK	50	2182	2099	-15794	-15794				
20	QPSK	50	2208	2102	-16015	-16015				
20	QPSK	50	2234	2105	-16236	-16236				
20	QPSK	50	2260	2108	-16457	-16457				
20	QPSK	50	2286	2111	-16678	-16678				
20	QPSK	50	2312	2114	-16899	-16899				
20	QPSK	50	2338	2117	-17120	-17120				
20	QPSK	50	2364	2120	-17341	-17341				
20	QPSK	50	2390	2123	-17562	-17562				
20	QPSK	50	2416	2126	-17783	-17783				
20	QPSK	50	2442	2129	-18004	-18004				
20	QPSK	50	2468	2132	-18225	-18225				
20	QPSK	50	2494	2135	-18446	-18446				
20	QPSK	50	2520	2138	-18667	-18667				
20	QPSK	50	2546	2141	-18888	-18888				
20	QPSK	50	2572	2144	-19109	-19109				
20	QPSK	50	2598	2147	-19330	-19330				
20	QPSK	50	2624	2150	-19551	-19551				
20	QPSK	50	2650	2153	-19772	-19772				
20	QPSK	50	2676	2156	-19993	-19993				
20	QPSK	50	2702	2159	-20214	-20214				
20	QPSK	50	2728	2162	-20435	-20435				
20	QPSK	50	2754	2165	-20656	-20656				
20	QPSK	50	2780	2168	-20877	-20877				
20	QPSK	50	2806	2171	-21098	-21098				
20	QPSK	50	2832	2174	-21319	-21319				
20	QPSK	50	2858	2177	-21540	-21540				
20	QPSK	50	2884	2180	-21761	-21761				
20	QPSK	50	2910	2183	-21982	-21982				
20	QPSK	50	2936	2186	-22203	-22203				
20	QPSK	50	2962	2189	-22424	-22424				
20	QPSK	50	2988	2192	-22645	-22645				
20	QPSK	50	3014	2195	-22866	-22866				
20	QPSK	50	3040	2198	-23087	-23087				
20	QPSK	50	3066	2201	-23308	-23308				
20	QPSK	50	3092	2204	-23529	-23529				
20	QPSK	50	3118	2207	-23750	-23750				
20	QPSK	50	3144	2210	-23971	-23971				
20	QPSK	50	3170	2213	-24192	-24192				
20	QPSK	50	3196	2216	-24413	-24413				
20	QPSK	50	3222	2219	-24634	-24634				
20	QPSK	50	3248	2222	-24855	-24855				
20	QPSK	50	3274	2225	-25076	-25076				
20	QPSK	50	3300	2228						



Band 12 Ant1 DSI2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Turn-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
707.5										
10	QPSK	1	0	21.30	21.54	21.50				
10	QPSK	1	25	21.33	21.55	21.48	22.8	0		
10	QPSK	1	49	21.43	21.42	21.43				
10	QPSK	25	0	21.36	21.53	21.48				
10	QPSK	25	12	21.37	21.43	21.38	22.8	0		
10	QPSK	25	25	21.40	21.48	21.45				
10	QPSK	25	37	21.38	21.43	21.38				
10	HQAM	1	0	21.33	21.45	21.42				
10	HQAM	1	25	21.27	21.40	21.43	22.8	0		
10	HQAM	1	49	21.34	21.51	21.48				
10	HQAM	25	0	20.36	20.27	20.39				
10	HQAM	25	12	20.38	20.29	20.45				
10	HQAM	25	25	20.38	20.49	20.48	22	0.8		
10	HQAM	25	37	20.37	20.38	20.35				
10	HQAM	50	0	20.36	20.28	20.31				
10	HQAM	1	25	20.31	20.41	20.30	22	0.8		
10	HQAM	1	49	20.41	20.43	20.39				
10	HQAM	25	0	19.48	19.40	19.38				
10	HQAM	25	12	19.42	19.48	19.39	21	1.8		
10	HQAM	25	25	19.34	19.47	19.33				
10	HQAM	50	0	17.54	17.53	17.54				
10	HQAM	1	0	17.57	17.75	17.64				
10	ZSSBAM	1	0	17.48	17.50	17.63	19	3.8		
10	ZSSBAM	1	49	17.64	17.59	17.61				
10	ZSSBAM	25	0	17.42	17.57	17.43				
10	ZSSBAM	25	12	17.52	17.51	17.45				
10	ZSSBAM	25	25	17.54	17.51	17.49	19	3.8		
10	ZSSBAM	50	0	17.27	17.39	17.30				
Channel										
Frequency (MHz)										
707.5										
5	QPSK	1	0	21.30	21.54	21.50				
5	QPSK	1	25	21.36	21.45	21.43	22.8	0		
5	QPSK	1	49	21.40	21.30	21.31				
5	QPSK	12	0	21.26	21.47	21.38				
5	QPSK	12	7	21.27	21.37	21.28				
5	QPSK	12	13	21.30	21.39	21.40	22.8	0		
5	QPSK	25	0	21.20	21.30	21.29				
5	HQAM	1	0	21.22	21.44	21.37				
5	HQAM	1	12	21.20	21.30	21.30	22.8	0		
5	HQAM	1	24	21.28	21.41	21.44				
5	HQAM	12	0	20.28	20.27	20.25	22	0.8		
5	HQAM	12	7	20.22	20.43	20.41				
5	HQAM	12	13	20.22	20.31	20.34				
5	HQAM	25	0	20.32	20.28	20.34				
5	HQAM	1	0	20.32	20.28	20.34	22	0.8		
5	HQAM	1	24	20.38	20.32	20.33				
5	HQAM	12	0	19.32	19.41	19.28				
5	HQAM	12	7	19.38	19.43	19.33	21	1.8		
5	HQAM	12	13	19.24	19.35	19.21				
5	HQAM	25	0	19.11	19.23	19.30				
5	ZSSBAM	1	0	17.43	17.52	17.60				
5	ZSSBAM	1	12	17.38	17.45	17.49	19	3.8		
5	ZSSBAM	1	24	17.29	17.48	17.41				
5	ZSSBAM	12	0	17.37	17.45	17.38				
5	ZSSBAM	12	7	17.07	17.30	17.28	19	3.8		
5	ZSSBAM	12	13	17.41	17.41	17.41				
5	ZSSBAM	25	0	17.10	17.29	17.17				
Channel										
Frequency (MHz)										
2305										
3	QPSK	1	0	21.52	21.52	21.44				
3	QPSK	1	8	21.50	21.45	21.41	22.8	0		
3	QPSK	14	0	21.50	21.28	21.35				
3	QPSK	8	0	21.28	21.43	21.32				
3	QPSK	8	4	21.33	21.29	21.31	22.8	0		
3	QPSK	7	0	21.34	21.43	21.41				
3	QPSK	16	0	21.25	21.30	21.28				
3	HQAM	1	0	21.27	21.36	21.38				
3	HQAM	1	8	21.24	21.29	21.31	22.8	0		
3	HQAM	1	14	21.24	21.41	21.35				
3	HQAM	8	0	20.25	20.27	20.34				
3	HQAM	8	4	20.27	20.43	20.39	22	0.8		
3	HQAM	8	7	20.31	20.44	20.43				
3	HQAM	1	0	20.22	20.28	20.24				
3	HQAM	1	0	20.22	20.32	20.29				
3	HQAM	1	8	20.22	20.38	20.16	22	0.8		
3	HQAM	1	14	20.33	20.29	20.29				
3	HQAM	8	0	19.41	19.34	19.24				
3	HQAM	8	4	19.38	19.42	19.31	21	1.8		
3	HQAM	8	7	19.38	19.53	19.20				
3	HQAM	16	0	19.21	19.29	19.35				
3	ZSSBAM	1	0	17.44	17.48	17.41				
3	ZSSBAM	1	8	17.44	17.45	17.50	19	3.8		
3	ZSSBAM	1	14	17.57	17.71	17.49				
3	ZSSBAM	8	0	17.38	17.45	17.38				
3	ZSSBAM	8	4	17.35	17.35	17.38	19	3.8		
3	ZSSBAM	8	7	17.46	17.41	17.35				
3	ZSSBAM	16	0	17.20	17.24	17.27				
Channel										
Frequency (MHz)										
2305										
1.4	QPSK	1	0	21.52	21.52	21.53				
1.4	QPSK	1	3	21.28	21.02	21.40	22.8	0		
1.4	QPSK	1	5	21.32	21.29	21.38				
1.4	QPSK	0	0	21.34	21.54	21.48				
1.4	QPSK	3	1	21.20	21.43	21.43				
1.4	QPSK	3	3	21.34	21.33	21.31	22.8	0		
1.4	QPSK	6	0	21.28	21.48	21.33				
1.4	HQAM	1	0	21.29	21.38	21.25				
1.4	HQAM	3	0	21.34	21.26	21.40				
1.4	HQAM	1	5	21.23	21.28	21.27	22.8	0		
1.4	HQAM	3	0	21.23	21.38	21.30				
1.4	HQAM	3	1	21.48	21.34	21.33				
1.4	HQAM	3	3	21.19	21.43	21.31				
1.4	HQAM	6	0	20.31	20.33	20.23	22	0.8		
1.4	HQAM	1	3	20.27	20.44	20.33				
1.4	HQAM	1	6	20.21	20.29	20.20	22	0.8		
1.4	HQAM	3	0	20.21	20.31	20.28				
1.4	HQAM	3	1	20.19	20.29	20.18				
1.4	HQAM	6	0	20.28	20.35	20.28				
1.4	HQAM	6	0	19.41	19.39	19.28	21	1.8		
1.4	ZSSBAM	1	0	17.46	17.67	17.50				
1.4	ZSSBAM	1	3	17.38	17.41	17.46				
1.4	ZSSBAM	1	5	17.60	17.70	17.51	19	3.8		
1.4	ZSSBAM	3	0	17.29	17.51	17.35				
1.4	ZSSBAM	3	1	17.13	17.28	17.24				
1.4	ZSSBAM	3	3	17.41	17.37	17.35				
1.4	ZSSBAM	6	0	17.22	17.32	17.16	19	3.8		

Band 13 Ant1 DSI2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Turn-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
792										
10	QPSK	1	0	19.80		19.80				
10	QPSK	1	25	19.87		19.87	21.1	0		
10	QPSK	1	49	19.88		19.88				
10	QPSK	25	0	19.80		19.80				
10	QPSK	25	12	19.84		19.84	21.1	0		
10	QPSK	25	25	19.86		19.86				
10	HQAM	1	0	19.88		19.88				
10	HQAM	1	25	19.80		19.80	21.1	0		
10	HQAM	1	49	19.80		19.80				
10	HQAM	25	0	19.87		19.87				
10	HQAM	25	12	19.86		19.86	21.1	0		
10	HQAM	25	25	19.87		19.87				
10	HQAM	50	0	19.84		19.84				
10	HQAM	1	25	19.80		19.80	21.1	0		
10	HQAM	1	49	19.80		19.80				
10	HQAM	25	0	19.80		19.80				
10	HQAM	25	12	19.84		19.84	21	0.1		
10	HQAM	25	25	19.82		19.82				
10	HQAM	50	0	19.82		19.82				
10	ZSSBAM	1	0	17.92		17.92				
10	ZSSBAM	1	25	17.73		17.73	19	2.1		
10	ZSSBAM	1	49	17.95		17.95				
10	ZSSBAM	25	0	17.74		17.74				
10	ZSSBAM	25	12	17.81		17.81	19	2.1		
10	ZSSBAM	25	25	17.88		17.88				
10	ZSSBAM	50	0	17.85		17.85				
Channel										
Frequency (MHz)										
792.5										
5	QPSK	1	0	19.83	20.00	19.92				
5	QPSK	1	19	19.80	19.97	19.89	21.1	0		
5	QPSK	1	24	19.81	19.97	19.85				
5	QPSK	12	0	19.77	19.93	19.88				
5	QPSK	12	7	19.80	19.90	19.82	21.1	0		
5	QPSK	12	13	19.87	19.99	19.90				
5	QPSK	25	0	19.83	19.91	19.85				
5	HQAM	1	0	19.74	19.94	19.83				
5	HQAM	1	12	19.70	19.84	19.87	21.1	0		
5	HQAM	1	24	19.73	19.86	19.91				
5	HQAM	12	0	19.78	19.91	19.84	21.1	0		
5	H									





Band 38 Ant1 DS12										
RF (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Time-up (ms)	MPR (dB)
Channel										
Frequency (MHz)										
37850	38000	38150								
20	QPSK	1	0	17.32	17.42	17.22				
20	QPSK	1	40	17.22	17.34	17.26				
20	QPSK	1	80	17.14	17.26	17.27				
20	QPSK	50	0	17.28	17.38	17.30				
20	QPSK	50	40	17.38	17.48	17.36				
20	QPSK	50	80	17.15	17.25	17.19				
20	QPSK	100	0	17.19	17.31	17.28				
20	16QAM	1	0	17.28	17.38	17.33				
20	16QAM	1	40	17.18	17.28	17.21				
20	16QAM	1	80	17.13	17.23	17.25				
20	16QAM	50	0	17.14	17.24	17.26				
20	16QAM	50	40	17.17	17.27	17.18				
20	16QAM	50	80	17.18	17.28	17.18				
20	16QAM	100	0	17.27	17.37	17.33				
20	16QAM	100	40	17.15	17.25	17.21				
20	16QAM	100	80	17.19	17.29	17.23				
20	16QAM	100	120	17.13	17.23	17.25				
20	16QAM	100	160	17.18	17.28	17.28				
20	16QAM	100	200	17.19	17.29	17.29				
20	16QAM	100	240	17.27	17.37	17.33				
20	16QAM	100	280	17.13	17.23	17.25				
20	16QAM	100	320	17.18	17.28	17.28				
20	16QAM	100	360	17.19	17.29	17.29				
20	16QAM	100	400	17.27	17.37	17.33				
20	16QAM	100	440	17.13	17.23	17.25				
20	16QAM	100	480	17.18	17.28	17.28				
20	16QAM	100	520	17.19	17.29	17.29				
20	16QAM	100	560	17.27	17.37	17.33				
20	16QAM	100	600	17.13	17.23	17.25				
20	16QAM	100	640	17.18	17.28	17.28				
20	16QAM	100	680	17.19	17.29	17.29				
20	16QAM	100	720	17.27	17.37	17.33				
20	16QAM	100	760	17.13	17.23	17.25				
20	16QAM	100	800	17.18	17.28	17.28				
20	16QAM	100	840	17.19	17.29	17.29				
20	16QAM	100	880	17.27	17.37	17.33				
20	16QAM	100	920	17.13	17.23	17.25				
20	16QAM	100	960	17.18	17.28	17.28				
20	16QAM	100	1000	17.19	17.29	17.29				
20	16QAM	100	1040	17.27	17.37	17.33				
20	16QAM	100	1080	17.13	17.23	17.25				
20	16QAM	100	1120	17.18	17.28	17.28				
20	16QAM	100	1160	17.19	17.29	17.29				
20	16QAM	100	1200	17.27	17.37	17.33				
20	16QAM	100	1240	17.13	17.23	17.25				
20	16QAM	100	1280	17.18	17.28	17.28				
20	16QAM	100	1320	17.19	17.29	17.29				
20	16QAM	100	1360	17.27	17.37	17.33				
20	16QAM	100	1400	17.13	17.23	17.25				
20	16QAM	100	1440	17.18	17.28	17.28				
20	16QAM	100	1480	17.19	17.29	17.29				
20	16QAM	100	1520	17.27	17.37	17.33				
20	16QAM	100	1560	17.13	17.23	17.25				
20	16QAM	100	1600	17.18	17.28	17.28				
20	16QAM	100	1640	17.19	17.29	17.29				
20	16QAM	100	1680	17.27	17.37	17.33				
20	16QAM	100	1720	17.13	17.23	17.25				
20	16QAM	100	1760	17.18	17.28	17.28				
20	16QAM	100	1800	17.19	17.29	17.29				
20	16QAM	100	1840	17.27	17.37	17.33				
20	16QAM	100	1880	17.13	17.23	17.25				
20	16QAM	100	1920	17.18	17.28	17.28				
20	16QAM	100	1960	17.19	17.29	17.29				
20	16QAM	100	2000	17.27	17.37	17.33				
20	16QAM	100	2040	17.13	17.23	17.25				
20	16QAM	100	2080	17.18	17.28	17.28				
20	16QAM	100	2120	17.19	17.29	17.29				
20	16QAM	100	2160	17.27	17.37	17.33				
20	16QAM	100	2200	17.13	17.23	17.25				
20	16QAM	100	2240	17.18	17.28	17.28				
20	16QAM	100	2280	17.19	17.29	17.29				
20	16QAM	100	2320	17.27	17.37	17.33				
20	16QAM	100	2360	17.13	17.23	17.25				
20	16QAM	100	2400	17.18	17.28	17.28				
20	16QAM	100	2440	17.19	17.29	17.29				
20	16QAM	100	2480	17.27	17.37	17.33				
20	16QAM	100	2520	17.13	17.23	17.25				
20	16QAM	100	2560	17.18	17.28	17.28				
20	16QAM	100	2600	17.19	17.29	17.29				
20	16QAM	100	2640	17.27	17.37	17.33				
20	16QAM	100	2680	17.13	17.23	17.25				
20	16QAM	100	2720	17.18	17.28	17.28				
20	16QAM	100	2760	17.19	17.29	17.29				
20	16QAM	100	2800	17.27	17.37	17.33				
20	16QAM	100	2840	17.13	17.23	17.25				
20	16QAM	100	2880	17.18	17.28	17.28				
20	16QAM	100	2920	17.19	17.29	17.29				
20	16QAM	100	2960	17.27	17.37	17.33				
20	16QAM	100	3000	17.13	17.23	17.25				
20	16QAM	100	3040	17.18	17.28	17.28				
20	16QAM	100	3080	17.19	17.29	17.29				
20	16QAM	100	3120	17.27	17.37	17.33				
20	16QAM	100	3160	17.13	17.23	17.25				
20	16QAM	100	3200	17.18	17.28	17.28				
20	16QAM	100	3240	17.19	17.29	17.29				
20	16QAM	100	3280	17.27	17.37	17.33				
20	16QAM	100	3320	17.13	17.23	17.25				
20	16QAM	100	3360	17.18	17.28	17.28				
20	16QAM	100	3400	17.19	17.29	17.29				
20	16QAM	100	3440	17.27	17.37	17.33				
20	16QAM	100	3480	17.13	17.23	17.25				
20	16QAM	100	3520	17.18	17.28	17.28				
20	16QAM	100	3560	17.19	17.29	17.29				
20	16QAM	100	3600	17.27	17.37	17.33				
20	16QAM	100	3640	17.13	17.23	17.25				
20	16QAM	100	3680	17.18	17.28	17.28				
20	16QAM	100	3720	17.19	17.29	17.29				
20	16QAM	100	3760	17.27	17.37	17.33				
20	16QAM	100	3800	17.13	17.23	17.25				
20	16QAM	100	3840	17.18	17.28	17.28				
20	16QAM	100	3880	17.19	17.29	17.29				
20	16QAM	100	3920	17.27	17.37	17.33				
20	16QAM	100	3960	17.13	17.23	17.25				
20	16QAM	100	4000	17.18	17.28	17.28				
20	16QAM	100	4040	17.19	17.29	17.29				
20	16QAM	100	4080	17.27	17.37	17.33				
20	16QAM	100	4120	17.13	17.23	17.25				
20	16QAM	100	4160	17.18	17.28	17.28				
20	16QAM	100	4200	17.19	17.29	17.29				
20	16QAM	100	4240	17.27	17.37	17.33				
20	16QAM	100	4280	17.13	17.23	17.25				
20	16QAM	100	4320	17.18	17.28	17.28				
20	16QAM	100	4360	17.19	17.29	17.29				
20	16QAM	100	4400	17.27	17.37	17.33				
20	16QAM	100	4440	17.13	17.23	17.25				
20	16QAM	100	4480	17.18	17.28	17.28				
20	16QAM	100	4520	17.19	17.29	17.29				
20	16QAM	100	4560	17.27	17.37	17.33				
20	16QAM	100	4600	17.13	17.23	17.25				
20	16QAM	100	4640	17.18	17.28	17.28				
20	16QAM	100	4680	17.19	17.29	17.29				
20	16QAM	100	4720	17.27	17.37	17.33				
20	16QAM	100	4760	17.13	17.23	17.25				
20	16QAM	100	4800	17.18	17.28	17.28				
20	16QAM	100	4840	17.19	17.29	17.29				
20	16QAM	100	4880	17.27	17.37	17.33				
20	16QAM	100	4920	17.13	17.23	17.25				
20	16QAM	100	4960	17.18	17.28	17.28				
20	16QAM	100	5000	17.19	17.29	17.29				
20	16QAM	100	5040	17.27	17.37	17.33				
20	16QAM	100	5080	17.13	17.23	17.25				
20	16QAM	100	5120	17.18	17.28	17.28				
20	16QAM	100	5160	17.19	17.29	17.29				
20	16QAM	100	5200	17.27	17.37	17.33				
20	16QAM	100	5240	17.13	17.23</					



Band 48 Ant2 DSI2

Row (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Line Middle Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up time (ms)	MFR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	13.15	13.15	13.12	13.18		
20	QPSK	1	40	13.08	13.03	13.01	13.01	14.4	0
20	QPSK	1	80	13.00	13.00	13.00	13.00		
20	QPSK	50	0	13.07	13.15	13.12	13.11		
20	QPSK	50	24	13.06	13.06	13.06	13.06	14.4	0
20	QPSK	50	50	13.01	13.03	13.04	13.10		
20	QPSK	100	0	12.99	13.05	12.97	13.02		
20	HQAM	1	0	12.78	12.82	12.84	12.78	14.4	0
20	HQAM	1	40	12.80	12.86	12.86	12.77		
20	HQAM	1	80	12.80	13.02	12.93	12.86		
20	HQAM	50	0	12.80	13.01	12.92	12.85	14.4	0
20	HQAM	50	24	12.79	12.91	12.98	12.89		
20	HQAM	50	50	12.85	12.86	12.95	12.82		
20	HQAM	100	0	12.77	13.00	12.83	12.87		
20	HQAM	1	0	12.79	12.88	12.86	12.71	14.4	0
20	HQAM	1	40	12.85	12.79	12.91	12.85		
20	HQAM	1	80	12.86	12.93	12.92	12.87		
20	HQAM	50	0	12.82	12.85	12.84	12.79	14.4	0
20	HQAM	50	24	12.81	12.91	12.85	12.75		
20	HQAM	50	50	12.84	12.94	12.99	12.83		
20	HQAM	100	0	12.80	12.70	12.84	12.71		
20	ZSFGAM	1	0	12.78	12.84	12.86	12.75	14.4	0
20	ZSFGAM	1	40	12.79	12.88	12.90	12.80		
20	ZSFGAM	1	80	12.85	13.00	12.98	12.85		
20	ZSFGAM	50	0	12.88	12.91	12.89	12.80	14.4	0
20	ZSFGAM	50	24	12.74	12.86	12.84	12.81		
20	ZSFGAM	50	50	12.75	12.91	12.85	12.70		
20	ZSFGAM	100	0	12.84	12.85	12.83	12.80		
Channel									
Frequency (MHz)									
15	QPSK	1	0	12.94	13.04	12.96	12.97		
15	QPSK	1	40	12.84	12.90	12.78	12.74	14.4	0
15	QPSK	1	74	12.80	12.81	12.98	12.82		
15	QPSK	36	0	12.85	12.97	12.86	12.88	14.4	0
15	QPSK	36	20	12.73	12.85	12.94	12.82		
15	QPSK	36	50	12.88	12.82	12.80	12.86		
15	QPSK	36	80	12.88	12.81	12.80	12.70	14.4	0
15	HQAM	1	0	12.87	12.86	12.83	12.70		
15	HQAM	1	36	12.87	12.86	12.84	12.70	14.4	0
15	HQAM	1	74	12.87	12.89	12.84	12.81		
15	HQAM	36	0	12.82	12.88	12.82	12.70		
15	HQAM	36	20	12.84	12.88	12.82	12.74	14.4	0
15	HQAM	36	50	12.77	12.91	12.89	12.72		
15	HQAM	75	0	12.70	12.80	12.85	12.74		
15	HQAM	1	0	12.73	12.85	12.73	12.80	14.4	0
15	HQAM	1	37	12.75	12.74	12.77	12.58		
15	HQAM	1	74	12.78	12.80	12.86	12.80		
15	HQAM	36	0	12.75	12.75	12.87	12.73	14.4	0
15	HQAM	36	20	12.77	12.82	12.72	12.59		
15	HQAM	36	50	12.73	12.81	12.81	12.69		
15	ZSFGAM	1	0	12.69	12.75	12.75	12.70	14.4	0
15	ZSFGAM	1	37	12.70	12.94	12.88	12.55		
15	ZSFGAM	1	74	12.75	12.94	12.94	12.78		
15	ZSFGAM	36	0	12.77	12.86	12.72	12.81	14.4	0
15	ZSFGAM	36	20	12.80	12.87	12.75	12.68		
15	ZSFGAM	36	50	12.70	12.88	12.72	12.63		
15	ZSFGAM	75	0	12.74	12.71	12.73	12.69	14.4	0
Channel									
Frequency (MHz)									
10	QPSK	1	0	12.91	12.95	12.91	12.94		
10	QPSK	1	25	12.83	12.82	12.77	12.70	14.4	0
10	QPSK	1	50	12.78	12.77	12.88	12.75		
10	QPSK	25	0	12.83	12.85	12.81	12.81	14.4	0
10	QPSK	25	12	12.82	12.86	12.80	12.70		
10	QPSK	25	24	12.87	12.79	12.88	12.80		
10	QPSK	50	0	12.73	12.83	12.73	12.78	14.4	0
10	HQAM	1	0	12.72	12.85	12.86	12.80		
10	HQAM	1	26	12.70	12.88	12.87	12.87	14.4	0
10	HQAM	1	49	12.75	12.88	12.78	12.82		
10	HQAM	25	0	12.76	12.87	12.79	12.70	14.4	0
10	HQAM	25	12	12.73	12.83	12.91	12.74		
10	HQAM	25	20	12.72	12.89	12.88	12.78		
10	HQAM	25	49	12.85	12.91	12.79	12.83	14.4	0
10	HQAM	1	0	12.72	12.81	12.74	12.64		
10	HQAM	1	26	12.70	12.74	12.76	12.61	14.4	0
10	HQAM	1	49	12.81	12.89	12.89	12.80		
10	HQAM	25	0	12.78	12.88	12.84	12.71	14.4	0
10	HQAM	25	12	12.72	12.78	12.76	12.68		
10	HQAM	25	20	12.79	12.80	12.91	12.74		
10	HQAM	50	0	12.69	12.86	12.76	12.68	14.4	0
10	ZSFGAM	1	0	12.65	12.81	12.76	12.53		
10	ZSFGAM	1	25	12.70	12.81	12.86	12.75	14.4	0
10	ZSFGAM	1	49	12.74	12.84	12.84	12.70		
10	ZSFGAM	25	0	12.84	12.85	12.71	12.82		
10	ZSFGAM	25	12	12.82	12.84	12.78	12.71	14.4	0
10	ZSFGAM	25	20	12.84	12.87	12.79	12.81		
10	ZSFGAM	50	0	12.74	12.76	12.70	12.67	14.4	0
Channel									
Frequency (MHz)									
5	QPSK	1	0	13.00	13.01	12.98	12.91		
5	QPSK	1	10	12.85	12.79	12.78	12.70	14.4	0
5	QPSK	1	24	12.80	12.78	12.90	12.77		
5	QPSK	12	0	12.80	12.87	12.86	12.80	14.4	0
5	QPSK	12	7	12.75	12.89	12.91	12.84		
5	QPSK	12	13	12.88	12.80	12.83	12.84		
5	QPSK	25	0	12.71	12.87	12.81	12.80	14.4	0
5	HQAM	1	0	12.87	12.92	12.86	12.72		
5	HQAM	1	12	12.72	12.89	12.87	12.80	14.4	0
5	HQAM	1	24	12.86	12.92	12.86	12.81		
5	HQAM	12	0	12.85	12.95	12.84	12.70	14.4	0
5	HQAM	12	7	12.74	12.78	12.84	12.80		
5	HQAM	12	13	12.70	12.89	12.87	12.74	14.4	0
5	HQAM	25	0	12.72	12.90	12.85	12.78		
5	HQAM	1	0	12.72	12.79	12.77	12.67	14.4	0
5	HQAM	1	12	12.81	12.86	12.82	12.83		
5	HQAM	1	24	12.83	12.82	12.92	12.80		
5	HQAM	12	0	12.78	12.87	12.80	12.80	14.4	0
5	HQAM	12	7	12.78	12.79	12.72	12.64		
5	HQAM	12	13	12.74	12.88	12.86	12.72		
5	ZSFGAM	1	0	12.84	12.74	12.80	12.87	14.4	0
5	ZSFGAM	1	10	12.80	12.76	12.86	12.72		
5	ZSFGAM	1	24	12.74	12.86	12.84	12.71		
5	ZSFGAM	12	0	12.76	12.88	12.78	12.80	14.4	0
5	ZSFGAM	12	7	12.81	12.85	12.81	12.78		
5	ZSFGAM	12	13	12.70	12.79	12.79	12.60		
5	ZSFGAM	25	0	12.72	12.75	12.73	12.68	14.4	0



Reduced Power Mode for DSSS

GSM900 band		Default		Limit		Limit	
TX Channel	Band Average Power (dBm)	Power	Power	Power	Power	Power	Power
Frequency (MHz)	814.2	814.4	814.8	814.2	814.4	814.8	814.4
GSM 1 Tx limit	32.04	32.75	32.88	33.50	33.64	33.76	33.76
GPRS 1 Tx limit	32.37	32.75	32.88	33.50	33.67	33.76	33.76
GPRS 2 Tx limit	32.00	32.15	32.05	32.80	32.99	32.99	32.99
GPRS 3 Tx limit	29.82	29.81	29.59	29.00	29.34	29.41	29.41
GPRS 4 Tx limit	27.05	27.18	27.15	27.80	28.00	28.18	28.18
EDGE 1 Tx limit	23.05	23.05	23.05	23.00	23.00	23.00	23.00
EDGE 2 Tx limit	23.05	23.12	23.09	23.40	23.40	23.13	23.13
EDGE 3 Tx limit	23.24	23.46	23.48	24.00	24.00	23.36	23.36
EDGE 4 Tx limit	21.82	21.74	21.87	21.00	21.00	21.74	21.74

  

GSM900 band		DSSS		DSSS		Default	
TX Channel	Band Average Power (dBm)	Power	Power	Power	Power	Power	Power
Frequency (MHz)	814.2	814.4	814.8	814.2	814.4	814.8	814.4
GSM 1 Tx limit	24.14	24.21	24.15	25.20	25.14	25.21	25.21
GPRS 1 Tx limit	23.65	24.10	24.01	25.20	25.00	25.11	25.11
GPRS 2 Tx limit	20.94	21.10	20.92	22.20	22.04	22.10	22.10
GPRS 3 Tx limit	18.17	18.10	18.04	20.20	20.11	20.06	20.06
GPRS 4 Tx limit	15.00	15.00	15.01	15.00	15.00	15.01	15.01
EDGE 1 Tx limit	23.75	23.81	23.79	25.20	24.75	24.81	24.81
EDGE 2 Tx limit	20.79	20.80	20.73	22.20	21.74	21.85	21.85
EDGE 3 Tx limit	19.25	19.25	19.13	20.40	19.79	19.94	19.94
EDGE 4 Tx limit	17.40	17.25	17.87	19.00	18.81	19.81	19.81

  

HSDPA band		HSDMA-E		HSDMA-E		HSDMA-E		HSDMA-E	
TX Channel	Band Average Power (dBm)	Power	Power	Power	Power	Power	Power	Power	Power
Frequency (MHz)	1920.0	1920.0	1920.0	1920.0	1920.0	1920.0	1920.0	1920.0	1920.0
Power (dBm)	14.00	14.00	13.97	14.80	14.80	14.79	14.79	14.79	14.79
HSDPA Subclass-1	13.00	13.10	12.98	13.80	14.11	14.00	14.00	14.00	14.00
HSDPA Subclass-2	13.03	13.10	12.93	13.80	14.18	14.24	14.24	14.24	14.24
HSDPA Subclass-3	12.42	12.36	12.56	13.20	13.40	13.40	13.40	13.40	13.40
HSDPA Subclass-4	12.50	12.62	12.64	13.20	13.33	13.76	13.76	13.76	13.76
DC-HSDPA Subclass-1	13.21	13.10	13.00	13.80	14.26	14.22	14.22	14.22	14.22
DC-HSDPA Subclass-2	12.80	12.90	13.13	13.80	14.07	14.76	14.76	14.76	14.76
DC-HSDPA Subclass-3	12.32	12.40	12.46	13.30	13.42	13.50	13.50	13.50	13.50
DC-HSDPA Subclass-4	12.70	12.41	12.49	13.20	13.44	13.58	13.76	13.76	13.76
HSPA Subclass-1	13.10	13.10	13.01	13.80	14.10	14.21	14.21	14.21	14.21
HSPA Subclass-2	13.10	13.20	13.00	13.80	14.10	14.20	14.20	14.20	14.20
HSPA Subclass-3	12.13	12.08	11.87	12.80	13.10	13.22	13.22	13.22	13.22
HSPA Subclass-4	13.06	13.00	13.15	13.80	14.10	14.20	14.20	14.20	14.20
HSPA Subclass-5	13.06	13.04	12.88	13.80	13.80	14.20	14.20	14.20	14.20



MINISTRY OF NATIONAL DEFENSE

Band 2 Ant0 DS13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power Ch./Freq.	Power Ch./Freq.	Power Ch./Freq.	Turn-up Time (min)	MFR (dB)	
Channel										
Frequency (MHz)				1880	1880	1900	1900			
20	QPSK	1	0	13.76	13.76	13.76	13.76			
20	QPSK	1	49	13.80	13.80	13.80	13.80	14.7	0	
20	QPSK	1	99	13.85	13.76	13.81	13.81			
20	QPSK	1	149	13.87	13.87	13.87	13.87			
20	QPSK	50	24	13.80	13.72	13.80	13.80	14.7	0	
20	QPSK	50	50	13.82	13.82	13.82	13.82			
20	QPSK	50	75	13.84	13.84	13.84	13.84	14.7	0	
20	QPSK	50	100	13.86	13.86	13.86	13.86			
20	QPSK	50	125	13.87	13.87	13.87	13.87	14.7	0	
20	QPSK	50	150	13.89	13.89	13.89	13.89			
20	QPSK	50	175	13.91	13.91	13.91	13.91	14.7	0	
20	QPSK	100	0	13.89	13.89	13.89	13.89			
20	QPSK	100	25	13.92	13.92	13.92	13.92	14.7	0	
20	QPSK	100	50	13.93	13.93	13.93	13.93			
20	QPSK	100	75	13.94	13.94	13.94	13.94	14.7	0	
20	QPSK	100	100	13.95	13.95	13.95	13.95			
20	QPSK	100	125	13.96	13.96	13.96	13.96	14.7	0	
20	QPSK	100	150	13.97	13.97	13.97	13.97			
20	QPSK	100	175	13.98	13.98	13.98	13.98	14.7	0	
20	QPSK	100	200	13.99	13.99	13.99	13.99			
20	QPSK	100	225	14.00	14.00	14.00	14.00	14.7	0	
20	QPSK	100	250	14.01	14.01	14.01	14.01			
20	QPSK	100	275	14.02	14.02	14.02	14.02	14.7	0	
20	QPSK	100	300	14.03	14.03	14.03	14.03			
20	QPSK	100	325	14.04	14.04	14.04	14.04	14.7	0	
20	QPSK	100	350	14.05	14.05	14.05	14.05			
20	QPSK	100	375	14.06	14.06	14.06	14.06	14.7	0	
20	QPSK	100	400	14.07	14.07	14.07	14.07			
20	QPSK	100	425	14.08	14.08	14.08	14.08	14.7	0	
20	QPSK	100	450	14.09	14.09	14.09	14.09			
20	QPSK	100	475	14.10	14.10	14.10	14.10	14.7	0	
20	QPSK	100	500	14.11	14.11	14.11	14.11			
20	QPSK	100	525	14.12	14.12	14.12	14.12	14.7	0	
20	QPSK	100	550	14.13	14.13	14.13	14.13			
20	QPSK	100	575	14.14	14.14	14.14	14.14	14.7	0	
20	QPSK	100	600	14.15	14.15	14.15	14.15			
20	QPSK	100	625	14.16	14.16	14.16	14.16	14.7	0	
20	QPSK	100	650	14.17	14.17	14.17	14.17			
20	QPSK	100	675	14.18	14.18	14.18	14.18	14.7	0	
20	QPSK	100	700	14.19	14.19	14.19	14.19			
20	QPSK	100	725	14.20	14.20	14.20	14.20	14.7	0	
20	QPSK	100	750	14.21	14.21	14.21	14.21			
20	QPSK	100	775	14.22	14.22	14.22	14.22	14.7	0	
20	QPSK	100	800	14.23	14.23	14.23	14.23			
20	QPSK	100	825	14.24	14.24	14.24	14.24	14.7	0	
20	QPSK	100	850	14.25	14.25	14.25	14.25			
20	QPSK	100	875	14.26	14.26	14.26	14.26	14.7	0	
20	QPSK	100	900	14.27	14.27	14.27	14.27			
20	QPSK	100	925	14.28	14.28	14.28	14.28	14.7	0	
20	QPSK	100	950	14.29	14.29	14.29	14.29			
20	QPSK	100	975	14.30	14.30	14.30	14.30	14.7	0	
20	QPSK	100	1000	14.31	14.31	14.31	14.31			
20	QPSK	100	1025	14.32	14.32	14.32	14.32	14.7	0	
20	QPSK	100	1050	14.33	14.33	14.33	14.33			
20	QPSK	100	1075	14.34	14.34	14.34	14.34	14.7	0	
20	QPSK	100	1100	14.35	14.35	14.35	14.35			
20	QPSK	100	1125	14.36	14.36	14.36	14.36	14.7	0	
20	QPSK	100	1150	14.37	14.37	14.37	14.37			
20	QPSK	100	1175	14.38	14.38	14.38	14.38	14.7	0	
20	QPSK	100	1200	14.39	14.39	14.39	14.39			
20	QPSK	100	1225	14.40	14.40	14.40	14.40	14.7	0	
20	QPSK	100	1250	14.41	14.41	14.41	14.41			
20	QPSK	100	1275	14.42	14.42	14.42	14.42	14.7	0	
20	QPSK	100	1300	14.43	14.43	14.43	14.43			
20	QPSK	100	1325	14.44	14.44	14.44	14.44	14.7	0	
20	QPSK	100	1350	14.45	14.45	14.45	14.45			
20	QPSK	100	1375	14.46	14.46	14.46	14.46	14.7	0	
20	QPSK	100	1400	14.47	14.47	14.47	14.47			
20	QPSK	100	1425	14.48	14.48	14.48	14.48	14.7	0	
20	QPSK	100	1450	14.49	14.49	14.49	14.49			
20	QPSK	100	1475	14.50	14.50	14.50	14.50	14.7	0	
20	QPSK	100	1500	14.51	14.51	14.51	14.51			
20	QPSK	100	1525	14.52	14.52	14.52	14.52	14.7	0	
20	QPSK	100	1550	14.53	14.53	14.53	14.53			
20	QPSK	100	1575	14.54	14.54	14.54	14.54	14.7	0	
20	QPSK	100	1600	14.55	14.55	14.55	14.55			
20	QPSK	100	1625	14.56	14.56	14.56	14.56	14.7	0	
20	QPSK	100	1650	14.57	14.57	14.57	14.57			
20	QPSK	100	1675	14.58	14.58	14.58	14.58	14.7	0	
20	QPSK	100	1700	14.59	14.59	14.59	14.59			
20	QPSK	100	1725	14.60	14.60	14.60	14.60	14.7	0	
20	QPSK	100	1750	14.61	14.61	14.61	14.61			
20	QPSK	100	1775	14.62	14.62	14.62	14.62	14.7	0	
20	QPSK	100	1800	14.63	14.63	14.63	14.63			
20	QPSK	100	1825	14.64	14.64	14.64	14.64	14.7	0	
20	QPSK	100	1850	14.65	14.65	14.65	14.65			
20	QPSK	100	1875	14.66	14.66	14.66	14.66	14.7	0	
20	QPSK	100	1900	14.67	14.67	14.67	14.67			
20	QPSK	100	1925	14.68	14.68	14.68	14.68	14.7	0	
20	QPSK	100	1950	14.69	14.69	14.69	14.69			
20	QPSK	100	1975	14.70	14.70	14.70	14.70	14.7	0	
20	QPSK	100	2000	14.71	14.71	14.71	14.71			
20	QPSK	100	2025	14.72	14.72	14.72	14.72	14.7	0	
20	QPSK	100	2050	14.73	14.73	14.73	14.73			
20	QPSK	100	2075	14.74	14.74	14.74	14.74	14.7	0	
20	QPSK	100	2100	14.75	14.75	14.75	14.75			
20	QPSK	100	2125	14.76	14.76	14.76	14.76	14.7	0	
20	QPSK	100	2150	14.77	14.77	14.77	14.77			
20	QPSK	100	2175	14.78	14.78	14.78	14.78	14.7	0	
20	QPSK	100	2200	14.79	14.79	14.79	14.79			
20	QPSK	100	2225	14.80	14.80	14.80	14.80	14.7	0	
20	QPSK	100	2250	14.81	14.81	14.81	14.81			
20	QPSK	100	2275	14.82	14.82	14.82	14.82	14.7	0	
20	QPSK	100	2300	14.83	14.83	14.83	14.83			
20	QPSK	100	2325	14.84	14.84	14.84	14.84	14.7	0	
20	QPSK	100	2350	14.85	14.85	14.85	14.85			
20	QPSK	100	2375	14.86	14.86	14.86	14.86	14.7	0	
20	QPSK	100	2400	14.87	14.87	14.87	14.87			
20	QPSK	100	2425	14.88	14.88	14.88	14.88	14.7	0	
20	QPSK	100	2450	14.89	14.89	14.89	14.89			
20	QPSK	100	2475	14.90	14.90	14.90	14.90	14.7	0	
20	QPSK	100	2500	14.91	14.91	14.91	14.91			
20	QPSK	100	2525	14.92	14.92	14.92	14.92	14.7	0	
20	QPSK	100	2550	14.93	14.93	14.93	14.93			
20	QPSK	100	2575	14.94	14.94	14.94	14.94	14.7	0	
20	QPSK	100	2600	14.95	14.95	14.95	14.95			
20	QPSK	100	2625	14.96	14.96	14.96	14.96	14.7	0	
20	QPSK	100	2650	14.97	14.97	14.97	14.97			
20	QPSK	100	2675	14.98	14.98	14.98	14.98	14.7	0	
20	QPSK	100	2700	14.99	14.99	14.99	14.99			
20	QPSK	100	2725	15.00	15.00	15.00	15.00	14.7	0	
20	QPSK	100	2750	15.01	15.01	15.01	15.01			
20	QPSK	100	2775	15.02	15.02	15.02	15.02	14.7	0	
20	QPSK	100	2800	15.03	15.03	15.03	15.03			
20	QPSK	100	2825	15.04	15.04	15.04	15.04	14.7	0	
20	QPSK	100	2850	15.05	15.05	15.05	15.05			
20	QPSK	100	2875	15.06	15.06	15.06	15.06	14.7	0	
20	QPSK	100	2900	15.07	15.07	15.07	15.07			
20	QPSK	100	2925	15.08	15.08	15.08	15.08	14.7	0	
20	QPSK	100	2950	15.09	15.09	15.09	15.09			
20	QPSK	100	2975	15.10	15.10	15.10	15.10			





Band 12 Ant0 Default										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Tune-up Int. (min)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.44	22.78	22.83			24	0
10	QPSK	1	25	22.54	22.88	22.93				
10	QPSK	1	40	22.61	22.95	23.00				
10	QPSK	35	0	22.61	22.95	23.00				
10	QPSK	25	12	21.68	21.70	21.55			23	1
10	QPSK	25	25	21.68	21.64	21.63				
10	QPSK	50	0	21.62	21.65	21.70				
10	HQAM	1	0	21.71	21.88	21.83				
10	HQAM	1	25	21.54	21.71	21.67			23	1
10	HQAM	1	40	21.73	21.70	21.52				
10	HQAM	25	0	20.71	20.84	20.80				
10	HQAM	12	0	20.72	20.85	20.70			22	2
10	HQAM	25	25	20.59	20.72	20.70				
10	HQAM	50	0	20.50	20.75	20.82				
10	HQAM	1	0	20.60	20.70	20.65				
10	HQAM	1	25	20.52	20.50	20.51			22	2
10	HQAM	1	40	20.71	20.80	20.85				
10	HQAM	25	0	19.25	19.17	19.03				
10	HQAM	25	12	19.58	19.63	19.58			21	3
10	HQAM	25	25	19.65	19.61	19.55				
10	HQAM	50	0	19.47	19.61	19.58				
10	SSBQAM	1	0	17.75	17.85	17.73				
10	SSBQAM	1	25	17.84	17.82	17.85			19	5
10	SSBQAM	1	40	17.84	17.84	17.81				
10	SSBQAM	25	0	17.63	17.71	17.85				
10	SSBQAM	12	0	17.63	17.69	17.70			19	5
10	SSBQAM	25	25	17.59	17.70	17.80				
10	SSBQAM	50	0	17.69	17.65	17.71				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.58	22.78	22.53			24	0
5	QPSK	1	12	22.64	22.68	22.50				
5	QPSK	1	24	22.47	22.57	22.49				
5	QPSK	12	0	21.63	21.66	21.51				
5	QPSK	12	7	21.68	21.59	21.49			23	1
5	QPSK	12	13	21.58	21.56	21.50				
5	QPSK	25	0	21.43	21.51	21.47				
5	HQAM	1	0	21.68	21.67	21.49				
5	HQAM	1	12	21.62	21.67	21.52			23	1
5	HQAM	1	24	21.62	21.61	21.42				
5	HQAM	12	0	20.59	20.79	20.72			22	2
5	HQAM	12	7	20.62	20.57	20.65				
5	HQAM	12	13	20.57	20.51	20.59				
5	HQAM	1	0	20.68	20.70	20.45				
5	HQAM	1	12	20.68	20.73	20.62			22	2
5	HQAM	1	24	20.68	20.73	20.62				
5	HQAM	12	0	19.52	19.66	19.49				
5	HQAM	12	7	19.52	19.54	19.49			21	3
5	HQAM	12	13	19.52	19.58	19.47				
5	HQAM	25	0	19.46	19.51	19.45				
5	SSBQAM	1	0	17.70	17.83	17.81				
5	SSBQAM	1	12	17.78	17.83	17.83			19	5
5	SSBQAM	1	24	17.78	17.84	17.72				
5	SSBQAM	12	0	17.51	17.57	17.51				
5	SSBQAM	12	7	17.44	17.51	17.51			19	5
5	SSBQAM	12	13	17.44	17.49	17.49				
5	SSBQAM	25	0	17.52	17.56	17.51				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.54	22.70	22.54			24	0
3	QPSK	1	8	22.49	22.52	22.48				
3	QPSK	1	14	22.61	22.58	22.55				
3	QPSK	8	0	21.67	21.67	21.43				
3	QPSK	8	4	21.57	21.62	21.44			23	1
3	QPSK	8	7	21.60	21.63	21.50				
3	QPSK	16	0	21.43	21.61	21.45				
3	HQAM	1	0	21.67	21.63	21.50				
3	HQAM	1	8	21.60	21.68	21.63			23	1
3	HQAM	1	14	21.61	21.63	21.43				
3	HQAM	8	0	20.60	20.73	20.66				
3	HQAM	8	4	20.60	20.62	20.57			22	2
3	HQAM	8	7	20.50	20.58	20.66				
3	HQAM	16	0	20.54	20.66	20.50				
3	HQAM	1	0	20.69	20.58	20.52				
3	HQAM	1	8	20.70	20.80	20.78			22	2
3	HQAM	1	14	20.60	20.74	20.54				
3	HQAM	8	0	19.54	19.74	19.53				
3	HQAM	8	4	19.46	19.50	19.46			21	3
3	HQAM	8	7	19.50	19.51	19.45				
3	HQAM	16	0	19.38	19.52	19.45				
3	SSBQAM	1	0	17.70	17.81	17.77				
3	SSBQAM	1	8	17.78	17.84	17.72			19	5
3	SSBQAM	1	14	17.78	17.84	17.72				
3	SSBQAM	8	0	17.50	17.64	17.50				
3	SSBQAM	8	4	17.50	17.59	17.50			19	5
3	SSBQAM	8	7	17.57	17.66	17.73				
3	SSBQAM	16	0	17.64	17.54	17.68				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.61	22.73	22.62			24	0
1.4	QPSK	1	3	22.52	22.60	22.50				
1.4	QPSK	1	5	22.47	22.59	22.44				
1.4	QPSK	3	0	22.67	22.71	22.56				
1.4	QPSK	3	1	22.51	22.68	22.59				
1.4	QPSK	3	3	22.62	22.64	22.46			23	1
1.4	HQAM	1	0	21.60	21.61	21.40				
1.4	HQAM	1	3	21.58	21.59	21.47				
1.4	HQAM	1	5	21.60	21.63	21.50			23	1
1.4	HQAM	1	5	21.48	21.55	21.00				
1.4	HQAM	3	0	21.63	21.58	21.51				
1.4	HQAM	3	1	21.60	21.66	21.53				
1.4	HQAM	3	3	21.60	21.63	21.48				
1.4	HQAM	6	0	20.61	20.76	20.71			22	2
1.4	HQAM	1	3	20.61	20.67	20.61				
1.4	HQAM	1	6	20.62	20.71	20.52			22	2
1.4	HQAM	3	0	20.61	20.64	20.48				
1.4	HQAM	3	1	20.60	20.60	20.73				
1.4	HQAM	6	0	20.62	20.74	20.64				
1.4	HQAM	6	0	19.41	19.57	19.48			21	3
1.4	SSBQAM	1	0	17.68	17.83	17.80				
1.4	SSBQAM	1	3	17.70	17.78	17.70				
1.4	SSBQAM	1	5	17.64	17.62	17.74				
1.4	SSBQAM	3	0	17.51	17.67	17.51			19	5
1.4	SSBQAM	3	1	17.41	17.69	17.43				
1.4	SSBQAM	3	3	17.59	17.68	17.68				
1.4	SSBQAM	6	0	17.60	17.54	17.57			19	5

Band 13 Default										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Tune-up Int. (min)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.97	23.01	22.97			24	0
10	QPSK	1	40	22.85	22.85	22.85				
10	QPSK	35	0	22.85	22.85	22.85				
10	QPSK	25	12	21.86	21.86	21.86			23	1
10	QPSK	25	25	21.81	21.81	21.81				
10	HQAM	1	0	21.79	21.79	21.79				
10	HQAM	1	25	21.82	21.82	21.82			23	1
10	HQAM	1	40	21.80	21.80	21.80				
10	HQAM	25	0	20.77	20.77	20.77				
10	HQAM	12	0	20.78	20.78	20.78			22	2
10	HQAM	25	25	20.88	20.88	20.88				
10	HQAM	50	0	20.88	20.88	20.88				
10	HQAM	1	0	20.85	20.85	20.85				
10	HQAM	1	25	21.10	21.10	21.10			22	2
10	HQAM	1	40	20.90	20.90	20.90				
10	HQAM	25	0	19.92	19.92	19.92				
10	HQAM	25	12	19.71	19.71	19.71			21	3
10	HQAM	25	25	19.88						



Band 26 Ant0 Default										
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)										
15	QPSK	1	0	22.68	22.68	22.72	23.5	0		
15	QPSK	1	37	22.68	22.72	22.84				
15	QPSK	1	74	22.68	22.73	22.82				
15	QPSK	3	0	21.63	21.63	21.72	23	0.5		
15	QPSK	3	20	21.69	21.70	21.48				
15	QPSK	3	39	21.63	21.69	21.59				
15	QPSK	3	58	21.69	21.73	21.58				
15	16QAM	1	0	21.87	21.84	21.85	23	0.5		
15	16QAM	1	37	21.85	21.80	21.80				
15	16QAM	1	74	21.86	21.88	21.88				
15	16QAM	3	0	20.81	20.81	20.78	22	1.5		
15	16QAM	3	20	20.81	20.81	20.81				
15	16QAM	3	39	20.73	20.87	20.85				
15	16QAM	3	58	20.84	20.75	20.87				
15	16QAM	1	28	20.88	20.83	20.86	22	1.5		
15	16QAM	1	37	20.83	20.89	20.89				
15	16QAM	1	74	20.77	20.77	20.81				
15	16QAM	3	0	19.60	19.74	19.59	21	2.5		
15	16QAM	3	20	19.54	19.61	19.55				
15	16QAM	3	39	19.57	19.63	19.54				
15	16QAM	3	58	19.62	19.62	19.62				
15	16QAM	1	0	17.77	17.83	17.77	19	4.5		
15	16QAM	1	37	17.78	17.75	17.88				
15	16QAM	1	74	17.80	18.04	17.81				
15	16QAM	3	0	17.88	17.76	17.57	19	4.5		
15	16QAM	3	20	17.88	17.76	17.57				
15	16QAM	3	39	17.87	17.79	17.84				
15	16QAM	3	58	17.87	17.79	17.84				
15	16QAM	1	0	17.50	17.74	17.80	19	4.5		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.62	22.62	22.77	23.5	0		
15	QPSK	1	37	22.62	22.62	22.77				
15	QPSK	1	74	22.62	22.62	22.67				
15	QPSK	3	0	21.63	21.75	21.58	23	0.5		
15	QPSK	3	20	21.69	21.81	21.52				
15	QPSK	3	39	21.63	21.67	21.41				
15	QPSK	3	58	21.63	21.63	21.48				
15	16QAM	1	26	21.48	21.48	21.51	23	0.5		
15	16QAM	1	0	21.48	21.48	21.52				
15	16QAM	1	37	21.48	21.48	21.52				
15	16QAM	1	74	21.48	21.48	21.52				
15	16QAM	3	0	20.82	20.79	20.80	22	1.5		
15	16QAM	3	20	20.82	20.79	20.80				
15	16QAM	3	39	20.82	20.79	20.80				
15	16QAM	3	58	20.82	20.79	20.80				
15	16QAM	1	0	20.82	20.78	20.87	22	1.5		
15	16QAM	1	37	20.82	20.78	20.87				
15	16QAM	1	74	20.79	20.72	20.87				
15	16QAM	3	0	19.62	19.60	19.66	21	2.5		
15	16QAM	3	20	19.62	19.60	19.66				
15	16QAM	3	39	19.62	19.60	19.66				
15	16QAM	3	58	19.62	19.60	19.66				
15	16QAM	1	0	19.36	19.66	19.45	19	4.5		
15	16QAM	1	37	19.36	19.66	19.45				
15	16QAM	1	74	19.36	19.66	19.45				
15	16QAM	3	0	17.53	17.79	17.81	19	4.5		
15	16QAM	3	20	17.53	17.79	17.81				
15	16QAM	3	39	17.53	17.79	17.81				
15	16QAM	3	58	17.53	17.79	17.81				
15	16QAM	1	0	17.40	17.68	17.48	19	4.5		
15	16QAM	1	37	17.40	17.68	17.48				
15	16QAM	1	74	17.40	17.68	17.48				
15	16QAM	3	0	17.40	17.68	17.48				
15	16QAM	3	20	17.40	17.68	17.48				
15	16QAM	3	39	17.40	17.68	17.48				
15	16QAM	3	58	17.40	17.68	17.48				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.57	22.70	22.73	23.5	0		
15	QPSK	1	37	22.54	22.64	22.70				
15	QPSK	1	74	22.54	22.64	22.67				
15	QPSK	3	0	21.61	21.74	21.59	23	0.5		
15	QPSK	3	20	21.63	21.61	21.40				
15	QPSK	3	39	21.61	21.61	21.48				
15	QPSK	3	58	21.61	21.61	21.44				
15	16QAM	1	26	21.48	21.48	21.51	23	0.5		
15	16QAM	1	0	21.48	21.48	21.52				
15	16QAM	1	37	21.48	21.48	21.52				
15	16QAM	1	74	21.48	21.48	21.52				
15	16QAM	3	0	20.82	20.79	20.80	22	1.5		
15	16QAM	3	20	20.82	20.79	20.80				
15	16QAM	3	39	20.82	20.79	20.80				
15	16QAM	3	58	20.82	20.79	20.80				
15	16QAM	1	0	20.82	20.78	20.87	22	1.5		
15	16QAM	1	37	20.82	20.78	20.87				
15	16QAM	1	74	20.79	20.72	20.87				
15	16QAM	3	0	19.62	19.60	19.66	21	2.5		
15	16QAM	3	20	19.62	19.60	19.66				
15	16QAM	3	39	19.62	19.60	19.66				
15	16QAM	3	58	19.62	19.60	19.66				
15	16QAM	1	0	19.36	19.66	19.45	19	4.5		
15	16QAM	1	37	19.36	19.66	19.45				
15	16QAM	1	74	19.36	19.66	19.45				
15	16QAM	3	0	17.53	17.79	17.81	19	4.5		
15	16QAM	3	20	17.53	17.79	17.81				
15	16QAM	3	39	17.53	17.79	17.81				
15	16QAM	3	58	17.53	17.79	17.81				
15	16QAM	1	0	17.40	17.68	17.48	19	4.5		
15	16QAM	1	37	17.40	17.68	17.48				
15	16QAM	1	74	17.40	17.68	17.48				
15	16QAM	3	0	17.40	17.68	17.48				
15	16QAM	3	20	17.40	17.68	17.48				
15	16QAM	3	39	17.40	17.68	17.48				
15	16QAM	3	58	17.40	17.68	17.48				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.57	22.70	22.73	23.5	0		
15	QPSK	1	37	22.54	22.64	22.70				
15	QPSK	1	74	22.54	22.64	22.67				
15	QPSK	3	0	21.61	21.74	21.59	23	0.5		
15	QPSK	3	20	21.63	21.61	21.40				
15	QPSK	3	39	21.61	21.61	21.48				
15	QPSK	3	58	21.61	21.61	21.44				
15	16QAM	1	26	21.48	21.48	21.51	23	0.5		
15	16QAM	1	0	21.48	21.48	21.52				
15	16QAM	1	37	21.48	21.48	21.52				
15	16QAM	1	74	21.48	21.48	21.52				
15	16QAM	3	0	20.82	20.79	20.80	22	1.5		
15	16QAM	3	20	20.82	20.79	20.80				
15	16QAM	3	39	20.82	20.79	20.80				
15	16QAM	3	58	20.82	20.79	20.80				
15	16QAM	1	0	20.82	20.78	20.87	22	1.5		
15	16QAM	1	37	20.82	20.78	20.87				
15	16QAM	1	74	20.79	20.72	20.87				
15	16QAM	3	0	19.62	19.60	19.66	21	2.5		
15	16QAM	3	20	19.62	19.60	19.66				
15	16QAM	3	39	19.62	19.60	19.66				
15	16QAM	3	58	19.62	19.60	19.66				
15	16QAM	1	0	19.36	19.66	19.45	19	4.5		
15	16QAM	1	37	19.36	19.66	19.45				
15	16QAM	1	74	19.36	19.66	19.45				
15	16QAM	3	0	17.53	17.79	17.81	19	4.5		
15	16QAM	3	20							



Band 38 Ant0 DS13										
RF [MHz]	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Time-up (min)	MPR (dB)
Channel										
Frequency (MHz)										
37650	38000	38550								
20	QPSK	1	0	19.82	19.85	19.78				
20	QPSK	1	40	19.88	19.90	19.75	20.6	0		
20	QPSK	1	80	19.94	19.94	19.75				
20	QPSK	50	0	19.58	19.85	19.70				
20	QPSK	50	24	19.65	19.87	19.80	20.6	0		
20	QPSK	50	50	19.58	19.87	19.60				
20	QPSK	100	0	19.60	19.75	19.69				
20	16QAM	1	0	19.82	19.82	19.81				
20	16QAM	1	40	19.82	19.80	19.85	20.6	0		
20	16QAM	1	80	19.49	19.77	19.72				
20	16QAM	50	0	19.41	19.54	19.44				
20	16QAM	50	24	19.46	19.73	19.78	20.6	0		
20	16QAM	50	50	19.41	19.54	19.44				
20	16QAM	100	0	19.55	19.59	19.53				
20	8QAM	1	0	19.49	19.61	19.67				
20	8QAM	1	40	19.39	19.59	19.60	20.6	0		
20	8QAM	1	80	19.52	19.57	19.73				
20	8QAM	50	0	19.44	19.59	19.50				
20	8QAM	50	24	19.49	19.65	19.61	20.6	0		
20	8QAM	50	50	19.48	19.64	19.60				
20	8QAM	100	0	19.55	19.55	19.46				
20	25QAM	1	0	18.19	18.26	18.21				
20	25QAM	1	40	18.18	18.24	18.25	19	1.8		
20	25QAM	1	80	18.07	18.07	18.29				
20	25QAM	50	0	18.13	18.17	17.98				
20	25QAM	50	24	18.05	18.22	18.02	19	1.8		
20	25QAM	50	50	18.12	18.16	18.16				
20	25QAM	100	0	17.95	18.21	18.08				
Channel										
Frequency (MHz)										
2377.5	2505	2632.5								
15	QPSK	1	0	19.74	19.74	19.70				
15	QPSK	1	40	19.54	19.64	19.61	20.6	0		
15	QPSK	1	74	19.52	19.67	19.53				
15	QPSK	36	0	19.65	19.65	19.64				
15	QPSK	36	20	19.52	19.55	19.46	20.6	0		
15	QPSK	36	50	19.57	19.59	19.46				
15	QPSK	36	80	19.51	19.64	19.54				
15	16QAM	1	0	19.52	19.58	19.62				
15	16QAM	1	40	19.52	19.55	19.61	20.6	0		
15	16QAM	1	74	19.38	19.65	19.56				
15	16QAM	36	0	19.35	19.42	19.47				
15	16QAM	36	20	19.43	19.63	19.57	20.6	0		
15	16QAM	36	50	19.51	19.67	19.58				
15	16QAM	75	0	19.51	19.47	19.47				
15	8QAM	1	0	19.45	19.55	19.59				
15	8QAM	1	37	19.33	19.53	19.49	20.6	0		
15	8QAM	36	0	19.44	19.46	19.46				
15	8QAM	36	20	19.30	19.46	19.55				
15	8QAM	36	50	19.45	19.50	19.52	20.6	0		
15	8QAM	75	0	19.40	19.45	19.34				
15	25QAM	1	0	18.09	18.15	18.17				
15	25QAM	1	37	18.09	18.15	18.17	19	1.8		
15	25QAM	1	74	18.31	18.33	18.26				
15	25QAM	36	0	18.05	18.05	18.06				
15	25QAM	36	20	17.90	18.16	17.86	19	1.8		
15	25QAM	36	50	18.03	18.21	18.10				
15	25QAM	75	0	17.82	18.09	17.94				
Channel										
Frequency (MHz)										
37650	38000	38550								
10	QPSK	1	0	19.75	19.85	19.75				
10	QPSK	1	25	19.61	19.85	19.85	20.6	0		
10	QPSK	1	50	19.51	19.86	19.86				
10	QPSK	25	0	19.44	19.74	19.65				
10	QPSK	25	12	19.53	19.59	19.66	20.6	0		
10	QPSK	25	37	19.41	19.76	19.64				
10	QPSK	50	0	19.49	19.84	19.82				
10	16QAM	1	0	19.63	19.67	19.69				
10	16QAM	1	25	19.46	19.51	19.55	20.6	0		
10	16QAM	1	49	19.35	19.60	19.62				
10	16QAM	25	0	19.33	19.42	19.42				
10	16QAM	25	12	19.35	19.60	19.70	20.6	0		
10	16QAM	25	37	19.47	19.67	19.50				
10	8QAM	1	0	19.49	19.54	19.48				
10	8QAM	1	12	19.40	19.53	19.61	20.6	0		
10	8QAM	1	25	19.38	19.46	19.51				
10	8QAM	25	0	19.20	19.50	19.48				
10	8QAM	25	12	19.20	19.45	19.48	20.6	0		
10	8QAM	25	37	19.44	19.46	19.36				
10	25QAM	1	0	18.08	18.21	18.08				
10	25QAM	1	25	18.03	18.14	18.16	19	1.8		
10	25QAM	1	49	18.25	18.40	18.22				
10	25QAM	25	0	18.05	18.07	17.87				
10	25QAM	25	12	17.86	18.14	17.85	19	1.8		
10	25QAM	25	37	18.05	18.25	18.10				
10	25QAM	50	0	17.90	18.13	17.98				
Channel										
Frequency (MHz)										
2377.5	2505	2632.5								
5	QPSK	1	0	19.74	19.76	19.67				
5	QPSK	1	12	19.55	19.57	19.71	20.6	0		
5	QPSK	1	24	19.60	19.59	19.49				
5	QPSK	12	0	19.41	19.76	19.65				
5	QPSK	12	6	19.45	19.53	19.54	20.6	0		
5	QPSK	12	13	19.61	19.56	19.59				
5	QPSK	25	0	19.56	19.60	19.59				
5	16QAM	1	0	19.32	19.51	19.62				
5	16QAM	1	12	19.46	19.48	19.50	20.6	0		
5	16QAM	1	24	19.40	19.67	19.59				
5	16QAM	12	0	19.36	19.42	19.38				
5	16QAM	12	6	19.49	19.63	19.49	20.6	0		
5	16QAM	12	13	19.49	19.63	19.49				
5	16QAM	25	0	19.49	19.46	19.46				
5	8QAM	1	0	19.46	19.57	19.53				
5	8QAM	1	12	19.29	19.55	19.46	20.6	0		
5	8QAM	1	24	19.45	19.51	19.60				
5	8QAM	12	0	19.41	19.44	19.44				
5	8QAM	12	7	19.41	19.45	19.48	20.6	0		
5	8QAM	12	13	19.43	19.60	19.44				
5	8QAM	25	0	19.44	19.39	19.33				
5	25QAM	1	0	18.12	18.16	18.13				
5	25QAM	1	12	18.12	18.12	18.13	19	1.8		
5	25QAM	1	24	18.31	18.40	18.19				
5	25QAM	12	0	17.99	18.11	17.86				
5	25QAM	12	7	18.05	18.15	17.92	19	1.8		
5	25QAM	12	13	17.99	18.14	18.12				
5	25QAM	25	0	17.81	18.16	17.94				

Band 41 Ant0 DS13										
RF [MHz]	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Time-up (min)	MPR (dB)
Channel										
Frequency (MHz)										
39750	40180	40610	41055	41460						
20	QPSK	1	0	19.91	19.93	19.98	19.86	19.89		
20	QPSK	1	40	19.74	19.74	19.82	19.84	19.90	20.6	0
20	QPSK	1	80	19.71	19.74	19.82	19.84	19.72		
20	QPSK	50	0	19.61	19.68	19.30	19.78	19.83		
20	QPSK	50	24	19.31	19.76	19.80	19.74	19.86	20.6	0
20	QPSK	50	50	19.65	19.83	19.73	19.70	19.72		
20	QPSK	100	0	19.68	19.71	19.69	19.81	19.82		
20	16QAM	1	0	19.67	19.62	19.67	19.84	19.84		
20	16QAM	1	40	19.62	19.66	19.69	19.71	19.70	20.6	0
20	16QAM	1	80	19.63	19.62	19.66	19.67	19.78		
20	16QAM	50	0	19.50	19.63	19.53	19.60	19.77		
20	16QAM	50	24	19.62	19.60	19.84	19.84	19.86	20.6	0
20	16QAM	50	50	19.33	19.73	19.83	19.83	19.76		
20	16QAM	100	0	19.60	19.63	19.64	19.66	19.70		
20	8QAM	1	0	19.57	19.64	19.75	19.79	19.78		
20	8QAM	1	40	19.54	19.56	19.59	19.79	19.68	20.6	0
20	8QAM	1	80	19.68	19.59	19.70	19.69	19.84		
20	8QAM	50	0	19.52	19.60	19.66	19.76	19.76		
20	8QAM	50	24	19.54	19.57	19.57	19.75	19.72	20.6	0
20	8QAM	50	50	19.63	19.59	19.77	19.67	19.66		
20	8QAM	100	0	19.61	19.59	19.67	19.69	19.55		
20	25QAM	1	0	18.17	18.30	18.41	18.31	18.18		
20	25QAM	1	40	18.25	18.32	18.34	18.41	18.27	19	1.8
20	25QAM	1	80	18.34	18.34	18.34	18.41	18.37		
20	25QAM	50	0	18.23	18.29	18.29	18.18	18.18		
20	25QAM	50	24	18.20	18.20	18.37	18.26	18.15	19	1.8
20	25QAM	5								



COMBOS Ant		Default						
TR Channel	TR Channel	TR Channel	TR Channel	TR Channel	TR Channel			
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)			
OPM 1 Tx Ant	33.88	33.84	33.81	33.80	33.86	33.84	33.81	33.80
OPM 2 Tx Ant	35.15	35.20	35.17	35.10	35.16	35.20	35.17	35.10
OPM 3 Tx Ant	36.42	36.34	36.34	36.30	36.36	36.40	36.38	36.34
EDGE 1 Tx Ant	25.82	25.93	25.86	25.80	25.82	25.93	25.86	25.80
EDGE 2 Tx Ant	23.24	23.13	23.09	23.00	23.09	23.13	23.09	23.00
EDGE 3 Tx Ant	23.24	23.41	23.27	23.30	23.08	23.15	23.01	23.24
EDGE 4 Tx Ant	21.08	21.01	21.00	21.00	21.05	21.01	21.00	21.00

  

COMBOS Ant		EDGE						
TR Channel	TR Channel	TR Channel	TR Channel	TR Channel	TR Channel			
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)			
OPM 1 Tx Ant	25.82	25.92	25.82	25.82	25.86	25.82	25.82	25.82
OPM 2 Tx Ant	23.24	23.86	23.24	23.76	23.80	23.86	23.77	23.70
OPM 3 Tx Ant	21.03	21.96	21.92	22.80	21.97	21.96	21.96	21.84
EDGE 1 Tx Ant	24.03	24.20	24.70	25.00	24.02	24.02	24.02	24.00
EDGE 2 Tx Ant	21.08	21.21	21.00	21.00	21.05	21.21	21.00	21.00
EDGE 3 Tx Ant	21.74	21.86	21.70	22.00	21.75	21.86	21.70	21.86
EDGE 4 Tx Ant	20.08	20.15	20.01	21.00	17.08	17.15	17.01	18.00

  

WCDMA II Ant		WCDMA IV Ant				WCDMA V Ant							
TR Channel	TR Channel	TR Channel	TR Channel	TR Channel	TR Channel	TR Channel	TR Channel	TR Channel	TR Channel				
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)				
SDPP Pair 0	AMR 12.2kbit	15.83	15.87	15.85	15.70	15.20	15.30	15.11	17.20	22.60	22.60	22.60	23.80
SDPP Pair 1	AMR 12.2kbit	15.83	15.87	15.85	15.70	15.20	15.30	15.11	17.20	22.60	22.60	22.60	23.80
SDPP Pair 2	HSDPA Subsect1	14.85	14.99	14.74	15.70	15.44	15.70	15.45	16.20	21.03	22.03	21.77	22.80
SDPP Pair 3	HSDPA Subsect2	14.83	14.77	14.77	15.70	15.20	15.30	15.38	16.20	21.04	21.79	21.70	22.80
SDPP Pair 4	HSDPA Subsect3	14.22	14.34	14.25	15.20	14.83	14.60	14.84	15.70	21.21	21.20	21.10	22.80
SDPP Pair 5	HSDPA Subsect4	14.03	14.34	14.22	15.20	14.60	14.60	14.61	15.70	21.20	21.20	21.10	22.80
SDPP Pair 6	DC-HSDPA Subsect1	14.80	14.88	14.88	15.70	15.41	15.41	15.37	16.20	21.80	21.86	21.70	22.80
SDPP Pair 7	DC-HSDPA Subsect2	14.20	14.32	14.70	15.20	14.20	14.20	14.20	15.70	21.20	21.20	21.10	22.80
SDPP Pair 8	DC-HSDPA Subsect3	14.17	14.32	14.10	15.20	14.62	14.50	14.76	15.70	21.19	21.10	21.08	22.80
SDPP Pair 9	DC-HSDPA Subsect4	14.32	14.31	14.27	15.20	14.90	15.04	15.02	15.70	21.18	21.20	21.08	22.80
SDPP Pair 10	HSPA Subsect1	14.94	14.88	14.92	15.70	15.90	15.19	15.20	21.80	21.80	21.80	22.80	
SDPP Pair 11	HSPA Subsect2	12.80	12.82	12.89	13.70	13.41	13.47	13.30	14.20	19.01	19.80	19.70	20.80
SDPP Pair 12	HSPA Subsect3	13.72	13.81	13.74	14.70	14.33	14.48	14.34	15.20	20.01	20.70	20.60	21.80
SDPP Pair 13	HSPA Subsect4	12.87	12.71	12.83	13.70	13.25	13.31	13.30	14.20	19.81	19.80	19.70	20.80
SDPP Pair 14	HSPA Subsect5	14.24	14.75	14.56	15.70	15.15	15.31	15.00	16.20	21.04	21.70	21.60	22.80



Band 2 Ant1 DS13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Frac.	Power Ch./Frac.	Power Ch./Frac.	Power Ch./Frac.	Turn-up (dB)	MFR (dB)	
Channel										
Frequency (MHz)										
20	QPSK	1	0	1880	1880	1900				
20	QPSK	1	49	1884	1884	1889	17.8	0		
20	QPSK	1	99	1888	1888	1893				
20	QPSK	8	24	1844	1844	1849				
20	QPSK	50	24	1836	1836	1843	17.8	0		
20	QPSK	50	50	1838	1838	1843				
20	QPSK	50	74	1840	1840	1845				
20	QPSK	50	99	1842	1842	1847				
20	QPSK	50	124	1844	1844	1849				
20	QPSK	50	149	1846	1846	1851	17.8	0		
20	QPSK	50	174	1848	1848	1853				
20	QPSK	50	199	1850	1850	1855				
20	QPSK	50	224	1852	1852	1857	17.8	0		
20	QPSK	50	249	1854	1854	1859				
20	QPSK	50	274	1856	1856	1861				
20	QPSK	50	299	1858	1858	1863				
20	QPSK	50	324	1860	1860	1865				
20	QPSK	50	349	1862	1862	1867	17.8	0		
20	QPSK	50	374	1864	1864	1869				
20	QPSK	50	399	1866	1866	1871				
20	QPSK	50	424	1868	1868	1873				
20	QPSK	50	449	1870	1870	1875	17.8	0		
20	QPSK	50	474	1872	1872	1877				
20	QPSK	50	499	1874	1874	1879				
20	QPSK	50	524	1876	1876	1881				
20	QPSK	50	549	1878	1878	1883				
20	QPSK	50	574	1880	1880	1885	17.8	0		
20	QPSK	50	599	1882	1882	1887				
20	QPSK	50	624	1884	1884	1889				
20	QPSK	50	649	1886	1886	1891				
20	QPSK	50	674	1888	1888	1893				
20	QPSK	50	699	1890	1890	1895	17.8	0		
20	QPSK	50	724	1892	1892	1897				
20	QPSK	50	749	1894	1894	1899				
20	QPSK	50	774	1896	1896	1901				
20	QPSK	50	799	1898	1898	1903				
20	QPSK	50	824	1900	1900	1905	17.8	0		
20	QPSK	50	849	1902	1902	1907				
20	QPSK	50	874	1904	1904	1909				
20	QPSK	50	899	1906	1906	1911				
20	QPSK	50	924	1908	1908	1913				
20	QPSK	50	949	1910	1910	1915	17.8	0		
20	QPSK	50	974	1912	1912	1917				
20	QPSK	50	999	1914	1914	1919				
20	QPSK	50	1024	1916	1916	1921				
20	QPSK	50	1049	1918	1918	1923				
20	QPSK	50	1074	1920	1920	1925	17.8	0		
20	QPSK	50	1099	1922	1922	1927				
20	QPSK	50	1124	1924	1924	1929				
20	QPSK	50	1149	1926	1926	1931				
20	QPSK	50	1174	1928	1928	1933				
20	QPSK	50	1199	1930	1930	1935	17.8	0		
20	QPSK	50	1224	1932	1932	1937				
20	QPSK	50	1249	1934	1934	1939				
20	QPSK	50	1274	1936	1936	1941				
20	QPSK	50	1299	1938	1938	1943				
20	QPSK	50	1324	1940	1940	1945	17.8	0		
20	QPSK	50	1349	1942	1942	1947				
20	QPSK	50	1374	1944	1944	1949				
20	QPSK	50	1399	1946	1946	1951				
20	QPSK	50	1424	1948	1948	1953				
20	QPSK	50	1449	1950	1950	1955	17.8	0		
20	QPSK	50	1474	1952	1952	1957				
20	QPSK	50	1499	1954	1954	1959				
20	QPSK	50	1524	1956	1956	1961				
20	QPSK	50	1549	1958	1958	1963				
20	QPSK	50	1574	1960	1960	1965	17.8	0		
20	QPSK	50	1599	1962	1962	1967				
20	QPSK	50	1624	1964	1964	1969				
20	QPSK	50	1649	1966	1966	1971				
20	QPSK	50	1674	1968	1968	1973				
20	QPSK	50	1699	1970	1970	1975	17.8	0		
20	QPSK	50	1724	1972	1972	1977				
20	QPSK	50	1749	1974	1974	1979				
20	QPSK	50	1774	1976	1976	1981				
20	QPSK	50	1799	1978	1978	1983				
20	QPSK	50	1824	1980	1980	1985	17.8	0		
20	QPSK	50	1849	1982	1982	1987				
20	QPSK	50	1874	1984	1984	1989				
20	QPSK	50	1899	1986	1986	1991				
20	QPSK	50	1924	1988	1988	1993				
20	QPSK	50	1949	1990	1990	1995	17.8	0		
20	QPSK	50	1974	1992	1992	1997				
20	QPSK	50	1999	1994	1994	1999				
20	QPSK	50	2024	1996	1996	2001				
20	QPSK	50	2049	1998	1998	2003				
20	QPSK	50	2074	2000	2000	2005	17.8	0		
20	QPSK	50	2099	2002	2002	2007				
20	QPSK	50	2124	2004	2004	2009				
20	QPSK	50	2149	2006	2006	2011				
20	QPSK	50	2174	2008	2008	2013				
20	QPSK	50	2199	2010	2010	2015	17.8	0		
20	QPSK	50	2224	2012	2012	2017				
20	QPSK	50	2249	2014	2014	2019				
20	QPSK	50	2274	2016	2016	2021				
20	QPSK	50	2299	2018	2018	2023				
20	QPSK	50	2324	2020	2020	2025	17.8	0		
20	QPSK	50	2349	2022	2022	2027				
20	QPSK	50	2374	2024	2024	2029				
20	QPSK	50	2399	2026	2026	2031				
20	QPSK	50	2424	2028	2028	2033				
20	QPSK	50	2449	2030	2030	2035	17.8	0		
20	QPSK	50	2474	2032	2032	2037				
20	QPSK	50	2499	2034	2034	2039				
20	QPSK	50	2524	2036	2036	2041				
20	QPSK	50	2549	2038	2038	2043				
20	QPSK	50	2574	2040	2040	2045				
20	QPSK	50	2599	2042	2042	2047	17.8	0		
20	QPSK	50	2624	2044	2044	2049				
20	QPSK	50	2649	2046	2046	2051				
20	QPSK	50	2674	2048	2048	2053				
20	QPSK	50	2699	2050	2050	2055				
20	QPSK	50	2724	2052	2052	2057				
20	QPSK	50	2749	2054	2054	2059	17.8	0		
20	QPSK	50	2774	2056	2056	2061				
20	QPSK	50	2799	2058	2058	2063				
20	QPSK	50	2824	2060	2060	2065				
20	QPSK	50	2849	2062	2062	2067				
20	QPSK	50	2874	2064	2064	2069				
20	QPSK	50	2899	2066	2066	2071				
20	QPSK	50	2924	2068	2068	2073				
20	QPSK	50	2949	2070	2070	2075	17.8	0		
20	QPSK	50	2974	2072	2072	2077				
20	QPSK	50	2999	2074	2074	2079				
20	QPSK	50	3024	2076	2076	2081				
20	QPSK	50	3049	2078	2078	2083				
20	QPSK	50	3074	2080	2080	2085	17.8	0		
20	QPSK	50	3099	2082	2082	2087				
20	QPSK	50	3124	2084	2084	2089				
20	QPSK	50	3149	2086	2086	2091				
20	QPSK	50	3174	2088	2088	2093				
20	QPSK	50	3199	2090	2090	2095	17.8	0		
20	QPSK	50	3224	2092	2092	2097				
20	QPSK	50	3249	2094	2094	2099				
20	QPSK	50	3274	2096	2096	2101				
20	QPSK	50	3299	2098	2098	2103				
20	QPSK	50	3324	2100	2100	2105	17.8	0		
20	QPSK	50	3349	2102	2102	2107				
20	QPSK	50	3374	2104	2104	2109				
20	QPSK	50	3399	2106	2106	2111				
20	QPSK	50	3424	2108	2108	2113				
20	QPSK	50	3449	2110	2110	2115	17.8	0		
20	QPSK	50	3474	2112	2112	2117				
20	QPSK	50	3499	2114	2114	2119				
20	QPSK	50	3524	2116	2116	2121				
20	QPSK	50	3549	2118	2118	2123				
20	QPSK	50	3574	2120	2120	2125				
20	QPSK	50	3599	2122	2122	2127	17.8	0		
20	QPSK	50	3624	2124	2124	2129				
20	QPSK	50	3649	2126	2126	2131				
20	QPSK	50	3674	2128	2128	2133				
20	QPSK	50	3699	2130	2130	2135	17.8	0		
20	QPSK	50	3724	2132	2132	2137				
20	QPSK	50	3749	2134	2134					



Band 12 Ant1 Default										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
793.5 797.5 791.5										
10	QPSK	1	0	22.22	22.22	22.22				
10	QPSK	1	35	22.23	22.23	22.24	24	0		
10	QPSK	1	40	22.22	22.28	22.27				
10	QPSK	35	0	21.46	21.46	21.46				
10	QPSK	35	12	21.41	21.48	21.41	23	1		
10	QPSK	35	25	21.40	21.53	21.30				
10	QPSK	35	0	21.46	21.47	21.38				
10	HQAM	1	0	21.47	21.54	21.39				
10	HQAM	1	25	21.34	21.50	21.38	23	1		
10	HQAM	40	0	20.92	20.97	20.95				
10	HQAM	35	0	20.92	20.91	20.49				
10	HQAM	35	12	20.93	20.97	20.45	22	2		
10	HQAM	35	25	20.43	20.55	20.42				
10	HQAM	50	0	20.18	20.50	20.24				
10	HQAM	1	0	20.96	20.96	20.55				
10	HQAM	1	35	20.73	20.71	20.50	22	2		
10	HQAM	1	40	20.36	20.58	20.38				
10	HQAM	35	0	19.46	19.40	19.33				
10	HQAM	35	12	19.42	19.48	19.39	21	3		
10	HQAM	35	25	19.34	19.47	19.33				
10	HQAM	50	0	19.34	19.37	19.43				
10	SSBQAM	1	0	17.57	17.75	17.64				
10	SSBQAM	1	35	17.48	17.50	17.63	19	5		
10	SSBQAM	1	40	17.56	17.55	17.63				
10	SSBQAM	35	0	17.42	17.57	17.43				
10	SSBQAM	35	12	17.53	17.51	17.48	19	5		
10	SSBQAM	35	25	17.54	17.51	17.49				
10	SSBQAM	50	0	17.27	17.39	17.30				
Channel										
Frequency (MHz)										
707.5 707.5 713.5										
5	QPSK	1	0	22.22	22.25	22.12				
5	QPSK	1	12	22.16	22.23	22.26	24	0		
5	QPSK	1	24	22.20	22.23	22.15				
5	QPSK	12	0	21.36	21.53	21.29				
5	QPSK	12	13	21.36	21.40	21.25	23	1		
5	QPSK	25	0	21.14	21.23	21.11				
5	HQAM	1	0	21.44	21.51	21.33				
5	HQAM	1	12	21.24	21.30	21.31	23	1		
5	HQAM	1	12	21.24	21.41	21.41				
5	HQAM	12	0	20.48	20.48	20.40	22	2		
5	HQAM	12	7	20.33	20.28	20.40				
5	HQAM	12	13	20.46	20.46	20.47				
5	HQAM	35	0	20.08	20.41	20.21	22	2		
5	HQAM	1	0	20.46	20.40	20.38				
5	HQAM	1	24	20.25	20.43	20.23	22	2		
5	HQAM	12	0	19.32	19.41	19.28				
5	HQAM	12	7	19.38	19.43	19.33				
5	HQAM	12	13	19.24	19.35	19.21	21	3		
5	HQAM	25	0	19.11	19.23	19.30				
5	SSBQAM	1	0	17.43	17.52	17.60				
5	SSBQAM	1	12	17.38	17.45	17.49	19	5		
5	SSBQAM	1	24	17.56	17.51	17.61				
5	SSBQAM	12	0	17.37	17.45	17.38				
5	SSBQAM	12	7	17.37	17.30	17.28	19	5		
5	SSBQAM	12	13	17.44	17.42	17.43				
5	SSBQAM	35	0	17.15	17.29	17.17				
Channel										
Frequency (MHz)										
2307.5 2309.5 2317.5										
1.4	QPSK	1	0	22.21	22.30	22.15				
1.4	QPSK	1	8	22.13	22.27	22.25	24	0		
1.4	QPSK	1	14	22.16	22.25	22.22				
1.4	QPSK	8	0	21.41	21.48	21.33				
1.4	QPSK	8	4	21.26	21.31	21.38	23	1		
1.4	QPSK	8	7	21.38	21.46	21.22				
1.4	QPSK	16	0	21.20	21.27	21.07				
1.4	HQAM	1	0	21.43	21.41	21.26				
1.4	HQAM	1	8	21.43	21.42	21.23	23	1		
1.4	HQAM	1	14	21.15	21.37	21.25				
1.4	HQAM	8	0	20.65	20.48	20.44				
1.4	HQAM	8	4	20.27	20.35	20.39	22	2		
1.4	HQAM	8	7	20.37	20.48	20.29				
1.4	HQAM	35	0	20.13	20.38	20.06				
1.4	HQAM	1	0	20.43	20.45	20.44				
1.4	HQAM	1	8	20.65	20.65	20.55	22	2		
1.4	HQAM	1	14	20.23	20.51	20.21				
1.4	HQAM	8	0	19.41	19.34	19.24				
1.4	HQAM	8	4	19.38	19.42	19.31	21	3		
1.4	HQAM	8	7	19.38	19.51	19.26				
1.4	HQAM	16	0	19.21	19.29	19.35				
1.4	SSBQAM	1	0	17.44	17.46	17.41				
1.4	SSBQAM	1	8	17.44	17.45	17.60	19	5		
1.4	SSBQAM	1	14	17.57	17.71	17.49				
1.4	SSBQAM	8	0	17.36	17.45	17.38				
1.4	SSBQAM	8	4	17.35	17.35	17.38	19	5		
1.4	SSBQAM	8	7	17.46	17.41	17.35				
1.4	SSBQAM	35	0	17.20	17.24	17.23				
Channel										
Frequency (MHz)										
2307.5 2307.5 2313.5										
1.4	QPSK	1	0	22.22	22.30	22.15				
1.4	QPSK	1	3	22.16	22.28	22.25	24	0		
1.4	QPSK	1	5	22.22	22.31	22.14				
1.4	QPSK	1	14	22.24	22.30	22.09				
1.4	QPSK	3	1	22.09	22.30	22.24				
1.4	QPSK	3	3	22.21	22.25	22.22				
1.4	QPSK	6	0	21.40	21.53	21.33	23	1		
1.4	HQAM	1	0	21.38	21.40	21.28				
1.4	HQAM	1	3	21.48	21.46	21.25				
1.4	HQAM	1	5	21.18	21.29	21.12	23	1		
1.4	HQAM	3	0	21.33	21.49	21.24				
1.4	HQAM	3	1	21.33	21.48	21.51				
1.4	HQAM	3	3	21.07	21.37	21.28				
1.4	HQAM	6	0	20.55	20.47	20.38	22	2		
1.4	HQAM	1	0	20.29	20.26	20.38				
1.4	HQAM	1	3	20.34	20.44	20.29				
1.4	HQAM	1	6	20.07	20.38	20.19	22	2		
1.4	HQAM	3	0	20.45	20.38	20.40				
1.4	HQAM	3	1	20.61	20.63	20.49				
1.4	HQAM	6	0	19.41	19.35	19.28				
1.4	HQAM	6	0	19.41	19.39	19.28	21	3		
1.4	SSBQAM	1	0	17.46	17.67	17.50				
1.4	SSBQAM	1	3	17.38	17.41	17.46	19	5		
1.4	SSBQAM	1	5	17.60	17.70	17.51				
1.4	SSBQAM	3	0	17.29	17.51	17.35				
1.4	SSBQAM	3	1	17.43	17.28	17.24				
1.4	SSBQAM	3	3	17.41	17.37	17.35				
1.4	SSBQAM	6	0	17.22	17.32	17.16	19	5		

Band 13 Ant1 DSI3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
792										
10	QPSK	1	0	21.02	21.02	21.02				
10	QPSK	1	25	21.02	21.02	21.02	22.3	0		
10	QPSK	1	49	20.94	20.94	20.94				
10	QPSK	35	0	21.03	21.03	21.03				
10	QPSK	35	12	20.93	20.93	20.93	22.3	0		
10	QPSK	35	25	21.00	21.00	21.00				
10	HQAM	1	0	20.97	20.97	20.97				
10	HQAM	1	25	20.89	20.89	20.89	22.3	0		
10	HQAM	1	49	20.95	20.95	20.95				
10	HQAM	35	0	20.97	20.97	20.97				
10	HQAM	35	12	20.51	20.51	20.51	22	0.3		
10	HQAM	35	25	20.70	20.70	20.70				
10	HQAM	50	0	20.71	20.71	20.71				
10	HQAM	1	0	20.76	20.76	20.76				
10	HQAM	1	25	20.94	20.94	20.94	22	0.3		
10	HQAM	1	49	20.94	20.94	20.94				
10	HQAM	35	0	19.70	19.70	19.70				
10	HQAM	35	12	19.64	19.64	19.64	21	1.3		
10	HQAM	35	25	19.72	19.72	19.72				
10	HQAM	50	0	19.62	19.62	19.62				
10	SSBQAM	1	0	17.92	17.92	17.92				
10	SSBQAM	1	25	17.93	17.93	17.93	19	3.3		
10	SSBQAM	1	49	17.95	17.95	17.95				
10	SSBQAM	35	0	17.74	17.74	17.74				
10	SSBQAM	35	12	17.81	17.81	17.81	19	3.3		
10	SSBQAM	35	25	17.88	17.88	17.88				
10	SSBQAM	50	0	17.85	17.85	17.85				
Channel										
Frequency (MHz)										
2330.5 2333.5 2335.5										
5	QPSK	1	0	20.98	21.08	21.04				
5	QPSK	1	12	20.93	20.90	20.98	22.3	0		
5	QPSK	1	24	20.84	20.88	20.82				
5	QPSK	12	0	20.97	21.05	20.94				
5	QPSK	12	13	20.88	20.90	20.82	22.3	0		
5	QPSK	25	0	20.83	20.88	20.81				
5	HQAM	1	0	20.83	20.90	20.89				



Band 26 Ant1 Default										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power Max Ch./Freq.	Power High Ch./Freq.	Turn-up (dB)	MFR (dB)		
Channel										
Frequency (MHz)				8173	8315	8415				
15	QPSK	1	0	22.24	22.26	22.22				
15	QPSK	1	36	22.27	22.37	22.34	23.4	0		
15	QPSK	1	74	22.28	22.34	22.27				
15	QPSK	3	0	21.81	21.81	21.81				
15	QPSK	3	20	21.38	21.40	21.38			23	0.4
15	QPSK	3	56	21.33	21.35	21.33				
15	QPSK	3	92	21.33	21.31	21.33				
15	HQAM	1	0	21.50	21.50	21.50				
15	HQAM	1	37	21.38	21.50	21.39			23	0.4
15	HQAM	1	74	20.96	20.91	20.92				
15	HQAM	3	0	20.59	20.65	20.45				
15	HQAM	3	20	20.41	20.41	20.50				
15	HQAM	3	56	20.43	20.53	20.43			22	1.4
15	HQAM	3	92	20.24	20.53	20.28				
15	HQAM	1	0	20.44	20.57	20.54			22	1.4
15	HQAM	1	37	20.59	20.57	20.54				
15	HQAM	1	74	20.44	20.51	20.32				
15	HQAM	3	0	20.44	20.55	20.44				
15	HQAM	3	20	19.39	19.51	19.38			21	2.4
15	HQAM	3	56	19.42	19.50	19.37				
15	HQAM	3	92	19.20	19.38	19.30				
15	SSBAM	1	0	17.53	17.74	17.60				
15	SSBAM	1	37	17.80	17.80	17.80			19	4.4
15	SSBAM	1	74	17.80	17.81	17.82				
15	SSBAM	3	0	17.48	17.49	17.33				
15	SSBAM	3	20	17.48	17.49	17.33				
15	SSBAM	3	56	17.58	17.45	17.55			19	4.4
15	SSBAM	3	92	17.50	17.42	17.29				
15	SSBAM	1	0	17.32	17.42	17.29				
Channel										
Frequency (MHz)				818	8315	844				
10	QPSK	1	0	22.24	22.30	22.22				
10	QPSK	1	36	22.24	22.34	22.34	23.4	0		
10	QPSK	1	74	22.21	22.24	22.13				
10	QPSK	3	0	21.40	21.36	21.38				
10	QPSK	3	12	21.31	21.31	21.32				
10	QPSK	3	20	21.20	21.21	21.20			23	0.4
10	QPSK	3	56	21.20	21.32	21.15				
10	HQAM	1	0	21.40	21.44	21.27				
10	HQAM	1	26	21.24	21.43	21.32			23	0.4
10	HQAM	1	52	20.45	20.50	20.28				
10	HQAM	3	0	20.41	20.49	20.32				
10	HQAM	3	12	20.34	20.27	20.43			22	1.4
10	HQAM	3	24	20.34	20.30	20.34				
10	HQAM	3	36	20.10	20.30	20.14				
10	HQAM	1	0	20.31	20.48	20.43			22	1.4
10	HQAM	1	26	20.34	20.44	20.44				
10	HQAM	1	52	20.38	20.56	20.18				
10	HQAM	3	0	19.26	19.41	19.29			21	2.4
10	HQAM	3	12	19.31	19.42	19.31				
10	HQAM	3	24	19.39	19.44	19.31				
10	HQAM	3	36	19.16	19.34	19.35				
10	SSBAM	1	0	17.50	17.64	17.53				
10	SSBAM	1	26	17.49	17.49	17.52			19	4.4
10	SSBAM	1	52	17.53	17.44	17.52				
10	SSBAM	3	0	17.35	17.47	17.29				
10	SSBAM	3	12	17.35	17.37	17.29			19	4.4
10	SSBAM	3	24	17.43	17.42	17.48				
10	SSBAM	3	36	17.18	17.31	17.21				
Channel										
Frequency (MHz)				2676	2686	2705				
5	QPSK	1	0	22.24	22.30	22.22				
5	QPSK	1	12	22.16	22.28	22.30	23.4	0		
5	QPSK	1	24	22.16	22.24	22.13				
5	QPSK	12	0	21.39	21.38	21.35				
5	QPSK	12	7	21.20	21.33	21.31			23	0.4
5	QPSK	12	13	21.22	21.22	21.24				
5	QPSK	12	26	21.19	21.31	21.07				
5	HQAM	1	0	21.38	21.42	21.27				
5	HQAM	1	12	21.31	21.31	21.31			23	0.4
5	HQAM	1	24	21.11	21.30	21.31				
5	HQAM	3	0	20.31	20.33	20.31				
5	HQAM	3	12	20.43	20.33	20.38			22	1.4
5	HQAM	3	24	20.34	20.41	20.39				
5	HQAM	3	36	20.34	20.46	20.16				
5	HQAM	1	0	20.34	20.42	20.45			22	1.4
5	HQAM	1	12	20.60	20.53	20.44				
5	HQAM	1	24	20.31	20.46	20.47				
5	HQAM	3	0	19.29	19.40	19.30			21	2.4
5	HQAM	3	12	19.31	19.37	19.32				
5	HQAM	3	24	19.32	19.36	19.33				
5	HQAM	3	36	19.12	19.27	19.25				
5	SSBAM	1	0	17.38	17.45	17.34				
5	SSBAM	1	12	17.38	17.45	17.34			19	4.4
5	SSBAM	1	24	17.58	17.68	17.41				
5	SSBAM	3	0	17.43	17.43	17.46				
5	SSBAM	3	12	17.14	17.33	17.26			19	4.4
5	SSBAM	3	24	17.43	17.42	17.48				
5	SSBAM	3	36	17.21	17.28	17.20				
Channel										
Frequency (MHz)				2676	2686	2705				
3	QPSK	1	0	22.24	22.30	22.22				
3	QPSK	1	8	22.14	22.29	22.30	23.4	0		
3	QPSK	1	16	22.11	22.23	22.23				
3	QPSK	3	0	21.31	21.41	21.38				
3	QPSK	3	8	21.31	21.32	21.35				
3	QPSK	3	16	21.10	21.35	21.26			23	0.4
3	HQAM	1	0	21.37	21.32	21.37				
3	HQAM	1	8	21.40	21.48	21.25			23	0.4
3	HQAM	1	16	21.15	21.37	21.28				
3	HQAM	3	0	20.52	20.55	20.34				
3	HQAM	3	8	20.34	20.38	20.37				
3	HQAM	3	16	20.33	20.48	20.32			22	1.4
3	HQAM	3	24	20.15	20.43	20.17				
3	HQAM	1	0	20.38	20.46	20.43			22	1.4
3	HQAM	1	8	20.59	20.83	20.44				
3	HQAM	1	16	20.34	20.53	20.21				
3	HQAM	3	0	19.37	19.55	19.26				
3	HQAM	3	8	19.38	19.41	19.23			21	2.4
3	HQAM	3	16	19.27	19.38	19.32				
3	HQAM	3	24	19.31	19.33	19.28				
3	SSBAM	1	0	17.47	17.61	17.58				
3	SSBAM	1	8	17.48	17.47	17.54			19	4.4
3	SSBAM	1	16	17.60	17.70	17.43				
3	SSBAM	3	0	17.35	17.42	17.20				
3	SSBAM	3	8	17.32	17.34	17.21			19	4.4
3	SSBAM	3	16	17.50	17.42	17.44				
3	SSBAM	3	24	17.22	17.53	17.16				
Channel										
Frequency (MHz)				8173	8315	8415				
1.4	QPSK	1	0	22.22	22.38	22.21				
1.4	QPSK	1	3	22.11	22.32	22.28	23.4	0		
1.4	QPSK	1	6	22.23	22.30	22.22				
1.4	QPSK	3	0	22.24	22.35	22.23				
1.4	QPSK	3	1	22.12	22.23	22.23				
1.4	QPSK	3	3	22.14	22.31	22.14				
1.4	HQAM	1	0	21.23	21.29	21.28			23	0.4
1.4	HQAM	1	3	21.20	21.31	21.24				
1.4	HQAM	1	6	21.20	21.20	21.32				
1.4	HQAM	3	0	21.40	21.40	21.33			23	0.4
1.4	HQAM	3	3	21.25	21.51	21.32				
1.4	HQAM	3	6	20.47	20.69	20.31			22	1.4
1.4	HQAM	1	0	20.37	20.35	20.41				
1.4	HQAM	3	0	20.37	20.47	20.38				



Band 38 Ant1 DS13										
RF (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Time-up (ms)	MPR (dB)
Channel										
Frequency (MHz)										
37850	38000	38150								
20	QPSK	1	0	18.29	18.37	18.24				
20	QPSK	1	40	18.18	18.24	18.17			19.3	0
20	QPSK	1	80	18.03	18.11	18.03				
20	QPSK	50	0	18.13	18.22	18.29				
20	QPSK	50	24	18.03	18.14	18.22			19.3	0
20	QPSK	50	50	18.23	18.17	18.16				
20	QPSK	100	0	18.14	18.30	18.25				
20	16QAM	1	1	18.11	18.11	18.11				
20	16QAM	1	40	18.08	18.14	18.22			19.3	0
20	16QAM	1	80	18.08	18.20	18.15				
20	16QAM	50	0	18.02	18.06	18.11				
20	16QAM	50	24	18.18	18.13	18.19			19.3	0
20	16QAM	50	50	18.16	18.23	18.33				
20	16QAM	100	0	18.05	18.18	18.14				
20	8QAM	1	0	18.18	18.13	18.14			19.3	0
20	8QAM	1	40	18.02	18.06	18.11				
20	8QAM	1	80	18.11	18.22	18.20				
20	8QAM	50	0	18.13	18.11	18.18			19.3	0
20	8QAM	50	24	18.03	18.14	18.20				
20	8QAM	50	50	18.05	18.02	18.14			19.3	0
20	8QAM	100	0	18.09	18.26	18.11				
20	8QAM	100	0	17.04	18.12	18.10				
20	256QAM	1	0	17.85	17.86	17.83				
20	256QAM	1	40	17.27	17.18	17.24			18	1.3
20	256QAM	1	80	17.02	17.03	17.08				
20	256QAM	50	0	17.11	17.19	17.16			18	1.3
20	256QAM	50	24	17.05	17.02	17.02				
20	256QAM	50	50	17.05	17.10	17.03			18	1.3
20	256QAM	100	0	17.02	17.11	16.91				
Channel										
Frequency (MHz)										
2537.5	2550	2562.5								
15	QPSK	1	0	18.22	18.32	18.19			19.3	0
15	QPSK	1	40	18.13	18.22	18.14				
15	QPSK	1	80	17.92	18.03	17.94				
15	QPSK	50	0	18.03	18.26	18.20				
15	QPSK	50	24	18.22	18.10	18.17			19.3	0
15	QPSK	50	50	18.19	18.08	18.09				
15	QPSK	100	0	18.08	18.28	18.16				
15	16QAM	1	0	17.67	18.11	18.05			19.3	0
15	16QAM	1	40	18.01	18.01	18.01				
15	16QAM	1	80	17.98	18.28	18.04				
15	16QAM	50	0	17.99	17.92	18.12				
15	16QAM	50	24	18.13	18.09	18.14			19.3	0
15	16QAM	50	50	18.08	18.15	18.21				
15	16QAM	100	0	17.98	18.14	18.00				
15	8QAM	1	0	18.01	18.04	18.18			19.3	0
15	8QAM	1	40	17.95	17.88	18.05				
15	8QAM	1	80	17.92	17.95	18.03				
15	8QAM	50	0	17.87	17.85	18.14			19.3	0
15	8QAM	50	24	18.00	17.89	18.02				
15	8QAM	50	50	17.87	17.96	18.03			19.3	0
15	8QAM	100	0	17.87	17.96	18.03				
15	256QAM	1	0	17.07	17.06	17.06				
15	256QAM	1	40	17.04	17.14	17.14			18	1.3
15	256QAM	1	80	17.26	17.32	17.38				
15	256QAM	50	0	18.06	17.06	17.06			18	1.3
15	256QAM	50	24	17.02	17.06	17.06				
15	256QAM	50	50	17.02	17.03	17.03			18	1.3
15	256QAM	100	0	17.04	17.07	17.07				
Channel										
Frequency (MHz)										
2670	2685	2700								
10	QPSK	1	0	18.16	18.29	18.31				
10	QPSK	1	40	18.07	18.16	18.12			19.30	0
10	QPSK	1	80	17.83	17.88	17.88				
10	QPSK	25	0	18.14	18.12	18.34			18.25	18.11
10	QPSK	25	12	18.07	18.02	18.18			18.24	18.06
10	QPSK	25	24	18.12	18.18	18.24			19.3	0
10	QPSK	50	0	18.14	18.03	18.18			18.28	18.11
10	16QAM	1	0	18.05	18.02	18.05				
10	16QAM	1	25	18.03	17.99	18.18			19.3	0
10	16QAM	1	40	18.01	18.08	18.32			18.06	18.13
10	16QAM	25	0	17.83	17.96	18.08				
10	16QAM	25	12	18.12	18.07	18.02			19.3	0
10	16QAM	25	24	18.11	17.99	18.17			18.01	18.01
10	8QAM	1	0	18.17	18.08	18.08			18.01	18.05
10	8QAM	1	25	17.87	17.86	18.08				
10	8QAM	1	40	18.11	18.00	18.20			18.14	18.04
10	8QAM	25	0	17.87	17.80	18.11			18.26	17.96
10	8QAM	25	12	18.07	17.90	18.08			18.06	18.06
10	8QAM	25	24	18.03	18.10	18.28			18.08	17.97
10	8QAM	50	0	17.81	17.84	18.06			18.06	18.06
10	256QAM	1	0	17.24	17.37	17.45			17.19	17.29
10	256QAM	1	25	17.11	17.21	17.20			17.19	17.18
10	256QAM	1	40	17.23	17.38	17.44			17.23	17.28
10	256QAM	25	0	17.04	17.08	17.11			17.06	17.07
10	256QAM	25	12	17.05	16.99	17.04			16.99	16.92
10	256QAM	25	24	16.98	17.02	17.12			17.06	17.02
10	256QAM	50	0	17.02	17.02	17.05			18.03	18.00
Channel										
Frequency (MHz)										
2897.5	2910	2922.5								
5	QPSK	1	0	18.24	18.27	18.00				
5	QPSK	1	12	18.06	18.10	18.13				
5	QPSK	1	24	17.90	18.11	17.98			19.30	0
5	QPSK	12	0	18.06	18.24	18.07				
5	QPSK	12	12	17.89	18.05	18.12			19.3	0
5	QPSK	12	13	18.09	18.12	18.12				
5	16QAM	1	0	18.07	18.17	18.21				
5	16QAM	1	12	18.00	18.12	18.14			19.3	0
5	16QAM	1	24	18.02	18.23	18.10				
5	16QAM	12	0	17.96	17.93	18.11				
5	16QAM	12	12	18.03	18.13	18.28			19.3	0
5	16QAM	12	13	18.04	18.13	18.28				
5	16QAM	25	0	18.02	18.04	18.15			18.03	18.01
5	8QAM	1	0	18.15	18.08	18.08			18.03	18.06
5	8QAM	1	12	17.88	17.88	18.04			18.06	18.06
5	8QAM	1	24	18.01	18.13	18.03			18.05	18.05
5	8QAM	12	0	17.86	18.03	18.09			18.18	17.80
5	8QAM	12	7	17.86	17.83	18.03			18.12	18.00
5	8QAM	12	13	18.05	18.07	18.28			18.11	18.07
5	8QAM	25	0	17.89	17.88	18.03			17.97	17.91
5	256QAM	1	0	17.28	17.27	17.40			17.24	17.33
5	256QAM	1	12	17.11	17.20	17.17			17.18	17.06
5	256QAM	1	24	17.24	17.30	17.40			17.13	17.33
5	256QAM	12	0	17.09	17.03	17.00			17.03	17.03
5	256QAM	12	7	17.05	16.99	17.04			16.99	16.93
5	256QAM	12	13	16.94	16.99	17.06			17.06	16.95
5	256QAM	25	0	16.96	16.98	16.99			18.04	18.04

Band 41 Ant1 DS13										
RF (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Time-up (ms)	MPR (dB)
Channel										
Frequency (MHz)										
3970	4018	4060	4105	4140						
20	QPSK	1	0	18.30	18.37	18.42	18.27	18.32		
20	QPSK	1	40	18.17	18.24	18.24	18.20	18.21		19.3
20	QPSK	1	80	18.03	18.11	18.11	18.24	18.07		
20	QPSK	50	0	18.19	18.22	18.30	18.38	18.17		
20	QPSK	50	24	18.13	18.11	18.26	18.24	18.11		19.3
20	QPSK	50	50	18.22	18.24	18.19	18.20	18.22		
20	QPSK	100	0	18.23	18.18	18.33	18.30	18.17		
20	16QAM	1	1	18.13	18.11	18.18	18.25	18.11		
20	16QAM	1	40	18.08	18.13	18.23	18.30	18.12		19.3
20	16QAM	1	80	18.10	18.17	18.38	18.16	18.16		
20	16QAM	50	0	18.02	18.07	18.05	18.24	18.07		
20	16QAM	50	24	18.18	18.22	18.11	18.17	18.28		19.3
20	16QAM	50	50	18.20	18.18	18.22	18.44	18.23		
20	16QAM	100	0	18.15	18.09	18.22	18.07	18.11		
20	8QAM	1	0	18.25	18.19	18.22	18.15	18.17		19.3
20	8QAM	1	40	18.03	18.06	18.21	18.20	18.06		
20	8QAM	1	80	18.11	18.14	18.20	18.20	18.15		
20	8QAM	50	0	18.05	18.02	18.14	18.20	18.10		19.3
20	8QAM	50	24	18.03	18.02	18.14	18.20	18.15		
20	8QAM	50	50	18.11	18.13	18.32	18.18	18.11		
20	8QAM	100	0	17.85	18.01	18.14	18.08	17.97		
20	256QAM	1	0	17.88	17.42	17.65	17.28	17.43		
20										





Band 48\_FCC Ant2 DSI3

Band	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up Int. (dBm)	MPR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	13.71	13.82	13.73	13.69		
20	QPSK	1	49	13.84	13.88	13.85	13.81	14.8	0
20	QPSK	1	99	13.90	13.92	13.91	13.87		
20	QPSK	50	0	13.81	13.73	13.88	13.69		
20	QPSK	50	24	13.59	13.72	13.52	13.60	14.8	0
20	QPSK	50	50	13.85	13.83	13.59	13.57		
20	QPSK	100	0	13.53	13.59	13.52	13.54		
20	HQDM	1	0	13.52	13.66	13.58	13.48		
20	HQDM	1	49	13.48	13.87	13.82	13.44	14.8	0
20	HQDM	1	99	13.51	13.89	13.52	13.54		
20	HQDM	50	0	13.53	13.94	13.58	13.48		
20	HQDM	50	24	13.49	13.80	13.71	13.52	14.8	0
20	HQDM	50	50	13.57	13.95	13.70	13.52		
20	HQDM	100	0	13.48	13.83	13.59	13.58		
20	HQDM	1	0	13.48	13.58	13.56	13.45		
20	HQDM	1	49	13.59	13.23	13.57	13.39	14.8	0
20	HQDM	1	99	13.59	13.57	13.70	13.60		
20	HQDM	50	0	13.47	13.55	13.45	13.46		
20	HQDM	50	24	13.57	13.59	13.58	13.43	14.8	0
20	HQDM	50	50	13.53	13.82	13.67	13.52		
20	HQDM	100	0	13.43	13.92	13.58	13.43		
20	ZSFGM	1	0	13.42	13.59	13.85	13.45		
20	ZSFGM	1	49	13.59	13.81	13.82	13.48	14.8	0
20	ZSFGM	1	99	13.52	13.83	13.62	13.54		
20	ZSFGM	50	0	13.81	13.83	13.58	13.62		
20	ZSFGM	50	24	13.42	13.70	13.52	13.48	14.8	0
20	ZSFGM	50	50	13.43	13.58	13.59	13.40		
20	ZSFGM	100	0	13.59	13.83	13.48	13.52		
Channel									
Frequency (MHz)									
15	QPSK	1	0	13.58	13.76	13.81	13.68		
15	QPSK	1	49	13.53	13.95	13.82	13.68	14.8	0
15	QPSK	1	74	13.67	13.48	13.55	13.58		
15	QPSK	36	0	13.57	13.72	13.56	13.52		
15	QPSK	36	20	13.53	13.65	13.49	13.57	14.8	0
15	QPSK	36	39	13.56	13.83	13.52	13.57		
15	QPSK	36	59	13.49	13.94	13.59	13.42		
15	HQDM	1	0	13.41	13.57	13.56	13.42		
15	HQDM	1	49	13.42	13.82	13.54	13.38	14.8	0
15	HQDM	1	74	13.57	13.82	13.58	13.42		
15	HQDM	36	0	13.43	13.54	13.45	13.44		
15	HQDM	36	20	13.43	13.66	13.58	13.49		
15	HQDM	36	39	13.51	13.81	13.86	13.49	14.8	0
15	HQDM	75	0	13.40	13.53	13.47	13.46		
15	HQDM	1	0	13.41	13.48	13.41	13.34		
15	HQDM	1	39	13.39	13.47	13.53	13.29	14.8	0
15	HQDM	1	74	13.59	13.46	13.52	13.46		
15	HQDM	36	0	13.38	13.40	13.55	13.52		
15	HQDM	36	20	13.41	13.55	13.48	13.24	14.8	0
15	HQDM	36	39	13.41	13.52	13.81	13.47		
15	ZSFGM	1	0	13.32	13.47	13.48	13.24		
15	ZSFGM	1	39	13.43	13.54	13.52	13.35	14.8	0
15	ZSFGM	1	74	13.47	13.49	13.57	13.57		
15	ZSFGM	36	0	13.52	13.54	13.51	13.43		
15	ZSFGM	36	20	13.31	13.83	13.50	13.39	14.8	0
15	ZSFGM	36	39	13.32	13.47	13.49	13.25		
15	ZSFGM	75	0	13.39	13.45	13.30	13.42		
Channel									
Frequency (MHz)									
10	QPSK	1	0	13.67	13.70	13.64	13.58		
10	QPSK	1	25	13.54	13.81	13.52	13.52	14.8	0
10	QPSK	1	49	13.67	13.48	13.55	13.48		
10	QPSK	25	0	13.47	13.80	13.82	13.62		
10	QPSK	25	12	13.47	13.80	13.56	13.54	14.8	0
10	QPSK	25	25	13.38	13.82	13.55	13.52		
10	QPSK	50	0	13.43	13.57	13.56	13.43		
10	HQDM	1	0	13.48	13.51	13.65	13.39		
10	HQDM	1	25	13.42	13.55	13.56	13.32	14.8	0
10	HQDM	1	49	13.41	13.62	13.55	13.48		
10	HQDM	25	0	13.44	13.68	13.53	13.41		
10	HQDM	25	12	13.41	13.54	13.59	13.40	14.8	0
10	HQDM	25	25	13.47	13.51	13.60	13.48		
10	HQDM	50	0	13.43	13.50	13.47	13.45		
10	HQDM	1	0	13.38	13.47	13.43	13.33		
10	HQDM	1	25	13.38	13.48	13.48	13.31	14.8	0
10	HQDM	1	49	13.43	13.54	13.57	13.51		
10	HQDM	25	0	13.44	13.31	13.50	13.30		
10	HQDM	25	12	13.46	13.49	13.47	13.42	14.8	0
10	HQDM	25	25	13.39	13.50	13.54	13.49		
10	HQDM	50	0	13.39	13.38	13.47	13.39		
10	ZSFGM	1	0	13.34	13.44	13.49	13.34		
10	ZSFGM	1	25	13.47	13.57	13.47	13.37	14.8	0
10	ZSFGM	1	49	13.42	13.57	13.54	13.43		
10	ZSFGM	25	0	13.51	13.56	13.54	13.52		
10	ZSFGM	25	12	13.31	13.58	13.50	13.30	14.8	0
10	ZSFGM	25	25	13.35	13.48	13.54	13.35		
10	ZSFGM	50	0	13.47	13.50	13.46	13.44		
Channel									
Frequency (MHz)									
5	QPSK	1	0	13.60	13.78	13.72	13.58		
5	QPSK	1	12	13.57	13.62	13.56	13.43	14.8	0
5	QPSK	1	24	13.54	13.46	13.51	13.52		
5	QPSK	12	0	13.47	13.71	13.55	13.56		
5	QPSK	12	12	13.45	13.57	13.52	13.52	14.8	0
5	QPSK	25	0	13.85	13.85	13.56	13.54		
5	QPSK	25	0	13.60	13.99	13.56	13.47		
5	HQDM	1	0	13.46	13.80	13.83	13.34		
5	HQDM	1	12	13.45	13.55	13.57	13.36	14.8	0
5	HQDM	1	24	13.41	13.58	13.56	13.46		
5	HQDM	12	0	13.39	13.51	13.53	13.39		
5	HQDM	12	7	13.36	13.49	13.55	13.46	14.8	0
5	HQDM	12	13	13.46	13.59	13.62	13.54		
5	HQDM	25	0	13.35	13.52	13.55	13.57		
5	HQDM	1	0	13.33	13.45	13.52	13.39	14.8	0
5	HQDM	1	12	13.46	13.39	13.50	13.30		
5	HQDM	1	24	13.44	13.44	13.65	13.37		
5	HQDM	12	0	13.40	13.50	13.52	13.34		
5	HQDM	12	7	13.47	13.45	13.54	13.34	14.8	0
5	HQDM	12	13	13.49	13.50	13.54	13.45		
5	HQDM	25	0	13.30	13.39	13.44	13.31		
5	ZSFGM	1	0	13.34	13.48	13.47	13.30	14.8	0
5	ZSFGM	1	12	13.36	13.59	13.57	13.37		
5	ZSFGM	1	24	13.42	13.59	13.58	13.44		
5	ZSFGM	12	0	13.50	13.51	13.46	13.39		
5	ZSFGM	12	7	13.30	13.85	13.45	13.35	14.8	0
5	ZSFGM	12	13	13.34	13.43	13.48	13.38		
5	ZSFGM	25	0	13.37	13.42	13.45	13.43		



Reduced Power Mode for DS16

CDMA2000 1X		Default					
TX Channel	Power	Power	Power	Power	Power	Power	Power
Frequency (MHz)	824.2	863.4	869.8	899.2	905.4	944.8	
CDMA 1 Tx Limit	32.64	32.76	32.88	33.00	33.12	33.24	33.36
OPNS 1 Tx Limit	30.00	30.12	30.24	30.36	30.48	30.60	30.72
OPNS 2 Tx Limit	30.00	30.15	30.30	30.45	30.60	30.75	30.90
OPNS 3 Tx Limit	28.80	29.04	29.28	29.52	29.76	30.00	30.24
OPNS 4 Tx Limit	27.00	27.14	27.28	27.42	27.56	27.70	27.84
EDGE 1 Tx Limit	25.00	25.00	25.00	25.00	25.00	25.00	25.00
EDGE 2 Tx Limit	25.00	25.13	25.26	25.39	25.52	25.65	25.78
EDGE 3 Tx Limit	23.34	23.42	23.53	23.65	23.76	23.87	23.98
EDGE 4 Tx Limit	21.62	21.74	21.87	22.00	22.12	22.24	22.36

  

CDMA2000 1X		Default					
TX Channel	Power	Power	Power	Power	Power	Power	Power
Frequency (MHz)	1497.2	1536.4	1542.8	1572.2	1578.4	1617.8	
CDMA 1 Tx Limit	38.68	38.79	38.92	39.04	39.16	39.28	39.40
OPNS 1 Tx Limit	36.00	36.12	36.24	36.36	36.48	36.60	36.72
OPNS 2 Tx Limit	36.00	36.15	36.30	36.45	36.60	36.75	36.90
OPNS 3 Tx Limit	34.80	35.04	35.28	35.52	35.76	36.00	36.24
OPNS 4 Tx Limit	33.00	33.14	33.28	33.42	33.56	33.70	33.84
EDGE 1 Tx Limit	31.00	31.00	31.00	31.00	31.00	31.00	31.00
EDGE 2 Tx Limit	31.00	31.13	31.26	31.39	31.52	31.65	31.78
EDGE 3 Tx Limit	29.34	29.42	29.53	29.65	29.76	29.87	29.98
EDGE 4 Tx Limit	27.62	27.74	27.87	28.00	28.12	28.24	28.36

  

WCDMA 1X		Default					
TX Channel	Power	Power	Power	Power	Power	Power	Power
Frequency (MHz)	1920.2	1959.4	1965.8	1995.2	2001.4	2040.8	
CDMA 1 Tx Limit	38.68	38.79	38.92	39.04	39.16	39.28	39.40
OPNS 1 Tx Limit	36.00	36.12	36.24	36.36	36.48	36.60	36.72
OPNS 2 Tx Limit	36.00	36.15	36.30	36.45	36.60	36.75	36.90
OPNS 3 Tx Limit	34.80	35.04	35.28	35.52	35.76	36.00	36.24
OPNS 4 Tx Limit	33.00	33.14	33.28	33.42	33.56	33.70	33.84
EDGE 1 Tx Limit	31.00	31.00	31.00	31.00	31.00	31.00	31.00
EDGE 2 Tx Limit	31.00	31.13	31.26	31.39	31.52	31.65	31.78
EDGE 3 Tx Limit	29.34	29.42	29.53	29.65	29.76	29.87	29.98
EDGE 4 Tx Limit	27.62	27.74	27.87	28.00	28.12	28.24	28.36

  

WCDMA 1X		Default					
TX Channel	Power	Power	Power	Power	Power	Power	Power
Frequency (MHz)	2472.2	2511.4	2517.8	2547.2	2553.4	2592.8	
CDMA 1 Tx Limit	38.68	38.79	38.92	39.04	39.16	39.28	39.40
OPNS 1 Tx Limit	36.00	36.12	36.24	36.36	36.48	36.60	36.72
OPNS 2 Tx Limit	36.00	36.15	36.30	36.45	36.60	36.75	36.90
OPNS 3 Tx Limit	34.80	35.04	35.28	35.52	35.76	36.00	36.24
OPNS 4 Tx Limit	33.00	33.14	33.28	33.42	33.56	33.70	33.84
EDGE 1 Tx Limit	31.00	31.00	31.00	31.00	31.00	31.00	31.00
EDGE 2 Tx Limit	31.00	31.13	31.26	31.39	31.52	31.65	31.78
EDGE 3 Tx Limit	29.34	29.42	29.53	29.65	29.76	29.87	29.98
EDGE 4 Tx Limit	27.62	27.74	27.87	28.00	28.12	28.24	28.36

  

WCDMA 1X		Default					
TX Channel	Power	Power	Power	Power	Power	Power	Power
Frequency (MHz)	2924.2	2963.4	2969.8	2999.2	3005.4	3044.8	
CDMA 1 Tx Limit	38.68	38.79	38.92	39.04	39.16	39.28	39.40
OPNS 1 Tx Limit	36.00	36.12	36.24	36.36	36.48	36.60	36.72
OPNS 2 Tx Limit	36.00	36.15	36.30	36.45	36.60	36.75	36.90
OPNS 3 Tx Limit	34.80	35.04	35.28	35.52	35.76	36.00	36.24
OPNS 4 Tx Limit	33.00	33.14	33.28	33.42	33.56	33.70	33.84
EDGE 1 Tx Limit	31.00	31.00	31.00	31.00	31.00	31.00	31.00
EDGE 2 Tx Limit	31.00	31.13	31.26	31.39	31.52	31.65	31.78
EDGE 3 Tx Limit	29.34	29.42	29.53	29.65	29.76	29.87	29.98
EDGE 4 Tx Limit	27.62	27.74	27.87	28.00	28.12	28.24	28.36

  

WCDMA 1X		Default					
TX Channel	Power	Power	Power	Power	Power	Power	Power
Frequency (MHz)	3476.2	3515.4	3521.8	3551.2	3557.4	3596.8	
CDMA 1 Tx Limit	38.68	38.79	38.92	39.04	39.16	39.28	39.40
OPNS 1 Tx Limit	36.00	36.12	36.24	36.36	36.48	36.60	36.72
OPNS 2 Tx Limit	36.00	36.15	36.30	36.45	36.60	36.75	36.90
OPNS 3 Tx Limit	34.80	35.04	35.28	35.52	35.76	36.00	36.24
OPNS 4 Tx Limit	33.00	33.14	33.28	33.42	33.56	33.70	33.84
EDGE 1 Tx Limit	31.00	31.00	31.00	31.00	31.00	31.00	31.00
EDGE 2 Tx Limit	31.00	31.13	31.26	31.39	31.52	31.65	31.78
EDGE 3 Tx Limit	29.34	29.42	29.53	29.65	29.76	29.87	29.98
EDGE 4 Tx Limit	27.62	27.74	27.87	28.00	28.12	28.24	28.36

  

WCDMA 1X		Default					
TX Channel	Power	Power	Power	Power	Power	Power	Power
Frequency (MHz)	3928.2	3967.4	3973.8	4003.2	4009.4	4048.8	
CDMA 1 Tx Limit	38.68	38.79	38.92	39.04	39.16	39.28	39.40
OPNS 1 Tx Limit	36.00	36.12	36.24	36.36	36.48	36.60	36.72
OPNS 2 Tx Limit	36.00	36.15	36.30	36.45	36.60	36.75	36.90
OPNS 3 Tx Limit	34.80	35.04	35.28	35.52	35.76	36.00	36.24
OPNS 4 Tx Limit	33.00	33.14	33.28	33.42	33.56	33.70	33.84
EDGE 1 Tx Limit	31.00	31.00	31.00	31.00	31.00	31.00	31.00
EDGE 2 Tx Limit	31.00	31.13	31.26	31.39	31.52	31.65	31.78
EDGE 3 Tx Limit	29.34	29.42	29.53	29.65	29.76	29.87	29.98
EDGE 4 Tx Limit	27.62	27.74	27.87	28.00	28.12	28.24	28.36



Band 2 Ant0 DS16										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. / Freq. (W/Hz)	Power Mod. (dB)	Power High Ch. / Freq. (W/Hz)	Power High Mod. (dB)	Turn-up (dB)	MPR (dB)	MPE (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	1880	1880	1900	1900			
20	QPSK	1	49	20.20	20.15	20.15	20.15	21.6	0	
20	QPSK	1	99	20.07	20.08	20.04	20.04			
20	QPSK	8	24	19.94	20.02	20.02	20.02			
20	QPSK	50	24	20.04	20.18	20.02	20.02	21.8	0	
20	QPSK	50	50	19.98	20.07	20.00	20.00			
20	QPSK	50	76	19.94	20.06	20.01	20.01			
20	HQAM	1	0	19.88	20.00	20.00	20.00			
20	HQAM	1	49	19.91	20.06	20.03	20.03	21.6	0	
20	HQAM	1	99	19.84	20.00	19.91	19.91			
20	HQAM	8	24	19.81	19.99	20.03	20.03			
20	HQAM	50	24	19.81	19.99	20.03	20.03	21.8	0	
20	HQAM	50	50	19.81	19.99	20.03	20.03			
20	HQAM	50	76	19.81	19.99	20.03	20.03			
20	HQAM	100	0	19.82	19.98	20.03	20.03			
20	HQAM	1	49	19.80	19.97	19.99	19.99	21.6	0	
20	HQAM	1	99	19.81	19.98	20.08	20.08			
20	HQAM	8	24	19.81	19.98	20.08	20.08			
20	HQAM	50	24	19.81	19.98	20.08	20.08	21	0.6	
20	HQAM	50	50	19.85	19.87	19.82	19.82			
20	HQAM	50	76	19.85	19.87	19.82	19.82			
20	ZSSBAM	1	0	17.80	17.70	17.77	17.77			
20	ZSSBAM	1	49	17.88	17.82	17.78	17.78	19	2.6	
20	ZSSBAM	1	99	17.83	17.81	17.81	17.81			
20	ZSSBAM	8	24	17.84	17.81	17.87	17.87			
20	ZSSBAM	50	24	17.84	17.81	17.87	17.87	19	2.6	
20	ZSSBAM	50	50	17.87	17.82	17.87	17.87			
20	ZSSBAM	50	76	17.87	17.82	17.87	17.87			
20	ZSSBAM	100	0	17.83	17.78	17.74	17.74			
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.18	20.20	20.03	20.03			
15	QPSK	1	49	20.01	20.08	20.08	20.08	21.6	0	
15	QPSK	1	99	20.01	20.04	19.95	19.95			
15	QPSK	8	24	19.88	20.17	19.94	19.94			
15	QPSK	50	24	19.85	20.01	19.91	19.91	21.8	0	
15	QPSK	50	50	19.87	20.01	19.91	19.91			
15	QPSK	50	76	19.84	20.06	19.85	19.85			
15	HQAM	1	0	19.77	19.91	19.93	19.93			
15	HQAM	1	49	19.81	19.99	19.92	19.92	21.6	0	
15	HQAM	1	99	19.72	19.88	19.90	19.90			
15	HQAM	8	24	19.72	19.88	19.90	19.90			
15	HQAM	50	24	19.79	20.03	19.87	19.87	21.6	0	
15	HQAM	50	50	19.85	20.00	19.83	19.83			
15	HQAM	50	76	19.83	19.83	19.89	19.89			
15	HQAM	1	0	19.75	19.87	19.89	19.89	21.6	0	
15	HQAM	1	49	19.84	19.84	19.84	19.84			
15	HQAM	1	99	19.87	19.84	20.03	20.03			
15	HQAM	8	24	19.87	19.84	20.03	20.03			
15	HQAM	50	24	19.85	19.70	19.82	19.82			
15	HQAM	50	50	19.85	19.70	19.82	19.82			
15	HQAM	50	76	19.85	19.70	19.82	19.82			
15	HQAM	100	0	19.82	19.80	19.81	19.81			
15	HQAM	1	49	19.87	19.80	19.81	19.81	21	0.6	
15	HQAM	1	99	19.87	19.80	19.81	19.81			
15	HQAM	8	24	19.83	19.83	19.83	19.83			
15	HQAM	50	24	19.83	19.83	19.83	19.83			
15	HQAM	50	50	19.83	19.83	19.83	19.83			
15	HQAM	50	76	19.83	19.83	19.83	19.83			
15	HQAM	100	0	19.83	19.83	19.83	19.83			
15	ZSSBAM	1	0	17.74	17.72	17.72	17.72			
15	ZSSBAM	1	49	17.82	17.78	17.74	17.74	19	2.6	
15	ZSSBAM	1	99	17.78	17.75	17.75	17.75			
15	ZSSBAM	8	24	17.81	17.75	17.82	17.82			
15	ZSSBAM	50	24	17.81	17.75	17.82	17.82	19	2.6	
15	ZSSBAM	50	50	17.85	17.82	17.82	17.82			
15	ZSSBAM	50	76	17.85	17.82	17.82	17.82			
15	ZSSBAM	100	0	17.80	17.75	17.74	17.74			
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.11	20.24	20.13	20.13			
10	QPSK	1	25	20.07	20.04	20.11	20.11	21.6	0	
10	QPSK	1	50	20.08	20.08	20.08	20.08			
10	QPSK	25	0	19.89	20.18	19.93	19.93			
10	QPSK	25	12	19.98	20.03	19.98	19.98	21.8	0	
10	QPSK	25	25	19.94	20.00	19.94	19.94			
10	QPSK	50	0	19.86	20.01	19.95	19.95			
10	HQAM	1	0	19.81	19.88	19.88	19.88			
10	HQAM	1	25	19.87	19.88	19.81	19.81	21.6	0	
10	HQAM	1	50	19.81	19.89	19.89	19.89			
10	HQAM	8	12	19.79	19.97	19.97	19.97			
10	HQAM	25	12	19.78	19.97	19.97	19.97	21.8	0	
10	HQAM	25	25	19.88	20.06	19.90	19.90			
10	HQAM	50	12	19.82	19.88	19.88	19.88			
10	HQAM	1	0	19.82	19.88	19.88	19.88			
10	HQAM	1	25	19.75	19.88	19.80	19.80	21.6	0	
10	HQAM	1	50	19.82	19.88	19.88	19.88			
10	HQAM	8	12	19.82	19.88	19.88	19.88			
10	HQAM	25	12	19.85	19.86	19.82	19.82			
10	HQAM	25	25	19.85	19.86	19.82	19.82			
10	HQAM	50	12	19.88	19.86	19.85	19.85	21	0.6	
10	HQAM	50	25	19.84	19.86	19.88	19.88			
10	HQAM	100	0	19.82	19.86	19.86	19.86			
10	HQAM	1	0	19.82	19.86	19.86	19.86			
10	HQAM	1	25	19.82	19.86	19.86	19.86			
10	HQAM	1	50	19.82	19.86	19.86	19.86			
10	HQAM	8	12	19.82	19.86	19.86	19.86			
10	HQAM	25	12	19.82	19.86	19.86	19.86			
10	HQAM	25	25	19.82	19.86	19.86	19.86			
10	HQAM	50	12	19.82	19.86	19.86	19.86			
10	HQAM	50	25	19.82	19.86	19.86	19.86			
10	HQAM	100	0	19.82	19.86	19.86	19.86			
10	ZSSBAM	1	0	17.74	17.72	17.72	17.72			
10	ZSSBAM	1	25	17.82	17.78	17.74	17.74	19	2.6	
10	ZSSBAM	1	50	17.78	17.75	17.75	17.75			
10	ZSSBAM	8	12	17.81	17.75	17.82	17.82			
10	ZSSBAM	25	12	17.81	17.75	17.82	17.82	19	2.6	
10	ZSSBAM	25	25	17.85	17.82	17.82	17.82			
10	ZSSBAM	50	12	17.85	17.82	17.82	17.82			
10	ZSSBAM	50	25	17.85	17.82	17.82	17.82			
10	ZSSBAM	100	0	17.80	17.75	17.74	17.74			
Channel										
Frequency (MHz)										
5	QPSK	1	0	19.93	19.99	19.75	19.75			
5	QPSK	1	12	20.05	20.10	20.07	20.07	21.8	0	
5	QPSK	1	24	19.93	19.95	19.91	19.91			
5	QPSK	1	36	19.92	20.08	19.95	19.95			
5	QPSK	12	7	19.98	20.14	19.87	19.87	21.8	0	
5	QPSK	12	19	19.85	19.87	19.80	19.80			
5	QPSK	12	31	19.88	20.03	19.83	19.83			
5	HQAM	1	0	19.77	19.89	19.88	19.88			
5	HQAM	1	12	19.87	19.88	19.81	19.81	21.6	0	
5	HQAM	1	24	19.77	19.88	19.85	19.85			
5	HQAM	12	7	19.74	19.87	19.86	19.86			
5	HQAM	12	19	19.80	20.01	19.80	19.80	21.8	0	
5	HQAM	12	31	19.81	20.01	19.83	19.83			
5	HQAM	25	0	19.90	19.90	19.88	19.88	</		



Band 12 Ant0 Default										
SW (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)										
792										
10	QPSK	1	0	22.96	22.96	22.96				
10	QPSK	1	35	22.95	22.54	22.92	24	0		
10	QPSK	1	40	22.81	22.70	22.59				
10	QPSK	35	0	22.96	22.54	22.92				
10	QPSK	35	12	21.88	21.70	21.55				
10	QPSK	35	25	21.88	21.61	21.63	23	1		
10	QPSK	35	0	20.76	20.76	20.76				
10	HQAM	1	0	21.71	21.68	21.63				
10	HQAM	1	25	21.54	21.71	21.82	23	1		
10	HQAM	40	0	21.70	21.70	21.52				
10	HQAM	35	0	20.71	20.81	20.89				
10	HQAM	35	12	20.82	20.82	20.76				
10	HQAM	35	25	20.59	20.72	20.70	22	2		
10	HQAM	50	0	20.89	20.75	20.82				
10	HQAM	50	0	20.86	20.86	20.86				
10	HQAM	1	35	20.82	20.63	20.81	22	2		
10	HQAM	1	40	20.71	20.80	20.85				
10	HQAM	25	0	19.28	19.27	19.03				
10	HQAM	35	12	19.58	19.63	19.88	21	3		
10	HQAM	35	25	19.48	19.61	19.55				
10	HQAM	50	0	19.47	19.61	19.58				
10	ZSSBQAM	1	0	17.75	17.55	17.73				
10	ZSSBQAM	1	25	17.94	17.80	17.80	19	5		
10	ZSSBQAM	1	40	17.88	17.84	17.81				
10	ZSSBQAM	35	0	17.83	17.71	17.66				
10	ZSSBQAM	35	12	17.63	17.60	17.60				
10	ZSSBQAM	35	25	17.68	17.75	17.80	19	5		
10	ZSSBQAM	50	0	17.86	17.65	17.71				
Channel										
Frequency (MHz)										
707.5										
5	QPSK	1	0	22.88	22.78	22.53				
5	QPSK	1	12	22.66	22.58	22.55	24	0		
5	QPSK	1	24	22.47	22.07	22.49				
5	QPSK	12	0	21.83	21.88	21.51				
5	QPSK	12	7	21.83	21.50	21.50				
5	QPSK	12	13	21.58	21.58	21.80	23	1		
5	QPSK	25	0	21.41	21.51	21.47				
5	HQAM	1	0	21.68	21.67	21.49				
5	HQAM	1	12	21.42	21.67	21.57	23	1		
5	HQAM	1	24	21.44	21.44	21.36				
5	HQAM	12	0	20.59	20.79	20.72				
5	HQAM	12	7	20.52	20.57	20.55				
5	HQAM	12	13	20.58	20.58	20.67	22	2		
5	HQAM	25	0	20.47	20.61	20.59				
5	HQAM	1	0	20.86	20.70	20.45				
5	HQAM	1	12	20.72	20.86	20.87	22	2		
5	HQAM	1	24	20.88	20.73	20.82				
5	HQAM	12	0	19.52	19.68	19.49				
5	HQAM	12	7	19.52	19.54	19.48				
5	HQAM	12	13	19.65	19.58	19.47	21	3		
5	HQAM	25	0	19.40	19.51	19.45				
5	ZSSBQAM	1	0	17.70	17.63	17.61				
5	ZSSBQAM	1	12	17.78	17.63	17.81	19	5		
5	ZSSBQAM	1	24	17.69	17.65	17.65				
5	ZSSBQAM	12	0	17.51	17.57	17.51				
5	ZSSBQAM	12	7	17.44	17.51	17.51	19	5		
5	ZSSBQAM	12	13	17.63	17.60	17.60				
5	ZSSBQAM	25	0	17.55	17.58	17.61				
Channel										
Frequency (MHz)										
2303										
3	QPSK	1	0	22.54	22.78	22.54				
3	QPSK	1	8	22.40	22.52	22.48	24	0		
3	QPSK	14	0	22.63	22.68	22.65				
3	QPSK	8	0	21.67	21.67	21.43				
3	QPSK	8	4	21.57	21.62	21.44	23	1		
3	QPSK	8	7	21.60	21.63	21.53				
3	QPSK	16	0	21.43	21.61	21.45				
3	HQAM	1	0	21.57	21.61	21.56				
3	HQAM	1	8	21.57	21.68	21.63	23	1		
3	HQAM	1	14	21.63	21.63	21.43				
3	HQAM	8	0	20.58	20.73	20.66				
3	HQAM	8	4	20.60	20.62	20.57	22	2		
3	HQAM	8	7	20.56	20.58	20.68				
3	HQAM	16	0	20.64	20.66	20.54				
3	HQAM	1	0	20.69	20.58	20.52				
3	HQAM	1	8	20.70	20.80	20.78	22	2		
3	HQAM	1	14	20.60	20.74	20.54				
3	HQAM	8	0	19.54	19.74	19.53				
3	HQAM	8	4	19.46	19.56	19.46	21	3		
3	HQAM	8	7	19.59	19.51	19.45				
3	HQAM	16	0	19.35	19.52	19.45				
3	ZSSBQAM	1	0	17.71	17.54	17.65				
3	ZSSBQAM	1	8	17.75	17.54	17.77	19	5		
3	ZSSBQAM	1	14	17.78	17.64	17.72				
3	ZSSBQAM	8	0	17.56	17.64	17.54				
3	ZSSBQAM	8	4	17.39	17.59	17.50	19	5		
3	ZSSBQAM	8	7	17.57	17.68	17.73				
3	ZSSBQAM	16	0	17.44	17.64	17.68				
Channel										
Frequency (MHz)										
2307										
1.4	QPSK	1	0	22.41	22.70	22.62				
1.4	QPSK	1	3	22.52	22.60	22.59				
1.4	QPSK	1	5	22.47	22.50	22.44	24	0		
1.4	QPSK	3	0	22.57	22.71	22.56				
1.4	QPSK	3	1	22.51	22.58	22.59				
1.4	QPSK	3	3	22.52	22.64	22.46				
1.4	QPSK	6	0	21.60	21.61	21.40	23	1		
1.4	HQAM	1	0	21.58	21.50	21.47				
1.4	HQAM	3	0	21.69	21.63	21.52				
1.4	HQAM	1	5	21.48	21.55	21.50	23	1		
1.4	HQAM	3	0	21.83	21.58	21.51				
1.4	HQAM	3	1	21.48	21.68	21.53				
1.4	HQAM	3	3	21.65	21.63	21.48				
1.4	HQAM	6	0	20.61	20.76	20.71	22	2		
1.4	HQAM	1	3	20.51	20.57	20.81				
1.4	HQAM	1	6	20.32	20.71	20.52	22	2		
1.4	HQAM	3	0	20.61	20.64	20.48				
1.4	HQAM	3	1	20.60	20.50	20.75				
1.4	HQAM	6	0	20.68	20.74	20.64				
1.4	HQAM	6	0	19.41	19.57	19.48	21	3		
1.4	ZSSBQAM	1	0	17.66	17.63	17.60				
1.4	ZSSBQAM	1	3	17.79	17.78	17.76				
1.4	ZSSBQAM	1	5	17.84	17.60	17.74	19	5		
1.4	ZSSBQAM	3	0	17.51	17.67	17.51				
1.4	ZSSBQAM	3	1	17.41	17.40	17.43				
1.4	ZSSBQAM	3	3	17.59	17.68	17.88				
1.4	ZSSBQAM	6	0	17.40	17.54	17.57	19	5		

Band 13 Ant0 Default										
SW (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)										
792										
10	QPSK	1	0	22.97	22.97	22.97				
10	QPSK	1	25	22.91	22.91	22.91	24	0		
10	QPSK	1	40	22.85	22.85	22.85				
10	QPSK	35	0	22.97	22.97	22.97				
10	QPSK	35	12	21.86	21.86	21.86				
10	QPSK	35	25	21.81	21.81	21.81	23	1		
10	QPSK	35	0	21.82	21.82	21.82				
10	HQAM	1	0	21.79	21.79	21.79				
10	HQAM	1	25	21.62	21.62	21.62	23	1		
10	HQAM	1	40	21.80	21.80	21.80				
10	HQAM	25	0	20.97	20.97	20.97				
10	HQAM	25	12	20.76	20.76	20.76				
10	HQAM	25	25	20.88	20.88	20.88	22	2		
10	HQAM	50	0	20.88	20.88	20.88				
10	HQAM	50	0	20.86	20.86	20.86				
10	HQAM	1	25	21.10	21.10	21.10	22	2		
10	HQAM	1	40	20.90	20.90	20.90				
10	HQAM	25	0	19.92	19.92	19.92				
10	HQAM	25	12	19.71	19.71	19.71	21	3		
10	HQAM	25	25	19.88	19.88	19.88				
10	HQAM	50	0	19.75	19.75	19.75				
10	ZSSBQAM	1	0	18.06	18.06	18.06				
10	ZSSBQAM	1	25	17.90	17.90	17.90	19	5		
10	ZSSBQAM	1	40	18.11	18.11	18.11				
10	ZSSBQAM	25	0	17.82	17.82	17.82				
10	ZSSBQAM	25	12	17.70	17.70	17.70				
10	ZSSBQAM	25	25	17.88	17.88	17.88	19	5		
10	ZSSBQAM	50	0	17.82	17.82	17.82				
Channel										
Frequency (MHz)										
2305										
770.5										
5	QPSK	1	0	22.90	22.93	22.83				
5	QPSK	1	12	22.87	22.80	22.81	24	0		
5	QPSK	1	24	22.77	22.73	22.81				
5	QPSK	12	0	21.81	21.74	21.79				
5	QPSK	12	7	21.78	21.81	21.82				
5	QPSK	12	13	21.77	21.77	21.71	23	1		
5	QPSK	25	0	21.68	21.70	21.73				



Band 26 Ant0 Default										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch/Freq	Power High Ch/Freq	Power Peak Ch/Freq	Turn-up (dB)	MPE (dB)		
Channel										
15	QPSK	1	0	22.82	22.82	22.82				
15	QPSK	1	36	22.85	22.75	22.84			24	0
15	QPSK	1	74	22.88	22.73	22.82				
15	QPSK	8	0	21.61	21.70	21.72				
15	QPSK	36	20	21.66	21.70	21.78			20	7
15	QPSK	36	58	21.65	21.69	21.59				
15	QPSK	8	0	21.63	21.69	21.74				
15	QPSK	36	20	21.67	21.64	21.80				
15	HQAM	1	37	21.55	21.40	21.80			23	1
15	HQAM	74	0	21.49	21.53	21.58				
15	HQAM	36	0	20.81	20.81	20.79				
15	HQAM	36	20	20.79	20.87	20.85			22	2
15	HQAM	36	58	20.74	20.87	20.85				
15	HQAM	75	0	20.84	20.75	20.87				
15	HQAM	1	37	20.83	20.59	20.59			22	2
15	HQAM	1	74	20.77	20.77	20.81				
15	HQAM	36	0	19.83	19.87	19.71				
15	HQAM	36	20	19.84	19.81	19.85			21	3
15	HQAM	36	58	19.87	19.83	19.84				
15	HQAM	75	0	19.49	19.24	19.59				
15	HQAM	1	37	17.77	17.83	17.77				
15	HQAM	1	74	17.78	17.75	17.80			19	5
15	HQAM	1	74	17.80	17.84	17.81				
15	HQAM	36	0	17.86	17.75	17.87				
15	HQAM	36	20	17.82	17.83	17.84			19	5
15	HQAM	36	58	17.87	17.75	17.84				
15	HQAM	75	0	17.80	17.74	17.80				
Channel										
15	QPSK	1	0	819	831.5	844				
15	QPSK	1	36	22.82	22.82	22.77			24	0
15	QPSK	1	74	22.85	22.81	22.81				
15	QPSK	1	40	22.87	22.82	22.87				
15	QPSK	25	0	21.53	21.75	21.58				
15	QPSK	12	0	21.63	21.62	21.61				
15	QPSK	25	25	21.55	21.61	21.52			23	1
15	QPSK	50	0	21.63	21.67	21.41				
15	HQAM	1	26	21.57	21.53	21.48				
15	HQAM	1	26	21.48	21.48	21.51			23	1
15	HQAM	48	0	20.71	21.26	21.21				
15	HQAM	48	20	20.71	20.70	20.71				
15	HQAM	25	12	20.48	20.53	20.59			22	2
15	HQAM	25	20	20.48	20.53	20.59				
15	HQAM	50	0	20.55	20.62	20.51				
15	HQAM	1	40	20.62	20.75	20.67				
15	HQAM	1	40	20.70	20.72	20.67			22	2
15	HQAM	25	0	19.57	19.60	19.66				
15	HQAM	25	12	19.45	19.48	19.41			21	3
15	HQAM	25	25	19.47	19.58	19.40				
15	HQAM	50	0	19.35	19.46	19.45				
15	HQAM	1	0	17.73	17.73	17.72				
15	HQAM	1	25	17.72	17.73	17.73			19	5
15	HQAM	48	0	17.83	17.88	17.48				
15	HQAM	25	0	17.85	17.79	17.51			19	5
15	HQAM	25	12	17.85	17.79	17.58				
15	HQAM	50	0	17.40	17.48	17.48				
Channel										
15	QPSK	1	0	22.57	22.78	22.73				
15	QPSK	1	32	22.54	22.68	22.71			24	0
15	QPSK	1	64	22.57	22.68	22.68				
15	QPSK	12	0	21.61	21.74	21.59				
15	QPSK	12	7	21.63	21.61	21.40				
15	QPSK	25	0	21.63	21.62	21.53				
15	QPSK	25	25	21.62	21.65	21.44				
15	HQAM	1	0	21.59	21.52	21.50				
15	HQAM	1	12	21.48	21.48	21.48			23	1
15	HQAM	1	24	21.59	21.59	21.48				
15	HQAM	1	24	20.78	20.71	20.71				
15	HQAM	12	7	20.45	20.55	20.65			22	2
15	HQAM	12	13	20.68	20.81	20.59				
15	HQAM	1	0	20.52	20.72	20.59				
15	HQAM	1	12	20.76	20.92	20.93			22	2
15	HQAM	1	24	20.69	20.77	20.77				
15	HQAM	12	0	19.54	19.81	19.58				
15	HQAM	12	7	19.48	19.43	19.44			21	3
15	HQAM	13	0	19.44	19.48	19.45				
15	HQAM	25	0	19.41	19.62	19.41				
15	HQAM	1	0	17.75	17.71	17.73				
15	HQAM	1	24	17.86	17.88	17.77			19	5
15	HQAM	13	0	17.85	17.88	17.85				
15	HQAM	12	7	17.53	17.62	17.48			19	5
15	HQAM	12	13	17.53	17.70	17.58				
15	HQAM	25	0	17.41	17.48	17.53				
Channel										
15	QPSK	1	0	115.2	115.2	115.2				
15	QPSK	1	8	22.85	22.81	22.76			24	0
15	QPSK	1	14	22.85	22.68	22.48				
15	QPSK	8	0	21.61	21.71	21.68				
15	QPSK	8	4	21.60	21.58	21.57				
15	QPSK	8	7	21.59	21.57	21.44				
15	QPSK	8	15	21.55	21.69	21.45				
15	HQAM	1	0	21.60	21.51	21.49				
15	HQAM	1	14	21.62	21.70	21.48			23	1
15	HQAM	1	14	21.62	21.70	21.48				
15	HQAM	8	0	20.74	20.71	20.66				
15	HQAM	8	4	20.63	20.68	20.60			22	2
15	HQAM	8	7	20.63	20.62	20.57				
15	HQAM	15	0	20.50	20.63	20.63				
15	HQAM	1	0	20.64	20.71	20.65				
15	HQAM	1	8	20.76	20.94	20.85			22	2
15	HQAM	1	14	20.71	20.71	20.73				
15	HQAM	8	4	19.43	19.42	19.44			21	3
15	HQAM	15	0	19.48	19.56	19.46				
15	HQAM	15	0	19.45	19.62	19.45				
15	HQAM	1	0	17.84	17.83	17.88				
15	HQAM	1	8	17.85	17.85	17.85			19	5
15	HQAM	1	14	17.85	17.82	17.75				
15	HQAM	8	0	17.81	17.84	17.47				
15	HQAM	8	4	17.60	17.72	17.43			19	5
15	HQAM	8	7	17.53	17.70	17.52				
15	HQAM	15	0	17.40	17.44	17.52				
Channel										
15	QPSK	1	0	614.7	631.5	643.5				
15	QPSK	1	0	22.82	22.73	22.86				
15	QPSK	1	4	22.88	22.81	22.73			24	0
15	QPSK	1	8	22.85	22.59	22.58				
15	QPSK	1	0	22.85	22.76	22.88				
15	QPSK	8	0	21.53	22.59	22.72				
15	QPSK	3	0	22.53	22.65	22.49				
15	QPSK	1	0	21.63	21.66	21.55			23	1
15	HQAM	1	3	21.28	21.64	21.49				
15	HQAM	1	5	21.58	21.66	21.48				
15	HQAM	3	0	21.57	21.58	21.48			23	1
15	HQAM	3	1	21.46	21.52	21.55				
15	HQAM	3	3	21.58	21.64	21.44				
15	HQAM	6	0	20.74	20.72	20.86			22	2
15	HQAM	1	0	20.43	20.57	20.88				
15	HQAM	1	4	20.68	20.80	20.68				
15	HQAM	1	6	20.59	20.58	20.52			22	2
15	HQAM	1	0	20.53	20.69	20.68				
15	HQAM	1	4	20.70	20.53	20.51				
15	HQAM	3	3	20.71	20.74	20.75				
15	HQAM	8	0	19.69	19.81	19.83			21	3
15	HQAM	1	0	17.72	17.88	17.85				
15	HQAM	1	3	17.85	17.83	17.79			19	5
15	HQAM	3	0	17.80	17.82	17.47				



Band 38 Ant0 DS16										
RF (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Time-up (ms)	MPR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.27	22.35	22.32				
20	QPSK	1	40	22.20	22.28	22.31			23.2	0
20	QPSK	1	80	22.15	22.16	22.18				
20	QPSK	50	0	22.21	22.20	22.13				
20	QPSK	50	24	22.15	22.16	22.18				
20	QPSK	50	50	22.14	22.13	21.98			23	0.2
20	QPSK	100	0	22.04	22.03	22.04				
20	16QAM	1	0	22.06	22.05	22.08				
20	16QAM	1	40	21.93	21.94	22.07			23	0.2
20	16QAM	1	80	22.11	22.12	22.05				
20	16QAM	50	0	21.91	21.92	21.98				
20	16QAM	50	24	21.98	21.95	21.98			22	1.2
20	16QAM	100	0	21.12	21.18	21.48				
20	8QAM	1	0	21.28	21.31	21.19				
20	8QAM	1	40	21.32	21.47	21.37			22	1.2
20	8QAM	1	80	21.18	21.18	21.23				
20	8QAM	50	0	22.06	22.09	22.06				
20	8QAM	50	24	21.94	21.91	21.99			21	2.2
20	8QAM	50	50	20.02	20.07	19.99				
20	8QAM	100	0	20.00	20.18	20.08				
20	25QAM	1	0	18.19	18.26	18.21				
20	25QAM	1	40	18.18	18.24	18.25			19	4.2
20	25QAM	1	80	18.07	18.07	18.17				
20	25QAM	50	0	18.13	18.17	17.98				
20	25QAM	50	24	18.05	18.22	18.20			19	4.2
20	25QAM	50	50	18.12	18.26	18.20				
20	25QAM	100	0	17.95	18.21	18.08				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.24	22.25	22.21				
15	QPSK	1	40	22.26	22.24	22.27			23.2	0
15	QPSK	1	80	22.14	22.24	22.20				
15	QPSK	50	0	22.15	22.16	22.18				
15	QPSK	50	24	22.11	22.12	22.12				
15	QPSK	50	50	22.19	22.08	22.12			23	0.2
15	QPSK	100	0	22.05	21.99	21.91				
15	QPSK	100	24	21.93	22.11	21.99				
15	16QAM	1	0	22.00	22.11	21.99			23	0.2
15	16QAM	1	40	22.04	21.98	21.99				
15	16QAM	1	80	21.98	21.98	21.96				
15	16QAM	50	0	21.09	21.10	21.12			22	1.2
15	16QAM	50	24	21.08	21.22	21.05				
15	16QAM	100	0	21.03	21.06	21.04				
15	8QAM	1	0	21.19	21.18	21.13				
15	8QAM	1	40	21.22	21.32	21.24			22	1.2
15	8QAM	1	80	21.11	21.14	21.10				
15	8QAM	50	0	20.08	20.07	20.12				
15	8QAM	50	24	19.92	19.95	19.94			21	2.2
15	8QAM	50	50	19.88	20.00	19.95				
15	8QAM	100	0	19.87	19.98	19.94				
15	25QAM	1	0	18.09	18.15	18.17				
15	25QAM	1	40	18.31	18.33	18.26			19	4.2
15	25QAM	1	80	18.22	18.22	18.30				
15	25QAM	50	0	17.90	18.16	17.86				
15	25QAM	50	24	18.03	18.21	18.10			19	4.2
15	25QAM	50	50	17.87	18.09	18.10				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.21	22.27	22.19				
10	QPSK	1	25	22.09	22.25	22.17			23.2	0
10	QPSK	1	50	22.12	22.16	22.16				
10	QPSK	25	0	22.16	22.18	21.98				
10	QPSK	25	12	22.07	22.14	22.06				
10	QPSK	25	25	22.05	22.05	22.08			23	0.2
10	QPSK	50	0	21.94	21.98	22.07				
10	QPSK	50	12	21.86	22.03	21.95				
10	16QAM	1	0	21.83	22.07	22.02			23	0.2
10	16QAM	1	40	22.05	21.98	22.02				
10	16QAM	1	80	21.92	21.18	21.02			22	1.2
10	16QAM	25	0	21.05	21.13	21.00				
10	16QAM	25	12	21.02	21.12	21.05				
10	8QAM	1	0	21.18	21.17	21.10				
10	8QAM	1	40	21.08	21.14	21.16			22	1.2
10	8QAM	1	80	21.19	21.32	21.27				
10	8QAM	25	0	20.01	20.02	20.11			21	2.2
10	8QAM	25	12	19.91	20.02	20.13				
10	8QAM	25	25	19.99	20.02	20.11				
10	8QAM	50	0	20.00	20.10	20.03				
10	8QAM	50	12	19.94	19.18	19.24			19	4.2
10	25QAM	1	0	18.11	18.24	18.23				
10	25QAM	1	40	18.27	18.37	18.27			19	4.2
10	25QAM	1	80	18.08	18.21	18.13				
10	25QAM	25	0	17.86	18.02	18.15				
10	25QAM	25	12	17.88	18.15	18.12			19	4.2
10	25QAM	25	25	18.05	18.15	18.13				
10	25QAM	50	0	18.18	18.02	18.23				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.22	22.28	22.26				
5	QPSK	1	10	22.27	22.27	22.29			23.2	0
5	QPSK	1	24	22.27	22.24	22.27				
5	QPSK	12	0	22.14	22.16	22.18				
5	QPSK	12	13	22.06	22.15	22.18			23	0.2
5	QPSK	25	0	21.85	22.05	22.05				
5	16QAM	1	0	21.80	22.01	22.16			23	0.2
5	16QAM	1	12	21.86	21.94	22.17				
5	16QAM	1	24	22.08	22.18	22.07				
5	16QAM	12	0	21.13	21.20	21.13			22	1.2
5	16QAM	12	13	21.05	21.18	21.08				
5	16QAM	25	0	21.04	21.20	21.13			22	1.2
5	8QAM	1	0	21.24	21.23	21.11				
5	8QAM	1	12	21.25	21.26	21.21			22	1.2
5	8QAM	1	24	21.07	21.10	21.18				
5	8QAM	12	0	20.11	20.14	20.10			21	2.2
5	8QAM	12	13	19.95	20.04	20.04				
5	8QAM	25	0	20.02	20.02	20.20			20.02	
5	25QAM	1	0	18.09	18.25	18.30				
5	25QAM	1	10	18.14	18.20	18.25			19	4.2
5	25QAM	1	24	18.31	18.38	18.23				
5	25QAM	12	0	18.09	18.08	18.07				
5	25QAM	12	13	18.01	18.10	18.13			19	4.2
5	25QAM	12	13	18.08	18.09	18.13				
5	25QAM	25	0	18.10	18.10	18.22				

Band 41 Ant0 DS16											
RF (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Time-up (ms)	MPR (dB)	
Channel											
Frequency (MHz)											
20	QPSK	1	0	22.42	22.34	22.49	22.40	22.38			
20	QPSK	1	40	22.36	22.31	22.44	22.34	22.33		23.2	0
20	QPSK	1	80	22.31	22.39	22.34	22.31	22.28			
20	QPSK	50	0	22.24	22.28	22.38	22.19	22.18			
20	QPSK	50	24	22.17	22.23	22.36	22.16	22.14		23	0.2
20	QPSK	50	50	22.12	22.23	22.24	22.08	22.20			
20	16QAM	1	0	22.01	22.10	22.28	22.19	22.05			
20	16QAM	1	40	22.02	22.13	22.26	22.15	22.10			
20	16QAM	1	80	21.88	22.03	22.21	21.21	21.90		23	0.2
20	16QAM	50	0	22.21	22.29	22.21	22.29	22.25			
20	16QAM	50	24	21.91	21.91	21.92	21.45	21.20			
20	16QAM	100	0	21.17	21.27	21.25	21.21	21.13			
20	8QAM	1	0	21.20	21.38	21.39	21.25	21.33			
20	8QAM	1	40	21.32	21.40	21.39	21.30	21.21		22	1.2
20	8QAM	1	80	21.15	21.25	21.30	21.28	21.21			
20	8QAM	50	0	22.02	22.02	22.22	22.11	22.07			
20	8QAM	50	24	21.97	21.95	20.17	20.08	19.98		21	2.2
20	8QAM	50	50	20.03	20.09	20.13	20.07	19.99			
20	8QAM	100	0	20.07	20.15	20.28	20.20	20.00			
20	25QAM	1	0	18.17	18.30	18.41	18.31	18.18			
20	25QAM	1	40	18.25	18.32	18.34	18.41	18.27		19	4.2
20	25QAM	1	80	18.35	18.28	18.25	18.41	18.37			
20	25QAM	50	0	18.23	18.29	18.25	18.13	18.17			
20	25QAM	50	24	18.02	18.10	18.27	18.15	18.15		19	4.2
20	25QAM	50	50	18.11	18.19	18.22	18.23	18.12			
20	25QAM	100	0	18.20	18.18	18.29	18.20	17.99			
Channel											
Frequency (MHz)											
15	QPSK	1	0	22.35	22.43	22.61	22.57	22.52			
15	QPSK	1	40	22.28	22.21	22.43	22.32	22.29		23.2	0
15	QPSK	1	80	22.21	22.21	22.30	22.25	22.27			
15	QPSK	1	174	22.16	22.17	22.33	22.20	22.19			
15	QPSK	36	0	22.15	22.23	22.31	22.21	22.21			



DVB-S2 A Ant				Default			
TV Channel	128	149	251	Turn-up Limit (dB)	128	149	251
Freemove (DVB)	18.23	18.64	18.63	18.92	18.64	18.63	18.63
CHM 1 TV Ant	33.88	33.84	32.91	33.93	23.86	23.84	23.91
OPNR 1 TV Ant	22.88	22.82	22.73	23.88	23.86	23.82	23.77
OPNR 2 TV Ant	30.33	30.29	30.17	31.00	24.16	24.20	24.17
OPNR 3 TV Ant	28.02	28.14	28.84	29.00	24.36	24.40	24.38
OPNR 4 TV Ant	28.94	28.78	28.99	29.00	23.95	23.79	23.99
EDGE 1 TV Ant	25.02	25.03	25.86	27.00	18.02	18.03	18.86
EDGE 2 TV Ant	21.04	21.13	21.99	24.00	13.04	13.13	13.99
EDGE 3 TV Ant	23.24	23.41	23.27	24.00	18.08	18.15	18.01
EDGE 4 TV Ant	21.28	21.81	21.70	22.00	13.05	13.81	13.70

  

DVB-S2 A Ant				Default			
TV Channel	512	661	810	Turn-up Limit (dB)	512	661	810
Freemove (DVB)	18.23	18.16	18.63	18.92	18.00	18.00	18.63
CHM 1 TV Ant	29.23	29.29	29.24	30.00	20.21	20.20	20.24
OPNR 1 TV Ant	25.12	25.23	25.15	26.00	20.12	20.20	20.15
OPNR 2 TV Ant	26.11	26.17	26.09	27.00	20.11	20.11	20.06
OPNR 3 TV Ant	24.42	24.34	24.41	25.00	20.16	20.20	20.15
OPNR 4 TV Ant	24.03	24.20	24.70	25.00	19.02	19.20	19.10
EDGE 1 TV Ant	21.06	21.21	21.00	24.00	17.06	17.21	17.00
EDGE 2 TV Ant	17.08	17.08	17.05	21.00	13.05	13.05	13.05
EDGE 3 TV Ant	20.08	20.15	20.01	21.00	17.08	17.15	17.01
EDGE 4 TV Ant	18.00	18.00	18.00	18.00	13.00	13.00	13.00

  

DVB-S2 A Ant				DVB-S2 A Ant				DVB-S2 A Ant			
TV Channel	1024	1600	2638	Turn-up Limit (dB)	1024	1600	2638	Turn-up Limit (dB)	1024	1600	2638
Freemove (DVB)	18.54	18.60	18.63	18.92	18.54	18.54	18.63	18.92	18.54	18.54	18.63
OPNR 1 TV Ant	18.05	18.06	18.62	21.00	18.05	18.70	18.09	20.00	22.05	22.72	22.85
OPNR 2 TV Ant	18.23	18.23	18.69	21.00	18.77	18.00	18.14	20.00	22.23	22.70	22.66
OPNR 3 TV Ant	18.27	18.26	18.25	19.00	18.36	18.11	18.23	19.30	21.31	21.26	21.19
OPNR 4 TV Ant	18.04	18.20	18.20	19.00	18.08	18.37	18.19	19.30	21.20	21.20	21.34
OPNR 5 TV Ant	18.04	18.08	18.02	20.00	18.06	18.00	18.73	19.00	21.00	21.00	21.75
OPNR 6 TV Ant	18.24	18.51	18.73	20.00	18.07	18.50	18.64	19.80	21.71	21.50	21.80
OPNR 7 TV Ant	18.22	18.26	17.99	19.00	18.10	18.10	17.99	19.30	21.19	21.31	21.06
OPNR 8 TV Ant	18.20	18.23	17.99	19.00	18.07	18.20	17.99	19.30	21.19	21.20	21.06
OPNR 9 TV Ant	18.20	18.20	18.05	20.00	18.04	18.00	18.05	19.00	21.20	21.31	21.06
OPNR 10 TV Ant	18.20	18.21	18.78	18.00	18.91	18.73	18.71	17.80	18.21	18.85	18.73
OPNR 11 TV Ant	17.70	17.80	18.01	19.00	17.70	17.80	18.00	18.00	20.00	20.73	20.00
OPNR 12 TV Ant	18.20	18.74	18.00	18.00	18.03	18.00	18.04	17.80	18.01	18.03	18.75
OPNR 13 TV Ant	18.00	18.74	18.81	20.00	18.08	18.63	18.63	18.80	21.01	21.73	21.88



Band 2 Ant1 DS16										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq. (W/Hz)	Power Mhz (W)	Power Pch./Freq. (W/Hz)	Power Mhz (W)	Turn-up (dB)	MFR (dB)	MFR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.80	18.80	19.00				
20	QPSK	1	49	19.81	19.71	19.99			21	0
20	QPSK	1	99	19.84	19.80	19.85				
20	QPSK	8	99	19.87	19.84	19.84				
20	QPSK	50	24	19.88	19.71	19.87			21	0
20	QPSK	50	50	19.88	19.83	19.87				
20	QPSK	50	99	19.88	19.83	19.87				
20	HQAM	1	0	19.74	19.80	19.88				
20	HQAM	1	49	19.79	19.80	19.81			21	0
20	HQAM	1	99	19.80	19.80	19.84				
20	HQAM	8	99	19.81	19.80	19.84				
20	HQAM	50	24	19.82	19.70	19.84			20	1
20	HQAM	50	50	19.87	19.81	19.89				
20	HQAM	50	99	19.87	19.81	19.89				
20	HQAM	100	0	19.80	19.80	19.89				
20	HQAM	1	49	19.78	19.82	19.85			20	1
20	HQAM	1	99	19.78	19.82	19.81				
20	HQAM	8	99	19.78	19.82	19.81				
20	HQAM	50	24	19.74	19.74	19.79			19	2
20	HQAM	50	50	19.79	19.77	19.84				
20	HQAM	100	0	19.82	19.80	19.87				
20	ZSSBAM	1	0	18.25	18.30	18.30				
20	ZSSBAM	1	49	18.21	18.26	18.26			17	4
20	ZSSBAM	1	99	18.21	18.26	18.26				
20	ZSSBAM	8	99	18.21	18.26	18.26				
20	ZSSBAM	50	24	18.23	18.16	18.24				
20	ZSSBAM	50	50	18.23	18.16	18.24				
20	ZSSBAM	50	99	18.23	18.16	18.24				
20	ZSSBAM	100	0	18.26	18.23	18.18			18	2
Channel										
Frequency (MHz)										
15	QPSK	1	0	19.67	19.70	19.68				
15	QPSK	1	49	19.68	19.63	19.63			21	0
15	QPSK	1	99	19.68	19.63	19.63				
15	QPSK	8	99	19.67	19.62	19.63				
15	QPSK	50	24	19.68	19.60	19.68			21	0
15	QPSK	50	50	19.64	19.60	19.65				
15	QPSK	50	99	19.68	19.60	19.68				
15	HQAM	1	0	19.44	19.60	19.62				
15	HQAM	1	49	19.44	19.59	19.73			16	AM
15	HQAM	1	99	19.54	19.60	19.57			21	0
15	HQAM	8	99	19.54	19.60	19.57				
15	HQAM	50	24	19.52	19.51	19.54				
15	HQAM	50	50	19.55	19.51	19.54				
15	HQAM	50	99	19.55	19.51	19.54				
15	HQAM	100	0	19.57	19.54	19.61			20	1
15	HQAM	1	49	19.52	19.54	19.61				
15	HQAM	8	99	19.52	19.54	19.61				
15	HQAM	50	24	19.20	19.14	19.20			20	1
15	HQAM	50	50	19.20	19.14	19.20				
15	HQAM	50	99	19.20	19.14	19.20				
15	HQAM	100	0	19.24	19.19	19.27				
15	HQAM	1	49	19.23	19.20	19.27				
15	HQAM	8	99	19.23	19.20	19.27				
15	HQAM	50	24	19.20	19.22	19.25				
15	HQAM	50	50	19.20	19.15	19.21				
15	HQAM	50	99	19.20	19.15	19.21				
15	HQAM	100	0	19.21	19.16	19.23			19	2
15	ZSSBAM	1	0	17.92	17.96	17.93				
15	ZSSBAM	1	49	17.92	17.96	17.93				
15	ZSSBAM	1	99	17.92	17.96	17.93				
15	ZSSBAM	8	99	17.92	17.96	17.93				
15	ZSSBAM	50	24	17.92	17.96	17.93				
15	ZSSBAM	50	50	17.92	17.96	17.93				
15	ZSSBAM	50	99	17.92	17.96	17.93				
15	ZSSBAM	100	0	17.92	17.96	17.93			18	2
Channel										
Frequency (MHz)										
10	QPSK	1	0	19.44	19.42	19.34				
10	QPSK	1	25	19.27	19.32	19.33			20	2
10	QPSK	1	50	19.27	19.32	19.33				
10	QPSK	8	99	19.27	19.32	19.33				
10	QPSK	25	0	19.13	19.46	19.33				
10	QPSK	25	12	19.24	19.37	19.28				
10	QPSK	25	37	19.21	19.27	19.14				
10	QPSK	50	0	19.16	19.28	19.20				
10	QPSK	50	12	19.11	19.28	19.21				
10	QPSK	50	37	19.11	19.28	19.21				
10	HQAM	1	0	19.11	19.28	19.21				
10	HQAM	1	49	19.11	19.28	19.21				
10	HQAM	1	99	19.11	19.28	19.21				
10	HQAM	8	99	19.11	19.28	19.21				
10	HQAM	50	12	19.11	19.28	19.21				
10	HQAM	50	37	19.11	19.28	19.21				
10	HQAM	50	99	19.11	19.28	19.21				
10	HQAM	100	0	19.11	19.28	19.21				
10	HQAM	1	49	19.11	19.28	19.21				
10	HQAM	8	99	19.11	19.28	19.21				
10	HQAM	25	0	19.21	19.38	19.27				
10	HQAM	25	12	19.21	19.38	19.27				
10	HQAM	25	37	19.21	19.38	19.27				
10	HQAM	50	12	19.21	19.38	19.27				
10	HQAM	50	37	19.21	19.38	19.27				
10	HQAM	50	99	19.21	19.38	19.27				
10	HQAM	100	0	19.24	19.19	19.27				
10	HQAM	1	49	19.23	19.20	19.27				
10	HQAM	8	99	19.23	19.20	19.27				
10	HQAM	25	0	19.20	19.22	19.25				
10	HQAM	25	12	19.20	19.15	19.21				
10	HQAM	25	37	19.20	19.15	19.21				
10	HQAM	50	12	19.20	19.15	19.21				
10	HQAM	50	37	19.20	19.15	19.21				
10	HQAM	50	99	19.20	19.15	19.21				
10	HQAM	100	0	19.24	19.19	19.27				
10	HQAM	1	49	19.23	19.20	19.27				
10	HQAM	8	99	19.23	19.20	19.27				
10	HQAM	25	0	19.20	19.22	19.25				
10	HQAM	25	12	19.20	19.15	19.21				
10	HQAM	25	37	19.20	19.15	19.21				
10	HQAM	50	12	19.20	19.15	19.21				
10	HQAM	50	37	19.20	19.15	19.21				
10	HQAM	50	99	19.20	19.15	19.21				
10	HQAM	100	0	19.24	19.19	19.27				
10	HQAM	1	49	19.23	19.20	19.27				
10	HQAM	8	99	19.23	19.20	19.27				
10	HQAM	25	0	19.20	19.22	19.25				
10	HQAM	25	12	19.20	19.15	19.21				
10	HQAM	25	37	19.20	19.15	19.21				
10	HQAM	50	12	19.20	19.15	19.21				
10	HQAM	50	37	19.20	19.15	19.21				
10	HQAM	50	99	19.20	19.15	19.21				
10	HQAM	100	0	19.24	19.19	19.27				
10	HQAM	1	49	19.23	19.20	19.27				
10	HQAM	8	99	19.23	19.20	19.27				
10	HQAM	25	0	19.20	19.22	19.25				
10	HQAM	25	12	19.20	19.15	19.21				
10	HQAM	25	37	19.20	19.15	19.21				
10	HQAM	50	12	19.20	19.15	19.21				
10	HQAM	50	37	19.20	19.15	19.21				
10	HQAM	50	99	19.20	19.15	19.21				
10	HQAM	100	0	19.24	19.19	19.27				
10	HQAM	1	49	19.23	19.20	19.27				
10	HQAM	8	99	19.23	19.20	19.27				
10	HQAM	25	0	19.20	19.22	19.25				
10	HQAM	25	12	19.20	19.15	19.21				
10	HQAM	25	37	19.20	19.15	19.21				
10	HQAM	50	12	19.20	19.15	19.21				
10	HQAM	50	37	19.20	19.15	19.21				
10	HQAM	50	99	19.20	19.15	19.21				
10	HQAM	100	0	19.24	19.19	19.27				
10	HQAM	1	49	19.23	19.20	19.27				
10	HQAM	8	99	19.23	19.20	19.27				
10	HQAM	25	0	19.20	19.22	19.25				
10	HQAM	25	12	19.20	19.15	19.21				
10	HQAM	25	37	19.20	19.15	19.21				
10	HQAM	50	12	19.20	19.15	19.21				
10	HQAM	50	37	19.20	19.15	19.21				
10	HQAM	50	99	19.20	19.15	19.21				
10	HQAM	100	0	19.24	19.19	19.27				
10	HQAM	1	49	19.23	19.20	19.27				
10	HQAM	8	99	19.23	19.20	19.27				
10	HQAM	25	0	19.20	19.22	19.25				
10	HQAM	25	12	19.20	19.15	19.21				
10	HQAM	25	37	19.20	19.15	19.21				
10	HQAM	50	12	19.20	19.15	19.21				
10	HQAM	50	37	19.20	19.15	19.21				
10	HQAM	50	99	19.20	19.15	19.21				
10	HQAM	100	0	19.24	19.19	19.27				
10										





Band 12 Ant1 DS16										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
792										
10	QPSK	1	0	2178	2178	2178				
10	QPSK	1	35	2173	2179	2187	22.8	0		
10	QPSK	1	40	2168	2183	2187				
10	QPSK	35	0	2145	2181	2184				
10	QPSK	35	12	2141	2146	2141	22.8	0		
10	QPSK	35	25	2140	2153	2130				
10	QPSK	35	0	2095	2097	2045				
10	HQAM	1	0	2147	2154	2139				
10	HQAM	1	25	2134	2150	2136	22.8	0		
10	HQAM	40	0	2140	2147	2136				
10	HQAM	35	0	2092	2091	2049				
10	HQAM	35	12	2093	2097	2055	22	0.8		
10	HQAM	35	25	2043	2055	2042				
10	HQAM	50	0	2018	2050	2024				
10	HQAM	1	0	2096	2096	2055				
10	HQAM	1	35	2073	2071	2050	22	0.8		
10	HQAM	1	40	2036	2058	2038				
10	HQAM	35	0	1945	1940	1938				
10	HQAM	35	12	1942	1948	1939	21	1.8		
10	HQAM	35	25	1934	1947	1933				
10	HQAM	50	0	1939	1937	1943				
10	ZSSBQAM	1	0	1757	1735	1764				
10	ZSSBQAM	1	35	1748	1750	1763	19	3.8		
10	ZSSBQAM	1	40	1746	1755	1761				
10	ZSSBQAM	35	0	1742	1757	1743				
10	ZSSBQAM	35	12	1743	1751	1743	19	3.8		
10	ZSSBQAM	35	25	1754	1751	1749				
10	ZSSBQAM	50	0	1727	1739	1738				
Channel										
Frequency (MHz)										
701.5										
5	QPSK	1	0	2175	2187	2184				
5	QPSK	1	35	2166	2184	2176	22.8	0		
5	QPSK	1	40	2162	2185	2173				
5	QPSK	12	0	2136	2153	2129				
5	QPSK	12	7	2135	2151	2128	22.8	0		
5	QPSK	12	13	2136	2140	2125				
5	QPSK	25	0	2114	2123	2111				
5	HQAM	1	0	2144	2151	2133				
5	HQAM	1	12	2124	2150	2131	22.8	0		
5	HQAM	1	25	2114	2145	2141				
5	HQAM	12	0	2048	2048	2040	22	0.8		
5	HQAM	12	7	2033	2028	2040				
5	HQAM	12	13	2026	2026	2047				
5	HQAM	25	0	2008	2041	2021	22	0.8		
5	HQAM	1	0	2046	2040	2038				
5	HQAM	1	24	2025	2043	2023	22	0.8		
5	HQAM	12	0	1932	1941	1928				
5	HQAM	12	7	1938	1943	1933				
5	HQAM	12	13	1924	1935	1921	21	1.8		
5	HQAM	25	0	1911	1923	1930				
5	ZSSBQAM	1	0	1743	1752	1760				
5	ZSSBQAM	1	12	1738	1745	1749	19	3.8		
5	ZSSBQAM	1	24	1739	1746	1751				
5	ZSSBQAM	12	0	1737	1745	1738				
5	ZSSBQAM	12	7	1737	1730	1728	19	3.8		
5	ZSSBQAM	12	13	1741	1741	1741				
5	ZSSBQAM	25	0	1715	1729	1717				
Channel										
Frequency (MHz)										
2303										
3	QPSK	1	0	2173	2181	2187				
3	QPSK	1	8	2167	2182	2175	22.8	0		
3	QPSK	14	0	2174	2180	2174				
3	QPSK	8	0	2141	2148	2133				
3	QPSK	8	4	2136	2131	2136	22.8	0		
3	QPSK	7	0	2138	2146	2122				
3	QPSK	16	0	2120	2127	2107				
3	HQAM	1	0	2143	2140	2126				
3	HQAM	1	8	2140	2140	2123	22.8	0		
3	HQAM	1	14	2116	2137	2125				
3	HQAM	8	0	2095	2048	2044				
3	HQAM	8	4	2027	2030	2039	22	0.8		
3	HQAM	8	7	2037	2048	2029				
3	HQAM	1	0	2013	2038	2006				
3	HQAM	1	0	2043	2045	2044				
3	HQAM	1	8	2065	2065	2055	22	0.8		
3	HQAM	1	14	2023	2023	2021				
3	HQAM	8	0	1941	1934	1924				
3	HQAM	8	4	1938	1942	1931	21	1.8		
3	HQAM	8	7	1938	1933	1926				
3	HQAM	16	0	1921	1929	1935				
3	ZSSBQAM	1	0	1744	1746	1747				
3	ZSSBQAM	1	8	1744	1745	1750	19	3.8		
3	ZSSBQAM	1	14	1757	1771	1749				
3	ZSSBQAM	8	0	1738	1745	1738				
3	ZSSBQAM	8	4	1735	1735	1728	19	3.8		
3	ZSSBQAM	8	7	1746	1741	1735				
3	ZSSBQAM	16	0	1749	1744	1733				
Channel										
Frequency (MHz)										
2303.5										
1.4	QPSK	1	0	2172	2180	2184				
1.4	QPSK	1	3	2163	2179	2184	22.8	0		
1.4	QPSK	1	5	2166	2188	2176				
1.4	QPSK	1	14	2181	2186	2176				
1.4	QPSK	3	1	2161	2185	2179				
1.4	QPSK	3	3	2178	2182	2184				
1.4	QPSK	6	0	2140	2150	2133	22.8	0		
1.4	HQAM	1	0	2138	2140	2128				
1.4	HQAM	1	3	2146	2146	2125				
1.4	HQAM	1	5	2118	2129	2112	22.8	0		
1.4	HQAM	3	0	2133	2149	2124				
1.4	HQAM	3	1	2133	2148	2131				
1.4	HQAM	3	3	2107	2137	2128				
1.4	HQAM	6	0	2056	2047	2038	22	0.8		
1.4	HQAM	1	0	2029	2026	2036				
1.4	HQAM	1	3	2034	2044	2029				
1.4	HQAM	1	6	2007	2038	2019	22	0.8		
1.4	HQAM	3	0	2045	2038	2040				
1.4	HQAM	3	1	2061	2063	2049				
1.4	HQAM	6	0	1941	1939	1926	21	1.8		
1.4	ZSSBQAM	1	0	1746	1747	1750				
1.4	ZSSBQAM	1	3	1738	1741	1746				
1.4	ZSSBQAM	1	5	1750	1770	1751	19	3.8		
1.4	ZSSBQAM	3	0	1729	1751	1735				
1.4	ZSSBQAM	3	1	1743	1728	1724				
1.4	ZSSBQAM	3	3	1741	1737	1735				
1.4	ZSSBQAM	6	0	1722	1732	1716	19	3.8		

Band 13 Ant1 Default										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
792										
10	QPSK	1	0	2249	2252	2241				
10	QPSK	1	25	2243	2252	2241	23.5	0		
10	QPSK	1	40	2246	2238	2238				
10	QPSK	35	0	2215	2217	2217				
10	QPSK	35	12	2215	2215	2215	23	0.5		
10	QPSK	35	25	2210	2210	2210				
10	HQAM	1	0	2188	2188	2188				
10	HQAM	1	25	2180	2180	2180	23	0.5		
10	HQAM	1	40	2179	2179	2179				
10	HQAM	25	0	2037	2037	2037				
10	HQAM	25	12	2031	2031	2031	22	1.5		
10	HQAM	25	25	2030	2030	2030				
10	HQAM	50	0	2071	2071	2071				
10	HQAM	1	0	2030	2030	2030				
10	HQAM	1	25	2034	2034	2034	22	1.5		
10	HQAM	1	40	2034	2034	2034				
10	HQAM	25	0	1930	1930	1930				
10	HQAM	25	12	1934	1934	1934	21	2.5		
10	HQAM	25	25	1932	1932	1932				
10	HQAM	50	0	1932	1932	1932				
10	ZSSBQAM	1	0	1732	1732	1732				
10	ZSSBQAM	1	25	1733	1733	1733	19	4.5		
10	ZSSBQAM	1	40	1733	1733	1733				
10	ZSSBQAM	25	0	1734	1734	1734				
10	ZSSBQAM	25	12	1734	1734	1734	19	4.5		
10	ZSSBQAM	25	25	1738	1738	1738				
10	ZSSBQAM	50	0	1735	1735	1735				
Channel										
Frequency (MHz)										
2303.5										
5	QPSK	1	0	2249	2252	2241				
5	QPSK	1	10	2240	2238	2238	23.5	0		
5	QPSK	1	24	2238	2234	2230				
5	QPSK	12	0	2158	2159	2155				
5	QPSK	12	7	2155	2158	2151	23	0.5		
5	QPSK	12	13	2149	2146	2151				
5	QPSK	25	0	2157	2156	2154				
5	HQAM	1	0	2157	2154	2150				
5	HQAM	1	12	2159	2156	2158	23	0.5		
5	HQAM	1	24	2161	2159	2148				
5	HQAM	12	0	2077	2070	2084	22	1.5		
5	HQAM	12	7	2043	2040	2048				
5	HQAM	12	13	2037	2031	2066				
5	HQAM	25	0	2039	20					



Band 26 Ant1 Default										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Peak Ch / Freq	Turn-up (min)	MPR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	821.2	831.5	841.5				
15	QPSK	1	0	2224	2230	2232				
15	QPSK	1	0	2225	2232	2234				
15	QPSK	1	74	2226	2234	2227	24	0		
15	QPSK	0	0	2244	2252	2254				
15	QPSK	36	20	2130	2140	2138				
15	QPSK	36	38	2131	2135	2133				
15	QPSK	0	0	2143	2151	2153				
15	HQAM	1	0	2150	2150	2139				
15	HQAM	1	37	2138	2146	2139	23	1		
15	HQAM	74	1	2146	2141	2138				
15	HQAM	36	0	2059	2059	2045				
15	HQAM	36	20	2059	2059	2055				
15	HQAM	36	30	2045	2053	2043	22	2		
15	HQAM	75	0	2024	2053	2028				
15	HQAM	1	0	2076	2066	2066				
15	HQAM	1	37	2059	2067	2054	22	2		
15	HQAM	1	74	2044	2061	2033				
15	HQAM	1	24	2046	2035	2035				
15	HQAM	36	20	1838	1851	1838	21	3		
15	HQAM	36	38	1842	1850	1837				
15	HQAM	75	0	1823	1838	1838				
15	HQAM	1	0	1753	1774	1766				
15	HQAM	1	37	1748	1756	1750	19	5		
15	HQAM	74	1	1751	1751	1752				
15	HQAM	36	0	1746	1749	1733				
15	HQAM	36	20	1746	1749	1745				
15	HQAM	36	30	1754	1745	1755	19	5		
15	HQAM	75	0	1732	1742	1729				
Channel										
Frequency (MHz)										
10	QPSK	1	0	819	831.5	844				
10	QPSK	1	0	2224	2230	2222				
10	QPSK	1	0	2215	2224	2224				
10	QPSK	1	40	2221	2224	2213	24	0		
10	QPSK	25	0	2140	2138	2138				
10	QPSK	12	0	2132	2141	2132				
10	QPSK	25	25	2120	2121	2120	23	1		
10	QPSK	50	0	2120	2132	2115				
10	HQAM	1	0	2145	2142	2127				
10	HQAM	1	25	2124	2143	2132	23	1		
10	HQAM	1	48	2121	2129	2121				
10	HQAM	25	0	2045	2046	2032				
10	HQAM	25	12	2034	2027	2043	22	2		
10	HQAM	25	20	2034	2027	2038				
10	HQAM	50	0	2018	2040	2014				
10	HQAM	1	0	2031	2048	2043				
10	HQAM	1	25	2034	2044	2044				
10	HQAM	1	48	2038	2058	2018	22	2		
10	HQAM	25	0	1926	1941	1929				
10	HQAM	12	0	1931	1931	1931				
10	HQAM	25	25	1938	1934	1931	21	3		
10	HQAM	50	0	1938	1934	1935				
10	HQAM	1	0	1738	1754	1753				
10	HQAM	1	25	1748	1749	1752	19	5		
10	HQAM	25	0	1733	1754	1722				
10	HQAM	25	12	1735	1737	1729				
10	HQAM	25	20	1745	1741	1741	19	5		
10	HQAM	50	0	1718	1731	1721				
Channel										
Frequency (MHz)										
5	QPSK	1	0	2228	2232	2222				
5	QPSK	1	12	2216	2228	2230	24	0		
5	QPSK	24	0	2141	2142	2132				
5	QPSK	12	0	2138	2138	2135				
5	QPSK	12	7	2120	2133	2131	23	1		
5	QPSK	25	0	2132	2142	2132				
5	QPSK	25	0	2119	2131	2107				
5	HQAM	1	0	2138	2142	2127				
5	HQAM	1	12	2135	2142	2138	23	1		
5	HQAM	1	24	2113	2130	2131				
5	HQAM	1	25	2055	2055	2051				
5	HQAM	12	7	2043	2033	2039	22	2		
5	HQAM	12	13	2040	2041	2039				
5	HQAM	1	0	2034	2046	2046				
5	HQAM	1	0	2034	2042	2045				
5	HQAM	1	12	2030	2053	2044	22	2		
5	HQAM	1	24	2030	2051	2047				
5	HQAM	12	0	1920	1940	1930				
5	HQAM	12	7	1931	1937	1932	21	3		
5	HQAM	13	0	1931	1936	1933				
5	HQAM	25	0	1825	1827	1825				
5	HQAM	1	0	1745	1755	1754				
5	HQAM	1	24	1756	1748	1741	19	5		
5	HQAM	13	0	1748	1747	1754				
5	HQAM	12	7	1734	1733	1728				
5	HQAM	12	13	1743	1742	1748	19	5		
5	HQAM	25	0	1721	1728	1720				
Channel										
Frequency (MHz)										
3	QPSK	1	0	815.2	826.5	847.5				
3	QPSK	1	8	2214	2229	2230	24	0		
3	QPSK	1	14	2211	2223	2223				
3	QPSK	8	4	2131	2132	2135				
3	QPSK	8	7	2119	2125	2126	23	1		
3	QPSK	1	0	2127	2132	2115				
3	HQAM	1	0	2146	2146	2125	23	1		
3	HQAM	1	8	2135	2142	2135				
3	HQAM	1	14	2118	2137	2128				
3	HQAM	1	0	2052	2055	2034				
3	HQAM	1	4	2036	2038	2031	22	2		
3	HQAM	8	7	2033	2048	2032				
3	HQAM	15	0	2010	2043	2017				
3	HQAM	1	0	2036	2046	2043				
3	HQAM	1	8	2050	2063	2044	22	2		
3	HQAM	1	16	2034	2053	2021				
3	HQAM	8	0	1937	1936	1926				
3	HQAM	8	4	1935	1941	1923	21	3		
3	HQAM	15	0	1827	1836	1826				
3	HQAM	15	0	1747	1761	1758				
3	HQAM	1	0	1748	1747	1754	19	5		
3	HQAM	1	8	1750	1770	1743				
3	HQAM	8	0	1735	1742	1720				
3	HQAM	8	4	1723	1724	1721	19	5		
3	HQAM	8	7	1750	1740	1744				
3	HQAM	15	0	1725	1733	1715				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	2222	2228	2221				
1.4	QPSK	3	0	2211	2221	2226				
1.4	QPSK	1	5	2223	2229	2222	24	0		
1.4	QPSK	3	0	2244	2235	2223				
1.4	QPSK	3	1	2230	2229	2223				
1.4	QPSK	3	3	2214	2221	2214				
1.4	QPSK	1	0	2129	2140	2136	23	1		
1.4	HQAM	1	3	2123	2151	2124				
1.4	HQAM	1	5	2126	2126	2121				
1.4	HQAM	3	0	2140	2148	2133	23	1		
1.4	HQAM	3	1	2125	2151	2133				
1.4	HQAM	1	0	2047	2059	2031	22	2		
1.4	HQAM	1	0	2037	2036	2041				
1.4	HQAM	3	0	2037	2047	2044				
1.4	HQAM	3	0	2035	2036	2044				
1.4	HQAM	3	3	2038	2058	2018	22	2		
1.4	HQAM	1	0	1750	1762	1754	21	3		
1.4	HQAM	1	3	1737	1752	1752				
1.4	HQAM	3	0	1748	1746	1744				
1.4	HQAM	3	0	1735	1745	1727	19	5		
1.4	HQAM	3	1	1714	1735	1722				
1.4	HQAM	3	3	1743	1738	1743				
1.4	HQAM	8	0	1725	1738	1720	19	5		

Band 66 Ant1 DS16										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq						



Band 38 Ant1 Default										
RF (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Time-up (min)	MPR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.83	22.87	22.88			23	0
20	QPSK	1	40	22.15	22.21	22.20				
20	QPSK	1	80	22.15	22.21	22.20				
20	QPSK	50	0	21.22	21.20	21.25			22	1
20	QPSK	50	24	21.15	21.20	21.20				
20	QPSK	50	50	21.10	21.23	21.11				
20	QPSK	100	0	21.18	21.21	21.15				
20	16QAM	1	0	21.28	21.28	21.28			22	1
20	16QAM	1	40	21.23	21.27	21.28				
20	16QAM	1	80	21.27	21.26	21.15				
20	16QAM	50	0	20.37	20.41	20.45			21	2
20	16QAM	50	24	20.38	20.32	20.27				
20	16QAM	100	0	20.27	20.32	20.41				
20	8QAM	1	0	20.37	20.40	20.37			21	2
20	8QAM	1	40	20.26	20.29	20.26				
20	8QAM	1	80	20.29	20.30	20.20				
20	8QAM	50	0	19.24	19.25	19.17			20	3
20	8QAM	50	24	19.15	19.21	19.17				
20	8QAM	100	0	19.28	19.40	19.32				
20	25QAM	1	0	17.85	17.46	17.23			18	5
20	25QAM	1	40	17.27	17.18	17.24				
20	25QAM	1	80	17.02	17.03	17.18				
20	25QAM	50	0	17.11	17.19	17.16				
20	25QAM	50	24	16.85	17.01	17.06				
20	25QAM	100	0	17.05	17.10	17.03				
20	25QAM	100	0	17.02	17.11	16.91				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.29	22.29	22.14			23	0
15	QPSK	1	74	22.67	22.15	22.10				
15	QPSK	36	0	21.12	21.13	21.12			22	1
15	QPSK	36	20	21.12	21.13	21.12				
15	QPSK	36	36	21.05	21.17	21.01				
15	QPSK	36	74	21.14	21.08	21.07				
15	16QAM	1	0	21.17	21.20	21.07			22	1
15	16QAM	1	74	21.16	21.11	21.11				
15	16QAM	36	0	20.30	20.37	20.30			21	2
15	16QAM	36	20	20.33	20.34	20.13				
15	16QAM	36	36	20.14	20.32	20.13				
15	16QAM	79	0	20.24	20.17	19.92			21	2
15	8QAM	1	0	20.25	20.25	20.24				
15	8QAM	1	37	20.21	20.23	20.29				
15	8QAM	1	74	20.16	20.16	20.16				
15	8QAM	36	0	19.12	19.20	19.22			20	3
15	8QAM	36	20	19.05	19.15	19.10				
15	8QAM	79	0	19.17	19.20	19.02				
15	25QAM	1	0	17.20	17.14	17.13			18	5
15	25QAM	1	74	17.25	17.28	17.10				
15	25QAM	36	0	16.81	16.86	16.88			18	5
15	25QAM	36	20	16.86	16.87	16.88				
15	25QAM	79	0	16.89	16.89	16.87				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.21	22.22	22.16			23	0
10	QPSK	1	25	22.08	22.26	22.08				
10	QPSK	1	50	22.10	22.11	22.11				
10	QPSK	28	0	21.15	21.15	21.16			22	1
10	QPSK	28	12	21.10	21.11	21.11				
10	QPSK	28	25	21.15	21.13	21.13				
10	QPSK	50	0	21.08	21.08	21.05				
10	16QAM	1	0	21.09	21.26	21.31			22	1
10	16QAM	1	40	21.18	21.20	21.03				
10	16QAM	28	0	20.11	20.17	20.17			21	2
10	16QAM	28	12	20.11	20.15	20.11				
10	8QAM	1	0	20.29	20.34	20.31			21	2
10	8QAM	1	20	20.17	20.28	20.26				
10	8QAM	1	40	20.11	20.24	20.17				
10	8QAM	25	0	19.19	19.30	19.16			20	3
10	8QAM	25	12	19.05	19.09	19.04				
10	8QAM	50	0	18.24	18.32	18.21			20	3
10	8QAM	50	12	18.15	18.21	18.17				
10	25QAM	1	0	17.22	17.32	17.19			18	5
10	25QAM	1	25	17.23	17.15	17.18				
10	25QAM	28	0	17.83	17.07	17.05			18	5
10	25QAM	28	12	18.62	17.91	18.07				
10	25QAM	50	0	18.91	17.94	18.34				
10	25QAM	50	0	18.89	17.07	18.80				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.21	22.26	22.20			23	0
5	QPSK	1	12	22.12	22.23	22.07				
5	QPSK	1	24	22.10	22.20	22.10				
5	QPSK	12	0	21.11	21.15	21.13			22	1
5	QPSK	12	13	21.08	21.18	21.07				
5	QPSK	20	0	21.11	21.08	21.11				
5	16QAM	1	0	21.22	21.33	21.41			22	1
5	16QAM	1	12	21.14	21.26	21.23				
5	16QAM	1	24	21.02	21.14	21.05				
5	16QAM	12	0	20.34	20.27	20.36			21	2
5	16QAM	12	7	20.12	20.16	20.16				
5	16QAM	12	13	20.11	20.37	20.16				
5	16QAM	20	0	20.20	20.22	19.95			21	2
5	8QAM	1	0	20.30	20.33	20.32				
5	8QAM	1	12	20.23	20.26	20.26				
5	8QAM	1	24	20.23	20.27	20.10				
5	8QAM	12	0	19.27	19.29	19.22			20	3
5	8QAM	12	7	19.19	19.13	19.22				
5	8QAM	12	13	19.16	19.25	19.16				
5	8QAM	20	0	19.25	19.25	19.22			18	5
5	25QAM	1	0	17.28	17.27	17.40				
5	25QAM	1	12	17.11	17.20	17.17				
5	25QAM	1	24	17.20	17.30	17.40				
5	25QAM	12	0	17.09	17.03	17.05			18	5
5	25QAM	12	7	17.02	16.95	17.04				
5	25QAM	12	13	16.94	16.99	17.06				
5	25QAM	20	0	16.98	16.98	16.93				

Band 41 Ant1 Default										
RF (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Time-up (min)	MPR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.26	22.27	22.29	22.32	22.28	23	0
20	QPSK	1	40	22.27	22.18	22.22	22.21	22.18		
20	QPSK	1	80	22.14	22.28	22.30	21.26	22.11		
20	QPSK	50	0	21.29	21.31	21.30	21.28	21.33	22	1
20	QPSK	50	24	21.23	21.29	21.31	21.24	21.17		
20	QPSK	50	50	21.20	21.17	21.32	21.18	21.24		
20	16QAM	1	0	21.26	21.26	21.33	21.30	21.30		
20	16QAM	1	40	21.21	21.28	21.44	21.40	21.39	22	1
20	16QAM	1	80	21.40	21.33	21.44	21.40	21.39		
20	16QAM	50	0	20.33	20.32	20.31	20.17	20.23		
20	16QAM	50	24	20.17	20.28	20.32	20.35	20.19	21	2
20	16QAM	100	0	20.31	20.32	20.36	20.12	20.30		
20	8QAM	1	0	20.37	20.43	20.52	20.40	20.39	21	2
20	8QAM	1	40	20.26	20.29	20.26	20.40	20.31		
20	8QAM	1	80	20.24	20.30	20.32	20.21	20.29		
20	8QAM	50	0	19.24	19.21	19.25	19.27	19.24	20	3
20	8QAM	50	24	19.24	19.21	19.25	19.27	19.24		
20	8QAM	100	0	19.29	19.31	19.42	19.42	19.36		
20	25QAM	1	0	17.86	17.42	17.60	17.26	17.43	18	5
20	25QAM	1	40	17.14	17.27	17.25	17.24	17.19		
20	25QAM	1	80	17.03	17.44	17.47	17.25	17.37		
20	25QAM	50	0	17.11	17.19	17.24	17.17	17.12		
20	25QAM	50	24	17.02	17.08	17.05	17.06	17.02	18	5
20	25QAM	100	0	17.08	17.09	17.21	17.11	17.10		
20	25QAM	100	0	17.02	17.10	17.12	16.88	17.04		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.06	22.14	22.05	22.09	22.14	23	0
15	QPSK	1	74	21.86	21.77	21.87	21.79	21.88		
15	QPSK	36	0	21.07	21.10	21.19	21.12	21.03	22	1
15	QPSK	36	20	21.07	21.16	21.19	21.12	21.03		
15	QPSK	36	36	21.23	21.04	21.24	21.12	21.20		
15	QPSK	36	74	21.12	21.08	21.24	21.09	21.18		
15	16QAM	1	0	21.22	21.30	21.32	21.00	21.20	22	1
15	16QAM	1	74	21.22	21.21	21.10	21.04	21.16		
15	16QAM	36	0	20.15	20.32	20.30	20.40	20.26	21	2
15	16QAM	36	20	20.21	20.18	20.21	20.21	20.11		
15	16QAM	36	36	20.27	20.23	20.40	20.24	20.24		
15	16QAM	79	0	20.16	20.18	20.24	20.20	20.15		
15	8QAM	1	0	20.29	20.37	20.38	20.36	20.31	21	2
15	8QAM	1	37	20.21	20.23	20.29	20.26	20.23	</	



Band 48\_FCC Ant2 DSI6

BW [MHz]	Modulation	RB Size	RB Offset	Power				Tune-up limit [dBm]	MPO [dB]
				Level [Ch. / Freq.]	Min. [Ch. / Freq.]	Max. [Ch. / Freq.]	Ch. / Freq.]		
Channel									
Frequency [MHz]				55340	55830	56150	56640		
20	QPSK	1	0	18.90	18.90	18.90	18.90	20.3	0
20	QPSK	1	49	18.90	18.94	18.94	18.94		
20	QPSK	1	49	18.90	19.00	19.00	19.00		
20	QPSK	50	0	18.80	19.00	19.01	19.06	20.3	0
20	QPSK	50	34	18.80	18.90	18.90	18.91		
20	QPSK	50	50	18.90	18.98	19.00	19.05		
20	QPSK	100	0	18.80	19.00	19.06	19.06		
20	16QAM	1	0	18.87	18.88	18.92	18.94	20.3	0
20	16QAM	1	49	18.84	18.96	18.99	19.07		
20	16QAM	1	99	18.75	18.96	19.02	19.09		
20	16QAM	50	0	18.85	18.96	18.97	18.93		
20	16QAM	50	34	18.70	19.06	19.09	19.05	20.3	0
20	16QAM	50	49	18.82	19.06	19.00	19.06		
20	16QAM	100	0	18.87	18.88	18.78	18.79		
20	64QAM	1	0	18.87	18.85	18.82	18.90	20.3	0
20	64QAM	1	49	18.80	18.94	18.94	18.91		
20	64QAM	1	99	18.94	18.91	18.93	18.95		
20	64QAM	50	0	18.77	18.76	18.84	18.75		
20	64QAM	50	34	18.74	18.74	18.72	18.81	20.3	0
20	64QAM	50	50	18.83	18.80	18.89	18.78		
20	64QAM	100	0	18.83	18.93	18.85	18.90		
20	256QAM	1	0	18.18	18.41	18.22	18.37	19	1.3
20	256QAM	1	49	18.15	18.19	18.25	18.22		
20	256QAM	1	99	18.10	18.38	18.29	18.29		
20	256QAM	50	0	17.67	18.13	18.02	18.05	19	1.3
20	256QAM	50	34	17.60	18.00	18.05	17.99		
20	256QAM	50	50	18.10	18.28	18.14	18.12		
20	256QAM	100	0	17.67	18.10	17.62	18.01		
Channel									
Frequency [MHz]				36574	36908	37421	36924		
15	QPSK	1	0	18.00	18.10	18.02	18.83	20.3	0
15	QPSK	1	47	18.83	18.86	18.87	18.84		
15	QPSK	1	74	18.84	19.04	19.06	18.99		
15	QPSK	36	0	18.81	19.00	18.93	18.96	20.3	0
15	QPSK	36	30	18.70	18.83	18.81	18.82		
15	QPSK	36	50	18.80	18.80	18.87	18.68		
15	QPSK	36	84	18.77	18.89	18.87	18.74		
15	16QAM	1	0	18.74	18.76	18.70	18.81	20.3	0
15	16QAM	1	37	18.70	18.74	18.74	18.74		
15	16QAM	1	74	18.62	18.97	18.93	18.92		
15	16QAM	36	0	18.70	18.81	18.84	18.89	20.3	0
15	16QAM	36	30	18.67	18.97	19.03	18.92		
15	16QAM	36	50	18.80	18.96	18.97	18.78		
15	16QAM	75	0	18.81	18.81	18.70	18.89		
15	64QAM	1	0	18.74	18.74	18.70	18.82	20.3	0
15	64QAM	1	37	18.84	18.85	18.51	18.77		
15	64QAM	1	74	18.80	18.90	18.84	18.96		
15	64QAM	36	0	18.62	18.83	18.54	18.71		
15	64QAM	36	30	18.63	18.94	18.60	18.69	20.3	0
15	64QAM	36	50	18.70	18.92	18.62	18.62		
15	64QAM	75	0	18.69	18.88	18.83	18.74		
15	256QAM	1	0	18.11	18.11	18.11	18.22	19	1.3
15	256QAM	1	37	18.00	18.05	18.15	18.00		
15	256QAM	1	74	18.13	18.25	18.02	18.19		
15	256QAM	36	0	17.85	18.06	17.84	17.88	19	1.3
15	256QAM	36	30	17.88	17.92	17.69	17.88		
15	256QAM	36	50	18.05	18.16	18.02	18.08		
15	256QAM	75	0	17.91	17.95	17.88	17.94		
Channel									
Frequency [MHz]				56290	56810	56165	56660		
10	QPSK	1	0	19.00	19.00	19.00	19.85	20.3	0
10	QPSK	1	25	18.83	18.82	18.80	18.87		
10	QPSK	1	47	18.83	18.97	19.03	18.93		
10	QPSK	25	0	18.70	18.96	18.84	18.87	20.3	0
10	QPSK	25	12	18.67	18.86	18.80	18.81		
10	QPSK	25	25	18.80	18.85	18.82	18.77		
10	QPSK	50	0	18.78	18.87	18.85	18.78		
10	16QAM	1	0	18.60	18.80	18.85	18.71	20.3	0
10	16QAM	1	26	18.72	18.88	18.80	19.01		
10	16QAM	1	49	18.68	18.87	18.92	18.88		
10	16QAM	25	0	18.70	18.74	18.73	18.90	20.3	0
10	16QAM	25	12	18.60	18.92	19.00	18.90		
10	16QAM	25	26	18.80	18.81	18.96	18.84		
10	16QAM	50	0	18.70	18.84	18.72	18.84		
10	64QAM	1	0	18.80	18.78	18.70	18.80	20.3	0
10	64QAM	1	26	18.71	18.87	18.88	18.79		
10	64QAM	1	49	18.84	18.86	18.80	18.87		
10	64QAM	25	0	18.72	18.86	18.84	18.81		
10	64QAM	25	12	18.67	18.86	18.82	18.87	20.3	0
10	64QAM	25	26	18.60	18.87	18.84	18.66		
10	64QAM	50	0	18.70	18.86	18.77	18.74		
10	256QAM	1	0	18.00	18.36	18.09	18.32	19	1.3
10	256QAM	1	26	18.03	18.16	18.16	18.18		
10	256QAM	1	49	18.04	18.33	18.05	18.18		
10	256QAM	25	0	17.81	18.04	17.87	17.97	19	1.3
10	256QAM	25	12	17.80	17.99	17.82	17.88		
10	256QAM	25	26	17.90	18.23	18.01	18.03		
10	256QAM	50	0	17.62	18.06	17.88	17.88		
Channel									
Frequency [MHz]				36524	36970	37433	36975		
5	QPSK	1	0	19.00	19.08	19.00	18.86	20.3	0
5	QPSK	1	12	18.91	19.00	18.85	18.79		
5	QPSK	1	24	18.82	19.00	19.01	18.96		
5	QPSK	12	0	18.70	18.86	18.80	18.86	20.3	0
5	QPSK	12	7	18.74	18.80	18.81	18.70		
5	QPSK	12	13	18.88	18.89	18.84	18.89		
5	QPSK	25	0	18.71	18.94	18.80	18.75		
5	16QAM	1	0	18.60	18.77	18.79	18.75	20.3	0
5	16QAM	1	12	18.75	18.87	18.80	18.95		
5	16QAM	1	24	18.70	19.00	18.88	18.88		
5	16QAM	12	0	18.70	18.73	18.84	18.87	20.3	0
5	16QAM	12	7	18.67	18.92	19.00	18.87		
5	16QAM	12	13	18.90	18.92	18.87	18.77		
5	16QAM	25	0	18.70	18.83	18.72	18.88		
5	64QAM	1	0	18.72	18.73	18.73	18.87	20.3	0
5	64QAM	1	12	18.70	18.83	18.51	18.83		
5	64QAM	1	24	18.60	18.88	18.93	18.82		
5	64QAM	12	0	18.62	18.86	18.83	18.84		
5	64QAM	12	7	18.64	18.84	18.62	18.75	20.3	0
5	64QAM	12	13	18.71	18.70	18.81	18.64		
5	64QAM	25	0	18.70	18.84	18.74	18.78		
5	256QAM	1	0	18.13	18.28	18.12	18.31	19	1.3
5	256QAM	1	12	18.11	18.09	18.19	18.18		
5	256QAM	1	24	18.07	18.34	18.09	18.19		
5	256QAM	12	0	17.80	18.00	17.80	17.86	19	1.3
5	256QAM	12	7	17.88	17.92	17.81	17.80		
5	256QAM	12	13	17.68	18.23	18.00	17.99		
5	256QAM	25	0	17.88	18.00	17.85	17.85		



### Uplink CA Power

Ant0 Full Power&DSI2									
CA_7C									
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	21.40	23.00	
21100	21298	QPSK	1	99	1	0	21.51	23.00	
21350	21152	QPSK	1	0	1	99	21.46	23.00	

Ant1 Full Power									
CA_7C									
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	21.03	23.00	
21100	21298	QPSK	1	99	1	0	21.11	23.00	
21350	21152	QPSK	1	0	1	99	21.07	23.00	

Ant0 Full Power&DSI2									
CA_66C									
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	22.01	23.00	
132322	132520	QPSK	1	99	1	0	22.08	23.00	
132572	132374	QPSK	1	0	1	99	22.06	23.00	

Ant1 Full Power									
CA_66C									
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	21.27	23.00	
132322	132520	QPSK	1	99	1	0	21.31	23.00	
132572	132374	QPSK	1	0	1	99	21.26	23.00	

Ant0 Full Power&DSI2									
CA_41C									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
39750	39948	QPSK	1	99	1	0	23.12	24.00	
40185	40383	QPSK	1	99	1	0	23.2	24.00	
40620	40818	QPSK	1	99	1	0	23.23	24.00	
41055	41253	QPSK	1	99	1	0	23.16	24.00	
41490	41292	QPSK	1	0	1	99	23.09	24.00	

Ant1 Full Power									
CA_41C									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
39750	39948	QPSK	1	99	1	0	22.13	23.00	
40185	40383	QPSK	1	99	1	0	22.03	23.00	
40620	40818	QPSK	1	99	1	0	22.16	23.00	
41055	41253	QPSK	1	99	1	0	22	23.00	
41490	41292	QPSK	1	0	1	99	21.97	23.00	

Ant0 Full power									
CA_5B									
Combination 10MHz+10MHz (50RB+50RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
20450	20549	QPSK	1	49	1	0	22.66	24.00	
20476	20575	QPSK	1	49	1	0	22.81	24.00	
20600	20501	QPSK	1	0	1	49	22.61	24.00	

Ant1 Full power									
CA_5B									
Combination 10MHz+10MHz (50RB+50RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
20450	20549	QPSK	1	49	1	0	22.24	24.00	
20476	20575	QPSK	1	49	1	0	22.35	24.00	
20600	20501	QPSK	1	0	1	49	22.30	24.00	

Ant0 Full power									
CA_66B									
Combination 15MHz+5MHz (75RB+25RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
132047	132140	QPSK	1	74	1	0	22.86	24.00	
132322	132415	QPSK	1	74	1	0	22.91	24.00	
132597	132504	QPSK	1	0	1	24	22.80	24.00	

Ant1 Full power									
CA_66B									
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	21.21	23.00	
132322	132415	QPSK	1	74	1	0	21.26	23.00	
132597	132504	QPSK	1	0	1	24	21.18	23.00	

Ant2 Full power									
CA_48C									
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			
55340	55538	QPSK	1	99	1	0	19.89	21.00	
55830	56028	QPSK	1	99	1	0	20.20	21.00	
56442	56640	QPSK	1	99	1	0	19.81	21.00	



### Uplink CA Down Power

Ant0 DS13										
CA_7C										
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	17.44	18.80		
21100	21298	QPSK	1	99	1	0	17.56	18.80		
21350	21152	QPSK	1	0	1	99	17.49	18.80		

Ant0 DS16										
CA_7C										
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	19.32	21.40		
21100	21298	QPSK	1	99	1	0	19.48	21.40		
21350	21152	QPSK	1	0	1	99	19.46	21.40		

Ant0 DS13										
CA_66C										
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	14.65	16.10		
132322	132520	QPSK	1	99	1	0	14.72	16.10		
132572	132374	QPSK	1	0	1	99	14.70	16.10		

Ant0 DS16										
CA_66C										
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	20.59	21.50		
132322	132520	QPSK	1	99	1	0	20.67	21.50		
132572	132374	QPSK	1	0	1	99	20.51	21.50		

Ant0 DS13										
CA_41C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	19.69	20.60		
40185	40383	QPSK	1	99	1	0	19.77	20.60		
40620	40818	QPSK	1	99	1	0	19.87	20.60		
41055	41253	QPSK	1	99	1	0	19.82	20.60		
41490	41292	QPSK	1	0	1	99	19.74	20.60		

Ant0 DS16										
CA_41C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	22.24	23.20		
40185	40383	QPSK	1	99	1	0	22.16	23.20		
40620	40818	QPSK	1	99	1	0	22.27	23.20		
41055	41253	QPSK	1	99	1	0	22.19	23.20		
41490	41292	QPSK	1	0	1	99	22.11	23.20		

Ant1 DS12										
CA_5B										
Combination 10MHz+10MHz (50RB+50RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
20450	20549	QPSK	1	49	1	0	20.82	21.80		
20476	20575	QPSK	1	49	1	0	20.85	21.80		
20600	20501	QPSK	1	0	1	49	20.78	21.80		

Ant0 DS13										
CA_5B										
Combination 10MHz+10MHz (50RB+50RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
20450	20549	QPSK	1	49	1	0	22.66	23.50		
20476	20575	QPSK	1	49	1	0	22.81	23.50		
20600	20501	QPSK	1	0	1	49	22.61	23.50		

Ant0 DS13										
CA_66B										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	74	1	0	14.70	16.00		
132322	132415	QPSK	1	74	1	0	14.75	16.00		
132597	132504	QPSK	1	0	1	74	14.68	16.00		

Ant0 DS16										
CA_66B										
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	20.64	22.00		
132322	132415	QPSK	1	74	1	0	20.76	22.00		
132597	132504	QPSK	1	0	1	74	20.70	22.00		

Ant2 DS12										
CA_48C										
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				
55340	55538	QPSK	1	99	1	0	12.98	14.40		
55830	56028	QPSK	1	99	1	0	13.05	14.40		
56442	56640	QPSK	1	99	1	0	12.92	14.40		

Ant2 DS13										
CA_48C										
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				
55340	55538	QPSK	1	99	1	0	13.65	14.80		
55830	56028	QPSK	1	99	1	0	13.78	14.80		
56442	56640	QPSK	1	99	1	0	13.68	14.80		



Ant1 DS12		CA_7C							
		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	14.32	16.10	
21100	21298	QPSK	1	99	1	0	14.37	16.10	
21350	21152	QPSK	1	0	1	99	14.30	16.10	

Ant1 DS13		CA_7C							
		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	14.66	15.90	
21100	21298	QPSK	1	99	1	0	14.72	15.90	
21350	21152	QPSK	1	0	1	99	14.63	15.90	

Ant1 DS12		CA_66C							
		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	15.05	16.40	
132322	132520	QPSK	1	99	1	0	15.24	16.40	
132572	132374	QPSK	1	0	1	99	15.18	16.40	

Ant1 DS13		CA_66C							
		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	15.94	17.10	
132322	132520	QPSK	1	99	1	0	16.08	17.10	
132572	132374	QPSK	1	0	1	99	16.03	17.10	

Ant1 DS12		CA_41C							
		Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
39750	39948	QPSK	1	99	1	0	17.27	18.30	
40185	40383	QPSK	1	99	1	0	17.3	18.30	
40620	40818	QPSK	1	99	1	0	17.35	18.30	
41055	41253	QPSK	1	99	1	0	17.22	18.30	
41490	41292	QPSK	1	0	1	99	17.18	18.30	

Ant1 DS13		CA_41C							
		Combination 20MHz+20MHz (100RB+100RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
39750	39948	QPSK	1	99	1	0	18.10	19.30	
40185	40383	QPSK	1	99	1	0	18.14	19.30	
40620	40818	QPSK	1	99	1	0	18.21	19.30	
41055	41253	QPSK	1	99	1	0	18.18	19.30	
41490	41292	QPSK	1	0	1	99	18.06	19.30	

Ant1 DS13		CA_5B							
		Combination 10MHz+10MHz (50RB+50RB)							
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
20450	20549	QPSK	1	49	1	0	22.24	23.40	
20476	20575	QPSK	1	49	1	0	22.35	23.40	
20600	20501	QPSK	1	0	1	49	22.30	23.40	

Ant1 DS12		CA_66B							
		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	15.28	16.50	
132322	132415	QPSK	1	74	1	0	15.35	16.50	
132597	132504	QPSK	1	0	1	74	15.23	16.50	

Ant1 DS13		CA_66B							
		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	16.05	17.00	
132322	132415	QPSK	1	74	1	0	16.10	17.00	
132597	132504	QPSK	1	0	1	74	15.98	17.00	

Ant2 DS16		CA_48C							
		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			
55340	55538	QPSK	1	99	1	0	18.88	20.30	
55830	56028	QPSK	1	99	1	0	19.01	20.30	
56442	56640	QPSK	1	99	1	0	18.92	20.30	



Ant1 DS16									
CA_7C									
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	19.36	20.70	
21100	21298	QPSK	1	99	1	0	19.48	20.70	
21350	21152	QPSK	1	0	1	99	19.42	20.70	

Ant1 DS16									
CA_66C									
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	19.39	20.20	
132322	132520	QPSK	1	99	1	0	19.43	20.20	
132572	132374	QPSK	1	0	1	99	19.30	20.20	

Ant1 DS16									
CA_66B									
Combination 15MHz+5MHz (75RB+25RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset			
132047	132140	QPSK	1	74	1	0	19.27	21.00	
132322	132415	QPSK	1	74	1	0	19.41	21.00	
132597	132504	QPSK	1	0	1	74	19.34	21.00	





2CA DL

CA List	PCC									SCC				Power		
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna	LTE	BW	DL	DL	DL Antenna	With CA	Without CA
	Band	Ant	(MHz)	Freq. (MHz)	Channel		RB	RB Offset	Configuratio n	Band	(MHz)	Freq. (MHz)	Channel	Configuratio n	Tx. Power (dBm)	Tx. Power (dBm)
CA_4A-48A	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	22.75	22.81
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	21.29	21.42
CA_7B	Band 7	Ant0	15M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2544	3193	4x4MIMO	22.68	22.77
	Band 7	Ant1	15M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2544	3193	4x4MIMO	21.16	21.29
CA_7A-7A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2688	3425	4x4MIMO	22.67	22.77
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2688	3425	4x4MIMO	21.13	21.29
CA_26A-41A	Band 26	Ant0	15M	831.5	26865	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	22.76	22.87
	Band 26	Ant1	15M	831.5	26865	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	22.32	22.43
CA_41A-41A	Band 41	Ant0	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2688	41565	4x4MIMO	23.30	23.35
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2688	41565	4x4MIMO	22.24	22.39



### 3CA DL

3CA List	PCC										SCC1										SCC2										Power	
	LTE	BW	BW	UL	UL	UL#	UL	DL	DL	DL	LTE	BW	BW	UL	UL	UL#	UL	DL	DL	DL	LTE	BW	BW	UL	UL	UL#	UL	DL	DL	DL	With CA	Without CA
	Band	Ant	(MHz)	Freq (MHz)	Channel	Mod.	RB	RB Offset	DL Antenna Configuration	DL Antenna Configuration	Band	(MHz)	Freq (MHz)	Channel	DL Antenna Configuration	DL Antenna Configuration	Band	(MHz)	Freq (MHz)	Channel	DL Antenna Configuration	DL Antenna Configuration	Tx. Power (dBm)	Tx. Power (dBm)								
CA_2A-2A-14A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 14	10M	740	5790	4xMIMO	22.52	22.66											
	Band 14	Ant0	20M	1710	23790	QPSK	1	0	4xMIMO	Band 2	20M	1880	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	23.01	23.07											
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 14	10M	740	5790	4xMIMO	21.15	21.25											
CA_2A-4A-5A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO	Band 4	20M	1880	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	22.49	22.64											
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 5	10M	881.5	2525	4xMIMO	22.52	22.66											
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.66	22.81											
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	4xMIMO	Band 4	20M	1960	900	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.69	22.84											
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 5	10M	881.5	2525	4xMIMO	21.10	21.25											
CA_2A-4A-12A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO	Band 4	20M	1880	900	4xMIMO	Band 2	20M	1960	900	4xMIMO	21.26	21.42											
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.40	22.48											
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 12	10M	737.5	5095	4xMIMO	22.58	22.66											
	Band 12	Ant0	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 12	10M	737.5	5095	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.72	22.81											
	Band 12	Ant0	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.79	22.84											
CA_2A-4A-13A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO	Band 12	10M	737.5	5095	4xMIMO	Band 12	10M	737.5	5095	4xMIMO	21.09	21.25											
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 12	10M	737.5	5095	4xMIMO	Band 2	20M	1960	900	4xMIMO	21.27	21.42											
	Band 12	Ant0	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.24	22.40											
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 13	10M	751	5230	4xMIMO	22.52	22.66											
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 13	10M	751	5230	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.75	22.81											
CA_2A-4A-13A	Band 13	Ant0	10M	782	23230	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.89	22.97											
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 13	10M	751	5230	4xMIMO	21.19	21.25											
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 13	10M	751	5230	4xMIMO	Band 2	20M	1960	900	4xMIMO	21.33	21.42											
	Band 13	Ant1	10M	782	23230	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.39	22.56											
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 71	20M	683	68786	4xMIMO	22.56	22.66											
CA_2A-4A-71A	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 4	20M	683	68786	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.67	22.81											
	Band 71	Ant0	20M	683	133322	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.79	22.85											
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 71	20M	683	68786	4xMIMO	21.13	21.25											
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 71	20M	683	68786	4xMIMO	Band 2	20M	1960	900	4xMIMO	21.30	21.42											
	Band 71	Ant1	20M	683	133322	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.26	22.43											
CA_2A-5A-48A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525	4xMIMO	Band 48	20M	3609	55830	4xMIMO	22.53	22.66											
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	4xMIMO	Band 48	20M	3609	55830	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.71	22.84											
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525	4xMIMO	Band 48	20M	3609	55830	4xMIMO	21.15	21.25											
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0	4xMIMO	Band 48	20M	3609	55830	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.38	22.48											
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO	Band 13	10M	751	5230	4xMIMO	Band 48	20M	3609	55830	4xMIMO	22.57	22.66											
CA_2A-13A-48A	Band 13	Ant0	10M	782	23230	QPSK	1	0	4xMIMO	Band 48	20M	3609	55830	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.81	22.97											
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 13	10M	751	5230	4xMIMO	Band 48	20M	3609	55830	4xMIMO	21.13	21.25											
	Band 13	Ant1	10M	782	23230	QPSK	1	0	4xMIMO	Band 48	20M	3609	55830	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.44	22.56											
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO	Band 14	10M	763	5330	4xMIMO	Band 66	20M	2155	66886	4xMIMO	22.58	22.66											
	Band 14	Ant0	10M	793	23330	QPSK	1	0	4xMIMO	Band 66	20M	2155	66886	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.92	23.07											
CA_2A-14A-66A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 14	10M	763	5330	4xMIMO	22.80	22.94											
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 14	10M	763	5330	4xMIMO	Band 66	20M	2155	66886	4xMIMO	21.12	21.25											
	Band 14	Ant1	10M	793	23330	QPSK	1	0	4xMIMO	Band 66	20M	2155	66886	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.55	22.64											
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 14	10M	763	5330	4xMIMO	21.30	21.39											
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO	Band 48	20M	3609	55830	4xMIMO	Band 48	5M	3697.5	56715	4xMIMO	22.55	22.66											
CA_2A-48A-48A	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 48	20M	3609	55830	4xMIMO	Band 48	5M	3697.5	56715	4xMIMO	21.08	21.25											
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO	Band 48	20M	3609	55830	4xMIMO	Band 66	20M	2155	66886	4xMIMO	22.56	22.66											
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 48	20M	3609	55830	4xMIMO	Band 66	20M	2155	66886	4xMIMO	21.10	21.25											
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 48	20M	3609	55830	4xMIMO	22.82	22.94											
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 48	20M	3609	55830	4xMIMO	21.24	21.39											
CA_2A-66B	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO	Band 66	15M	2155	66886	4xMIMO	Band 66	5M	2164.3	66979	4xMIMO	22.55	22.66											
	Band 66	Ant0	15M	1745	132322	QPSK	1	0	4xMIMO	Band 66	5M	2164.3	66979	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.79	22.94											
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 66	15M	2155	66886	4xMIMO	Band 66	5M	2164.3	66979	4xMIMO	21.09	21.25											
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4xMIMO	Band 66	5M	2164.3	66979	4xMIMO	Band 2	20M	1960	900	4xMIMO	21.26	21.39											
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4xMIMO	Band 66	20M	2155	66886	4xMIMO	Band 71	20M	683	68786	4xMIMO	22.56	22.66											
CA_2A-66A-71A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4xMIMO	Band 71	20M	683	68786	4xMIMO	Band 2	20M	1960	900	4xMIMO	22.85	22.94											
	Band 71	Ant0	20M	683	133322	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 66	20M	2155	66886	4xMIMO	22.74	22.85											
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	4xMIMO	Band 66	20M	2155	66886	4xMIMO	Band 71	20M	683	68786	4xMIMO	21.15	21.25											
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4xMIMO	Band 71	20M	683	68786	4xMIMO	Band 2	20M	1960	900	4xMIMO	21.30	21.39											
	Band 71	Ant1	20M	683	133322	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 66	20M	2155	66886	4xMIMO	22.37	22.43											
CA_4A-4A-5A	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	Band 5	10M	88															



CA_5A-66A-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.74	22.84
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		22.84	22.94
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.40	22.48
CA_7A-66A-66A	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		21.33	21.39
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.67	22.77
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 7	20M	2655	3100		22.79	22.94
CA_14A-66A-66A	Band 66	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	21.18	21.29
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 7	20M	2655	3100		21.30	21.39
	Band 14	Ant0	10M	793	23330	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.92	23.07
CA_26A-41C	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 14	10M	763	5330		22.85	22.94
	Band 14	Ant1	10M	793	23330	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.47	22.64
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 14	10M	763	5330		21.32	21.39
CA_41D	Band 26	Ant0	15M	831.5	26865	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	22.77	22.87
	Band 26	Ant1	15M	831.5	26865	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	22.30	22.43
	Band 41	Ant0	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO	23.23	23.35
CA_41A-41C	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO	22.33	22.39
	Band 41	Ant0	20M	2875.8	39750	QPSK	1	0	4x4MIMO	Band 41	20M	2660.2	41292	4x4MIMO	Band 41	20M	2680	41490	4x4MIMO	23.29	23.35
	Band 41	Ant1	20M	2875.8	39750	QPSK	1	0	4x4MIMO	Band 41	20M	2660.2	41292	4x4MIMO	Band 41	20M	2680	41490	4x4MIMO	22.30	22.39
CA_66B-48A	Band 66	Ant0	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66979	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	22.88	22.94
	Band 66	Ant1	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	21.23	21.39
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	22.78	22.94
CA_66A-66A-48A	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	21.28	21.39
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	22.88	22.94
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	21.23	21.39
CA_66A-66B	Band 66	Ant0	20M	1720	132072	QPSK	1	0	4x4MIMO	Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	22.78	22.94
	Band 66	Ant1	20M	1720	132072	QPSK	1	0	4x4MIMO	Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	21.26	21.39
	Band 66	Ant0	20M	1720	132072	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	22.87	22.94
CA_66A-66C	Band 66	Ant1	20M	1720	132072	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	21.31	21.39
	Band 66	Ant0	20M	1720	132072	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2190	67236	4x4MIMO	22.84	22.94
	Band 66	Ant1	20M	1720	132072	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2190	67236	4x4MIMO	21.31	21.39
CA_66C-71A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 71	20M	683	68786	4x4MIMO	22.77	22.94
	Band 71	Ant0	20M	683	133322	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	22.79	22.85
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 71	20M	683	68786	4x4MIMO	21.34	21.39
CA_66A-66A-71A	Band 71	Ant1	20M	683	133322	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	22.29	22.43
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 71	20M	683	68786	4x4MIMO	22.81	22.94
	Band 71	Ant0	20M	683	133322	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.72	22.85
CA_66A-66A-71A	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 71	20M	683	68786	4x4MIMO	21.23	21.39
	Band 71	Ant1	20M	683	133322	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.29	22.43



4CA DL

Configure	PCC										SCC1				SCC2				SCC3				Power	
	LTE	BW	BW	UL	UL	UL#	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA			
	Band	Ant	(MHz)	Freq. (MHz)	Channel	Mod.	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-2A-4A-4A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 4	5M	1987.5	1175	Band 4	20M	2132.5	2175	Band 4	5M	1987.5	2375	22.59	22.66		
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	Band 4	5M	2152.5	2375	Band 2	20M	1960	900	Band 2	5M	1987.5	2175	22.75	22.81		
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 4	5M	1987.5	1175	Band 4	20M	2132.5	2175	Band 4	5M	1987.5	2375	21.18	21.25		
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	Band 4	5M	2152.5	2375	Band 2	20M	1960	900	Band 2	5M	1987.5	2175	21.25	21.42		
CA_2A-2A-4A-5A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	22.57	22.66		
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 5	10M	881.5	2525	22.69	22.61		
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 4	20M	2132.5	2175	22.73	22.84		
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	21.19	21.25		
CA_2A-2A-4A-12A	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 5	10M	881.5	2525	21.33	21.42		
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	21.40	21.25		
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 12	10M	737.5	5095	21.30	21.42		
	Band 12	Ant1	10M	707.5	23095	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 4	20M	2132.5	2175	22.29	22.40		
CA_2A-2A-4A-71A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 4	20M	2132.5	2175	Band 71	20M	637	68786	22.59	22.66		
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 71	20M	637	68786	22.67	22.81		
	Band 71	Ant0	20M	683	133322	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 4	20M	2132.5	2175	22.70	22.85		
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 71	20M	637	68786	21.26	21.42		
CA_2A-2A-5B	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 4	20M	2132.5	2175	22.29	22.43		
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 4	20M	2132.5	2175	22.58	22.66		
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	Band 2	5M	1987.5	1175	Band 5	10M	881.5	2525	Band 5	5M	888.7	2597	22.57	22.66		
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 2	20M	1960	900	Band 2	5M	1987.5	2175	22.77	22.84		
CA_2A-2A-5A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 66	20M	2155	66886	22.67	22.84		
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 5	10M	881.5	2525	22.80	22.94		
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 5	10M	881.5	2525	Band 66	20M	2155	66886	21.17	21.25		
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 66	20M	2155	66886	22.41	22.48		
CA_2A-2A-12A-66A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 5	10M	881.5	2525	21.30	21.39		
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 12	10M	737.5	5095	Band 66	20M	2155	66886	22.50	22.66		
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 66	20M	2155	66886	22.75	22.84		
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 12	10M	737.5	5095	22.89	22.94		
CA_2A-2A-13A-66A	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 12	10M	737.5	5095	Band 66	20M	2155	66886	21.17	21.25		
	Band 13	Ant1	10M	782	23230	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 12	10M	737.5	5095	21.33	21.39		
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 13	10M	751	5230	22.87	22.97		
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 13	10M	751	5230	Band 66	20M	2155	66886	22.51	22.66		
CA_2C-66A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	22.61	22.66		
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 2	20M	1960	900	Band 2	5M	1987.5	1098	22.80	22.94		
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 2	20M	1979.8	1098	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	21.18	21.25		
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 2	20M	1960	900	Band 2	20M	1979.8	1098	21.25	21.39		
CA_2A-2A-66A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	22.53	22.66		
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 2	20M	1880	900	Band 2	5M	1987.5	1175	22.79	22.94		
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	21.10	21.25		
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 2	20M	1880	900	Band 2	5M	1987.5	1175	21.25	21.39		
CA_2A-2A-66A-71A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 66	20M	2155	66886	Band 71	20M	683	68786	22.51	22.66		
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	Band 71	20M	683	68786	Band 2	20M	1880	900	Band 2	5M	1987.5	1175	22.84	22.94		
	Band 71	Ant0	20M	683	133322	QPSK	1	0	Band 2	20M	1880	900	Band 2	5M	1987.5	1175	Band 66	20M	2155	66886	21.79	22.85		
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 66	20M	2155	66886	Band 71	20M	683	68786	22.16	21.25		
CA_2A-4A-4A-5A	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 66	20M	2155	66886	21.49	21.25		
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	Band 71	20M	683	68786	Band 2	20M	1880	900	Band 2	5M	1987.5	1175	22.19	22.56		
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 13	10M	751	5230	21.32	21.39		
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 13	10M	751	5230	21.32	21.39		
CA_2A-5B-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 2	20M	1979.8	1098	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	22.61	22.66		
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 2	20M	1960	900	Band 2	5M	1987.5	1098	22.80	22.94		
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 2	20M	1979.8	1098	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	21.18	21.25		
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 2	20M	1960	900	Band 2	20M	1979.8	1098	21.25	21.39		
CA_2A-5A-48C	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	22.53	22.66		
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 2	20M	1880	900	Band 2	5M	1987.5	1175	22.79	22.94		
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 5	10M	881.5	2525	Band 5	5M	888.7	2597	Band 66	20M	2155	66886	22.57	22.66		
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	Band 5	5M	888.7	2597	Band 66	20M	2155	66886	Band 2	20M	1960	900	22.68	22.84		
CA_2A-7C-66A	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 5	10M	881.5	2525	Band 5	5M	888.7	2597	Band 66	20M	2155	66886	22.80	22.94		
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	Band 5	5M	888.7	2597	Band 66	20M	2155	66886	Band 2	20M	1960	900	22.48	22.48		
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0	Band 5	5M	888.7	2597	Band 66	20M	2155	66886	Band 2	20M	1960	900	22.42	22.48		



CA_2A-13A-66C	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 13	10M	751	5230	Band 66	20M	2155	66886	Band 66	20M	2174.8	67084	22.60	22.66
	Band 13	Ant0	10M	782	23230	QPSK	1	0	Band 66	20M	2155	66886	Band 66	20M	2174.8	67084	Band 2	20M	1960	900	22.84	22.97
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	Band 2	20M	1960	900	Band 13	10M	751	5230	22.84	22.94
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 13	10M	751	5230	Band 66	20M	2155	66886	Band 66	20M	2174.8	67084	21.14	21.25
	Band 13	Ant1	10M	782	23230	QPSK	1	0	Band 66	20M	2155	66886	Band 66	20M	2174.8	67084	Band 2	20M	1960	900	22.50	22.56
CA_2A-13A-66A-66A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	Band 2	20M	1960	900	Band 13	10M	751	5230	21.33	21.39
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 13	10M	751	5230	Band 66	20M	2155	66886	Band 66	SM	2197.5	67311	22.61	22.66
	Band 13	Ant0	10M	782	23230	QPSK	1	0	Band 66	20M	2155	66886	Band 66	SM	2197.5	67311	Band 2	20M	1960	900	22.86	22.97
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	Band 66	SM	2197.5	67311	Band 2	20M	1960	900	Band 13	10M	751	5230	22.80	22.94
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 13	10M	751	5230	Band 66	20M	2155	66886	Band 66	SM	2197.5	67311	21.10	21.25
CA_2A-48D	Band 66	Ant1	10M	782	23230	QPSK	1	0	Band 66	20M	2155	66886	Band 66	SM	2197.5	67311	Band 2	20M	1960	900	22.47	22.56
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 66	SM	2197.5	67311	Band 2	20M	1960	900	Band 13	10M	751	5230	21.34	21.39
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	Band 66	SM	2197.5	67311	Band 2	20M	1960	900	Band 13	10M	751	5230	21.33	21.39
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 48	20M	3609	55830	Band 48	20M	3628.8	56028	Band 48	20M	3648.6	56226	22.50	22.66
	Band 13	Ant0	10M	782	23230	QPSK	1	0	Band 48	20M	3609	55830	Band 48	20M	3628.8	56028	Band 48	20M	3648.6	56226	21.10	21.25
CA_2A-48A-48C	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 48	20M	3609	55830	Band 48	20M	3628.8	56028	Band 48	20M	3648.6	56226	21.10	21.25
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 48	20M	3609	55830	Band 48	20M	3628.8	56028	Band 48	20M	3648.6	56226	21.10	21.25
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	Band 48	20M	3609	55830	Band 48	20M	3628.8	56028	Band 48	20M	3648.6	56226	22.57	22.66
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 48	20M	3609	55830	Band 48	20M	3628.8	56028	Band 48	20M	3648.6	56226	21.10	21.25
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	Band 48	20M	3609	55830	Band 48	20M	3628.8	56028	Band 48	20M	3648.6	56226	21.10	21.25
CA_2A-48C-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 48	20M	3609	55830	Band 48	20M	3628.8	56028	Band 66	20M	2155	66886	22.57	22.66
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 48	20M	3609	55830	Band 48	20M	3628.8	56028	Band 66	20M	2155	66886	21.15	21.25
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	Band 48	20M	3609	55830	Band 48	20M	3628.8	56028	22.81	22.94
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	Band 48	20M	3609	55830	Band 48	20M	3628.8	56028	21.31	21.39
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 66	20M	2120	66536	Band 66	SM	2145.7	66793	Band 66	15M	2155	66886	22.53	22.66
CA_2A-66A-66B	Band 66	Ant0	20M	1720	132072	QPSK	1	0	Band 66	SM	2145.7	66793	Band 66	15M	2155	66886	Band 2	20M	1960	900	22.88	22.94
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 66	SM	2145.7	66793	Band 66	15M	2155	66886	Band 66	15M	2155	66886	21.13	21.25
	Band 66	Ant1	20M	1720	132072	QPSK	1	0	Band 66	SM	2145.7	66793	Band 66	15M	2155	66886	Band 2	20M	1960	900	21.29	21.39
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 66	20M	2155	66886	Band 66	20M	2174.8	67084	Band 71	20M	683	68786	22.52	22.66
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	Band 71	20M	683	68786	Band 2	20M	1960	900	22.78	22.94
CA_2A-66C-71A	Band 71	Ant0	20M	683	133322	QPSK	1	0	Band 2	20M	1960	900	Band 66	20M	2155	66886	Band 66	20M	2174.8	67084	22.72	22.85
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 66	20M	2155	66886	Band 66	20M	2174.8	67084	Band 71	20M	683	68786	21.19	21.25
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	Band 71	20M	683	68786	Band 2	20M	1960	900	21.30	21.39
	Band 71	Ant1	20M	683	133322	QPSK	1	0	Band 2	20M	1960	900	Band 66	20M	2155	66886	Band 66	20M	2174.8	67084	22.31	22.43
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 66	20M	2155	66886	Band 66	SM	2197.5	67311	Band 71	20M	683	68786	22.55	22.66
CA_2A-66A-66A-71A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	Band 66	SM	2197.5	67311	Band 71	20M	683	68786	Band 2	20M	1960	900	22.79	22.94
	Band 71	Ant0	20M	683	133322	QPSK	1	0	Band 2	20M	1960	900	Band 66	20M	2155	66886	Band 66	SM	2197.5	67311	22.79	22.85
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 66	20M	2155	66886	Band 66	SM	2197.5	67311	Band 71	20M	683	68786	21.14	21.25
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	Band 66	SM	2197.5	67311	Band 71	20M	683	68786	Band 2	20M	1960	900	21.24	21.39
	Band 71	Ant1	20M	683	133322	QPSK	1	0	Band 2	20M	1960	900	Band 66	20M	2155	66886	Band 66	SM	2197.5	67311	22.29	22.43
CA_4A-4A-5B	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	Band 4	5M	888.7	2597	Band 5	10M	881.5	2525	Band 5	5M	888.7	2597	22.65	22.81
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	Band 5	5M	888.7	2597	Band 4	20M	2132.5	2175	Band 4	5M	888.7	2597	22.69	22.84
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	Band 4	5M	888.7	2597	Band 5	10M	881.5	2525	Band 5	5M	888.7	2597	21.34	21.42
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0	Band 5	5M	888.7	2597	Band 4	20M	2132.5	2175	Band 4	5M	888.7	2597	22.37	22.48
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	Band 48	20M	3609	55830	Band 48	20M	3628.8	56028	Band 48	20M	3648.6	56226	21.73	22.81
CA_4A-48D	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	Band 48	20M	3609	55830	Band 48	20M	3628.8	56028	Band 48	20M	3648.6	56226	22.37	21.42
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	Band 5	5M	888.7	2597	Band 66	15M	2155	66886	Band 66	5M	2164.3	66979	22.79	22.84
	Band 66	Ant0	15M	1745	132322	QPSK	1	0	Band 5	5M	888.7	2597	Band 66	15M	2155	66886	Band 66	5M	2164.3	66979	22.57	22.84
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0	Band 5	5M	888.7	2597	Band 66	15M	2155	66886	Band 66	5M	2164.3	66979	21.26	21.39
	Band 66	Ant1	15M	1745	132322	QPSK	1	0	Band 5	5M	888.7	2597	Band 66	15M	2155	66886	Band 66	5M	2164.3	66979	22.34	22.48
CA_5B-66B	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	Band 5	5M	888.7	2597	Band 66	15M	2155	66886	Band 66	5M	2164.3	66979	21.26	21.39
	Band 66	Ant0	15M	1745	132322	QPSK	1	0	Band 5	5M	888.7	2597	Band 66	15M	2155	66886	Band 66	5M	2164.3	66979	22.34	22.48
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0	Band 5	5M	888.7	2597	Band 66	15M	2155	66886	Band 66	5M	2164.3	66979	21.26	21.39
	Band 66	Ant1	15M	1745	132322	QPSK	1	0	Band 5	5M	888.7	2597	Band 66	15M	2155	66886	Band 66	5M	2164.3	66979	22.34	22.48
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	Band 5	5M	888.7	2597	Band 66	15M	2155	66886	Band 66	5M	2164.3	66979	21.26	21.39
CA_5B-66C	Band 66	Ant0	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	Band 5	10M	881.5	2525	Band 5	5M	888.7	2597	22.87	22.94
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	Band 5	5M	888.7	2597	Band 66	20M	2155	66886	Band 66	20M	2174.8	67084	22.78	22.84
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	Band 5	10M	881.5	2525	Band 5	5M	888.7	2597	22.85	22.94
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0	Band 66	20M	2174.8	67084	Band 5	10M	881.5	2525	Band 5	5M	888.7	2597	21.33	21.39
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	Band 5	10M	881.5	2525	Band 5	5M	888.7	2597	21.33	21.39
CA_5B-66A-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	Band 5	5M	888.7	2597	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	22.76	22.84
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	Band 66	SM	2197.5	67311	Band 5	10M	881.5	2525	Band 5	5M	88			



5CA DL

Configure	PCC										SCC1				SCC2				SCC3				SCC4		Power					
	LTE	BW	BW	UL	UL		ULF	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA				
	Band	Ant	(MHz)	Freq. (MHz)	Channel	Mod.	RB	RB Offset	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Tx. Power (dBm)	Tx. Power (dBm)				
CA_2A-2A-5A-66B	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 5	10M	881.5	2525	Band 66	15M	2145	66786	Band 66	5M	2154.3	66879	22.54	22.66				
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 66	15M	2145	66786	Band 66	5M	2154.3	66879	22.73	22.84				
	Band 66	Ant0	15M	1745	132322	QPSK	1	0	Band 66	5M	2154.3	66879	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 5	10M	881.5	2525	22.81	22.94				
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 5	10M	881.5	2525	Band 66	15M	2145	66786	Band 66	5M	2154.3	66879	21.14	21.25				
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 66	15M	2145	66786	Band 66	5M	2154.3	66879	22.33	22.45				
	Band 66	Ant1	15M	1745	132322	QPSK	1	0	Band 66	5M	2154.3	66879	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 5	10M	881.5	2525	21.31	21.39				
CA_2A-2A-5A-66C	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 5	10M	881.5	2525	Band 66	20M	2145	66786	Band 66	20M	2164.8	66984	22.51	22.66				
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 66	20M	2145	66786	Band 66	20M	2164.8	66984	22.68	22.84				
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	Band 66	20M	2164.8	66984	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 5	10M	881.5	2525	22.85	22.94				
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 5	10M	881.5	2525	Band 66	20M	2145	66786	Band 66	20M	2164.8	66984	21.16	21.25				
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 66	20M	2145	66786	Band 66	20M	2164.8	66984	22.42	22.48				
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	Band 66	20M	2164.8	66984	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 5	10M	881.5	2525	21.24	21.39				
CA_2A_5B_66B	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 5	10M	881.5	2525	Band 5	5M	888.7	2597	Band 66	15M	2145	66786	Band 66	5M	2154.3	66879	22.59	22.66				
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	Band 5	5M	888.7	2597	Band 2	20M	1960	900	Band 66	15M	2145	66786	Band 66	5M	2154.3	66879	22.77	22.84				
	Band 66	Ant0	15M	1745	132322	QPSK	1	0	Band 66	5M	2154.3	66879	Band 2	20M	1960	900	Band 5	10M	881.5	2525	Band 5	5M	888.7	2597	22.83	22.94				
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 5	10M	881.5	2525	Band 5	5M	888.7	2597	Band 66	15M	2145	66786	Band 66	5M	2154.3	66879	21.15	21.25				
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0	Band 5	5M	888.7	2597	Band 2	20M	1960	900	Band 66	15M	2145	66786	Band 66	5M	2154.3	66879	22.31	22.48				
	Band 66	Ant1	15M	1745	132322	QPSK	1	0	Band 66	5M	2154.3	66879	Band 2	20M	1960	900	Band 5	10M	881.5	2525	Band 5	5M	888.7	2597	21.29	21.39				
CA_2A_5B_66C	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 5	10M	881.5	2525	Band 5	5M	888.7	2597	Band 66	20M	2145	66786	Band 66	20M	2164.8	66984	22.6	22.66				
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	Band 5	5M	888.7	2597	Band 2	20M	1960	900	Band 66	20M	2145	66786	Band 66	20M	2164.8	66984	22.72	22.84				
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	Band 66	20M	2164.8	66984	Band 5	10M	881.5	2525	Band 5	5M	888.7	2597	Band 2	20M	1960	900	22.79	22.94				
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 5	10M	881.5	2525	Band 5	5M	888.7	2597	Band 66	20M	2145	66786	Band 66	20M	2164.8	66984	21.16	21.25				
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0	Band 5	5M	888.7	2597	Band 2	20M	1960	900	Band 66	20M	2145	66786	Band 66	20M	2164.8	66984	22.32	22.48				
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	Band 66	20M	2164.8	66984	Band 5	10M	881.5	2525	Band 5	5M	888.7	2597	Band 2	20M	1960	900	21.27	21.39				
CA_5A-7C-66A-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2554.8	3298	Band 66	10M	2115	66486	Band 66	20M	1770	67036	Band 66	20M	1770	67036	22.69	22.84
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	Band 7	20M	2554.8	3298	Band 66	10M	2115	66486	Band 66	20M	1770	67036	Band 5	10M	881.5	2525	22.64	22.77				
	Band 66	Ant0	10M	1715	132022	QPSK	1	0	Band 66	20M	1770	67036	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	Band 7	20M	2554.8	3298	22.84	22.94				
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2554.8	3298	Band 66	10M	2115	66486	Band 66	20M	1770	67036	22.38	22.48				
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	Band 7	20M	2554.8	3298	Band 66	10M	2115	66486	Band 66	20M	1770	67036	Band 5	10M	881.5	2525	21.14	21.29				
	Band 66	Ant1	10M	1715	132022	QPSK	1	0	Band 66	20M	1770	67036	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	Band 7	20M	2554.8	3298	21.32	21.39				



### n2 Ant 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	22.96	23.00	22.89		
20	PI2 BPSK	1	53	22.92	22.98	22.82	24.0	0.0
20	PI2 BPSK	1	104	22.83	22.95	22.84		
20	PI2 BPSK	50	0	22.22	22.34	22.28	23.5	0.5
20	PI2 BPSK	50	28	22.80	22.90	22.75	24.0	0.0
20	PI2 BPSK	50	56	22.14	22.27	22.21	23.5	0.5
20	PI2 BPSK	100	0	22.24	22.34	22.28		
20	QPSK	1	1	22.96	23.03	22.92		
20	QPSK	1	53	22.87	22.98	22.83	24.0	0.0
20	QPSK	1	104	22.88	22.92	22.88		
20	QPSK	50	0	21.85	21.92	21.79	23.0	1.0
20	QPSK	50	28	22.93	22.97	22.92	24.0	0.0
20	QPSK	50	56	21.82	21.88	21.71	23.0	1.0
20	QPSK	100	0	21.86	21.89	21.82		
20	16QAM	1	1	21.72	21.78	21.74	23.0	1.0
20	64QAM	1	1	20.38	20.43	20.40	21.5	2.5
20	256QAM	1	1	18.18	18.29	18.24	19.5	4.5
Channel				37000	37000	38000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1880	1900		
15	QPSK	1	1	22.90	22.88	22.83	24.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1860	1905		
10	QPSK	1	1	22.92	22.89	22.78	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	22.85	22.94	22.84	24.0	0.0

### Full Power Mode

### n5 Ant 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				16500	16700	167500		
20	PI2 BPSK	1	1	23.10	23.19	23.09		
20	PI2 BPSK	1	53	22.99	23.06	23.07	24.0	0.0
20	PI2 BPSK	1	104	22.85	22.90	22.75		
20	PI2 BPSK	50	0	22.50	22.63	22.59	23.5	0.5
20	PI2 BPSK	50	28	23.09	23.09	23.11	24.0	0.0
20	PI2 BPSK	50	56	22.51	22.64	22.48	23.5	0.5
20	PI2 BPSK	100	0	22.67	22.69	22.53		
20	QPSK	1	1	23.11	23.23	23.17		
20	QPSK	1	53	22.97	23.14	23.02	24.0	0.0
20	QPSK	1	104	22.92	23.00	22.83		
20	QPSK	50	0	22.94	22.07	21.98	23.0	1.0
20	QPSK	50	28	23.04	23.20	23.16	24.0	0.0
20	QPSK	50	56	22.03	22.05	22.00	23.0	1.0
20	QPSK	100	0	22.11	22.24	22.13		
20	16QAM	1	1	21.87	22.02	21.92	23.0	1.0
20	64QAM	1	1	20.57	20.61	20.44	21.5	2.5
20	256QAM	1	1	18.40	18.51	18.38	19.5	4.5
Channel				16500	16700	167500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.98	23.14	23.06	24.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.00	23.11	23.07	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	23.07	23.17	23.06	24.0	0.0

### n7 Ant 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2500	2535	2550		
40	PI2 BPSK	1	1	22.82	22.89	22.86		
40	PI2 BPSK	1	108	22.85	22.74	22.69	24.0	0.0
40	PI2 BPSK	1	214	22.81	22.91	22.74		
40	PI2 BPSK	108	0	22.38	22.44	22.39	23.5	0.5
40	PI2 BPSK	108	54	22.82	22.90	22.73	24.0	0.0
40	PI2 BPSK	108	108	22.27	22.45	22.32	23.5	0.5
40	PI2 BPSK	216	0	22.25	22.41	22.42		
40	QPSK	1	1	22.98	22.98	22.82		
40	QPSK	1	108	22.79	22.88	22.87	24.0	0.0
40	QPSK	1	214	22.72	22.89	22.81		
40	QPSK	108	0	21.82	21.99	21.87	23.0	1.0
40	QPSK	108	54	22.73	22.91	22.88	24.0	0.0
40	QPSK	108	108	21.74	21.91	21.78	23.0	1.0
40	QPSK	216	0	21.88	21.95	21.82		
40	16QAM	1	1	22.09	22.31	22.19	23.0	1.0
40	64QAM	1	1	20.26	20.22	20.18	21.5	2.5
40	256QAM	1	1	18.19	18.32	18.29	19.5	4.5
Channel				50000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	22.73	22.84	22.76	24.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	22.74	22.89	22.71	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	22.74	22.85	22.68	24.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	22.74	22.82	22.78	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.77	22.90	22.69	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	22.73	22.87	22.68	24.0	0.0



n14 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	23.01	22.96	23.01	24.0	0.0	
10	PI2 BPSK	1	26	22.96	22.96	22.96	24.0	0.0	
10	PI2 BPSK	1	50	22.96	22.96	22.96	24.0	0.0	
10	PI2 BPSK	25	0	22.49	22.49	22.49	23.5	0.5	
10	PI2 BPSK	25	14	22.95	22.95	22.95	24.0	0.0	
10	PI2 BPSK	25	27	22.47	22.47	22.47	23.5	0.5	
10	PI2 BPSK	50	0	22.53	22.53	22.53	24.0	0.0	
10	QPSK	1	1	23.05	23.05	23.05	24.0	0.0	
10	QPSK	1	26	23.00	23.00	23.00	24.0	0.0	
10	QPSK	1	50	22.95	22.95	22.95	24.0	0.0	
10	QPSK	25	0	21.97	21.97	21.97	23.0	1.0	
10	QPSK	25	14	22.98	22.98	22.98	24.0	0.0	
10	QPSK	25	27	21.97	21.97	21.97	23.0	1.0	
10	QPSK	50	0	22.04	22.04	22.04	23.0	1.0	
10	16QAM	1	1	22.29	22.29	22.29	23.0	1.0	
10	64QAM	1	1	20.72	20.72	20.72	21.5	2.5	
10	256QAM	1	1	18.30	18.30	18.30	19.5	4.5	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.98	22.99	22.91	24.0	0.0	

n66 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	22.90	22.87	22.87	24.0	0.0	
40	PI2 BPSK	1	108	22.87	22.99	22.87	24.0	0.0	
40	PI2 BPSK	1	214	22.87	22.93	22.85	24.0	0.0	
40	PI2 BPSK	108	0	22.36	22.44	22.37	23.5	0.5	
40	PI2 BPSK	108	54	22.83	22.91	22.82	24.0	0.0	
40	PI2 BPSK	108	108	22.36	22.49	22.40	23.5	0.5	
40	PI2 BPSK	216	0	22.40	22.55	22.43	24.0	0.0	
40	QPSK	1	1	22.96	23.10	22.94	24.0	0.0	
40	QPSK	1	108	22.93	23.06	22.88	24.0	0.0	
40	QPSK	1	214	22.88	23.00	22.90	24.0	0.0	
40	QPSK	108	0	21.92	21.99	21.96	23.0	1.0	
40	QPSK	108	54	22.91	22.93	22.90	24.0	0.0	
40	QPSK	108	108	21.90	22.02	21.88	23.0	1.0	
40	QPSK	216	0	22.03	22.06	22.02	23.0	1.0	
40	16QAM	1	1	21.66	21.79	21.67	23.0	1.0	
40	64QAM	1	1	20.45	20.55	20.45	21.5	2.5	
40	256QAM	1	1	18.19	18.31	18.21	19.5	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.88	23.03	22.82	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.92	22.97	22.82	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.84	22.99	22.88	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.92	22.96	22.90	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.84	23.00	22.83	24.0	0.0	

n71 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	23.03	23.06	23.00	24.0	0.0	
20	PI2 BPSK	1	53	22.92	23.02	22.91	24.0	0.0	
20	PI2 BPSK	1	104	22.94	22.97	22.83	24.0	0.0	
20	PI2 BPSK	50	0	22.44	22.48	22.30	23.5	0.5	
20	PI2 BPSK	50	28	22.91	23.01	22.88	24.0	0.0	
20	PI2 BPSK	50	56	22.30	22.41	22.29	23.5	0.5	
20	PI2 BPSK	100	0	22.35	22.49	22.42	24.0	0.0	
20	QPSK	1	1	23.05	23.11	23.07	24.0	0.0	
20	QPSK	1	53	23.02	23.07	23.03	24.0	0.0	
20	QPSK	1	104	22.91	22.95	22.88	24.0	0.0	
20	QPSK	50	0	21.98	22.04	21.92	23.0	1.0	
20	QPSK	50	28	22.99	23.05	22.93	24.0	0.0	
20	QPSK	50	56	21.92	21.96	21.88	23.0	1.0	
20	QPSK	100	0	21.98	22.02	21.89	23.0	1.0	
20	16QAM	1	1	22.25	22.39	22.28	23.0	1.0	
20	64QAM	1	1	20.27	20.39	20.31	21.5	2.5	
20	256QAM	1	1	18.63	18.74	18.69	19.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.01	23.05	22.93	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.91	23.07	22.94	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.91	22.98	22.95	24.0	0.0	





n41 Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	22.46	22.47	22.51			
100	PI2 BPSK	1	137	22.39	22.51	22.55	24.0	0.0	
100	PI2 BPSK	1	271	22.54	22.50	22.42			
100	PI2 BPSK	135	0	21.85	21.93	21.85	23.5	0.5	
100	PI2 BPSK	135	69	22.50	22.53	22.44	24.0	0.0	
100	PI2 BPSK	135	138	21.74	21.98	21.88	23.5	0.5	
100	PI2 BPSK	270	0	22.00	21.93	21.82			
100	QPSK	1	1	22.59	22.63	22.47			
100	QPSK	1	137	22.37	22.43	22.36	24.0	0.0	
100	QPSK	1	271	22.51	22.58	22.50			
100	QPSK	135	0	21.32	21.35	21.26	23.0	1.0	
100	QPSK	135	69	22.52	22.61	22.45	24.0	0.0	
100	QPSK	135	138	21.36	21.41	21.28	23.0	1.0	
100	QPSK	270	0	21.33	21.40	21.31			
100	16QAM	1	1	21.39	21.40	21.31	23.0	1.0	
100	16QAM	1	1	19.92	19.81	19.71	21.5	2.5	
100	256QAM	1	1	18.21	18.16	18.19	19.5	4.5	
Channel				50200	51898	52900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	24.0	0.0	
90	QPSK	1	1	22.52	22.51	22.38	24.0	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99	24.0	0.0	
80	QPSK	1	1	22.53	22.59	22.36	24.0	0.0	
Channel				502002	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2655	24.0	0.0	
70	QPSK	1	1	22.54	22.57	22.36	24.0	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98	24.0	0.0	
60	QPSK	1	1	22.48	22.54	22.43	24.0	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	24.0	0.0	
50	QPSK	1	1	22.45	22.48	22.39	24.0	0.0	
Channel				502002	518998	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	24.0	0.0	
40	QPSK	1	1	22.52	22.50	22.38	24.0	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99	24.0	0.0	
30	QPSK	1	1	22.52	22.49	22.44	24.0	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	24.0	0.0	
20	QPSK	1	1	22.51	22.55	22.35	24.0	0.0	

n41 PC2 Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	25.45	25.53	25.47			
100	PI2 BPSK	1	137	25.37	25.49	25.36	26.0	0.0	
100	PI2 BPSK	1	271	25.30	25.44	25.32			
100	PI2 BPSK	135	0	24.92	24.97	24.85	25.5	0.5	
100	PI2 BPSK	135	69	25.37	25.47	25.38	26.0	0.0	
100	PI2 BPSK	135	138	24.95	25.05	25.00	25.5	0.5	
100	PI2 BPSK	270	0	24.98	25.09	24.88			
100	QPSK	1	1	25.48	25.57	25.53			
100	QPSK	1	137	25.43	25.52	25.43	26.0	0.0	
100	QPSK	1	271	25.41	25.46	25.41			
100	QPSK	135	0	24.46	24.51	24.37	25.0	1.0	
100	QPSK	135	69	25.43	25.54	25.40	26.0	0.0	
100	QPSK	135	138	24.37	24.45	24.42	25.0	1.0	
100	QPSK	270	0	24.39	24.52	24.48			
100	16QAM	1	1	24.21	24.25	24.21	25.0	1.0	
100	16QAM	1	1	21.73	21.85	21.80	23.5	2.5	
100	256QAM	1	1	19.60	19.64	19.51	21.5	4.5	
Channel				50200	51898	52900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	24.0	0.0	
90	QPSK	1	1	25.43	25.48	25.41	26.0	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99	24.0	0.0	
80	QPSK	1	1	25.43	25.47	25.46	26.0	0.0	
Channel				502002	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2655	24.0	0.0	
70	QPSK	1	1	25.34	25.53	25.46	26.0	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98	24.0	0.0	
60	QPSK	1	1	25.38	25.46	25.43	26.0	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	24.0	0.0	
50	QPSK	1	1	25.38	25.49	25.48	26.0	0.0	
Channel				502002	518998	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	24.0	0.0	
40	QPSK	1	1	25.36	25.43	25.38	26.0	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99	24.0	0.0	
30	QPSK	1	1	25.42	25.44	25.41	26.0	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	24.0	0.0	
20	QPSK	1	1	25.44	25.52	25.38	26.0	0.0	



### n2 Ant 1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1860	1900		
20	PI2 BPSK	1	1	22.86	22.86	22.77		
20	PI2 BPSK	1	53	22.81	22.86	22.83	24.0	0.0
20	PI2 BPSK	1	104	22.71	22.82	22.76		
20	PI2 BPSK	50	0	22.20	22.35	22.30	23.5	0.5
20	PI2 BPSK	50	28	22.72	22.80	22.75	24.0	0.0
20	PI2 BPSK	50	58	22.30	22.31	22.19		
20	PI2 BPSK	50	58	22.30	22.31	22.19	23.5	0.5
20	PI2 BPSK	100	0	22.19	22.38	22.33		
20	QPSK	1	1	22.86	22.84	22.88		
20	QPSK	1	53	22.81	22.85	22.76	24.0	0.0
20	QPSK	1	104	22.79	22.90	22.72		
20	QPSK	50	0	21.78	21.93	21.82	23.0	1.0
20	QPSK	50	28	22.82	22.87	22.71	24.0	0.0
20	QPSK	50	58	21.72	21.76	21.74		
20	QPSK	100	0	21.78	21.85	21.81	23.0	1.0
20	16QAM	1	1	22.09	22.17	22.06	23.0	1.0
20	16QAM	1	1	20.29	20.25	20.22	21.5	2.5
20	256QAM	1	1	18.51	18.58	18.48	19.5	4.5
Channel								
Frequency (MHz)				37000	37000	38000	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.74	22.85	22.74	24.0	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.76	22.90	22.81	24.0	0.0
Channel								
Frequency (MHz)				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	22.78	22.88	22.83	24.0	0.0

### n5 Ant 1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				166800	167300	167800		
20	PI2 BPSK	1	1	23.11	23.20	23.04		
20	PI2 BPSK	1	53	23.04	23.19	23.03	24.0	0.0
20	PI2 BPSK	1	104	22.97	23.09	22.97		
20	PI2 BPSK	50	0	22.86	22.76	22.85	23.5	0.5
20	PI2 BPSK	50	28	23.06	23.13	23.07	24.0	0.0
20	PI2 BPSK	50	58	22.61	22.87	22.59		
20	PI2 BPSK	50	58	22.61	22.87	22.59	23.5	0.5
20	PI2 BPSK	100	0	22.67	22.70	22.67		
20	QPSK	1	1	23.13	23.22	23.16		
20	QPSK	1	53	23.11	23.12	23.13	24.0	0.0
20	QPSK	1	104	23.01	23.11	23.01		
20	QPSK	50	0	22.16	22.19	22.00	23.0	1.0
20	QPSK	50	28	23.12	23.19	23.15	24.0	0.0
20	QPSK	50	58	22.08	22.18	22.01		
20	QPSK	100	0	22.18	22.21	22.12	23.0	1.0
20	16QAM	1	1	22.05	22.13	22.07	23.0	1.0
20	16QAM	1	1	20.75	20.74	20.73	21.5	2.5
20	256QAM	1	1	18.41	18.48	18.44	19.5	4.5
Channel								
Frequency (MHz)				165300	167000	168500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	23.04	23.17	23.06	24.0	0.0
Channel								
Frequency (MHz)				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	23.10	23.07	23.01	24.0	0.0
Channel								
Frequency (MHz)				165300	167000	169300	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	23.03	23.14	23.04	24.0	0.0

### n7 Ant 1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				504500	507000	510000		
40	PI2 BPSK	1	1	22.89	22.79	22.77		
40	PI2 BPSK	1	108	22.67	22.76	22.72	24.0	0.0
40	PI2 BPSK	1	214	22.58	22.67	22.65		
40	PI2 BPSK	108	0	22.12	22.26	22.19	23.5	0.5
40	PI2 BPSK	108	54	22.64	22.73	22.82	24.0	0.0
40	PI2 BPSK	108	108	22.13	22.28	22.23	23.5	0.5
40	PI2 BPSK	216	0	22.23	22.31	22.18		
40	QPSK	1	1	22.84	22.87	22.79		
40	QPSK	1	108	22.71	22.81	22.70	24.0	0.0
40	QPSK	1	214	22.72	22.77	22.84		
40	QPSK	108	0	21.89	21.81	21.69	23.0	1.0
40	QPSK	108	54	22.62	22.77	22.70	24.0	0.0
40	QPSK	108	108	21.72	21.79	21.74		
40	QPSK	216	0	21.77	21.83	21.72	23.0	1.0
40	16QAM	1	1	21.86	21.72	21.67	23.0	1.0
40	16QAM	1	1	20.27	20.34	20.25	21.5	2.5
40	256QAM	1	1	17.80	17.91	17.83	19.5	4.5
Channel								
Frequency (MHz)				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.71	22.79	22.85	24.0	0.0
Channel								
Frequency (MHz)				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	22.72	22.82	22.72	24.0	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	22.73	22.75	22.71	24.0	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.78	22.84	22.86	24.0	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.81	22.72	22.71	24.0	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	22.75	22.85	22.76	24.0	0.0



n66 Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				345000	349000	353000	
Frequency (MHz)				1730	1745	1760	
40	PI2 BPSK	1	1	22.82	22.91	22.79	
40	PI2 BPSK	1	168	22.77	22.86	22.74	
40	PI2 BPSK	1	214	22.89	22.92	22.79	24.0
40	PI2 BPSK	108	0	22.28	22.31	22.20	23.5
40	PI2 BPSK	108	54	22.85	22.89	22.79	24.0
40	PI2 BPSK	108	108	22.32	22.43	22.34	23.5
40	PI2 BPSK	216	0	22.39	22.48	22.34	
40	QPSK	1	1	22.94	22.94	22.92	
40	QPSK	1	108	22.76	22.90	22.87	24.0
40	QPSK	1	214	22.66	22.81	22.68	
40	QPSK	108	0	21.75	21.85	21.73	23.0
40	QPSK	108	54	22.71	22.86	22.83	24.0
40	QPSK	108	108	21.82	21.93	21.91	23.0
40	QPSK	216	0	21.96	22.01	21.91	23.0
40	16QAM	1	1	21.59	21.73	21.59	23.0
40	64QAM	1	1	20.25	20.35	20.27	21.5
40	256QAM	1	1	18.01	18.11	17.88	19.5
Channel				355000	359000	363000	
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	22.71	22.82	22.84	24.0
Channel				344000	348000	352000	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	22.75	22.85	22.84	24.0
Channel				343500	349000	354500	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	22.71	22.88	22.83	24.0
Channel				343000	349000	355000	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	22.72	22.90	22.88	24.0
Channel				342500	349000	355500	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	22.70	22.87	22.88	24.0

n71 Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				134500	138100	141700	
Frequency (MHz)				673	680.5	688	
20	PI2 BPSK	1	1	22.96	23.08	23.05	
20	PI2 BPSK	1	53	22.97	23.02	22.92	24.0
20	PI2 BPSK	1	104	22.76	22.91	22.83	
20	PI2 BPSK	50	0	22.46	22.52	22.47	23.5
20	PI2 BPSK	50	28	22.94	23.03	22.97	24.0
20	PI2 BPSK	50	56	22.41	22.45	22.34	23.5
20	PI2 BPSK	100	0	22.47	22.53	22.47	
20	QPSK	1	1	23.03	23.13	23.09	
20	QPSK	1	53	22.96	23.09	23.02	24.0
20	QPSK	1	104	22.90	22.97	22.91	
20	QPSK	50	0	21.91	22.05	21.94	23.0
20	QPSK	50	28	22.98	23.06	22.93	24.0
20	QPSK	50	56	21.92	22.01	21.87	23.0
20	QPSK	100	0	21.93	22.07	21.87	
20	16QAM	1	1	21.77	21.87	21.83	23.0
20	64QAM	1	1	20.25	20.34	20.21	21.5
20	256QAM	1	1	18.53	18.83	18.58	19.5
Channel				134100	138100	138100	
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	1	22.91	23.02	22.97	24.0
Channel				133600	138100	138600	
Frequency (MHz)				668	680.5	692	
10	QPSK	1	1	22.99	23.00	23.02	24.0
Channel				133100	138100	139100	
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	1	22.96	23.00	22.99	24.0



n41 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	22.77	22.87	22.75			
100	PI2 BPSK	1	137	22.76	22.75	22.70	24.0	0.0	
100	PI2 BPSK	1	271	22.85	22.75	22.86			
100	PI2 BPSK	135	0	22.15	22.31	22.11	23.5	0.5	
100	PI2 BPSK	135	69	22.73	22.82	22.62	24.0	0.0	
100	PI2 BPSK	135	138	22.18	22.28	22.21	23.5	0.5	
100	PI2 BPSK	270	0	22.27	22.31	22.24			
100	QPSK	1	1	22.89	22.91	22.80			
100	QPSK	1	137	22.79	22.87	22.73	24.0	0.0	
100	QPSK	1	271	22.83	22.82	22.70			
100	QPSK	135	0	21.64	21.75	21.74	23.0	1.0	
100	QPSK	135	69	22.72	22.67	22.76	24.0	0.0	
100	QPSK	135	138	21.72	21.78	21.72	23.0	1.0	
100	QPSK	270	0	21.77	21.83	21.82			
100	16QAM	1	1	21.98	22.01	21.88	23.0	1.0	
100	16QAM	1	1	20.26	20.34	20.24	21.5	2.5	
100	256QAM	1	1	18.30	18.38	18.29	19.5	4.5	
Channel				50200	51898	52900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	22.84	22.78	22.67	24.0	0.0	
Channel				507204	518988	529988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	22.75	22.77	22.69	24.0	0.0	
Channel				502002	518988	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2665			
70	QPSK	1	1	22.74	22.80	22.66	24.0	0.0	
Channel				505200	518988	531988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	22.79	22.81	22.69	24.0	0.0	
Channel				504204	518988	532988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	22.83	22.87	22.77	24.0	0.0	
Channel				502002	518988	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	22.82	22.86	22.65	24.0	0.0	
Channel				502200	518988	534988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	22.70	22.87	22.73	24.0	0.0	
Channel				501204	518988	535988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	22.80	22.77	22.72	24.0	0.0	

n41 PC2 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	25.81	25.89	25.84			
100	PI2 BPSK	1	137	25.77	25.81	25.70	27.0	0.0	
100	PI2 BPSK	1	271	25.84	25.72	25.82			
100	PI2 BPSK	135	0	25.08	25.22	25.11	26.5	0.5	
100	PI2 BPSK	135	69	25.82	25.77	25.87	27.0	0.0	
100	PI2 BPSK	135	138	24.97	25.01	24.97	26.5	0.5	
100	PI2 BPSK	270	0	25.05	25.19	25.15			
100	QPSK	1	1	25.98	25.94	25.83			
100	QPSK	1	137	25.84	25.88	25.76	27.0	0.0	
100	QPSK	1	271	25.73	25.76	25.66			
100	QPSK	135	0	24.76	24.83	24.74	26.0	1.0	
100	QPSK	135	69	25.85	25.88	25.73	27.0	0.0	
100	QPSK	135	138	24.42	24.44	24.51	26.0	1.0	
100	QPSK	270	0	24.54	24.65	24.54			
100	16QAM	1	1	24.74	24.84	24.75	26.0	1.0	
100	16QAM	1	1	23.20	23.26	23.13	24.5	2.5	
100	256QAM	1	1	20.97	21.03	20.91	22.5	4.5	
Channel				50200	51898	52900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	25.83	25.85	25.71	27.0	0.0	
Channel				507204	518988	529988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	25.77	25.80	25.75	27.0	0.0	
Channel				502002	518988	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2665			
70	QPSK	1	1	25.82	25.86	25.79	27.0	0.0	
Channel				505200	518988	531988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	25.81	25.86	25.75	27.0	0.0	
Channel				504204	518988	532988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	25.81	25.83	25.78	27.0	0.0	
Channel				502002	518988	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	25.75	25.85	25.73	27.0	0.0	
Channel				502200	518988	534988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	25.84	25.89	25.76	27.0	0.0	
Channel				501204	518988	535988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	25.74	25.83	25.70	27.0	0.0	



### n41 Ant2

BW [MHz]	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)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	22.74	22.79	22.87		
100	PI2 BPSK	1	137	22.61	22.74	22.84	24.0	0.0
100	PI2 BPSK	1	271	22.60	22.70	22.80		
100	PI2 BPSK	135	0	22.08	22.14	22.00	23.5	0.5
100	PI2 BPSK	135	69	22.56	22.67	22.54	24.0	0.0
100	PI2 BPSK	135	138	22.09	22.16	22.04	23.5	0.5
100	PI2 BPSK	270	0	22.14	22.28	22.13		
100	QPSK	1	1	22.77	22.81	22.72		
100	QPSK	1	137	22.59	22.70	22.59	24.0	0.0
100	QPSK	1	271	22.86	22.76	22.83		
100	QPSK	135	0	21.56	21.62	21.49	23.0	1.0
100	QPSK	135	69	22.82	22.74	22.83	24.0	0.0
100	QPSK	135	138	21.66	21.71	21.58	23.0	1.0
100	QPSK	270	0	21.70	21.77	21.82		
100	16QAM	1	1	21.58	21.66	21.55	23.0	1.0
100	64QAM	1	1	19.74	19.85	19.74	21.5	2.5
100	256QAM	1	1	17.83	17.92	17.78	19.5	4.5
Channel								
Frequency (MHz)				50200	51898	53596		
90	QPSK	1	1	22.84	22.73	22.89	24.0	0.0
Channel								
Frequency (MHz)				507204	518598	529998		
90	QPSK	1	1	22.87	22.69	22.80	24.0	0.0
Channel								
Frequency (MHz)				506202	518598	531000		
70	QPSK	1	1	25.31.01	25.92.99	26.65	24.0	0.0
Channel								
Frequency (MHz)				505200	518598	531998		
60	QPSK	1	1	22.70	22.66	22.81	24.0	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	22.71	22.63	22.84	24.0	0.0
Channel								
Frequency (MHz)				503202	518598	533000		
40	QPSK	1	1	22.85	22.70	22.87	24.0	0.0
Channel								
Frequency (MHz)				502200	518598	534998		
30	QPSK	1	1	22.11	22.25	22.33	24.0	0.0
Channel								
Frequency (MHz)				501204	518598	535998		
20	QPSK	1	1	22.67	22.77	22.85	24.0	0.0

### n41 PC2 Ant2

BW [MHz]	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)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	25.70	25.76	25.71		
100	PI2 BPSK	1	137	25.57	25.76	25.66	26.0	0.0
100	PI2 BPSK	1	271	25.60	25.76	25.66		
100	PI2 BPSK	135	0	25.08	25.15	25.03	25.5	0.5
100	PI2 BPSK	135	69	25.61	25.65	25.58	26.0	0.0
100	PI2 BPSK	135	138	25.04	25.14	24.99	25.5	0.5
100	PI2 BPSK	270	0	25.13	25.25	25.08		
100	QPSK	1	1	25.72	25.70	25.70		
100	QPSK	1	137	25.58	25.72	25.57	26.0	0.0
100	QPSK	1	271	25.82	25.78	25.60		
100	QPSK	135	0	24.56	24.66	24.49	25.0	1.0
100	QPSK	135	69	25.59	25.63	25.61	26.0	0.0
100	QPSK	135	138	24.66	24.76	24.64	25.0	1.0
100	QPSK	270	0	24.72	24.76	24.68		
100	16QAM	1	1	24.58	24.65	24.49	25.0	1.0
100	64QAM	1	1	22.77	22.81	22.72	23.5	2.5
100	256QAM	1	1	20.91	20.95	20.88	21.5	4.5
Channel								
Frequency (MHz)				503200	518598	535998		
90	QPSK	1	1	25.70	25.74	25.60	26.0	0.0
Channel								
Frequency (MHz)				507204	518598	529998		
80	QPSK	1	1	25.82	25.75	25.84	26.0	0.0
Channel								
Frequency (MHz)				506202	518598	531000		
70	QPSK	1	1	25.84	25.72	25.58	26.0	0.0
Channel								
Frequency (MHz)				505200	518598	531998		
60	QPSK	1	1	25.70	25.73	25.59	26.0	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	25.65	25.70	25.57	26.0	0.0
Channel								
Frequency (MHz)				503202	518598	533000		
40	QPSK	1	1	25.67	25.72	25.61	26.0	0.0
Channel								
Frequency (MHz)				502200	518598	534998		
30	QPSK	1	1	25.11	25.22	25.33	26.0	0.0
Channel								
Frequency (MHz)				501204	518598	535998		
20	QPSK	1	1	25.68	25.68	25.67	26.0	0.0

### n48 Part96 Ant 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	23.08	23.13	23.04		
40	PI2 BPSK	1	53	22.98	23.10	22.96	24.0	0.0
40	PI2 BPSK	1	104	23.07	23.11	22.98		
40	PI2 BPSK	50	0	22.83	22.72	22.65	23.5	0.5
40	PI2 BPSK	50	26	23.01	23.11	23.02	24.0	0.0
40	PI2 BPSK	50	56	22.51	22.58	22.53	23.5	0.5
40	PI2 BPSK	100	0	22.52	22.64	22.52		
40	QPSK	1	1	23.06	23.17	23.06		
40	QPSK	1	53	23.05	23.09	22.95	24.0	0.0
40	QPSK	1	104	22.95	23.07	23.01		
40	QPSK	50	0	22.10	22.18	22.11	23.0	1.0
40	QPSK	50	26	23.06	23.15	23.10	24.0	0.0
40	QPSK	50	56	22.02	22.07	21.88	23.0	1.0
40	QPSK	100	0	22.00	22.12	21.99		
40	16QAM	1	1	21.86	21.96	21.89	23.0	1.0
40	64QAM	1	1	20.83	20.67	20.57	21.5	2.5
40	256QAM	1	1	18.37	18.48	18.36	19.5	4.5
Channel								
Frequency (MHz)				637334	641666	646000		
20	QPSK	1	1	23.03	23.04	22.94	24.0	0.0



### Part270 n77 Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3750	3840	3930		
100	PI2 BPSK	1	137	22.34	22.44	22.42	24.0	0.0
100	PI2 BPSK	1	271	22.44	22.48	22.41		
100	PI2 BPSK	135	0	21.88	21.97	21.92	23.5	0.5
100	PI2 BPSK	135	69	22.44	22.62	22.46	24.0	0.0
100	PI2 BPSK	135	138	21.87	22.00	21.97	23.5	0.5
100	PI2 BPSK	270	0	21.99	22.03	21.90		
100	QPSK	1	1	22.32	22.37	22.47		
100	QPSK	1	137	22.44	22.55	22.43	24.0	0.0
100	QPSK	1	271	22.35	22.46	22.38		
100	QPSK	135	0	21.38	21.48	21.38	23.0	1.0
100	QPSK	135	69	22.47	22.51	22.46	24.0	0.0
100	QPSK	135	138	21.37	21.44	21.33	23.0	1.0
100	QPSK	270	0	21.34	21.47	21.41		
100	16QAM	1	1	21.62	21.66	21.54	23.0	1.0
100	16QAM	1	1	19.59	19.73	19.62	21.5	2.5
100	256QAM	1	1	17.53	17.60	17.58	19.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	3745.02	3840	3935.01		
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.42	22.46	22.43	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.48	22.53	22.42	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.41	22.50	22.43	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.43	22.54	22.38	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.42	22.49	22.35	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.43	22.52	22.40	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.42	22.45	22.38	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.43	22.47	22.40	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.47	22.55	22.36	24.0	0.0

### Part270 n77 PC2 Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	25.42	25.50	25.46		
100	PI2 BPSK	1	137	25.33	25.43	25.33	27.0	0.0
100	PI2 BPSK	1	271	25.37	25.48	25.40		
100	PI2 BPSK	135	0	24.94	24.98	24.87	26.5	0.5
100	PI2 BPSK	135	69	25.42	25.48	25.39	27.0	0.0
100	PI2 BPSK	135	138	24.82	24.93	24.90	26.5	0.5
100	PI2 BPSK	270	0	24.89	24.99	24.85		
100	QPSK	1	1	25.46	25.54	25.51		
100	QPSK	1	137	25.40	25.53	25.40	27.0	0.0
100	QPSK	1	271	25.37	25.47	25.42		
100	QPSK	135	0	24.41	24.47	24.41	26.0	1.0
100	QPSK	135	69	25.32	25.45	25.35	27.0	0.0
100	QPSK	135	138	24.37	24.45	24.32	26.0	1.0
100	QPSK	270	0	24.41	24.48	24.42		
100	16QAM	1	1	24.46	24.52	24.42	26.0	1.0
100	16QAM	1	1	22.73	22.87	22.82	24.5	2.5
100	256QAM	1	1	20.53	20.61	20.58	22.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	25.38	25.42	25.36	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.35	25.52	25.42	27.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	25.39	25.40	25.41	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	25.42	25.45	25.49	27.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	25.42	25.49	25.44	27.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	25.46	25.48	25.46	27.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.45	25.49	25.47	27.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	25.44	25.41	25.38	27.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	25.34	25.51	25.40	27.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	25.42	25.39	25.40	27.0	0.0

### Part27Q n77 Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1		3500.01			
100	PI2 BPSK	1	137		22.83		24.0	0.0
100	PI2 BPSK	1	271		22.78			
100	PI2 BPSK	135	0		22.40		23.5	0.5
100	PI2 BPSK	135	69		22.86		24.0	0.0
100	PI2 BPSK	135	138		22.33		23.5	0.5
100	PI2 BPSK	270	0		22.39			
100	QPSK	1	1		22.94			
100	QPSK	1	137		22.89		24.0	0.0
100	QPSK	1	271		22.91			
100	QPSK	135	0		21.87		23.0	1.0
100	QPSK	135	69		22.90		24.0	0.0
100	QPSK	135	138		21.79		23.0	1.0
100	QPSK	270	0		21.81			
100	16QAM	1	1		21.64		23.0	1.0
100	16QAM	1	1		20.31		21.5	2.5
100	256QAM	1	1		18.26		19.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	333000	633334	636888		
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.84	22.84	22.80	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.80	22.80	22.82	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.86	22.81	22.89	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.88	22.90	22.84	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.83	22.87	22.83	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.84	22.83	22.81	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.82	22.83	22.89	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.84	22.89	22.86	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.87	22.86	22.89	24.0	0.0



### Part27Q n77 PC2 Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				3500.01				
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	25.78	25.78	25.78	27.0	0.0
100	PI2 BPSK	1	137	25.73	25.73	25.73	27.0	0.0
100	PI2 BPSK	1	271	25.70	25.70	25.70	26.5	0.5
100	PI2 BPSK	135	69	25.32	25.32	25.32	27.0	0.0
100	PI2 BPSK	135	69	25.71	25.71	25.71	26.5	0.5
100	PI2 BPSK	135	138	25.29	25.29	25.29	27.0	0.0
100	PI2 BPSK	135	138	25.29	25.29	25.29	26.5	0.5
100	PI2 BPSK	270	0	25.32	25.32	25.32	27.0	0.0
100	QPSK	1	1	25.84	25.84	25.84	27.0	0.0
100	QPSK	1	137	25.80	25.80	25.80	27.0	0.0
100	QPSK	1	271	25.76	25.76	25.76	26.0	1.0
100	QPSK	135	0	24.89	24.89	24.89	27.0	0.0
100	QPSK	135	69	25.74	25.74	25.74	26.0	1.0
100	QPSK	135	138	24.85	24.85	24.85	26.0	1.0
100	QPSK	270	0	24.91	24.91	24.91	26.0	1.0
100	16QAM	1	1	24.85	24.85	24.85	26.0	1.0
100	16QAM	1	1	23.33	23.33	23.33	24.5	2.5
100	256QAM	1	1	21.28	21.28	21.28	22.5	4.5
Channel				633000	633334	633668	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3485	3500.01	3505.02		
90	QPSK	1	1	25.70	25.80	25.74	27.0	0.0
Channel				632668	633334	634000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3450.02	3500.01	3510		
80	QPSK	1	1	25.75	25.71	25.70	27.0	0.0
Channel				632334	633334	634334	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	25.69	25.78	25.79	27.0	0.0
Channel				632000	633334	634668	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	25.72	25.74	25.80	27.0	0.0
Channel				631668	633334	635000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	25.75	25.77	25.75	27.0	0.0
Channel				631334	633334	635334	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	25.72	25.70	25.75	27.0	0.0
Channel				631000	633334	635668	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3465	3500.01	3533.02		
30	QPSK	1	1	25.77	25.80	25.73	27.0	0.0
Channel				630668	633334	636000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	25.69	25.72	25.73	27.0	0.0
Channel				630500	633334	636168	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3542.52		
15	QPSK	1	1	25.72	25.76	25.73	27.0	0.0
Channel				630334	633334	636334	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	25.76	25.75	25.80	27.0	0.0

### Part27O n78 Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				650000				
Frequency (MHz)				3750				
100	PI2 BPSK	1	1	22.79	22.79	22.79	24.0	0.0
100	PI2 BPSK	1	137	22.87	22.87	22.87	23.5	0.5
100	PI2 BPSK	1	271	22.88	22.88	22.88	24.0	0.0
100	PI2 BPSK	135	69	22.20	22.20	22.20	23.0	1.0
100	PI2 BPSK	135	69	22.74	22.74	22.74	23.0	1.0
100	PI2 BPSK	135	138	22.28	22.28	22.28	23.0	1.0
100	PI2 BPSK	135	138	22.33	22.33	22.33	23.0	1.0
100	QPSK	1	1	22.82	22.82	22.82	24.0	0.0
100	QPSK	1	137	22.86	22.86	22.86	23.0	1.0
100	QPSK	1	271	22.88	22.88	22.88	23.0	1.0
100	QPSK	135	0	21.59	21.59	21.59	23.0	1.0
100	QPSK	135	69	22.77	22.77	22.77	23.0	1.0
100	QPSK	135	138	21.70	21.70	21.70	23.0	1.0
100	QPSK	270	0	21.74	21.74	21.74	23.0	1.0
100	16QAM	1	1	22.02	22.02	22.02	23.0	1.0
100	16QAM	1	1	20.12	20.12	20.12	21.5	2.5
100	256QAM	1	1	18.15	18.15	18.15	19.5	4.5
Channel				648668	650000	650334	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	22.69	22.77	22.68	24.0	0.0
Channel				648334	650000	650668	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	22.75	22.73	22.69	24.0	0.0
Channel				648000	650000	651000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	22.74	22.87	22.74	24.0	0.0
Channel				648668	650000	651334	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	22.73	22.75	22.78	24.0	0.0
Channel				648334	650000	651668	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	22.74	22.77	22.77	24.0	0.0
Channel				648000	650000	652000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	22.87	22.79	22.71	24.0	0.0
Channel				647668	650000	652334	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	22.74	22.70	22.73	24.0	0.0
Channel				647334	650000	652668	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	22.75	22.73	22.87	24.0	0.0
Channel				647168	650000	652834	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	22.78	22.71	22.75	24.0	0.0
Channel				647000	650000	653000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	22.70	22.69	22.73	24.0	0.0

### Part27Q n78 Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				633000				
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	22.87	22.87	22.87	24.0	0.0
100	PI2 BPSK	1	137	22.89	22.89	22.89	23.5	0.5
100	PI2 BPSK	1	271	22.83	22.83	22.83	24.0	0.0
100	PI2 BPSK	135	0	22.26	22.26	22.26	23.0	1.0
100	PI2 BPSK	135	69	22.82	22.82	22.82	23.0	1.0
100	PI2 BPSK	135	138	22.22	22.22	22.22	23.0	1.0
100	PI2 BPSK	135	138	22.25	22.25	22.25	23.0	1.0
100	QPSK	1	1	22.79	22.79	22.79	24.0	0.0
100	QPSK	1	137	22.86	22.86	22.86	23.0	1.0
100	QPSK	1	271	22.70	22.70	22.70	23.0	1.0
100	QPSK	135	0	21.79	21.79	21.79	23.0	1.0
100	QPSK	135	69	22.84	22.84	22.84	23.0	1.0
100	QPSK	135	138	21.71	21.71	21.71	23.0	1.0
100	QPSK	270	0	21.76	21.76	21.76	23.0	1.0
100	16QAM	1	1	21.64	21.64	21.64	23.0	1.0
100	16QAM	1	1	19.96	19.96	19.96	21.5	2.5
100	256QAM	1	1	18.32	18.32	18.32	19.5	4.5
Channel				633000	633334	633668	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3485	3500.01	3505.02		
90	QPSK	1	1	22.68	22.69	22.68	24.0	0.0
Channel				632668	633334	634000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3450.02	3500.01	3510		
80	QPSK	1	1	22.84	22.59	22.67	24.0	0.0
Channel				632334	633334	634334	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	22.80	22.85	22.83	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	22.80	22.84	22.87	24.0	0.0
Channel				631668	633334	635000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	22.85	22.86	22.86	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	22.80	22.67	22.67	24.0	0.0
Channel				631000	633334	635668	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3465	3500.01	3533.02		
30	QPSK	1	1	22.84	22.61	22.67	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	22.87	22.70	22.66	24.0	0.0
Channel				630500	633334	636168	Tune-up limit (dB)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3542.52		
15	QPSK	1	1	22.83	22.			



### Part270 n77 Ant 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	23.61	23.64	23.63	24.0	0.0
100	PI2 BPSK	1	137	23.49	23.58	23.47		
100	PI2 BPSK	1	271	23.18	23.24	23.21		
100	PI2 BPSK	135	0	23.05	23.09	22.97	23.5	0.5
100	PI2 BPSK	135	69	23.54	23.62	23.66	24.0	0.0
100	PI2 BPSK	135	138	22.78	22.88	22.77	23.5	0.5
100	PI2 BPSK	270	0	22.94	23.02	22.92	24.0	0.0
100	QPSK	1	1	23.59	23.68	23.64		
100	QPSK	1	137	23.58	23.61	23.54		
100	QPSK	1	271	23.22	23.32	23.22	23.0	1.0
100	QPSK	135	0	22.47	22.58	22.45		
100	QPSK	135	69	23.55	23.65	23.58		
100	QPSK	135	138	22.28	22.34	22.23	23.0	1.0
100	QPSK	270	0	22.36	22.48	22.35	23.0	1.0
100	16QAM	1	1	22.44	22.57	22.46		
100	16QAM	1	1	20.75	20.85	20.73		
100	25QAM	1	1	18.98	19.03	18.93	19.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.45	23.61	23.51	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.45	23.63	23.53	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.48	23.57	23.57	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.45	23.59	23.56	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.47	23.60	23.61	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.56	23.55	23.59	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.46	23.56	23.56	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.44	23.64	23.52	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.52	23.63	23.56	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.50	23.57	23.57	24.0	0.0

### Part270 n77 PC2 Ant 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	26.48	26.53	26.45	27.0	0.0
100	PI2 BPSK	1	137	26.40	26.47	26.41		
100	PI2 BPSK	1	271	26.27	26.38	26.27		
100	PI2 BPSK	135	0	25.80	25.93	25.84	26.5	0.5
100	PI2 BPSK	135	69	26.29	26.35	26.24	27.0	0.0
100	PI2 BPSK	135	138	25.59	25.74	25.67	26.5	0.5
100	PI2 BPSK	270	0	25.83	25.87	25.72	27.0	0.0
100	QPSK	1	1	26.51	26.58	26.42		
100	QPSK	1	137	26.33	26.46	26.43		
100	QPSK	1	271	26.19	26.31	26.22	26.0	1.0
100	QPSK	135	0	25.27	25.41	25.36		
100	QPSK	135	69	26.32	26.45	26.30		
100	QPSK	135	138	25.22	25.35	25.31	26.0	1.0
100	QPSK	270	0	25.38	25.41	25.36	26.0	1.0
100	16QAM	1	1	25.13	25.23	25.17		
100	16QAM	1	1	23.58	23.71	23.57		
100	25QAM	1	1	21.11	21.26	21.22	22.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	26.42	26.52	26.34	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	26.40	26.47	26.39	27.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	26.38	26.51	26.37	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	26.48	26.49	26.34	27.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	26.41	26.42	26.39	27.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	26.47	26.53	26.34	27.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	26.37	26.47	26.39	27.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	26.42	26.50	26.30	27.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	26.42	26.46	26.32	27.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	26.38	26.51	26.30	27.0	0.0

### Part27Q n77 Ant 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1		3500.01		24.0	0.0
100	PI2 BPSK	1	137		23.58			
100	PI2 BPSK	1	271		23.55			
100	PI2 BPSK	135	0		23.13		23.5	0.5
100	PI2 BPSK	135	69		23.60		24.0	0.0
100	PI2 BPSK	135	138		23.01		23.5	0.5
100	PI2 BPSK	270	0		23.08		24.0	0.0
100	QPSK	1	1		3500.02			
100	QPSK	1	137		23.63			
100	QPSK	1	271		23.59		23.0	1.0
100	QPSK	135	0		22.61			
100	QPSK	135	69		23.63			
100	QPSK	135	138		22.57		23.0	1.0
100	QPSK	270	0		22.63		23.0	1.0
100	16QAM	1	1		22.37			
100	16QAM	1	1		21.14			
100	25QAM	1	1		19.06		19.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	3495	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.59	23.57	23.57	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.63	23.52	23.52	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.60	23.62	23.61	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.52	23.56	23.55	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.58	23.61	23.61	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.59	23.52	23.60	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.58	23.63	23.54	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.55	23.59	23.54	24.0	0.0





### Part27Q n77 PC2 Ant 4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				3500.01				
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	26.68	26.68		27.0	0.0
100	PI2 BPSK	1	137	26.61	26.61			0.0
100	PI2 BPSK	1	271	26.59	26.59			
100	PI2 BPSK	135	0	26.16	26.16		26.5	0.5
100	PI2 BPSK	135	69	26.62	26.62		27.0	0.0
100	PI2 BPSK	135	138	26.04	26.04		26.5	0.5
100	PI2 BPSK	270	0	26.10	26.10			
100	QPSK	1	1	26.72	26.72		27.0	0.0
100	QPSK	1	137	26.65	26.65			
100	QPSK	1	271	26.63	26.63			
100	QPSK	135	0	25.66	25.66		26.0	1.0
100	QPSK	135	69	26.67	26.67		27.0	0.0
100	QPSK	135	138	25.46	25.46		26.0	1.0
100	QPSK	270	0	25.53	25.53			
100	16QAM	1	1	25.79	25.79		26.0	1.0
100	64QAM	1	1	23.89	23.89		24.5	2.5
100	256QAM	1	1	21.82	21.82		22.5	4.5
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	26.63	26.59	26.59	27.0	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3491.02	3500.01	3510		
80	QPSK	1	1	26.68	26.60	26.67	27.0	0.0
Channel				632334	633334	634334		
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	26.58	26.60	26.69	27.0	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3481.02	3500.01	3520.02		
60	QPSK	1	1	26.57	26.68	26.66	27.0	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	26.24	26.69	26.64	27.0	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	26.65	26.61	26.68	27.0	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	26.69	26.59	26.67	27.0	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	26.66	26.67	26.64	27.0	0.0
Channel				630300	633334	636334		
Frequency (MHz)				3455.01	3500.01	3545.02		
15	QPSK	1	1	26.67	26.63	26.61	27.0	0.0
Channel				630000	633334	636668		
Frequency (MHz)				3450.01	3500.01	3540.01		
10	QPSK	1	1	26.67	26.66	26.60	27.0	0.0

### Part27O n78 Ant 4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				3750		3750	3750	
Frequency (MHz)				3750				
100	PI2 BPSK	1	1	23.48	23.48		24.0	0.0
100	PI2 BPSK	1	137	23.40	23.40			
100	PI2 BPSK	1	271	23.30	23.30			
100	PI2 BPSK	135	0	22.84	22.84		23.5	0.5
100	PI2 BPSK	135	69	23.47	23.47		24.0	0.0
100	PI2 BPSK	135	138	22.94	22.94		23.5	0.5
100	PI2 BPSK	270	0	22.98	22.98			
100	QPSK	1	1	23.54	23.54		24.0	0.0
100	QPSK	1	137	23.46	23.46			
100	QPSK	1	271	23.43	23.43			
100	QPSK	135	0	22.32	22.32		23.0	1.0
100	QPSK	135	69	23.41	23.41		24.0	0.0
100	QPSK	135	138	22.35	22.35		23.0	1.0
100	QPSK	270	0	22.42	22.42			
100	16QAM	1	1	22.65	22.65		23.0	1.0
100	64QAM	1	1	20.58	20.58		21.5	2.5
100	256QAM	1	1	18.96	18.96		19.5	4.5
Channel				640668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	23.46	23.43	23.46	24.0	0.0
Channel				648334	650000	650668		
Frequency (MHz)				3741.01	3750	3760.02		
80	QPSK	1	1	23.45	23.44	23.40	24.0	0.0
Channel				648000	650000	651000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	23.51	23.42	23.42	24.0	0.0
Channel				646668	650000	651334		
Frequency (MHz)				3731.02	3750	3770.01		
60	QPSK	1	1	23.45	23.49	23.44	24.0	0.0
Channel				646334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	23.43	23.48	23.50	24.0	0.0
Channel				646000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	23.42	23.46	23.47	24.0	0.0
Channel				645668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	23.45	23.51	23.40	24.0	0.0
Channel				645334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	23.48	23.48	23.42	24.0	0.0
Channel				645000	650000	653000		
Frequency (MHz)				3705.02	3750	3795.01		
15	QPSK	1	1	23.50	23.41	23.50	24.0	0.0
Channel				644700	650000	653300		
Frequency (MHz)				3700	3750	3795		
10	QPSK	1	1	23.47	23.47	23.44	24.0	0.0

### Part27Q n78 Ant 4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				3500.01				
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	23.71	23.71		24.0	0.0
100	PI2 BPSK	1	137	23.69	23.69			
100	PI2 BPSK	1	271	23.61	23.61			
100	PI2 BPSK	135	0	23.26	23.26		23.5	0.5
100	PI2 BPSK	135	69	23.66	23.66		24.0	0.0
100	PI2 BPSK	135	138	23.15	23.15		23.5	0.5
100	PI2 BPSK	270	0	23.20	23.20			
100	QPSK	1	1	23.76	23.76		24.0	0.0
100	QPSK	1	137	23.73	23.73			
100	QPSK	1	271	23.68	23.68			
100	QPSK	135	0	22.81	22.81		23.0	1.0
100	QPSK	135	69	23.73	23.73		24.0	0.0
100	QPSK	135	138	22.82	22.82		23.0	1.0
100	QPSK	270	0	22.86	22.86			
100	16QAM	1	1	22.45	22.45		23.0	1.0
100	64QAM	1	1	21.05	21.05		21.5	2.5
100	256QAM	1	1	19.19	19.19		19.5	4.5
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	23.71	23.66	23.68	24.0	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3491.02	3500.01	3510		
80	QPSK	1	1	23.69	23.63	23.63	24.0	0.0
Channel				632334	633334	634334		
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	23.74	23.68	23.75	24.0	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3481.02	3500.01	3520.02		
60	QPSK	1	1	23.63	23.70	23.73	24.0	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	23.71	23.73	23.69	24.0	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	23.64	23.66	23.75	24.0	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	23.69	23.68	23.69	24.0	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	23.67	23.74	23.75	24.0	0.0
Channel				630300	633334	636334		
Frequency (MHz)				3455.01	3500.01	3545.02		
15	QPSK	1	1	23.70	23.67	23.64	24.0	0.0
Channel				630000	633334	636668		
Frequency (MHz)				3450.01	3500.01	3540.01		
10	QPSK	1	1	23.69	23.72	23.67	24.0	0.0



### Part270 n77 Ant 5

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	22.46	22.52	22.41		
100	PI2 BPSK	1	137	22.29	22.38	22.28	24.0	0.0
100	PI2 BPSK	1	271	22.28	22.31	22.22		
100	PI2 BPSK	135	0	21.76	21.84	21.70	23.5	0.5
100	PI2 BPSK	135	69	22.31	22.39	22.30	24.0	0.0
100	PI2 BPSK	135	138	21.87	21.95	21.84	23.5	0.5
100	PI2 BPSK	270	0	21.80	21.92	21.85		
100	QPSK	1	1	22.46	22.56	22.53		
100	QPSK	1	137	22.32	22.42	22.30	24.0	0.0
100	QPSK	1	271	22.32	22.42	22.35		
100	QPSK	135	0	21.28	21.34	21.25	23.0	1.0
100	QPSK	135	69	22.44	22.51	22.39	24.0	0.0
100	QPSK	135	138	21.34	21.40	21.36	23.0	1.0
100	QPSK	270	0	21.41	21.49	21.37		
100	16QAM	1	1	21.58	21.69	21.84	23.0	1.0
100	64QAM	1	1	19.87	19.95	19.83	21.5	2.5
100	256QAM	1	1	17.84	17.95	17.90	19.5	4.5
Channel								
Frequency (MHz)				649334	650000	662968	Tune-up limit (dB)	MPR (dB)
90	QPSK	1	1	22.34	22.53	22.47	24.0	0.0
Channel								
Frequency (MHz)				649334	650000	662968	Tune-up limit (dB)	MPR (dB)
80	QPSK	1	1	22.33	22.49	22.45	24.0	0.0
Channel								
Frequency (MHz)				649000	650000	663000	Tune-up limit (dB)	MPR (dB)
70	QPSK	1	1	22.35	22.52	22.43	24.0	0.0
Channel								
Frequency (MHz)				648668	650000	663334	Tune-up limit (dB)	MPR (dB)
60	QPSK	1	1	22.37	22.50	22.49	24.0	0.0
Channel								
Frequency (MHz)				648334	650000	663668	Tune-up limit (dB)	MPR (dB)
50	QPSK	1	1	22.38	22.43	22.47	24.0	0.0
Channel								
Frequency (MHz)				3720	3840	3960	Tune-up limit (dB)	MPR (dB)
40	QPSK	1	1	22.34	22.51	22.43	24.0	0.0
Channel								
Frequency (MHz)				647668	650000	664334	Tune-up limit (dB)	MPR (dB)
30	QPSK	1	1	22.43	22.44	22.39	24.0	0.0
Channel								
Frequency (MHz)				647334	650000	664668	Tune-up limit (dB)	MPR (dB)
20	QPSK	1	1	22.40	22.53	22.46	24.0	0.0
Channel								
Frequency (MHz)				647195	650000	664834	Tune-up limit (dB)	MPR (dB)
15	QPSK	1	1	22.40	22.45	22.40	24.0	0.0
Channel								
Frequency (MHz)				647000	650000	665000	Tune-up limit (dB)	MPR (dB)
10	QPSK	1	1	22.42	22.49	22.39	24.0	0.0

### Part270 n77 PC2 Ant 5

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	25.46	25.53	25.44		
100	PI2 BPSK	1	137	25.28	25.40	25.32	27.0	0.0
100	PI2 BPSK	1	271	25.27	25.37	25.25		
100	PI2 BPSK	135	0	24.76	24.85	24.74	26.5	0.5
100	PI2 BPSK	135	69	25.26	25.37	25.31	27.0	0.0
100	PI2 BPSK	135	138	24.91	24.91	24.86	26.5	0.5
100	PI2 BPSK	270	0	24.78	24.88	24.81		
100	QPSK	1	1	25.49	25.61	25.57		
100	QPSK	1	137	25.33	25.40	25.32	27.0	0.0
100	QPSK	1	271	25.34	25.39	25.41		
100	QPSK	135	0	24.24	24.41	24.29	26.0	1.0
100	QPSK	135	69	25.50	25.51	25.41	27.0	0.0
100	QPSK	135	138	24.31	24.36	24.36	26.0	1.0
100	QPSK	270	0	24.38	24.48	24.41		
100	16QAM	1	1	24.57	24.65	24.68	26.0	1.0
100	64QAM	1	1	22.94	23.09	23.01	24.5	2.5
100	256QAM	1	1	20.86	20.97	20.94	22.5	4.5
Channel								
Frequency (MHz)				3745.02	3840	3935.01	Tune-up limit (dB)	MPR (dB)
90	QPSK	1	1	25.44	25.49	25.50	27.0	0.0
Channel								
Frequency (MHz)				649334	650000	662968	Tune-up limit (dB)	MPR (dB)
80	QPSK	1	1	25.43	25.54	25.44	27.0	0.0
Channel								
Frequency (MHz)				649000	650000	663000	Tune-up limit (dB)	MPR (dB)
70	QPSK	1	1	25.37	25.47	25.46	27.0	0.0
Channel								
Frequency (MHz)				648668	650000	663334	Tune-up limit (dB)	MPR (dB)
60	QPSK	1	1	25.46	25.56	25.50	27.0	0.0
Channel								
Frequency (MHz)				648334	650000	663668	Tune-up limit (dB)	MPR (dB)
50	QPSK	1	1	25.36	25.49	25.43	27.0	0.0
Channel								
Frequency (MHz)				3720	3840	3960	Tune-up limit (dB)	MPR (dB)
40	QPSK	1	1	25.35	25.50	25.48	27.0	0.0
Channel								
Frequency (MHz)				647668	650000	664334	Tune-up limit (dB)	MPR (dB)
30	QPSK	1	1	25.38	25.45	25.53	27.0	0.0
Channel								
Frequency (MHz)				647334	650000	664668	Tune-up limit (dB)	MPR (dB)
20	QPSK	1	1	25.39	25.55	25.48	27.0	0.0
Channel								
Frequency (MHz)				647195	650000	664834	Tune-up limit (dB)	MPR (dB)
15	QPSK	1	1	25.35	25.47	25.50	27.0	0.0
Channel								
Frequency (MHz)				647000	650000	665000	Tune-up limit (dB)	MPR (dB)
10	QPSK	1	1	25.37	25.53	25.50	27.0	0.0

### Part27Q n77 Ant 5

BW [MHz]	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)				3500.01				
100	PI2 BPSK	1	1	22.57				
100	PI2 BPSK	1	137	22.48			24.0	0.0
100	PI2 BPSK	1	271	22.54				
100	PI2 BPSK	135	0	22.08			23.5	0.5
100	PI2 BPSK	135	69	22.50			24.0	0.0
100	PI2 BPSK	135	138	21.93			23.5	0.5
100	PI2 BPSK	270	0	22.01				
100	QPSK	1	1	22.54				
100	QPSK	1	137	22.52			24.0	0.0
100	QPSK	1	271	22.43				
100	QPSK	135	0	21.54			23.0	1.0
100	QPSK	135	69	22.59			24.0	0.0
100	QPSK	135	138	21.45			23.0	1.0
100	QPSK	270	0	21.52				
100	16QAM	1	1	21.62			23.0	1.0
100	64QAM	1	1	19.93			21.5	2.5
100	256QAM	1	1	18.12			19.5	4.5
Channel								
Frequency (MHz)				633000	633334	633668	Tune-up limit (dB)	MPR (dB)
90	QPSK	1	1	22.53	22.59	22.57	24.0	0.0
Channel								
Frequency (MHz)				632668	633334	634000	Tune-up limit (dB)	MPR (dB)
80	QPSK	1	1	22.51	22.50	22.60	24.0	0.0
Channel								
Frequency (MHz)				632334	633334	634334	Tune-up limit (dB)	MPR (dB)
70	QPSK	1	1	22.60	22.60	22.51	24.0	0.0
Channel								
Frequency (MHz)				632000	633334	634668	Tune-up limit (dB)	MPR (dB)
60	QPSK	1	1	22.57	22.53	22.57	24.0	0.0
Channel								
Frequency (MHz)				631668	633334	635000	Tune-up limit (dB)	MPR (dB)
50	QPSK	1	1	22.61	22.52	22.57	24.0	0.0
Channel								
Frequency (MHz)				631334	633334	635334	Tune-up limit (dB)	MPR (dB)
40	QPSK	1	1	22.51	22.61	22.58	24.0	0.0
Channel								
Frequency (MHz)				631000	633334	635668	Tune-up limit (dB)	MPR (dB)
30	QPSK	1	1	22.60	22.49	22.54	24.0	0.0
Channel								
Frequency (MHz)				630668	633334	636000	Tune-up limit (dB)	MPR (dB)
20	QPSK	1	1	22.52	22.55	22.53	24.0	0.0
Channel								
Frequency (MHz)				630300	633334	636334	Tune-up limit (dB)	MPR (dB)
15	QPSK	1	1	22.52	22.58	22.53	24.0	0.0
Channel								
Frequency (MHz)				630334	633334	636334	Tune-up limit (dB)	MPR (dB)
10	QPSK	1	1	22.56	22.57	22.53	24.0	0.0



### Part27Q n77 PC2 Ant 5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				3500.01				
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	25.51				
100	PI2 BPSK	1	137	25.41			27.0	0.0
100	PI2 BPSK	1	271	25.39				
100	PI2 BPSK	135	0	24.86			26.5	0.5
100	PI2 BPSK	135	69	25.47			27.0	0.0
100	PI2 BPSK	135	138	24.82			26.5	0.5
100	PI2 BPSK	270	0	24.90				
100	QPSK	1	1	25.56				
100	QPSK	1	137	25.48			27.0	0.0
100	QPSK	1	271	25.45				
100	QPSK	135	0	24.47			28.0	1.0
100	QPSK	135	69	25.52			27.0	0.0
100	QPSK	135	138	24.46			28.0	1.0
100	QPSK	270	0	24.52				
100	16QAM	1	1	24.67			28.0	1.0
100	64QAM	1	1	22.83			24.5	2.5
100	256QAM	1	1	20.85			22.5	4.5
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	25.44	25.45	25.48	27.0	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3492.02	3500.01	3510		
80	QPSK	1	1	25.49	25.49	25.51	27.0	0.0
Channel				632334	633334	634334		
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	25.47	25.53	25.43	27.0	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	25.92	25.47	25.42	27.0	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	25.49	25.43	25.42	27.0	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	25.42	25.43	25.42	27.0	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	25.53	25.51	25.44	27.0	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	25.41	25.50	25.49	27.0	0.0
Channel				630300	633334	636168		
Frequency (MHz)				3455.01	3500.01	3542.52		
15	QPSK	1	1	25.90	25.52	25.43	27.0	0.0
Channel				630334	633334	636334		
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	25.44	25.49	25.48	27.0	0.0

### Part27O n78 Ant 5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000				
Frequency (MHz)				3750				
100	PI2 BPSK	1	1	22.41				
100	PI2 BPSK	1	137	22.34			24.0	0.0
100	PI2 BPSK	1	271	22.19				
100	PI2 BPSK	135	0	21.73			23.5	0.5
100	PI2 BPSK	135	69	22.31			24.0	0.0
100	PI2 BPSK	135	138	21.81			23.5	0.5
100	PI2 BPSK	270	0	21.89				
100	QPSK	1	1	22.51				
100	QPSK	1	137	22.34			24.0	0.0
100	QPSK	1	271	22.30				
100	QPSK	135	0	21.25			23.0	1.0
100	QPSK	135	69	22.43			24.0	0.0
100	QPSK	135	138	21.36			23.0	1.0
100	QPSK	270	0	21.46				
100	16QAM	1	1	21.55			23.0	1.0
100	64QAM	1	1	19.86			21.5	2.5
100	256QAM	1	1	17.92			19.5	4.5
Channel				648668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	22.38	22.48	22.37	24.0	0.0
Channel				648334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	22.39	22.43	22.39	24.0	0.0
Channel				648000	650000	651000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	22.47	22.39	22.41	24.0	0.0
Channel				647668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	22.43	22.46	22.47	24.0	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	22.40	22.42	22.38	24.0	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	22.45	22.47	22.43	24.0	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	22.48	22.45	22.39	24.0	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	22.36	22.39	22.39	24.0	0.0
Channel				647168	650000	652934		
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	22.38	22.40	22.39	24.0	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	22.42	22.44	22.44	24.0	0.0

### Part27Q n78 Ant 5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				635000				
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	22.82				
100	PI2 BPSK	1	137	22.58			24.0	0.0
100	PI2 BPSK	1	271	22.53				
100	PI2 BPSK	135	0	22.07			23.5	0.5
100	PI2 BPSK	135	69	22.59			24.0	0.0
100	PI2 BPSK	135	138	22.03			23.5	0.5
100	PI2 BPSK	270	0	22.08				
100	QPSK	1	1	22.87				
100	QPSK	1	137	22.61			24.0	0.0
100	QPSK	1	271	22.51				
100	QPSK	135	0	21.84			23.0	1.0
100	QPSK	135	69	22.55			24.0	0.0
100	QPSK	135	138	21.92			23.0	1.0
100	QPSK	270	0	21.95				
100	16QAM	1	1	21.36			23.0	1.0
100	64QAM	1	1	19.90			21.5	2.5
100	256QAM	1	1	18.08			19.5	4.5
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	22.81	22.59	22.83	24.0	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3492.02	3500.01	3510		
80	QPSK	1	1	22.86	22.54	22.80	24.0	0.0
Channel				632334	633334	634334		
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	22.83	22.57	22.58	24.0	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	22.84	22.56	22.80	24.0	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	22.83	22.58	22.86	24.0	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	22.59	22.60	22.83	24.0	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	22.57	22.58	22.59	24.0	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	22.58	22.52	22.59	24.0	0.0
Channel				630300	633334	636168		
Frequency (MHz)				3455.01	3500.01	3542.52		
15	QPSK	1	1	22.58	22.83	22.80	24.0	0.0
Channel				630334	633334	636334		
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	22.85	22.57	22.83	24.0	0.0



### n41 Ant 7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 52602	Power Middle Ch. / Freq. 51858	Power High Ch. / Freq. 52600	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	2546.01	2592.99	2640		
100	PI2 BPSK	1	137	22.53	22.58	22.47	24.0	0.0
100	PI2 BPSK	1	271	22.27	22.40	22.27		
100	PI2 BPSK	135	0	21.82	21.95	21.80	23.5	0.5
100	PI2 BPSK	135	69	22.33	22.45	22.34	24.0	0.0
100	PI2 BPSK	135	138	21.86	21.97	21.90	23.5	0.5
100	PI2 BPSK	270	0	21.98	22.02	21.93		
100	QPSK	1	1	22.50	22.61	22.52		
100	QPSK	1	137	22.38	22.53	22.49	24.0	0.0
100	QPSK	1	271	22.38	22.46	22.37		
100	QPSK	135	0	21.38	21.44	21.34	23.0	1.0
100	QPSK	135	69	22.45	22.56	22.48	24.0	0.0
100	QPSK	135	138	21.34	21.41	21.34	23.0	1.0
100	QPSK	270	0	21.40	21.46	21.37		
100	16QAM	1	1	21.40	21.54	21.42	23.0	1.0
100	16QAM	1	1	19.82	19.93	19.80	21.5	2.5
100	256QAM	1	1	18.04	18.18	18.12	19.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	2541	2592.99	2644.98		
Channel								
Frequency (MHz)								
80	QPSK	1	1	2541	2592.99	2644.98		
Channel								
Frequency (MHz)								
70	QPSK	1	1	2541	2592.99	2645		
Channel								
Frequency (MHz)								
60	QPSK	1	1	2544	2592.99	2649		
Channel								
Frequency (MHz)								
50	QPSK	1	1	2541	2592.99	2644.98		
Channel								
Frequency (MHz)								
40	QPSK	1	1	2541	2592.99	2644.98		
Channel								
Frequency (MHz)								
30	QPSK	1	1	2541	2592.99	2644.98		
Channel								
Frequency (MHz)								
20	QPSK	1	1	2548	2592.99	2649		

### n41 PC2 Ant 7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 52602	Power Middle Ch. / Freq. 51858	Power High Ch. / Freq. 52600	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	2546.01	2592.99	2640		
100	PI2 BPSK	1	137	25.53	25.58	25.46	27.0	0.0
100	PI2 BPSK	1	271	25.36	25.48	25.45		
100	PI2 BPSK	135	0	24.71	24.85	24.75	26.5	0.5
100	PI2 BPSK	135	69	25.36	25.47	25.41	27.0	0.0
100	PI2 BPSK	135	138	24.74	24.83	24.72	26.5	0.5
100	PI2 BPSK	270	0	24.77	24.90	24.80		
100	QPSK	1	1	25.53	25.65	25.60		
100	QPSK	1	137	25.55	25.61	25.50	27.0	0.0
100	QPSK	1	271	25.48	25.56	25.44		
100	QPSK	135	0	24.44	24.49	24.39	26.0	1.0
100	QPSK	135	69	25.45	25.59	25.48	27.0	0.0
100	QPSK	135	138	24.38	24.41	24.37	26.0	1.0
100	QPSK	270	0	24.35	24.45	24.34		
100	16QAM	1	1	24.48	24.52	24.39	26.0	1.0
100	16QAM	1	1	22.56	22.56	22.65	24.5	2.5
100	256QAM	1	1	20.54	20.56	20.54	22.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	2541	2592.99	2644.98		
Channel								
Frequency (MHz)								
80	QPSK	1	1	2549	2555	2548	27.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	2548	2552	2548	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	2544	2556	2549	27.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	2541	2551	2552	27.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	2541	2550	2555	27.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	2550	2561	2552	27.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	2548	2558	2549	27.0	0.0

### Part270 n77 Ant 7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 65000	Power Middle Ch. / Freq. 65000	Power High Ch. / Freq. 65000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	3750	3840	3930		
100	PI2 BPSK	1	1	22.78	22.84	22.84	24.0	0.0
100	PI2 BPSK	1	137	22.75	22.80	22.70		
100	PI2 BPSK	1	271	22.75	22.77	22.60		
100	PI2 BPSK	135	0	21.93	22.14	22.14	23.5	0.5
100	PI2 BPSK	135	69	22.51	22.54	22.48	24.0	0.0
100	PI2 BPSK	135	138	22.13	22.21	22.00	23.5	0.5
100	PI2 BPSK	270	0	22.07	22.23	22.09		
100	QPSK	1	1	22.71	22.86	22.75		
100	QPSK	1	137	22.68	22.69	22.63	24.0	0.0
100	QPSK	1	271	22.49	22.73	22.75		
100	QPSK	135	0	21.87	21.86	21.77	23.0	1.0
100	QPSK	135	69	22.69	22.77	22.63	24.0	0.0
100	QPSK	135	138	21.50	21.46	21.39	23.0	1.0
100	QPSK	270	0	21.57	21.65	21.48		
100	16QAM	1	1	21.84	21.84	21.89	23.0	1.0
100	16QAM	1	1	20.22	20.16	20.16	21.5	2.5
100	256QAM	1	1	17.78	17.77	17.72	19.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	3745.02	3840	3935.01		
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.78	22.72	22.71	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.88	22.75	22.67	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.68	22.72	22.67	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.63	22.79	22.68	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.65	22.81	22.63	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.72	22.76	22.69	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.73	22.73	22.67	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.67	22.75	22.68	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.70	22.78	22.68	24.0	0.0



### Part270 n77 PC2 Ant 7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	25.73	25.88	25.85		
100	PI2 BPSK	1	137	25.71	25.76	25.75	27.0	0.0
100	PI2 BPSK	1	271	25.52	25.74	25.63		
100	PI2 BPSK	135	0	25.02	25.10	25.16	26.5	0.5
100	PI2 BPSK	135	69	25.50	25.62	25.58	27.0	0.0
100	PI2 BPSK	135	138	24.88	24.98	24.96	26.5	0.5
100	PI2 BPSK	270	0	24.96	25.24	25.15		
100	QPSK	1	1	25.76	25.91	25.81		
100	QPSK	1	137	25.55	25.83	25.64	27.0	0.0
100	QPSK	1	271	25.66	25.82	25.52		
100	QPSK	135	0	24.61	24.71	24.65	26.0	1.0
100	QPSK	135	69	25.76	25.82	25.75	27.0	0.0
100	QPSK	135	138	24.48	24.52	24.37	26.0	1.0
100	QPSK	270	0	24.82	24.72	24.55		
100	16QAM	1	1	24.66	24.84	24.75	26.0	1.0
100	16QAM	1	1	23.10	23.23	23.27	24.5	2.5
100	256QAM	1	1	20.80	21.11	20.89	22.5	4.5
Channel								
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	25.61	25.80	25.68	27.0	0.0
Channel								
Frequency (MHz)				649334	656000	662666		
80	QPSK	1	1	3740.01	3840	3940.02		
Channel								
Frequency (MHz)				649000	656000	663000		
70	QPSK	1	1	25.61	25.79	25.76	27.0	0.0
Channel								
Frequency (MHz)				648668	656000	663334		
60	QPSK	1	1	25.72	25.83	25.71	27.0	0.0
Channel								
Frequency (MHz)				648334	656000	663668		
50	QPSK	1	1	3725.01	3840	3955.02		
Channel								
Frequency (MHz)				647668	656000	664334		
40	QPSK	1	1	25.68	25.83	25.73	27.0	0.0
Channel								
Frequency (MHz)				647334	656000	664668		
30	QPSK	1	1	25.69	25.86	25.79	27.0	0.0
Channel								
Frequency (MHz)				647000	656000	665000		
20	QPSK	1	1	25.68	25.84	25.73	27.0	0.0
Channel								
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	25.71	25.80	25.77	27.0	0.0

### Part27Q n77 Ant 7

BW (MHz)	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)				3500.01				
100	PI2 BPSK	1	1		23.33			
100	PI2 BPSK	1	137		23.19		24.0	0.0
100	PI2 BPSK	1	271		23.34			
100	PI2 BPSK	135	0		22.84		23.5	0.5
100	PI2 BPSK	135	69		23.31		24.0	0.0
100	PI2 BPSK	135	138		22.81		23.5	0.5
100	PI2 BPSK	270	0		22.90			
100	QPSK	1	1		23.39			
100	QPSK	1	137		23.27		24.0	0.0
100	QPSK	1	271		23.31			
100	QPSK	135	0		22.38		23.0	1.0
100	QPSK	135	69		23.33		24.0	0.0
100	QPSK	135	138		22.27		23.0	1.0
100	QPSK	270	0		22.31			
100	16QAM	1	1		22.24		23.0	1.0
100	16QAM	1	1		20.85		21.5	2.5
100	256QAM	1	1		18.74		19.5	4.5
Channel								
Frequency (MHz)				633000	633334	633668		
90	QPSK	1	1	23.27	23.36	23.29	24.0	0.0
Channel								
Frequency (MHz)				632668	633334	634000		
80	QPSK	1	1	3490.02	3500.01	3510		
Channel								
Frequency (MHz)				632334	633334	634334		
70	QPSK	1	1	23.27	23.34	23.30	24.0	0.0
Channel								
Frequency (MHz)				632000	633334	634668		
60	QPSK	1	1	23.30	23.32	23.25	24.0	0.0
Channel								
Frequency (MHz)				631668	633334	635000		
50	QPSK	1	1	3475.02	3500.01	3525		
Channel								
Frequency (MHz)				631334	633334	635334		
40	QPSK	1	1	23.33	23.28	23.30	24.0	0.0
Channel								
Frequency (MHz)				631000	633334	635668		
30	QPSK	1	1	23.36	23.33	23.29	24.0	0.0
Channel								
Frequency (MHz)				630668	633334	636000		
20	QPSK	1	1	23.29	23.24	23.32	24.0	0.0
Channel								
Frequency (MHz)				630300	633334	636368		
15	QPSK	1	1	23.30	23.27	23.31	24.0	0.0
Channel								
Frequency (MHz)				630334	633334	636334		
10	QPSK	1	1	23.27	23.35	23.27	24.0	0.0

### Part27Q n77 PC2 Ant 7

BW (MHz)	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)				3500.01				
100	PI2 BPSK	1	1		26.41			
100	PI2 BPSK	1	137		26.31		27.0	0.0
100	PI2 BPSK	1	271		26.32			
100	PI2 BPSK	135	0		25.91		26.5	0.5
100	PI2 BPSK	135	69		26.34		27.0	0.0
100	PI2 BPSK	135	138		25.84		26.5	0.5
100	PI2 BPSK	270	0		26.90			
100	QPSK	1	1		26.46			
100	QPSK	1	137		26.41		27.0	0.0
100	QPSK	1	271		26.31			
100	QPSK	135	0		25.50		26.0	1.0
100	QPSK	135	69		26.38		27.0	0.0
100	QPSK	135	138		25.49		26.0	1.0
100	QPSK	270	0		25.48			
100	16QAM	1	1		25.21		26.0	1.0
100	16QAM	1	1		23.94		24.5	2.5
100	256QAM	1	1		21.80		22.5	4.5
Channel								
Frequency (MHz)				633000	633334	633668		
90	QPSK	1	1	26.39	26.42	26.34	27.0	0.0
Channel								
Frequency (MHz)				632668	633334	634000		
80	QPSK	1	1	3490.02	3500.01	3510		
Channel								
Frequency (MHz)				632334	633334	634334		
70	QPSK	1	1	26.38	26.38	26.35	27.0	0.0
Channel								
Frequency (MHz)				632000	633334	634668		
60	QPSK	1	1	26.39	26.33	26.42	27.0	0.0
Channel								
Frequency (MHz)				631668	633334	635000		
50	QPSK	1	1	3475.02	3500.01	3525		
Channel								
Frequency (MHz)				631334	633334	635334		
40	QPSK	1	1	26.35	26.38	26.40	27.0	0.0
Channel								
Frequency (MHz)				631000	633334	635668		
30	QPSK	1	1	26.39	26.34	26.36	27.0	0.0
Channel								
Frequency (MHz)				630668	633334	636000		
20	QPSK	1	1	26.40	26.44	26.45	27.0	0.0
Channel								
Frequency (MHz)				630300	633334	636368		
15	QPSK	1	1	26.43	26.42	26.34	27.0	0.0
Channel								
Frequency (MHz)				630334	633334	636334		
10	QPSK	1	1	26.44	26.37	26.35	27.0	0.0



Part270 n78 Ant 7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 65000	Power Middle Ch. / Freq. 65000	Power High Ch. / Freq. 65000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		22.83				
100	PI2 BPSK	1	137		22.70			0.0	
100	PI2 BPSK	1	271		22.71				
100	PI2 BPSK	135	0		22.11		23.5	0.5	
100	PI2 BPSK	135	69		22.52		24.0	0.0	
100	PI2 BPSK	135	138		21.93		23.5	0.5	
100	PI2 BPSK	270	0		22.05				
100	QPSK	1	1		22.38				
100	QPSK	1	137		22.56		24.0	0.0	
100	QPSK	1	271		22.86				
100	QPSK	135	0		21.85		23.0	1.0	
100	QPSK	135	69		22.81		24.0	0.0	
100	QPSK	135	138		21.44		23.0	1.0	
100	QPSK	270	0		21.55				
100	16QAM	1	1		21.83		23.0	1.0	
100	16QAM	1	1		20.06		21.5	2.5	
100	256QAM	1	1		17.63		19.5	4.5	
Channel									
Frequency (MHz)				64868	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		22.77	22.80	22.78	24.0	0.0
Channel									
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		22.76	22.70	22.85	24.0	0.0
Channel									
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		22.82	22.83	22.76	24.0	0.0
Channel									
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		22.76	22.79	22.82	24.0	0.0
Channel									
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		22.84	22.85	22.75	24.0	0.0
Channel									
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		22.73	22.82	22.74	24.0	0.0
Channel									
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3795.01			
30	QPSK	1	1		22.81	22.73	22.81	24.0	0.0
Channel									
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		22.76	22.75	22.83	24.0	0.0
Channel									
Frequency (MHz)				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705.02	3750	3792.51			
15	QPSK	1	1		22.84	22.80	22.76	24.0	0.0
Channel									
Frequency (MHz)				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		22.80	22.77	22.73	24.0	0.0

Part27Q n78 Ant 7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 63300	Power Middle Ch. / Freq. 63334	Power High Ch. / Freq. 63368	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		23.09				
100	PI2 BPSK	1	137		22.94			0.0	
100	PI2 BPSK	1	271		22.93				
100	PI2 BPSK	135	0		22.58		23.5	0.5	
100	PI2 BPSK	135	69		23.08		24.0	0.0	
100	PI2 BPSK	135	138		22.46		23.5	0.5	
100	PI2 BPSK	270	0		22.49				
100	QPSK	1	1		23.11				
100	QPSK	1	137		23.05		24.0	0.0	
100	QPSK	1	271		22.94				
100	QPSK	135	0		22.00		23.0	1.0	
100	QPSK	135	69		22.99		24.0	0.0	
100	QPSK	135	138		21.96		23.0	1.0	
100	QPSK	270	0		22.07				
100	16QAM	1	1		22.08		23.0	1.0	
100	16QAM	1	1		20.58		21.5	2.5	
100	256QAM	1	1		18.42		19.5	4.5	
Channel									
Frequency (MHz)				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		23.01	23.07	23.08	24.0	0.0
Channel									
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		22.96	23.00	22.99	24.0	0.0
Channel									
Frequency (MHz)				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1		23.05	22.99	23.08	24.0	0.0
Channel									
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1		22.98	22.97	23.00	24.0	0.0
Channel									
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		22.98	23.08	23.03	24.0	0.0
Channel									
Frequency (MHz)				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		23.07	23.00	23.07	24.0	0.0
Channel									
Frequency (MHz)				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		23.03	23.07	22.99	24.0	0.0
Channel									
Frequency (MHz)				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		23.04	23.04	23.04	24.0	0.0
Channel									
Frequency (MHz)				630500	633334	636368	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.02	3500.01	3545.02			
15	QPSK	1	1		23.05	23.01	23.02	24.0	0.0
Channel									
Frequency (MHz)				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1		22.98	23.02	23.08	24.0	0.0



### n2 Ant0 DSI2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low	Power Middle	Power High	Tune-up limit (dBm)	MPR (dB)
				Ch. / Freq.	Ch. / Freq.	Ch. / Freq.		
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	22.96	23.00	22.89	24.0	0.0
20	PI2 BPSK	1	53	22.92	22.98	22.82		
20	PI2 BPSK	1	104	22.83	22.95	22.84		
20	PI2 BPSK	50	0	22.22	22.24	22.26	23.5	0.5
20	PI2 BPSK	50	28	22.80	22.80	22.75	24.0	0.0
20	PI2 BPSK	50	56	22.14	22.27	22.21	23.5	0.5
20	PI2 BPSK	100	0	22.24	22.24	22.28		
20	QPSK	1	1	22.85	23.03	22.92	24.0	0.0
20	QPSK	1	53	22.87	22.96	22.83		
20	QPSK	1	104	22.88	22.92	22.88		
20	QPSK	50	0	21.85	21.92	21.79	23.0	1.0
20	QPSK	50	28	22.93	22.97	22.92	24.0	0.0
20	QPSK	50	56	21.82	21.86	21.71	23.0	1.0
20	QPSK	100	0	21.86	21.89	21.82		
20	16QAM	1	1	21.72	21.78	21.74	23.0	1.0
20	64QAM	1	1	20.38	20.43	20.40	21.5	2.5
20	256QAM	1	1	18.18	18.29	18.24	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	22.90	22.88	22.83	24.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	22.92	22.99	22.78	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	22.85	22.94	22.84	24.0	0.0

### Reduced Power Mode for DSI2

### n5 Ant0 DSI2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low	Power Middle	Power High	Tune-up limit (dBm)	MPR (dB)
				Ch. / Freq.	Ch. / Freq.	Ch. / Freq.		
Channel				166800	167200	167600		
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	23.10	23.19	23.09	24.0	0.0
20	PI2 BPSK	1	53	22.99	23.06	23.07		
20	PI2 BPSK	1	104	22.85	22.90	22.75		
20	PI2 BPSK	50	0	22.50	22.63	22.59	23.5	0.5
20	PI2 BPSK	50	28	23.08	23.08	23.11	24.0	0.0
20	PI2 BPSK	50	56	22.51	22.64	22.48	23.5	0.5
20	PI2 BPSK	100	0	22.67	22.69	22.53		
20	QPSK	1	1	23.11	23.23	23.17	24.0	0.0
20	QPSK	1	53	22.97	23.14	23.02		
20	QPSK	1	104	22.92	23.00	22.83		
20	QPSK	50	0	22.04	22.07	21.98	23.0	1.0
20	QPSK	50	28	23.04	23.20	23.16	24.0	0.0
20	QPSK	50	56	22.03	22.05	22.00	23.0	1.0
20	QPSK	100	0	22.11	22.24	22.13		
20	16QAM	1	1	21.87	22.02	21.92	23.0	1.0
20	64QAM	1	1	20.57	20.61	20.44	21.5	2.5
20	256QAM	1	1	18.40	18.51	18.38	19.5	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.98	23.14	23.06	24.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.00	23.11	23.07	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	23.07	23.17	23.08	24.0	0.0

### n7 Ant0 DSI2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low	Power Middle	Power High	Tune-up limit (dBm)	MPR (dB)
				Ch. / Freq.	Ch. / Freq.	Ch. / Freq.		
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	22.82	22.89	22.86	24.0	0.0
40	PI2 BPSK	1	108	22.65	22.74	22.69		
40	PI2 BPSK	1	214	22.81	22.91	22.74		
40	PI2 BPSK	108	0	22.39	22.44	22.39	23.5	0.5
40	PI2 BPSK	108	54	22.82	22.90	22.73	24.0	0.0
40	PI2 BPSK	108	108	22.27	22.45	22.32	23.5	0.5
40	PI2 BPSK	216	0	22.25	22.41	22.42		
40	QPSK	1	1	22.88	22.95	22.82	24.0	0.0
40	QPSK	1	108	22.79	22.88	22.87		
40	QPSK	1	214	22.72	22.89	22.81		
40	QPSK	108	0	21.82	21.99	21.87	23.0	1.0
40	QPSK	108	54	22.73	22.91	22.88	24.0	0.0
40	QPSK	108	108	21.74	21.91	21.78	23.0	1.0
40	QPSK	216	0	21.86	21.96	21.82		
40	16QAM	1	1	22.09	22.31	22.19	23.0	1.0
40	64QAM	1	1	20.26	20.22	20.18	21.5	2.5
40	256QAM	1	1	18.19	18.32	18.29	19.5	4.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	22.73	22.84	22.76	24.0	0.0
Channel				502000	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	22.74	22.89	22.71	24.0	0.0
Channel				501000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	22.74	22.85	22.68	24.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2517.5	2535	2562.5		
15	QPSK	1	1	22.74	22.92	22.78	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2565		
10	QPSK	1	1	22.77	22.90	22.89	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2587.5		
5	QPSK	1	1	22.73	22.87	22.68	24.0	0.0



### n14 Ant0 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				158600				
Frequency (MHz)				158600	1793			
10	PI2 BPSK	1	1	23.01			24.0	0.0
10	PI2 BPSK	1	26	22.96				
10	PI2 BPSK	1	50	22.89				
10	PI2 BPSK	25	0	22.49			23.5	0.5
10	PI2 BPSK	25	14	22.95			24.0	0.0
10	PI2 BPSK	50	27	22.47			23.5	0.5
10	PI2 BPSK	50	0	22.53				
10	QPSK	1	1	23.05			24.0	0.0
10	QPSK	1	26	23.00				
10	QPSK	1	50	22.95				
10	QPSK	25	0	21.97			23.0	1.0
10	QPSK	25	14	22.58			24.0	0.0
10	QPSK	25	27	21.97			23.0	1.0
10	QPSK	50	0	22.04			23.0	1.0
10	16QAM	1	1	22.23			23.0	1.0
10	64QAM	1	1	20.72			21.5	2.5
10	256QAM	1	1	18.36			19.5	4.5
Channel				158100	158600	159100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				158100	1793	1793.5	24.0	0.0
5	QPSK	1	1	22.98	22.99	22.91	24.0	0.0

### n66 Ant0 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				
Frequency (MHz)				346000	346000	350000		
40	PI2 BPSK	1	1	22.90	23.07	23.04	24.0	0.0
40	PI2 BPSK	1	108	22.87	22.99	22.87		
40	PI2 BPSK	1	214	22.87	22.93	22.85		
40	PI2 BPSK	108	0	22.36	22.44	22.37	23.5	0.5
40	PI2 BPSK	108	54	22.83	22.91	22.82	24.0	0.0
40	PI2 BPSK	108	108	22.36	22.49	22.40	23.5	0.5
40	PI2 BPSK	216	0	22.40	22.55	22.43		
40	QPSK	1	1	22.96	23.10	22.94	24.0	0.0
40	QPSK	1	108	22.83	23.06	22.86		
40	QPSK	1	214	22.88	23.00	22.90		
40	QPSK	108	0	21.82	21.99	21.96	23.0	1.0
40	QPSK	108	54	22.91	22.93	22.90	24.0	0.0
40	QPSK	108	108	21.80	22.02	21.88	23.0	1.0
40	QPSK	216	0	22.03	22.06	22.02		
40	16QAM	1	1	21.66	21.79	21.67	23.0	1.0
40	64QAM	1	1	20.45	20.55	20.45	21.5	2.5
40	256QAM	1	1	18.19	18.31	18.21	19.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				345000	3745	3762	24.0	0.0
30	QPSK	1	1	22.88	23.03	22.82	24.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				344000	1745	1770		
20	QPSK	1	1	22.82	22.97	22.82	24.0	0.0
Channel				343000	349000	349000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				343000	1745	1772.5		
15	QPSK	1	1	22.84	22.99	22.88	24.0	0.0
Channel				343000	349000	350000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				343000	1745	1772.5		
10	QPSK	1	1	22.82	22.98	22.83	24.0	0.0
Channel				342500	349000	350000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				342500	1745	1777.5		
5	QPSK	1	1	22.84	23.00	22.83	24.0	0.0

### n71 Ant0 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				134600				
Frequency (MHz)				134600	136100	137600		
20	PI2 BPSK	1	1	23.03	23.06	23.00	24.0	0.0
20	PI2 BPSK	1	53	22.92	23.02	22.91		
20	PI2 BPSK	1	104	22.94	22.97	22.83		
20	PI2 BPSK	50	0	22.44	22.49	22.36	23.5	0.5
20	PI2 BPSK	50	28	22.91	23.01	22.88	24.0	0.0
20	PI2 BPSK	50	56	22.30	22.41	22.29	23.5	0.5
20	PI2 BPSK	100	0	22.35	22.49	22.42		
20	QPSK	1	1	23.05	23.11	23.07	24.0	0.0
20	QPSK	1	53	23.02	23.07	23.03		
20	QPSK	1	104	22.91	22.95	22.88		
20	QPSK	50	0	21.96	22.04	21.92	23.0	1.0
20	QPSK	50	28	22.99	23.05	22.93	24.0	0.0
20	QPSK	50	56	21.92	21.96	21.88	23.0	1.0
20	QPSK	100	0	21.96	22.02	21.89		
20	16QAM	1	1	22.25	22.39	22.23	23.0	1.0
20	64QAM	1	1	20.27	20.39	20.31	21.5	2.5
20	256QAM	1	1	18.63	18.74	18.69	19.5	4.5
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				134100	660.5	662.5	24.0	0.0
15	QPSK	1	1	23.01	23.05	22.93	24.0	0.0
Channel				133800	136100	138600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				133800	668	693		
10	QPSK	1	1	22.91	23.07	22.94	24.0	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				133100	695.5	697.5		
5	QPSK	1	1	22.91	22.98	22.95	24.0	0.0





n41 PC3 Ant0 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				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	22.46	22.47	22.51			
100	PI2 BPSK	1	137	22.39	22.51	22.55	24.0	0.0	
100	PI2 BPSK	1	271	22.54	22.50	22.42			
100	PI2 BPSK	135	0	21.85	21.93	21.85	23.5	0.5	
100	PI2 BPSK	135	69	22.50	22.53	22.44	24.0	0.0	
100	PI2 BPSK	135	138	21.74	21.98	21.88	23.5	0.5	
100	PI2 BPSK	270	0	22.00	21.83	21.82			
100	QPSK	1	1	22.59	22.63	22.47			
100	QPSK	1	137	22.37	22.43	22.36	24.0	0.0	
100	QPSK	1	271	22.51	22.58	22.50			
100	QPSK	135	0	21.32	21.35	21.26	23.0	1.0	
100	QPSK	135	69	22.52	22.61	22.45	24.0	0.0	
100	QPSK	135	138	21.36	21.41	21.28	23.0	1.0	
100	QPSK	270	0	21.33	21.40	21.31			
100	16QAM	1	1	21.39	21.40	21.31	23.0	1.0	
100	16QAM	1	1	19.92	19.81	19.71	21.5	2.5	
100	256QAM	1	1	18.21	18.16	18.19	19.5	4.5	
Channel				50200	51898	52900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	24.0	0.0	
90	QPSK	1	1	22.52	22.51	22.38	24.0	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99	24.0	0.0	
80	QPSK	1	1	22.53	22.59	22.36	24.0	0.0	
Channel				502002	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2655	24.0	0.0	
70	QPSK	1	1	22.54	22.57	22.36	24.0	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98	24.0	0.0	
60	QPSK	1	1	22.48	22.54	22.43	24.0	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	24.0	0.0	
50	QPSK	1	1	22.45	22.48	22.39	24.0	0.0	
Channel				502002	518998	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	24.0	0.0	
40	QPSK	1	1	22.52	22.50	22.38	24.0	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99	24.0	0.0	
30	QPSK	1	1	22.52	22.49	22.44	24.0	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	24.0	0.0	
20	QPSK	1	1	22.51	22.55	22.35	24.0	0.0	

n41 PC2 Ant0 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				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	25.45	25.53	25.47			
100	PI2 BPSK	1	137	25.37	25.49	25.36	26.0	0.0	
100	PI2 BPSK	1	271	25.30	25.44	25.32			
100	PI2 BPSK	135	0	24.92	24.97	24.85	25.5	0.5	
100	PI2 BPSK	135	69	25.37	25.47	25.38	26.0	0.0	
100	PI2 BPSK	135	138	24.95	25.05	25.00	25.5	0.5	
100	PI2 BPSK	270	0	24.98	25.09	24.98			
100	QPSK	1	1	25.48	25.57	25.53			
100	QPSK	1	137	25.43	25.52	25.43	26.0	0.0	
100	QPSK	1	271	25.41	25.46	25.41			
100	QPSK	135	0	24.46	24.51	24.37	25.0	1.0	
100	QPSK	135	69	25.43	25.54	25.40	26.0	0.0	
100	QPSK	135	138	24.37	24.45	24.42	25.0	1.0	
100	QPSK	270	0	24.39	24.52	24.48			
100	16QAM	1	1	24.21	24.25	24.21	25.0	1.0	
100	16QAM	1	1	21.73	21.85	21.80	23.5	2.5	
100	256QAM	1	1	19.60	19.64	19.51	21.5	4.5	
Channel				50200	51898	52900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	24.0	0.0	
90	QPSK	1	1	25.43	25.48	25.41	26.0	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99	24.0	0.0	
80	QPSK	1	1	25.43	25.47	25.46	26.0	0.0	
Channel				502002	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2655	24.0	0.0	
70	QPSK	1	1	25.34	25.53	25.46	26.0	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98	24.0	0.0	
60	QPSK	1	1	25.38	25.46	25.43	26.0	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	24.0	0.0	
50	QPSK	1	1	25.38	25.49	25.48	26.0	0.0	
Channel				502002	518998	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	24.0	0.0	
40	QPSK	1	1	25.36	25.43	25.38	26.0	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99	24.0	0.0	
30	QPSK	1	1	25.42	25.44	25.41	26.0	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	24.0	0.0	
20	QPSK	1	1	25.44	25.52	25.38	26.0	0.0	



### n2 Ant1 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1860	1860	1900		
20	PI2 BPSK	1	1	15.37	15.45	15.41		
20	PI2 BPSK	1	53	15.19	15.34	15.20	16.8	0.0
20	PI2 BPSK	1	104	15.31	15.37	15.22		
20	PI2 BPSK	50	0	15.24	15.34	15.30	16.8	0.0
20	PI2 BPSK	50	28	15.32	15.39	15.29	16.8	0.0
20	PI2 BPSK	50	58	15.15	15.24	15.11	16.8	0.0
20	PI2 BPSK	100	0	15.25	15.29	15.18		
20	QPSK	1	1	15.41	15.50	15.36		
20	QPSK	1	53	15.36	15.39	15.25	16.8	0.0
20	QPSK	1	104	15.25	15.34	15.27		
20	QPSK	50	0	15.29	15.38	15.35	16.8	0.0
20	QPSK	50	28	15.36	15.42	15.33	16.8	0.0
20	QPSK	50	58	15.21	15.32	15.20	16.8	0.0
20	QPSK	100	0	15.24	15.35	15.26		
20	16QAM	1	1	15.25	15.33	15.21	16.8	0.0
20	16QAM	1	1	15.29	15.35	15.30	16.8	0.0
20	256QAM	1	1	15.23	15.37	15.25	16.8	0.0
Channel								
Frequency (MHz)				37000	37000	38000	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	15.26	15.42	15.26	16.8	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	15.33	15.43	15.23	16.8	0.0
Channel								
Frequency (MHz)				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	1852.5	1860	1907.5	16.8	0.0

### n5 Ant1 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				166800	167300	167800		
20	PI2 BPSK	1	1	20.04	20.23	20.14		
20	PI2 BPSK	1	53	20.10	20.15	20.10	21.3	0.0
20	PI2 BPSK	1	104	20.02	20.15	20.04		
20	PI2 BPSK	50	0	20.11	20.20	20.09	21.3	0.0
20	PI2 BPSK	50	28	20.09	20.13	19.99	21.3	0.0
20	PI2 BPSK	50	58	19.98	20.08	19.93	21.3	0.0
20	PI2 BPSK	100	0	20.06	20.10	19.99		
20	QPSK	1	1	20.15	20.26	20.18		
20	QPSK	1	53	20.03	20.17	20.07	21.3	0.0
20	QPSK	1	104	20.15	20.19	20.07		
20	QPSK	50	0	19.96	20.10	20.03	21.3	0.0
20	QPSK	50	28	20.12	20.17	20.11	21.3	0.0
20	QPSK	50	58	19.92	20.06	19.95	21.3	0.0
20	QPSK	100	0	19.98	20.11	19.97		
20	16QAM	1	1	19.98	20.06	19.95	21.3	0.0
20	16QAM	1	1	19.96	20.02	19.88	21.3	0.0
20	256QAM	1	1	18.41	18.48	18.44	19.5	1.8
Channel								
Frequency (MHz)				165300	167000	168500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	20.04	20.23	20.14	21.3	0.0
Channel								
Frequency (MHz)				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	20.08	20.16	20.04	21.3	0.0
Channel								
Frequency (MHz)				165300	167000	169300	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	20.08	20.19	20.12	21.3	0.0

### n7 Ant1 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	14.81	14.88	14.75		
40	PI2 BPSK	1	108	14.67	14.80	14.70	15.9	0.0
40	PI2 BPSK	1	214	14.80	14.73	14.81		
40	PI2 BPSK	108	0	14.73	14.81	14.74	15.9	0.0
40	PI2 BPSK	108	54	14.82	14.87	14.80	15.9	0.0
40	PI2 BPSK	108	108	14.68	14.78	14.70	15.9	0.0
40	PI2 BPSK	216	0	14.73	14.82	14.73		
40	QPSK	1	1	14.87	14.93	14.82		
40	QPSK	1	108	14.79	14.85	14.70	15.9	0.0
40	QPSK	1	214	14.74	14.87	14.76		
40	QPSK	108	0	14.82	14.88	14.80	15.9	0.0
40	QPSK	108	54	14.87	14.91	14.80	15.9	0.0
40	QPSK	108	108	14.71	14.73	14.80	15.9	0.0
40	QPSK	216	0	14.69	14.75	14.66		
40	16QAM	1	1	14.82	14.70	14.57	15.9	0.0
40	16QAM	1	1	14.80	14.88	14.59	15.9	0.0
40	256QAM	1	1	14.58	14.66	14.82	15.9	0.0
Channel								
Frequency (MHz)				50300	50700	51100	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	14.75	14.81	14.75	15.9	0.0
Channel								
Frequency (MHz)				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	2512.5	2535	2557.5	15.9	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	14.84	14.90	14.68	15.9	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	14.83	14.89	14.72	15.9	0.0
Channel								
Frequency (MHz)				2905	2935	2965	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	14.81	14.86	14.87	15.9	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	14.77	14.82	14.69	15.9	0.0



n66 Ant1 DSI2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				345000	349000	353000	
Frequency (MHz)				1730	1745	1760	
40	PI2 BPSK	1	1	16.48	16.56	16.53	
40	PI2 BPSK	1	168	16.37	16.53	16.38	0.0
40	PI2 BPSK	1	214	16.43	16.52	16.32	
40	PI2 BPSK	108	0	16.40	16.47	16.41	17.5 0.0
40	PI2 BPSK	108	54	16.46	16.49	16.40	17.5 0.0
40	PI2 BPSK	108	108	16.25	16.34	16.33	17.5 0.0
40	PI2 BPSK	216	0	16.30	16.37	16.37	
40	QPSK	1	1	16.57	16.64	16.48	
40	QPSK	1	108	16.47	16.60	16.46	17.5 0.0
40	QPSK	1	214	16.38	16.48	16.33	
40	QPSK	108	0	16.44	16.45	16.35	17.5 0.0
40	QPSK	108	54	16.45	16.56	16.43	17.5 0.0
40	QPSK	108	108	16.44	16.47	16.38	
40	QPSK	216	0	16.47	16.51	16.48	17.5 0.0
40	16QAM	1	1	16.23	16.33	16.29	17.5 0.0
40	64QAM	1	1	16.45	16.49	16.37	17.5 0.0
40	256QAM	1	1	16.39	16.50	16.42	17.5 0.0
Channel				349000	349000	353000	Tune-up limit (dBm) MPR
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	16.46	16.54	16.38	17.5 0.0
Channel				344000	349000	354000	Tune-up limit MPR
Frequency (MHz)				1720	1745	1770	(dB) (dB)
20	QPSK	1	1	16.47	16.51	16.37	17.5 0.0
Channel				343500	349000	354500	Tune-up limit MPR
Frequency (MHz)				1717.5	1745	1772.5	(dBm) (dB)
15	QPSK	1	1	16.50	16.57	16.42	17.5 0.0
Channel				343000	349000	355000	Tune-up limit MPR
Frequency (MHz)				1715	1745	1775	(dBm) (dB)
10	QPSK	1	1	16.47	16.56	16.37	17.5 0.0
Channel				342500	349000	355500	Tune-up limit MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm) (dB)
5	QPSK	1	1	16.49	16.59	16.39	17.5 0.0

n71 Ant1 DSI2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				136500	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI2 BPSK	1	1	20.54	20.59	20.50	
20	PI2 BPSK	1	53	20.43	20.52	20.37	21.7 0.0
20	PI2 BPSK	1	104	20.40	20.48	20.34	
20	PI2 BPSK	50	0	20.54	20.67	20.61	21.7 0.0
20	PI2 BPSK	50	28	20.55	20.61	20.52	21.7 0.0
20	PI2 BPSK	50	56	20.48	20.54	20.43	21.7 0.0
20	PI2 BPSK	100	0	20.46	20.55	20.44	
20	QPSK	1	1	20.54	20.70	20.66	
20	QPSK	1	53	20.47	20.56	20.42	21.7 0.0
20	QPSK	1	104	20.46	20.51	20.39	
20	QPSK	50	0	20.56	20.62	20.49	21.7 0.0
20	QPSK	50	28	20.59	20.63	20.55	21.7 0.0
20	QPSK	50	56	20.47	20.51	20.44	
20	QPSK	100	0	20.53	20.58	20.44	21.7 0.0
20	16QAM	1	1	20.50	20.53	20.47	21.7 0.0
20	64QAM	1	1	20.25	20.34	20.21	21.5 0.2
20	256QAM	1	1	18.53	18.83	18.58	19.5 2.2
Channel				134100	136100	138100	Tune-up limit MPR
Frequency (MHz)				670.5	680.5	690.5	(dBm) (dB)
15	QPSK	1	1	20.53	20.59	20.60	21.7 0.0
Channel				133600	136100	138600	Tune-up limit MPR
Frequency (MHz)				668	680.5	692	(dBm) (dB)
10	QPSK	1	1	20.51	20.62	20.54	21.7 0.0
Channel				133100	136100	139100	Tune-up limit MPR
Frequency (MHz)				665.5	680.5	695.5	(dBm) (dB)
5	QPSK	1	1	20.57	20.65	20.57	21.7 0.0



n41 Ant1 PC3 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				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	14.38	14.50	14.22			
100	PI2 BPSK	1	137	14.30	14.37	14.15	15.7	0.0	
100	PI2 BPSK	1	271	14.08	14.34	14.31			
100	PI2 BPSK	135	0	14.38	14.44	14.30	15.7	0.0	
100	PI2 BPSK	135	69	14.25	14.38	14.23	15.7	0.0	
100	PI2 BPSK	135	138	14.12	14.25	14.23	15.7	0.0	
100	PI2 BPSK	270	0	14.38	14.49	14.24			
100	QPSK	1	1	14.43	14.55	14.35			
100	QPSK	1	137	14.38	14.43	14.28	15.7	0.0	
100	QPSK	1	271	14.18	14.38	14.34			
100	QPSK	135	0	14.39	14.33	14.30	15.7	0.0	
100	QPSK	135	69	14.40	14.48	14.33	15.7	0.0	
100	QPSK	135	138	14.07	14.29	14.32	15.7	0.0	
100	QPSK	270	0	14.38	14.45	14.22			
100	16QAM	1	1	14.35	14.38	14.19	15.7	0.0	
100	16QAM	1	1	14.12	14.27	14.25	15.7	0.0	
100	256QAM	1	1	14.15	14.34	14.31	15.7	0.0	
Channel				50200	51898	52998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	14.34	14.43	14.19	15.7	0.0	
Channel				507204	518988	529988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	14.20	14.40	14.20	15.7	0.0	
Channel				503202	518988	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	14.35	14.39	14.24	15.7	0.0	
Channel				505200	518988	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	14.37	14.47	14.26	15.7	0.0	
Channel				504204	518988	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	14.33	14.45	14.23	15.7	0.0	
Channel				503202	518988	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	14.38	14.51	14.27	15.7	0.0	
Channel				502200	518988	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	14.27	14.44	14.26	15.7	0.0	
Channel				501204	518988	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	14.31	14.43	14.23	15.7	0.0	

n41 Ant 1 PC2 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				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	17.38	17.46	17.16			
100	PI2 BPSK	1	137	17.33	17.38	17.11	18.7	0.0	
100	PI2 BPSK	1	271	17.07	17.33	17.34			
100	PI2 BPSK	135	0	17.33	17.45	17.33	18.7	0.0	
100	PI2 BPSK	135	69	17.23	17.33	17.19	18.7	0.0	
100	PI2 BPSK	135	138	17.14	17.24	17.23	18.7	0.0	
100	PI2 BPSK	270	0	17.33	17.45	17.29			
100	QPSK	1	1	17.45	17.51	17.36			
100	QPSK	1	137	17.32	17.45	17.25	18.7	0.0	
100	QPSK	1	271	17.22	17.40	17.28			
100	QPSK	135	0	17.38	17.35	17.32	18.7	0.0	
100	QPSK	135	69	17.44	17.47	17.38	18.7	0.0	
100	QPSK	135	138	17.07	17.23	17.27	18.7	0.0	
100	QPSK	270	0	17.37	17.49	17.21			
100	16QAM	1	1	17.40	17.38	17.15	18.7	0.0	
100	16QAM	1	1	17.07	17.32	17.29	18.7	0.0	
100	256QAM	1	1	17.16	17.35	17.33	18.7	0.0	
Channel				50200	51898	52998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	17.37	17.40	17.27	18.7	0.0	
Channel				507204	518988	529988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	17.27	17.43	17.20	18.7	0.0	
Channel				503202	518988	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	17.35	17.42	17.22	18.7	0.0	
Channel				505200	518988	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	17.40	17.43	17.17	18.7	0.0	
Channel				504204	518988	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	17.35	17.43	17.17	18.7	0.0	
Channel				503202	518988	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	17.34	17.38	17.22	18.7	0.0	
Channel				502200	518988	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	17.24	17.42	17.22	18.7	0.0	
Channel				501204	518988	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	17.41	17.45	17.19	18.7	0.0	



### n41 PC3 Ant2 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	16.31	16.34	16.28		
100	PI2 BPSK	1	137	16.04	16.24	16.09	17.4	0.0
100	PI2 BPSK	1	271	16.27	16.29	16.17		
100	PI2 BPSK	135	0	16.29	16.44	16.29	17.4	0.0
100	PI2 BPSK	135	69	16.04	16.30	16.16	17.4	0.0
100	PI2 BPSK	135	138	16.26	16.36	16.14	17.4	0.0
100	PI2 BPSK	270	0	16.22	16.30	16.08		
100	QPSK	1	1	16.37	16.47	16.33		
100	QPSK	1	137	16.15	16.32	16.21	17.4	0.0
100	QPSK	1	271	16.32	16.41	16.21		
100	QPSK	135	0	16.15	16.28	16.11	17.4	0.0
100	QPSK	135	69	16.27	16.33	16.26	17.4	0.0
100	QPSK	135	138	16.24	16.31	16.13	17.4	0.0
100	QPSK	270	0	16.18	16.25	16.07		
100	16QAM	1	1	16.27	16.41	16.24	17.4	0.0
100	16QAM	1	1	16.06	16.28	16.16	17.4	0.0
100	256QAM	1	1	16.26	16.34	16.07	17.4	0.0
Channel								
Frequency (MHz)				50320	51858	53396		
90	QPSK	1	1	16.32	16.41	16.19	17.4	0.0
Channel								
Frequency (MHz)				507204	518598	529986		
80	QPSK	1	1	16.27	16.40	16.18	17.4	0.0
Channel								
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	16.26	16.41	16.25	17.4	0.0
Channel								
Frequency (MHz)				505200	518598	531986		
60	QPSK	1	1	16.29	16.34	16.28	17.4	0.0
Channel								
Frequency (MHz)				504204	518598	532986		
50	QPSK	1	1	16.30	16.41	16.21	17.4	0.0
Channel								
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	16.30	16.35	16.22	17.4	0.0
Channel								
Frequency (MHz)				502200	518598	534986		
30	QPSK	1	1	16.31	16.43	16.23	17.4	0.0
Channel								
Frequency (MHz)				501204	518598	535986		
20	QPSK	1	1	16.31	16.43	16.19	17.4	0.0

### n41 PC2 Ant2 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	19.19	19.28	19.11		
100	PI2 BPSK	1	137	18.91	19.10	19.01	20.4	0.0
100	PI2 BPSK	1	271	19.13	19.16	19.03		
100	PI2 BPSK	135	0	19.24	19.34	19.18	20.4	0.0
100	PI2 BPSK	135	69	18.92	19.25	19.07	20.4	0.0
100	PI2 BPSK	135	138	19.16	19.23	19.03	20.4	0.0
100	PI2 BPSK	270	0	19.13	19.19	18.95		
100	QPSK	1	1	19.22	19.46	19.18		
100	QPSK	1	137	19.11	19.27	19.08	20.4	0.0
100	QPSK	1	271	19.23	19.31	19.09		
100	QPSK	135	0	19.03	19.20	18.98	20.4	0.0
100	QPSK	135	69	19.21	19.27	19.21	20.4	0.0
100	QPSK	135	138	19.06	19.22	19.06	20.4	0.0
100	QPSK	270	0	19.04	19.05	18.96		
100	16QAM	1	1	19.14	19.33	19.09	20.4	0.0
100	16QAM	1	1	18.97	19.23	19.02	20.4	0.0
100	256QAM	1	1	19.19	19.28	18.99	20.4	0.0
Channel								
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	19.04	19.27	18.99	20.4	0.0
Channel								
Frequency (MHz)				507204	518598	529986		
80	QPSK	1	1	19.07	19.27	19.01	20.4	0.0
Channel								
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	19.02	19.19	19.07	20.4	0.0
Channel								
Frequency (MHz)				505200	518598	531986		
60	QPSK	1	1	19.11	19.23	19.04	20.4	0.0
Channel								
Frequency (MHz)				504204	518598	532986		
50	QPSK	1	1	19.10	19.25	19.07	20.4	0.0
Channel								
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.08	19.25	19.05	20.4	0.0
Channel								
Frequency (MHz)				502200	518598	534986		
30	QPSK	1	1	19.02	19.20	18.99	20.4	0.0
Channel								
Frequency (MHz)				501204	518598	535986		
20	QPSK	1	1	19.09	19.19	19.04	20.4	0.0

### n48 Part96 Ant2 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	12.64	12.70	12.53		
40	PI2 BPSK	1	53	12.46	12.84	12.49	13.8	0.0
40	PI2 BPSK	1	104	12.51	12.57	12.46		
40	PI2 BPSK	50	0	12.55	12.68	12.46	13.8	0.0
40	PI2 BPSK	50	28	12.59	12.68	12.56	13.8	0.0
40	PI2 BPSK	50	56	12.47	12.59	12.47	13.8	0.0
40	PI2 BPSK	100	0	12.49	12.66	12.55		
40	QPSK	1	1	12.73	12.78	12.68		
40	QPSK	1	53	12.58	12.72	12.53	13.8	0.0
40	QPSK	1	104	12.61	12.70	12.61		
40	QPSK	50	0	12.58	12.59	12.40	13.8	0.0
40	QPSK	50	28	12.61	12.76	12.64	13.8	0.0
40	QPSK	50	56	12.50	12.59	12.54	13.8	0.0
40	QPSK	100	0	12.43	12.56	12.47		
40	16QAM	1	1	12.62	12.68	12.50	13.8	0.0
40	16QAM	1	1	12.61	12.55	12.49	13.8	0.0
40	256QAM	1	1	12.46	12.48	12.49	13.8	0.0
Channel								
Frequency (MHz)				637334	641666	646000		
30	QPSK	1	1	12.68	12.63	12.57	13.8	0.0
Channel								
Frequency (MHz)				3560.01	3624.99	3690		
20	QPSK	1	1	12.67	12.70	12.54	13.8	0.0



### Part270 n77 PC3 Ant2 DSI2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3760	3840	3930		
100	PI2 BPSK	1	1	12.58	12.59	12.57	13.3	0.0
100	PI2 BPSK	1	137	12.85	12.80	12.50		
100	PI2 BPSK	1	271	12.45	12.61	12.45		
100	PI2 BPSK	135	0	12.50	12.50	12.51	13.3	0.0
100	PI2 BPSK	135	69	12.44	12.44	12.44	13.3	0.0
100	PI2 BPSK	135	138	12.51	12.53	12.48	13.3	0.0
100	PI2 BPSK	270	0	12.50	12.56	12.49		
100	QPSK	1	1	12.58	12.68	12.39		
100	QPSK	1	137	12.47	12.53	12.48	13.3	0.0
100	QPSK	1	271	12.49	12.46	12.33		
100	QPSK	135	0	12.34	12.52	12.38	13.3	0.0
100	QPSK	135	69	12.56	12.64	12.55	13.3	0.0
100	QPSK	135	138	12.29	12.42	12.42	13.3	0.0
100	QPSK	270	0	12.43	12.45	12.35		
100	16QAM	1	1	12.36	12.55	12.52	13.3	0.0
100	16QAM	1	1	12.34	12.44	12.42	13.3	0.0
100	256QAM	1	1	12.25	12.38	12.30	13.3	0.0
Channel								
Frequency (MHz)				649668	650000	662334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	12.59	12.62	12.53	13.3	0.0
Channel								
Frequency (MHz)				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	12.57	12.60	12.49	13.3	0.0
Channel								
Frequency (MHz)				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	12.58	12.61	12.49	13.3	0.0
Channel								
Frequency (MHz)				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	12.55	12.55	12.54	13.3	0.0
Channel								
Frequency (MHz)				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	12.61	12.54	12.55	13.3	0.0
Channel								
Frequency (MHz)				3720	3840	3960	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	12.55	12.60	12.54	13.3	0.0
Channel								
Frequency (MHz)				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	12.60	12.59	12.59	13.3	0.0
Channel								
Frequency (MHz)				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	12.51	12.66	12.49	13.3	0.0
Channel								
Frequency (MHz)				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	12.57	12.60	12.47	13.3	0.0
Channel								
Frequency (MHz)				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	12.57	12.55	12.53	13.3	0.0

### Part270 n77 PC2 Ant2 DSI2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3760	3840	3930		
100	PI2 BPSK	1	1	15.55	15.54	15.54	16.3	0.0
100	PI2 BPSK	1	137	15.46	15.56	15.53		
100	PI2 BPSK	1	271	15.47	15.49	15.44		
100	PI2 BPSK	135	0	15.57	15.47	15.46	16.3	0.0
100	PI2 BPSK	135	69	15.42	15.48	15.43	16.3	0.0
100	PI2 BPSK	135	138	15.47	15.52	15.45	16.3	0.0
100	PI2 BPSK	270	0	15.47	15.62	15.46		
100	QPSK	1	1	15.61	15.65	15.56		
100	QPSK	1	137	15.49	15.51	15.44	16.3	0.0
100	QPSK	1	271	15.61	15.45	15.31		
100	QPSK	135	0	15.29	15.57	15.43	16.3	0.0
100	QPSK	135	69	15.52	15.58	15.56	16.3	0.0
100	QPSK	135	138	15.27	15.40	15.47	16.3	0.0
100	QPSK	270	0	15.42	15.54	15.34		
100	16QAM	1	1	15.38	15.62	15.50	16.3	0.0
100	16QAM	1	1	15.39	15.47	15.44	16.3	0.0
100	256QAM	1	1	15.22	15.39	15.28	16.3	0.0
Channel								
Frequency (MHz)				649668	650000	662334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	15.54	15.61	15.52	16.3	0.0
Channel								
Frequency (MHz)				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	15.47	15.57	15.50	16.3	0.0
Channel								
Frequency (MHz)				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	15.48	15.57	15.46	16.3	0.0
Channel								
Frequency (MHz)				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	15.55	15.54	15.45	16.3	0.0
Channel								
Frequency (MHz)				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	15.46	15.55	15.47	16.3	0.0
Channel								
Frequency (MHz)				3720	3840	3960	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	15.48	15.61	15.46	16.3	0.0
Channel								
Frequency (MHz)				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	15.59	15.57	15.43	16.3	0.0
Channel								
Frequency (MHz)				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	15.58	15.59	15.53	16.3	0.0
Channel								
Frequency (MHz)				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	15.47	15.61	15.46	16.3	0.0
Channel								
Frequency (MHz)				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	15.52	15.58	15.52	16.3	0.0

### Part27Q n77 PC3 Ant2 DSI2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)							3500.01	
100	PI2 BPSK	1	1				12.84	
100	PI2 BPSK	1	137				12.81	13.3
100	PI2 BPSK	1	271				12.80	
100	PI2 BPSK	135	0				12.73	13.3
100	PI2 BPSK	135	69				12.67	13.3
100	PI2 BPSK	135	138				12.69	13.3
100	PI2 BPSK	270	0				12.83	
100	QPSK	1	1				12.89	
100	QPSK	1	137				12.74	13.3
100	QPSK	1	271				12.72	
100	QPSK	135	0				12.76	13.3
100	QPSK	135	69				12.83	13.3
100	QPSK	135	138				12.85	13.3
100	QPSK	270	0				12.84	
100	16QAM	1	1				12.81	13.3
100	16QAM	1	1				12.83	13.3
100	256QAM	1	1				12.61	13.3
Channel								
Frequency (MHz)				633090	633334	633668	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	12.76	12.83	12.84	13.3	0.0
Channel								
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	12.85	12.75	12.86	13.3	0.0
Channel								
Frequency (MHz)				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	12.88	12.85	12.85	13.3	0.0
Channel								
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	12.80	12.76	12.84	13.3	0.0
Channel								
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	12.75	12.79	12.85	13.3	0.0
Channel								
Frequency (MHz)				3470.01	3500.01	3530.01	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	12.76	12.79	12.79	13.3	0.0
Channel								
Frequency (MHz)				631000	633334	633668	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	12.83	12.75	12.79	13.3	0.0
Channel								
Frequency (MHz)				630668	633334	634000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	12.81	12.85	12.75	13.3	0.0
Channel								
Frequency (MHz)				630500	633334	634334	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	12.75	12.76	12.80	13.3	0.0
Channel								
Frequency (MHz)				630334	633334	634668	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	12.85	12.80	12.85	13.3	0.0



Part27Q n77 PC2 Ant2 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				3500.01					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1	15.79					
100	PI2 BPSK	1	137	15.76			16.3	0.0	
100	PI2 BPSK	1	271	15.80					
100	PI2 BPSK	135	61	15.78			16.3	0.0	
100	PI2 BPSK	135	69	15.85			16.3	0.0	
100	PI2 BPSK	135	138	15.85			16.3	0.0	
100	PI2 BPSK	270	0	15.84					
100	QPSK	1	1	15.96					
100	QPSK	1	137	15.72			16.3	0.0	
100	QPSK	1	271	15.76					
100	QPSK	135	0	15.73			16.3	0.0	
100	QPSK	135	69	15.87			16.3	0.0	
100	QPSK	135	138	15.89			16.3	0.0	
100	QPSK	270	0	15.75					
100	16QAM	1	1	15.85			16.3	0.0	
100	64QAM	1	1	15.69			16.3	0.0	
100	256QAM	1	1	15.57			16.3	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	15.88	15.91	15.84	16.3	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	15.92	15.87	15.85	16.3	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	15.88	15.88	15.82	16.3	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	15.89	15.85	15.81	16.3	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	15.91	15.90	15.85	16.3	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	15.88	15.81	15.80	16.3	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	15.92	15.89	15.85	16.3	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	15.86	15.85	15.82	16.3	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.02			
15	QPSK	1	1	15.89	15.84	15.80	16.3	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	15.89	15.87	15.82	16.3	0.0	

Part27O n78 Ant2 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				3750					
Frequency (MHz)				3750					
100	PI2 BPSK	1	1	12.76					
100	PI2 BPSK	1	137	12.88			13.3	0.0	
100	PI2 BPSK	1	271	12.86					
100	PI2 BPSK	135	61	12.80			13.3	0.0	
100	PI2 BPSK	135	69	12.55			13.3	0.0	
100	PI2 BPSK	135	138	12.83			13.3	0.0	
100	PI2 BPSK	270	0	12.75					
100	QPSK	1	1	12.94					
100	QPSK	1	137	12.88			13.3	0.0	
100	QPSK	1	271	12.59					
100	QPSK	135	0	12.89			13.3	0.0	
100	QPSK	135	69	12.76			13.3	0.0	
100	QPSK	135	138	12.49			13.3	0.0	
100	QPSK	270	0	12.56					
100	16QAM	1	1	12.69			13.3	0.0	
100	64QAM	1	1	12.51			13.3	0.0	
100	256QAM	1	1	12.56			13.3	0.0	
Channel				640668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	12.72	12.81	12.74	13.3	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	12.75	12.73	12.77	13.3	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	12.74	12.74	12.78	13.3	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	12.70	12.78	12.81	13.3	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	12.77	12.70	12.75	13.3	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	12.75	12.76	12.74	13.3	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	12.77	12.69	12.75	13.3	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	12.71	12.73	12.74	13.3	0.0	
Channel				647168	650000	652934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	12.74	12.80	12.78	13.3	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	12.69	12.75	12.81	13.3	0.0	

Part27Q n78 Ant2 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				3500.01					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1	12.85					
100	PI2 BPSK	1	137	12.86			13.3	0.0	
100	PI2 BPSK	1	271	12.52					
100	PI2 BPSK	135	0	12.48			13.3	0.0	
100	PI2 BPSK	135	69	12.51			13.3	0.0	
100	PI2 BPSK	135	138	12.59			13.3	0.0	
100	PI2 BPSK	270	0	12.87					
100	QPSK	1	1	12.90					
100	QPSK	1	137	12.75			13.3	0.0	
100	QPSK	1	271	12.61					
100	QPSK	135	0	12.85			13.3	0.0	
100	QPSK	135	69	12.72			13.3	0.0	
100	QPSK	135	138	12.86			13.3	0.0	
100	QPSK	270	0	12.88					
100	16QAM	1	1	12.62			13.3	0.0	
100	64QAM	1	1	12.46			13.3	0.0	
100	256QAM	1	1	12.46			13.3	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	12.70	12.74	12.84	13.3	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	12.69	12.70	12.85	13.3	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	12.58	12.84	12.51	13.3	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	12.80	12.81	12.50	13.3	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	12.65	12.88	12.36	13.3	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	12.86	12.83	12.49	13.3	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	12.67	12.67	12.49	13.3	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	12.80	12.84	12.49	13.3	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.02			
15	QPSK	1	1	12.56	12.82	12.60	13.3	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			



### Part270 n77 PC3 Ant4 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	14.09	14.15	14.06		
100	PI2 BPSK	1	137	13.99	14.06	14.01	15.2	0.0
100	PI2 BPSK	1	271	14.03	14.12	13.97		
100	PI2 BPSK	135	0	14.09	14.09	13.92	15.2	0.0
100	PI2 BPSK	135	69	13.91	13.92	13.82	15.2	0.0
100	PI2 BPSK	135	138	13.94	14.03	13.91	15.2	0.0
100	PI2 BPSK	270	0	14.06	14.14	13.93		
100	QPSK	1	1	14.10	14.18	14.05		
100	QPSK	1	137	13.99	14.12	14.08	15.2	0.0
100	QPSK	1	271	13.84	13.85	13.87		
100	QPSK	135	0	13.96	14.07	13.97	15.2	0.0
100	QPSK	135	69	13.96	14.04	14.00	15.2	0.0
100	QPSK	135	138	13.83	13.91	13.92	15.2	0.0
100	QPSK	270	0	13.93	13.96	13.84		
100	16QAM	1	1	13.89	13.99	13.87	15.2	0.0
100	16QAM	1	137	13.80	13.93	13.84	15.2	0.0
100	256QAM	1	1	13.72	13.86	13.92	15.2	0.0
Channel								
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	14.01	14.09	13.96	15.2	0.0
Channel								
Frequency (MHz)				649334	656000	662668		
80	QPSK	1	1	13.94	14.01	13.94	15.2	0.0
Channel								
Frequency (MHz)				649000	656000	663000		
70	QPSK	1	1	14.04	14.06	13.99	15.2	0.0
Channel								
Frequency (MHz)				648968	656000	663334		
80	QPSK	1	1	14.00	14.05	13.99	15.2	0.0
Channel								
Frequency (MHz)				648334	656000	663668		
50	QPSK	1	1	13.96	14.09	14.00	15.2	0.0
Channel								
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	13.98	14.11	14.00	15.2	0.0
Channel								
Frequency (MHz)				647668	656000	664334		
30	QPSK	1	1	14.03	14.14	13.91	15.2	0.0
Channel								
Frequency (MHz)				647334	656000	664668		
20	QPSK	1	1	13.99	14.03	14.01	15.2	0.0
Channel								
Frequency (MHz)				3707.62	3840	3972.51		
15	QPSK	1	1	14.04	14.12	14.00	15.2	0.0
Channel								
Frequency (MHz)				647000	656000	665000		
10	QPSK	1	1	14.00	14.08	13.92	15.2	0.0

### Part270 n77 PC2 Ant4 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	17.08	17.16	17.13		
100	PI2 BPSK	1	137	17.02	17.10	17.06	18.2	0.0
100	PI2 BPSK	1	271	17.00	17.08	16.98		
100	PI2 BPSK	135	0	17.14	17.08	16.92	18.2	0.0
100	PI2 BPSK	135	69	16.98	16.90	16.85	18.2	0.0
100	PI2 BPSK	135	138	16.95	17.05	16.92	18.2	0.0
100	PI2 BPSK	270	0	17.15	17.09	16.92		
100	QPSK	1	1	17.11	17.24	17.02		
100	QPSK	1	137	16.96	17.12	17.08	18.2	0.0
100	QPSK	1	271	16.90	16.97	16.88		
100	QPSK	135	0	16.96	17.05	16.93	18.2	0.0
100	QPSK	135	69	16.94	17.10	17.06	18.2	0.0
100	QPSK	135	138	16.84	16.91	16.82	18.2	0.0
100	QPSK	270	0	16.92	16.94	16.89		
100	16QAM	1	1	16.88	16.98	16.83	18.2	0.0
100	16QAM	1	137	16.77	16.89	16.85	18.2	0.0
100	256QAM	1	1	16.73	16.82	16.89	18.2	0.0
Channel								
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	17.05	17.10	16.94	18.2	0.0
Channel								
Frequency (MHz)				649334	656000	662668		
80	QPSK	1	1	17.07	17.15	16.99	18.2	0.0
Channel								
Frequency (MHz)				649000	656000	663000		
70	QPSK	1	1	16.99	17.20	16.93	18.2	0.0
Channel								
Frequency (MHz)				648968	656000	663334		
80	QPSK	1	1	17.03	17.10	16.89	18.2	0.0
Channel								
Frequency (MHz)				648334	656000	663668		
50	QPSK	1	1	17.05	17.17	16.94	18.2	0.0
Channel								
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	17.01	17.13	16.92	18.2	0.0
Channel								
Frequency (MHz)				647668	656000	664334		
30	QPSK	1	1	17.07	17.19	16.97	18.2	0.0
Channel								
Frequency (MHz)				647334	656000	664668		
20	QPSK	1	1	17.08	17.20	16.94	18.2	0.0
Channel								
Frequency (MHz)				3707.62	3840	3972.51		
15	QPSK	1	1	17.05	17.15	16.94	18.2	0.0
Channel								
Frequency (MHz)				647000	656000	665000		
10	QPSK	1	1	16.99	17.10	16.87	18.2	0.0

### Part27Q n77 PC3 Ant4 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	14.09				
100	PI2 BPSK	1	137	14.01			15.2	0.0
100	PI2 BPSK	1	271	13.92				
100	PI2 BPSK	135	0	14.06			15.2	0.0
100	PI2 BPSK	135	69	13.94			15.2	0.0
100	PI2 BPSK	135	138	13.85			15.2	0.0
100	PI2 BPSK	270	0	14.06				
100	QPSK	1	1	14.11				
100	QPSK	1	137	13.99			15.2	0.0
100	QPSK	1	271	13.82				
100	QPSK	135	0	13.89			15.2	0.0
100	QPSK	135	69	13.95			15.2	0.0
100	QPSK	135	138	13.77			15.2	0.0
100	QPSK	270	0	13.90				
100	16QAM	1	1	13.85			15.2	0.0
100	16QAM	1	137	13.81			15.2	0.0
100	256QAM	1	1	13.76			15.2	0.0
Channel								
Frequency (MHz)				633000	633334	633668		
90	QPSK	1	1	13.97	14.05	13.98	15.2	0.0
Channel								
Frequency (MHz)				632668	633334	634000		
80	QPSK	1	1	14.01	13.96	14.05	15.2	0.0
Channel								
Frequency (MHz)				632334	633334	634334		
70	QPSK	1	1	14.00	14.00	13.98	15.2	0.0
Channel								
Frequency (MHz)				632000	633334	634668		
80	QPSK	1	1	14.03	14.05	13.97	15.2	0.0
Channel								
Frequency (MHz)				631668	633334	635000		
50	QPSK	1	1	14.00	14.02	14.05	15.2	0.0
Channel								
Frequency (MHz)				3497.02	3500.01	3503.00		
40	QPSK	1	1	13.99	13.99	13.97	15.2	0.0
Channel								
Frequency (MHz)				631000	633334	635668		
30	QPSK	1	1	14.07	13.98	14.03	15.2	0.0
Channel								
Frequency (MHz)				630668	633334	636000		
20	QPSK	1	1	14.08	14.02	14.04	15.2	0.0
Channel								
Frequency (MHz)				630334	633334	636334		
15	QPSK	1	1	14.03	14.04	14.02	15.2	0.0
Channel								
Frequency (MHz)				630000	633334	636668		
10	QPSK	1	1	14.02	14.07	14.03	15.2	0.0





### Part27Q n77 PC2 Ant4 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				633000				
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	17.18	17.18		18.2	0.0
100	PI2 BPSK	1	137	17.18	17.18		18.2	0.0
100	PI2 BPSK	1	271	17.01	17.01		18.2	0.0
100	PI2 BPSK	135	0	17.19	17.19		18.2	0.0
100	PI2 BPSK	135	69	17.03	17.03		18.2	0.0
100	PI2 BPSK	135	138	17.01	17.01		18.2	0.0
100	PI2 BPSK	270	0	17.22	17.22		18.2	0.0
100	QPSK	1	1	17.26	17.26		18.2	0.0
100	QPSK	1	137	17.07	17.07		18.2	0.0
100	QPSK	1	271	16.95	16.95		18.2	0.0
100	QPSK	135	0	17.00	17.00		18.2	0.0
100	QPSK	135	69	17.21	17.21		18.2	0.0
100	QPSK	135	138	16.86	16.86		18.2	0.0
100	QPSK	270	0	16.97	16.97		18.2	0.0
100	16QAM	1	1	16.98	16.98		18.2	0.0
100	64QAM	1	1	16.93	16.93		18.2	0.0
100	256QAM	1	1	16.91	16.91		18.2	0.0
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	17.14	17.22	17.15	18.2	0.0
Channel				633668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	17.15	17.17	17.13	18.2	0.0
Channel				632334	633334	634334		
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	17.19	17.15	17.21	18.2	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	17.14	17.17	17.12	18.2	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	17.22	17.20	17.11	18.2	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	17.21	17.20	17.16	18.2	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	17.22	17.13	17.12	18.2	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	17.14	17.19	17.18	18.2	0.0
Channel				630500	633334	636168		
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	17.13	17.18	17.15	18.2	0.0
Channel				630334	633334	636334		
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	17.17	17.21	17.17	18.2	0.0

### Part27O n78 Ant4 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				650000				
Frequency (MHz)				3750				
100	PI2 BPSK	1	1	14.08	14.08		15.2	0.0
100	PI2 BPSK	1	137	14.10	14.10		15.2	0.0
100	PI2 BPSK	1	271	14.02	14.02		15.2	0.0
100	PI2 BPSK	135	0	13.98	13.98		15.2	0.0
100	PI2 BPSK	135	69	14.00	14.00		15.2	0.0
100	PI2 BPSK	135	138	13.92	13.92		15.2	0.0
100	PI2 BPSK	270	0	14.13	14.13		15.2	0.0
100	QPSK	1	1	14.16	14.16		15.2	0.0
100	QPSK	1	137	14.02	14.02		15.2	0.0
100	QPSK	1	271	13.80	13.80		15.2	0.0
100	QPSK	135	0	13.92	13.92		15.2	0.0
100	QPSK	135	69	13.93	13.93		15.2	0.0
100	QPSK	135	138	13.88	13.88		15.2	0.0
100	QPSK	270	0	13.99	13.99		15.2	0.0
100	16QAM	1	1	13.88	13.88		15.2	0.0
100	64QAM	1	1	13.79	13.79		15.2	0.0
100	256QAM	1	1	13.83	13.83		15.2	0.0
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	14.07	14.05	14.05	15.2	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	14.05	14.12	14.02	15.2	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	14.08	14.10	14.01	15.2	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	14.01	14.03	14.05	15.2	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	14.03	14.06	14.02	15.2	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	14.09	14.00	14.06	15.2	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	14.02	14.09	14.03	15.2	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	14.03	14.04	14.02	15.2	0.0
Channel				647168	650000	652834		
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	14.09	14.03	14.08	15.2	0.0
Channel				647000	650000	653000		
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	14.08	14.11	14.03	15.2	0.0

### Part27Q n78 Ant4 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				633000				
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	14.20	14.20		15.2	0.0
100	PI2 BPSK	1	137	14.17	14.17		15.2	0.0
100	PI2 BPSK	1	271	14.03	14.03		15.2	0.0
100	PI2 BPSK	135	0	14.15	14.15		15.2	0.0
100	PI2 BPSK	135	69	14.08	14.08		15.2	0.0
100	PI2 BPSK	135	138	13.96	13.96		15.2	0.0
100	PI2 BPSK	270	0	14.17	14.17		15.2	0.0
100	QPSK	1	1	14.21	14.21		15.2	0.0
100	QPSK	1	137	14.15	14.15		15.2	0.0
100	QPSK	1	271	13.93	13.93		15.2	0.0
100	QPSK	135	0	13.97	13.97		15.2	0.0
100	QPSK	135	69	14.08	14.08		15.2	0.0
100	QPSK	135	138	13.92	13.92		15.2	0.0
100	QPSK	270	0	14.05	14.05		15.2	0.0
100	16QAM	1	1	13.92	13.92		15.2	0.0
100	64QAM	1	1	13.88	13.88		15.2	0.0
100	256QAM	1	1	13.92	13.92		15.2	0.0
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	14.11	14.18	14.08	15.2	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	14.11	14.16	14.16	15.2	0.0
Channel				632334	633334	634334		
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	14.07	14.06	14.12	15.2	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	14.09	14.17	14.15	15.2	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	14.09	14.12	14.15	15.2	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	14.08	14.16	14.10	15.2	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	14.16	14.06	14.07	15.2	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	14.13	14.17	14.08	15.2	0.0
Channel				630500	633334	636168		
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	14.15	14.12	14.07	15.2	0.0
Channel				630334	633334	636334		
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	14.09	14.11	14.07	15.2	0.0



### Part27O n77 PC3 Ant5 DS12

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	13.28	13.41	13.33		
100	PI2 BPSK	1	137	13.29	13.36	13.33	14.5	0.0
100	PI2 BPSK	1	271	13.09	13.23	13.07		
100	PI2 BPSK	135	0	13.36	13.40	13.37	14.5	0.0
100	PI2 BPSK	135	69	13.30	13.33	13.34	14.5	0.0
100	PI2 BPSK	135	138	13.27	13.35	13.27	14.5	0.0
100	PI2 BPSK	270	0	13.27	13.46	13.27		
100	QPSK	1	1	13.42	13.50	13.34		
100	QPSK	1	137	13.30	13.37	13.31	14.5	0.0
100	QPSK	1	271	13.07	13.29	13.14		
100	QPSK	135	0	13.28	13.34	13.35	14.5	0.0
100	QPSK	135	69	13.37	13.43	13.32	14.5	0.0
100	QPSK	135	138	13.21	13.30	13.35	14.5	0.0
100	QPSK	270	0	13.29	13.32	13.26		
100	16QAM	1	1	13.28	13.27	13.27	14.5	0.0
100	16QAM	1	1	13.19	13.28	13.24	14.5	0.0
100	256QAM	1	1	13.25	13.32	13.24	14.5	0.0
Channel								
Frequency (MHz)				645998	656000	662684	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	13.31	13.40	13.25	14.5	0.0
Channel								
Frequency (MHz)				649334	656000	662688	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	13.23	13.27	13.22	14.5	0.0
Channel								
Frequency (MHz)				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	13.31	13.44	13.27	14.5	0.0
Channel								
Frequency (MHz)				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	13.35	13.37	13.30	14.5	0.0
Channel								
Frequency (MHz)				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	13.30	13.45	13.29	14.5	0.0
Channel								
Frequency (MHz)				3720	3840	3960	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	13.29	13.42	13.19	14.5	0.0
Channel								
Frequency (MHz)				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	13.35	13.47	13.29	14.5	0.0
Channel								
Frequency (MHz)				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	13.33	13.39	13.29	14.5	0.0
Channel								
Frequency (MHz)				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	13.37	13.44	13.29	14.5	0.0
Channel								
Frequency (MHz)				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	13.30	13.37	13.31	14.5	0.0

### Part27O n77 PC2 Ant5 DS12

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	16.26	16.37	16.35		
100	PI2 BPSK	1	137	16.33	16.37	16.36	17.5	0.0
100	PI2 BPSK	1	271	16.06	16.29	16.08		
100	PI2 BPSK	135	0	16.33	16.40	16.44	17.5	0.0
100	PI2 BPSK	135	69	16.26	16.34	16.34	17.5	0.0
100	PI2 BPSK	135	138	16.26	16.34	16.28	17.5	0.0
100	PI2 BPSK	270	0	16.28	16.49	16.25		
100	QPSK	1	1	16.39	16.58	16.34		
100	QPSK	1	137	16.35	16.44	16.27	17.5	0.0
100	QPSK	1	271	16.13	16.30	16.10		
100	QPSK	135	0	16.34	16.34	16.39	17.5	0.0
100	QPSK	135	69	16.37	16.44	16.36	17.5	0.0
100	QPSK	135	138	16.22	16.26	16.34	17.5	0.0
100	QPSK	270	0	16.27	16.51	16.23		
100	16QAM	1	1	16.27	16.23	16.28	17.5	0.0
100	16QAM	1	1	16.21	16.32	16.24	17.5	0.0
100	256QAM	1	1	16.28	16.32	16.20	17.5	0.0
Channel								
Frequency (MHz)				648668	656000	662684	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	16.29	16.46	16.30	17.5	0.0
Channel								
Frequency (MHz)				649334	656000	662688	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	16.29	16.40	16.27	17.5	0.0
Channel								
Frequency (MHz)				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	16.29	16.52	16.29	17.5	0.0
Channel								
Frequency (MHz)				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	16.34	16.50	16.23	17.5	0.0
Channel								
Frequency (MHz)				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	16.35	16.42	16.19	17.5	0.0
Channel								
Frequency (MHz)				3720	3840	3960	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	16.30	16.45	16.20	17.5	0.0
Channel								
Frequency (MHz)				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	16.35	16.47	16.21	17.5	0.0
Channel								
Frequency (MHz)				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	16.25	16.49	16.27	17.5	0.0
Channel								
Frequency (MHz)				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	16.35	16.53	16.28	17.5	0.0
Channel								
Frequency (MHz)				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	16.30	16.46	16.25	17.5	0.0

### Part27Q n77 PC3 Ant5 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)				3500.01				
100	PI2 BPSK	1	1			13.59		
100	PI2 BPSK	1	137			13.55	14.5	0.0
100	PI2 BPSK	1	271			13.50		
100	PI2 BPSK	135	0			13.50	14.5	0.0
100	PI2 BPSK	135	69			13.59	14.5	0.0
100	PI2 BPSK	135	138			13.44	14.5	0.0
100	PI2 BPSK	270	0			13.60		
100	QPSK	1	1			13.71		
100	QPSK	1	137			13.57	14.5	0.0
100	QPSK	1	271			13.50		
100	QPSK	135	0			13.46	14.5	0.0
100	QPSK	135	69			13.62	14.5	0.0
100	QPSK	135	138			13.46	14.5	0.0
100	QPSK	270	0			13.54		
100	16QAM	1	1			13.50	14.5	0.0
100	16QAM	1	1			13.34	14.5	0.0
100	256QAM	1	1			13.41	14.5	0.0
Channel								
Frequency (MHz)				638000	633334	638888	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	13.56	13.61	13.58	14.5	0.0
Channel								
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	13.60	13.59	13.57	14.5	0.0
Channel								
Frequency (MHz)				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	13.57	13.59	13.63	14.5	0.0
Channel								
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	13.58	13.60	13.65	14.5	0.0
Channel								
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	13.56	13.57	13.53	14.5	0.0
Channel								
Frequency (MHz)				3475.02	3500.01	3525	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	13.64	13.68	13.61	14.5	0.0
Channel								
Frequency (MHz)				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	13.65	13.60	13.59	14.5	0.0
Channel								
Frequency (MHz)				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	13.58	13.59	13.64	14.5	0.0
Channel								
Frequency (MHz)				630300	633334	636334	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	13.66	13.62	13.68	14.5	0.0
Channel								
Frequency (MHz)				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	13.66	13.65	13.62	14.5	0.0



### Part27Q n77 PC2 Ant5 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	16.64				
100	PI2 BPSK	1	137	16.52			17.5	0.0
100	PI2 BPSK	1	271	16.52				
100	PI2 BPSK	135	0	16.47			17.5	0.0
100	PI2 BPSK	135	69	16.57			17.5	0.0
100	PI2 BPSK	135	138	16.41			17.5	0.0
100	PI2 BPSK	270	0	16.67				
100	QPSK	1	1	16.69				
100	QPSK	1	137	16.57			17.5	0.0
100	QPSK	1	271	16.49				
100	QPSK	135	0	16.42			17.5	0.0
100	QPSK	135	69	16.65			17.5	0.0
100	QPSK	135	138	16.42			17.5	0.0
100	QPSK	270	0	16.50				
100	16QAM	1	1	16.56			17.5	0.0
100	64QAM	1	1	16.30			17.5	0.0
100	256QAM	1	1	16.45			17.5	0.0
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	16.65	16.66	16.65	17.5	0.0
Channel								
Frequency (MHz)				632668	633334	634000		
Tune-up limit (dBm)				3495.02	3500.01	3505.02		
80	QPSK	1	1	16.62	16.61	16.65	17.5	0.0
Channel								
Frequency (MHz)				632334	633334	634334		
Tune-up limit (dBm)				3485.01	3500.01	3515.01		
70	QPSK	1	1	16.63	16.56	16.63	17.5	0.0
Channel								
Frequency (MHz)				632000	633334	634668		
Tune-up limit (dBm)				3480	3500.01	3520.02		
60	QPSK	1	1	16.65	16.57	16.55	17.5	0.0
Channel								
Frequency (MHz)				631668	633334	635000		
Tune-up limit (dBm)				3475.02	3500.01	3525		
50	QPSK	1	1	16.57	16.59	16.65	17.5	0.0
Channel								
Frequency (MHz)				631334	633334	635334		
Tune-up limit (dBm)				3470.01	3500.01	3530.01		
40	QPSK	1	1	16.59	16.62	16.54	17.5	0.0
Channel								
Frequency (MHz)				631000	633334	635668		
Tune-up limit (dBm)				3465	3500.01	3535.02		
30	QPSK	1	1	16.58	16.56	16.59	17.5	0.0
Channel								
Frequency (MHz)				630668	633334	636000		
Tune-up limit (dBm)				3460.02	3500.01	3540		
20	QPSK	1	1	16.65	16.61	16.55	17.5	0.0
Channel								
Frequency (MHz)				630300	633334	636368		
Tune-up limit (dBm)				3455.01	3500.01	3545.02		
15	QPSK	1	1	16.58	16.55	16.64	17.5	0.0
Channel								
Frequency (MHz)				630334	633334	636334		
Tune-up limit (dBm)				3455.01	3500.01	3545.01		
10	QPSK	1	1	16.68	16.58	16.61	17.5	0.0

### Part27O n78 Ant5 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750				
100	PI2 BPSK	1	1	13.46				
100	PI2 BPSK	1	137	13.42			14.5	0.0
100	PI2 BPSK	1	271	13.35				
100	PI2 BPSK	135	0	13.33			14.5	0.0
100	PI2 BPSK	135	69	13.37			14.5	0.0
100	PI2 BPSK	135	138	13.31			14.5	0.0
100	PI2 BPSK	270	0	13.41				
100	QPSK	1	1	13.52				
100	QPSK	1	137	13.47			14.5	0.0
100	QPSK	1	271	13.32				
100	QPSK	135	0	13.35			14.5	0.0
100	QPSK	135	69	13.49			14.5	0.0
100	QPSK	135	138	13.40			14.5	0.0
100	QPSK	270	0	13.44				
100	16QAM	1	1	13.33			14.5	0.0
100	64QAM	1	1	13.29			14.5	0.0
100	256QAM	1	1	13.25			14.5	0.0
Channel				640668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	13.42	13.49	13.37	14.5	0.0
Channel								
Frequency (MHz)				649334	650000	650668		
Tune-up limit (dBm)				3740.01	3750	3760.02		
80	QPSK	1	1	13.40	13.47	13.39	14.5	0.0
Channel								
Frequency (MHz)				649000	650000	651000		
Tune-up limit (dBm)				3735	3750	3765		
70	QPSK	1	1	13.46	13.45	13.43	14.5	0.0
Channel								
Frequency (MHz)				648668	650000	651334		
Tune-up limit (dBm)				3730.02	3750	3770.01		
60	QPSK	1	1	13.38	13.44	13.41	14.5	0.0
Channel								
Frequency (MHz)				648334	650000	651668		
Tune-up limit (dBm)				3725.01	3750	3775.02		
50	QPSK	1	1	13.43	13.40	13.42	14.5	0.0
Channel								
Frequency (MHz)				648000	650000	652000		
Tune-up limit (dBm)				3720	3750	3780		
40	QPSK	1	1	13.47	13.43	13.40	14.5	0.0
Channel								
Frequency (MHz)				647668	650000	652334		
Tune-up limit (dBm)				3715.02	3750	3785.01		
30	QPSK	1	1	13.39	13.38	13.47	14.5	0.0
Channel								
Frequency (MHz)				647334	650000	652668		
Tune-up limit (dBm)				3710.01	3750	3790.02		
20	QPSK	1	1	13.44	13.41	13.39	14.5	0.0
Channel								
Frequency (MHz)				647188	650000	652934		
Tune-up limit (dBm)				3707.52	3750	3792.51		
15	QPSK	1	1	13.39	13.48	13.48	14.5	0.0
Channel								
Frequency (MHz)				647000	650000	653000		
Tune-up limit (dBm)				3705	3750	3795		
10	QPSK	1	1	13.45	13.42	13.44	14.5	0.0

### Part27Q n78 Ant5 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	13.61				
100	PI2 BPSK	1	137	13.55			14.5	0.0
100	PI2 BPSK	1	271	13.42				
100	PI2 BPSK	135	0	13.43			14.5	0.0
100	PI2 BPSK	135	69	13.50			14.5	0.0
100	PI2 BPSK	135	138	13.44			14.5	0.0
100	PI2 BPSK	270	0	13.47				
100	QPSK	1	1	13.66				
100	QPSK	1	137	13.63			14.5	0.0
100	QPSK	1	271	13.48				
100	QPSK	135	0	13.41			14.5	0.0
100	QPSK	135	69	13.56			14.5	0.0
100	QPSK	135	138	13.53			14.5	0.0
100	QPSK	270	0	13.58				
100	16QAM	1	1	13.47			14.5	0.0
100	64QAM	1	1	13.35			14.5	0.0
100	256QAM	1	1	13.41			14.5	0.0
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	13.59	13.62	13.61	14.5	0.0
Channel								
Frequency (MHz)				632668	633334	634000		
Tune-up limit (dBm)				3490.02	3500.01	3510		
80	QPSK	1	1	13.55	13.65	13.57	14.5	0.0
Channel								
Frequency (MHz)				632334	633334	634334		
Tune-up limit (dBm)				3485.01	3500.01	3515.01		
70	QPSK	1	1	13.63	13.61	13.60	14.5	0.0
Channel								
Frequency (MHz)				632000	633334	634668		
Tune-up limit (dBm)				3480	3500.01	3520.02		
60	QPSK	1	1	13.54	13.57	13.56	14.5	0.0
Channel								
Frequency (MHz)				631668	633334	635000		
Tune-up limit (dBm)				3475.02	3500.01	3525		
50	QPSK	1	1	13.63	13.64	13.64	14.5	0.0
Channel								
Frequency (MHz)				631334	633334	635334		
Tune-up limit (dBm)				3470.01	3500.01	3530.01		
40	QPSK	1	1	13.58	13.55	13.60	14.5	0.0
Channel								
Frequency (MHz)				631000	633334	635668		
Tune-up limit (dBm)				3465	3500.01	3535.02		
30	QPSK	1	1	13.59	13.60	13.61	14.5	0.0
Channel								
Frequency (MHz)				630668	633334	636000		
Tune-up limit (dBm)				3460.02	3500.01	3540		
20	QPSK	1	1	13.61	13.58	13.64	14.5	0.0
Channel								
Frequency (MHz)				630300	633334	636368		
Tune-up limit (dBm)				3455.01	3500.01	3545.02		
15	QPSK	1	1	13.55	13.60	13.54	14.5	0.0
Channel								
Frequency (MHz)				630334	633334	636334		
Tune-up limit (dBm)				3455.01	3500.01	3545.01		
10	QPSK	1	1	13.63	13.65	13.63	14.5	0.0



### n41 PC3 Ant7 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)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	22.53	22.58	22.47	24.0	0.0
100	PI2 BPSK	1	137	22.44	22.49	22.41	24.0	0.0
100	PI2 BPSK	1	271	22.27	22.40	22.27	24.0	0.0
100	PI2 BPSK	135	0	21.82	21.96	21.80	23.5	0.5
100	PI2 BPSK	135	69	22.33	22.45	22.34	24.0	0.0
100	PI2 BPSK	135	138	21.86	21.97	21.90	23.5	0.5
100	PI2 BPSK	270	0	21.98	22.02	21.93	24.0	0.0
100	QPSK	1	1	22.50	22.61	22.52	24.0	0.0
100	QPSK	1	137	22.38	22.53	22.49	24.0	0.0
100	QPSK	1	271	22.38	22.46	22.37	24.0	0.0
100	QPSK	135	0	21.38	21.44	21.34	23.0	1.0
100	QPSK	135	69	22.45	22.56	22.48	24.0	0.0
100	QPSK	135	138	21.34	21.41	21.34	23.0	1.0
100	QPSK	270	0	21.40	21.46	21.37	23.0	1.0
100	16QAM	1	1	21.40	21.54	21.42	23.0	1.0
100	16QAM	1	1	19.82	19.93	19.80	21.5	2.5
100	256QAM	1	1	18.04	18.18	18.12	19.5	4.5
Channel								
Frequency (MHz)				30300	31898	33398		
90	QPSK	1	1	22.41	22.49	22.42	24.0	0.0
Channel								
Frequency (MHz)				507204	518598	529998		
80	QPSK	1	1	22.45	22.57	22.42	24.0	0.0
Channel								
Frequency (MHz)				509202	518598	531000		
70	QPSK	1	1	22.44	22.50	22.41	24.0	0.0
Channel								
Frequency (MHz)				503200	518598	531998		
60	QPSK	1	1	22.44	22.53	22.39	24.0	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	22.47	22.51	22.40	24.0	0.0
Channel								
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.40	22.48	22.41	24.0	0.0
Channel								
Frequency (MHz)				502200	518598	534998		
30	QPSK	1	1	22.43	22.55	22.34	24.0	0.0
Channel								
Frequency (MHz)				501204	518598	535998		
20	QPSK	1	1	22.46	22.50	22.38	24.0	0.0

### n41 PC2 Ant7 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)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	25.53	25.58	25.46	27.0	0.0
100	PI2 BPSK	1	137	25.40	25.54	25.42	27.0	0.0
100	PI2 BPSK	1	271	25.36	25.48	25.45	27.0	0.0
100	PI2 BPSK	135	0	24.71	24.85	24.75	26.5	0.5
100	PI2 BPSK	135	69	25.36	25.47	25.41	27.0	0.0
100	PI2 BPSK	135	138	24.74	24.83	24.72	26.5	0.5
100	PI2 BPSK	270	0	24.77	24.90	24.80	27.0	0.0
100	QPSK	1	1	25.53	25.65	25.60	27.0	0.0
100	QPSK	1	137	25.55	25.61	25.50	27.0	0.0
100	QPSK	1	271	25.48	25.56	25.44	27.0	0.0
100	QPSK	135	0	24.44	24.49	24.39	26.0	1.0
100	QPSK	135	69	25.45	25.59	25.48	27.0	0.0
100	QPSK	135	138	24.38	24.41	24.37	26.0	1.0
100	QPSK	270	0	24.35	24.45	24.34	26.0	1.0
100	16QAM	1	1	24.48	24.52	24.39	26.0	1.0
100	16QAM	1	1	22.56	22.56	22.65	24.5	2.5
100	256QAM	1	1	20.54	20.56	20.54	22.5	4.5
Channel								
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	25.45	25.56	25.51	27.0	0.0
Channel								
Frequency (MHz)				507204	518598	529998		
80	QPSK	1	1	25.49	25.55	25.48	27.0	0.0
Channel								
Frequency (MHz)				509202	518598	531000		
70	QPSK	1	1	25.46	25.52	25.48	27.0	0.0
Channel								
Frequency (MHz)				503200	518598	531998		
60	QPSK	1	1	25.44	25.56	25.49	27.0	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	25.41	25.51	25.52	27.0	0.0
Channel								
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	25.41	25.50	25.55	27.0	0.0
Channel								
Frequency (MHz)				502200	518598	534998		
30	QPSK	1	1	25.50	25.61	25.52	27.0	0.0
Channel								
Frequency (MHz)				501204	518598	535998		
20	QPSK	1	1	25.48	25.58	25.49	27.0	0.0

### Part270 n77 PC3 Ant7 DS12

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	22.78	22.84	22.80	24.0	0.0
100	PI2 BPSK	1	137	22.75	22.80	22.70	24.0	0.0
100	PI2 BPSK	1	271	22.75	22.77	22.80	24.0	0.0
100	PI2 BPSK	135	0	21.93	22.14	22.14	23.5	0.5
100	PI2 BPSK	135	69	22.51	22.54	22.48	24.0	0.0
100	PI2 BPSK	135	138	22.13	22.21	22.00	23.5	0.5
100	PI2 BPSK	270	0	22.07	22.23	22.09	24.0	0.0
100	QPSK	1	1	22.77	22.86	22.75	24.0	0.0
100	QPSK	1	137	22.68	22.69	22.63	24.0	0.0
100	QPSK	1	271	22.49	22.73	22.75	24.0	0.0
100	QPSK	135	0	21.87	21.86	21.77	23.0	1.0
100	QPSK	135	69	22.69	22.77	22.63	24.0	0.0
100	QPSK	135	138	21.50	21.46	21.39	23.0	1.0
100	QPSK	270	0	21.57	21.65	21.48	23.0	1.0
100	16QAM	1	1	21.84	21.84	21.89	23.0	1.0
100	16QAM	1	1	20.22	20.16	20.16	21.5	2.5
100	256QAM	1	1	17.78	17.77	17.72	19.5	4.5
Channel								
Frequency (MHz)				649668	650000	650334		
90	QPSK	1	1	22.68	22.72	22.71	24.0	0.0
Channel								
Frequency (MHz)				649334	650000	649668		
80	QPSK	1	1	22.73	22.80	22.71	24.0	0.0
Channel								
Frequency (MHz)				649000	650000	649334		
70	QPSK	1	1	22.68	22.75	22.67	24.0	0.0
Channel								
Frequency (MHz)				648668	650000	648334		
60	QPSK	1	1	22.68	22.72	22.67	24.0	0.0
Channel								
Frequency (MHz)				648334	650000	648668		
50	QPSK	1	1	22.63	22.79	22.68	24.0	0.0
Channel								
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	22.65	22.81	22.63	24.0	0.0
Channel								
Frequency (MHz)				647668	650000	648334		
30	QPSK	1	1	22.72	22.76	22.69	24.0	0.0
Channel								
Frequency (MHz)				647334	650000	646668		
20	QPSK	1	1	22.73	22.73	22.67	24.0	0.0
Channel								
Frequency (MHz)				647168	650000	646334		
15	QPSK	1	1	22.67	22.75	22.68	24.0	0.0
Channel								
Frequency (MHz)				647000	650000	646000		
10	QPSK	1	1	22.70	22.78	22.68	24.0	0.0



### Part270 n77 PC2 Ant7 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	25.73	25.88	25.85		
100	PI2 BPSK	1	137	25.71	25.76	25.75	27.0	0.0
100	PI2 BPSK	1	271	25.52	25.74	25.63		
100	PI2 BPSK	135	0	25.02	25.10	25.16	26.5	0.5
100	PI2 BPSK	135	69	25.50	25.62	25.58	27.0	0.0
100	PI2 BPSK	135	138	24.88	24.98	24.96	26.5	0.5
100	PI2 BPSK	270	0	24.96	25.24	25.15		
100	QPSK	1	1	25.76	25.91	25.81		
100	QPSK	1	137	25.55	25.83	25.64	27.0	0.0
100	QPSK	1	271	25.66	25.82	25.52		
100	QPSK	135	0	24.61	24.71	24.65	26.0	1.0
100	QPSK	135	69	25.76	25.82	25.75	27.0	0.0
100	QPSK	135	138	24.48	24.52	24.37	26.0	1.0
100	QPSK	270	0	24.82	24.72	24.55		
100	16QAM	1	1	24.66	24.84	24.75	26.0	1.0
100	16QAM	1	1	23.10	23.23	23.27	24.5	2.5
100	256QAM	1	1	20.80	21.11	20.89	22.5	4.5
Channel								
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	25.61	25.80	25.68	27.0	0.0
Channel								
Frequency (MHz)				649334	656000	662668		
80	QPSK	1	1	3740.01	3840	3940.02		
Channel								
Frequency (MHz)				649000	656000	663000		
70	QPSK	1	1	25.61	25.79	25.76	27.0	0.0
Channel								
Frequency (MHz)				648668	656000	663334		
60	QPSK	1	1	25.72	25.83	25.71	27.0	0.0
Channel								
Frequency (MHz)				648334	656000	663668		
50	QPSK	1	1	3725.01	3840	3955.02		
Channel								
Frequency (MHz)				647668	656000	664334		
40	QPSK	1	1	25.68	25.83	25.73	27.0	0.0
Channel								
Frequency (MHz)				647334	656000	664668		
30	QPSK	1	1	25.69	25.86	25.79	27.0	0.0
Channel								
Frequency (MHz)				647000	656000	665000		
20	QPSK	1	1	25.68	25.84	25.73	27.0	0.0
Channel								
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	25.71	25.80	25.77	27.0	0.0

### Part27Q N77 PC3 Ant7 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1		23.33			
100	PI2 BPSK	1	137		23.19		24.0	0.0
100	PI2 BPSK	1	271		23.34			
100	PI2 BPSK	135	0		22.84		23.5	0.5
100	PI2 BPSK	135	69		23.31		24.0	0.0
100	PI2 BPSK	135	138		22.81		23.5	0.5
100	PI2 BPSK	270	0		22.90			
100	QPSK	1	1		23.39			
100	QPSK	1	137		23.27		24.0	0.0
100	QPSK	1	271		23.31			
100	QPSK	135	0		22.38		23.0	1.0
100	QPSK	135	69		23.33		24.0	0.0
100	QPSK	135	138		22.27		23.0	1.0
100	QPSK	270	0		22.31			
100	16QAM	1	1		22.24		23.0	1.0
100	16QAM	1	1		20.85		21.5	2.5
100	256QAM	1	1		18.74		19.5	4.5
Channel								
Frequency (MHz)				633000	633334	633668		
90	QPSK	1	1	23.27	23.36	23.29	24.0	0.0
Channel								
Frequency (MHz)				632668	633334	634000		
80	QPSK	1	1	3490.02	3500.01	3510		
Channel								
Frequency (MHz)				632334	633334	634334		
70	QPSK	1	1	23.27	23.34	23.30	24.0	0.0
Channel								
Frequency (MHz)				632000	633334	634668		
60	QPSK	1	1	23.30	23.32	23.25	24.0	0.0
Channel								
Frequency (MHz)				631668	633334	635000		
50	QPSK	1	1	3475.02	3500.01	3525		
Channel								
Frequency (MHz)				631334	633334	635334		
40	QPSK	1	1	23.33	23.28	23.30	24.0	0.0
Channel								
Frequency (MHz)				631000	633334	635668		
30	QPSK	1	1	23.36	23.33	23.29	24.0	0.0
Channel								
Frequency (MHz)				630668	633334	636000		
20	QPSK	1	1	23.29	23.24	23.32	24.0	0.0
Channel								
Frequency (MHz)				630300	633334	636368		
15	QPSK	1	1	23.30	23.27	23.31	24.0	0.0
Channel								
Frequency (MHz)				630334	633334	636334		
10	QPSK	1	1	23.27	23.35	23.27	24.0	0.0

### Part27Q n77 PC2 Ant7 DSI2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1		26.41			
100	PI2 BPSK	1	137		26.31		27.0	0.0
100	PI2 BPSK	1	271		26.32			
100	PI2 BPSK	135	0		25.91		26.5	0.5
100	PI2 BPSK	135	69		26.34		27.0	0.0
100	PI2 BPSK	135	138		25.84		26.5	0.5
100	PI2 BPSK	270	0		26.90			
100	QPSK	1	1		26.46			
100	QPSK	1	137		26.41		27.0	0.0
100	QPSK	1	271		26.31			
100	QPSK	135	0		25.50		26.0	1.0
100	QPSK	135	69		26.38		27.0	0.0
100	QPSK	135	138		25.49		26.0	1.0
100	QPSK	270	0		25.48			
100	16QAM	1	1		25.21		26.0	1.0
100	16QAM	1	1		23.94		24.5	2.5
100	256QAM	1	1		21.80		22.5	4.5
Channel								
Frequency (MHz)				633000	633334	633668		
90	QPSK	1	1	26.39	26.42	26.34	27.0	0.0
Channel								
Frequency (MHz)				632668	633334	634000		
80	QPSK	1	1	3490.02	3500.01	3510		
Channel								
Frequency (MHz)				632334	633334	634334		
70	QPSK	1	1	26.38	26.38	26.35	27.0	0.0
Channel								
Frequency (MHz)				632000	633334	634668		
60	QPSK	1	1	26.39	26.33	26.42	27.0	0.0
Channel								
Frequency (MHz)				631668	633334	635000		
50	QPSK	1	1	3475.02	3500.01	3525		
Channel								
Frequency (MHz)				631334	633334	635334		
40	QPSK	1	1	26.35	26.38	26.40	27.0	0.0
Channel								
Frequency (MHz)				631000	633334	635668		
30	QPSK	1	1	26.39	26.34	26.36	27.0	0.0
Channel								
Frequency (MHz)				630668	633334	636000		
20	QPSK	1	1	26.40	26.44	26.45	27.0	0.0
Channel								
Frequency (MHz)				630300	633334	636368		
15	QPSK	1	1	26.43	26.42	26.34	27.0	0.0
Channel								
Frequency (MHz)				630334	633334	636334		
10	QPSK	1	1	26.44	26.37	26.35	27.0	0.0



Part27O n78 Ant 7 DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.83	3750	3750			
100	PI2 BPSK	1	137	22.83	22.70		24.0	0.0	
100	PI2 BPSK	1	271	22.83	22.71		24.0	0.0	
100	PI2 BPSK	135	0	22.11			23.5	0.5	
100	PI2 BPSK	135	69	22.52			24.0	0.0	
100	PI2 BPSK	135	138	21.93			23.5	0.5	
100	PI2 BPSK	270	0	22.05			24.0	0.0	
100	QPSK	1	1	22.38			24.0	0.0	
100	QPSK	1	137	22.56			24.0	0.0	
100	QPSK	1	271	22.86			24.0	0.0	
100	QPSK	135	0	21.85			23.0	1.0	
100	QPSK	135	69	22.81			24.0	0.0	
100	QPSK	135	138	21.44			23.0	1.0	
100	QPSK	270	0	21.55			23.0	1.0	
100	16QAM	1	1	21.83			23.0	1.0	
100	64QAM	1	1	20.06			21.5	2.5	
100	256QAM	1	1	17.63			19.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	64868	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3745.02	3750	3755.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.77	22.80	22.78	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	64934	65000	65068	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3740.01	3750	3760.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	64900	65000	65100	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3735	3750	3765	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.82	22.83	22.76	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	64868	65000	65134	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3730.02	3750	3750.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.76	22.75	22.82	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	64716	65000	65234	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3707.53	3750	3729.51	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.84	22.80	22.78	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	64700	65000	65300	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3705	3750	3795	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.80	22.77	22.73	24.0	0.0	

Part27Q n78 Ant7 DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 633000	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq. 633334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3500.01					
100	PI2 BPSK	1	137	22.94			24.0	0.0	
100	PI2 BPSK	1	271	22.93			24.0	0.0	
100	PI2 BPSK	135	0	22.58			23.5	0.5	
100	PI2 BPSK	135	69	23.08			24.0	0.0	
100	PI2 BPSK	135	138	22.46			23.5	0.5	
100	PI2 BPSK	270	0	22.49			24.0	0.0	
100	QPSK	1	1	23.11			24.0	0.0	
100	QPSK	1	137	23.05			24.0	0.0	
100	QPSK	1	271	22.94			24.0	0.0	
100	QPSK	135	0	22.00			23.0	1.0	
100	QPSK	135	69	22.99			24.0	0.0	
100	QPSK	135	138	21.98			23.0	1.0	
100	QPSK	270	0	22.07			23.0	1.0	
100	16QAM	1	1	22.08			23.0	1.0	
100	64QAM	1	1	20.58			21.5	2.5	
100	256QAM	1	1	18.42			19.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3485	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.01	23.07	23.08	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	63268	63334	63400	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3490.02	3500.01	3510	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	63234	63334	63434	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	3486.01	3500.01	3515.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.05	22.99	23.08	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	63200	63334	63468	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3480	3500.01	3520.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.98	22.97	23.00	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	63168	63334	63500	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3475.02	3500.01	3525	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.98	23.08	23.03	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	63134	63334	63534	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3470.01	3500.01	3530.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.07	23.00	23.07	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	63100	63334	63568	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3425	3500.01	3532.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.03	23.07	22.99	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	63068	63334	63600	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3460.02	3500.01	3540	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.04	23.04	23.04	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	63000	63334	63618	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3457.5	3500.01	3542.52	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.05	23.01	23.02	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	63034	63334	63634	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3455.01	3500.01	3545.01	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.98	23.02	23.08	24.0	0.0	



### n2 Ant0 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)				1860	1880	1900		
20	PI2 BPSK	1	1	14.33	14.43	14.30		
20	PI2 BPSK	1	53	14.26	14.39	14.32	15.7	0.0
20	PI2 BPSK	1	104	14.22	14.34	14.22		
20	PI2 BPSK	50	0	14.21	14.31	14.17	15.7	0.0
20	PI2 BPSK	50	28	14.36	14.40	14.26	15.7	0.0
20	PI2 BPSK	50	56	14.28	14.38	14.25		
20	PI2 BPSK	100	0	14.29	14.42	14.34	15.7	0.0
20	QPSK	1	1	14.35	14.44	14.40		
20	QPSK	1	53	14.30	14.42	14.35	15.7	0.0
20	QPSK	1	104	14.32	14.38	14.23		
20	QPSK	50	0	14.30	14.40	14.32	15.7	0.0
20	QPSK	50	28	14.29	14.44	14.38	15.7	0.0
20	QPSK	50	56	14.27	14.34	14.21		
20	QPSK	100	0	14.27	14.41	14.38	15.7	0.0
20	16QAM	1	1	14.22	14.31	14.16	15.7	0.0
20	64QAM	1	1	14.17	14.23	14.18	15.7	0.0
20	256QAM	1	1	14.13	14.16	14.07	15.7	0.0
Channel								
Frequency (MHz)				37000	37600	38000	Tune-up limit (dB)	MPR (dB)
15	QPSK	1	1	14.18	14.37	14.42	15.7	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dB)	MPR (dB)
10	QPSK	1	1	14.21	14.44	14.25	15.7	0.0
Channel								
Frequency (MHz)				376000	376000	381500	Tune-up limit (dB)	MPR (dB)
5	QPSK	1	1	14.22	14.42	14.38	15.7	0.0

### Reduced Power Mode for DSI3

### n5 Ant0 Default

BW [MHz]	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)				16800	16700	16700		
20	PI2 BPSK	1	1	23.10	23.19	23.09		
20	PI2 BPSK	1	53	22.99	23.06	23.07	24.0	0.0
20	PI2 BPSK	1	104	22.85	22.90	22.75		
20	PI2 BPSK	50	0	22.50	22.83	22.59	23.5	0.5
20	PI2 BPSK	50	28	23.09	23.09	23.11	24.0	0.0
20	PI2 BPSK	50	56	22.51	22.64	22.48		
20	PI2 BPSK	100	0	22.67	22.89	22.53	23.5	0.5
20	QPSK	1	1	23.11	23.23	23.17		
20	QPSK	1	53	22.97	23.14	23.02	24.0	0.0
20	QPSK	1	104	22.92	23.00	22.83		
20	QPSK	50	0	22.04	22.07	21.98	23.0	1.0
20	QPSK	50	28	23.04	23.20	23.16	24.0	0.0
20	QPSK	50	56	22.03	22.05	22.00		
20	QPSK	100	0	22.11	22.24	22.13	23.0	1.0
20	16QAM	1	1	21.87	22.02	21.92	23.0	1.0
20	64QAM	1	1	20.57	20.61	20.44	21.5	2.5
20	256QAM	1	1	18.40	18.51	18.38	19.5	4.5
Channel								
Frequency (MHz)				168000	167000	168000	Tune-up limit (dB)	MPR (dB)
15	QPSK	1	1	22.98	23.14	23.06	24.0	0.0
Channel								
Frequency (MHz)				168000	167000	168000	Tune-up limit (dB)	MPR (dB)
10	QPSK	1	1	23.00	23.11	23.07	24.0	0.0
Channel								
Frequency (MHz)				165300	167000	169000	Tune-up limit (dB)	MPR (dB)
5	QPSK	1	1	23.07	23.17	23.06	24.0	0.0

### n7 Ant0 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)				2500	2535	2550		
40	PI2 BPSK	1	1	18.30	18.35	18.22		
40	PI2 BPSK	1	108	18.12	18.25	18.19	19.6	0.0
40	PI2 BPSK	1	214	18.18	18.23	18.15		
40	PI2 BPSK	108	0	18.05	18.17	18.14	19.6	0.0
40	PI2 BPSK	108	54	18.18	18.25	18.20	19.6	0.0
40	PI2 BPSK	108	108	18.13	18.20	18.15		
40	PI2 BPSK	216	0	18.22	18.25	18.18	19.6	0.0
40	QPSK	1	1	18.33	18.39	18.28		
40	QPSK	1	108	18.19	18.31	18.28	19.6	0.0
40	QPSK	1	214	18.17	18.28	18.20		
40	QPSK	108	0	18.13	18.22	18.17	19.6	0.0
40	QPSK	108	54	18.28	18.32	18.18	19.6	0.0
40	QPSK	108	108	18.12	18.26	18.20		
40	QPSK	216	0	18.21	18.30	18.16	19.6	0.0
40	16QAM	1	1	18.15	18.19	18.13	19.6	0.0
40	64QAM	1	1	18.17	18.24	18.21	19.6	0.0
40	256QAM	1	1	17.88	18.11	18.08	19.5	0.1
Channel								
Frequency (MHz)				503000	507000	511000	Tune-up limit (dB)	MPR (dB)
30	QPSK	1	1	18.24	18.31	18.15	19.6	0.0
Channel								
Frequency (MHz)				502600	507000	511500	Tune-up limit (dB)	MPR (dB)
25	QPSK	1	1	18.22	18.26	18.17	19.6	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dB)	MPR (dB)
20	PI2 BPSK	1	1	18.29	18.33	18.12	19.6	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dB)	MPR (dB)
15	QPSK	1	1	18.23	18.35	18.17	19.6	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dB)	MPR (dB)
10	QPSK	1	1	18.27	18.28	18.16	19.6	0.0
Channel								
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dB)	MPR (dB)
5	QPSK	1	1	18.29	18.24	18.17	19.6	0.0



### n14 Ant0 Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				158900				
Frequency (MHz)				793				
10	PI2 BPSK	1	1	23.01			24.0	0.0
10	PI2 BPSK	1	26	22.96				
10	PI2 BPSK	1	50	22.89			23.5	0.5
10	PI2 BPSK	25	0	22.49				
10	PI2 BPSK	25	14	22.95			24.0	0.0
10	PI2 BPSK	25	27	22.47			23.5	0.5
10	PI2 BPSK	50	0	22.53				
10	QPSK	1	1	23.05			24.0	0.0
10	QPSK	1	26	23.00				
10	QPSK	1	50	22.95			23.0	1.0
10	QPSK	25	0	21.97			24.0	0.0
10	QPSK	25	14	22.98			23.0	1.0
10	QPSK	25	27	21.97			23.0	1.0
10	QPSK	50	0	22.04				
10	16QAM	1	1	22.29			23.0	1.0
10	64QAM	1	1	20.72			21.5	2.5
10	256QAM	1	1	18.30			19.5	4.5
Channel				158100	158300	159100		
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	1	22.98	22.99	22.91	24.0	0.0

### n66 Ant0 DS13

BW (MHz)	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				
Frequency (MHz)				1730				
40	PI2 BPSK	1	1	13.91	13.98	13.87		
40	PI2 BPSK	1	108	13.88	13.95	13.81	15.5	0.0
40	PI2 BPSK	1	214	13.74	13.83	13.74		
40	PI2 BPSK	108	0	13.82	13.86	13.78	15.5	0.0
40	PI2 BPSK	108	54	13.87	13.93	13.82	15.5	0.0
40	PI2 BPSK	108	108	13.70	13.80	13.71	15.5	0.0
40	PI2 BPSK	216	0	13.82	13.91	13.77		
40	QPSK	1	1	13.92	14.02	13.98		
40	QPSK	1	108	13.86	13.97	13.82	15.5	0.0
40	QPSK	1	214	13.83	13.88	13.86		
40	QPSK	108	0	13.89	13.80	13.73	15.5	0.0
40	QPSK	108	54	13.91	14.00	13.96	15.5	0.0
40	QPSK	108	108	13.73	13.83	13.81	15.5	0.0
40	QPSK	216	0	13.74	13.86	13.74		
40	16QAM	1	1	13.77	13.85	13.81	15.5	0.0
40	64QAM	1	1	13.69	13.77	13.67	15.5	0.0
40	256QAM	1	1	13.70	13.81	13.73	15.5	0.0
Channel				342500	343000	343500		
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	13.87	13.97	13.94	15.5	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	13.83	13.96	13.86	15.5	0.0
Channel				342500	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	13.83	13.92	13.94	15.5	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	13.88	13.93	13.85	15.5	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	13.84	13.95	13.86	15.5	0.0

### n71 Ant0 Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				134600				
Frequency (MHz)				673				
20	PI2 BPSK	1	1	23.03	23.06	23.00		
20	PI2 BPSK	1	53	22.82	23.02	22.91	24.0	0.0
20	PI2 BPSK	1	104	22.94	22.97	22.83		
20	PI2 BPSK	50	0	22.44	22.48	22.36	23.5	0.5
20	PI2 BPSK	50	28	22.91	23.01	22.88	24.0	0.0
20	PI2 BPSK	50	56	22.30	22.41	22.29	23.5	0.5
20	PI2 BPSK	100	0	22.35	22.49	22.42		
20	QPSK	1	1	23.05	23.11	23.07		
20	QPSK	1	53	23.02	23.07	23.03	24.0	0.0
20	QPSK	1	104	22.91	22.95	22.88		
20	QPSK	50	0	21.98	22.04	21.92	23.0	1.0
20	QPSK	50	28	22.99	23.05	22.93	24.0	0.0
20	QPSK	50	56	21.92	21.96	21.88	23.0	1.0
20	QPSK	100	0	21.98	22.02	21.89		
20	16QAM	1	1	22.25	22.39	22.28	23.0	1.0
20	64QAM	1	1	20.27	20.39	20.31	21.5	2.5
20	256QAM	1	1	18.63	18.74	18.69	19.5	4.5
Channel				134100	134700	135300		
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	23.01	23.05	22.93	24.0	0.0
Channel				133600	136100	138600		
Frequency (MHz)				663	680.5	693		
10	QPSK	1	1	22.91	23.07	22.94	24.0	0.0
Channel				133100	136100	139100		
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	22.91	22.98	22.95	24.0	0.0





n41 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	18.87	18.93	18.91			
100	PI2 BPSK	1	137	18.86	18.93	18.94	19.9	0.0	
100	PI2 BPSK	1	271	18.87	18.97	18.99			
100	PI2 BPSK	135	0	18.73	18.82	18.76	19.9	0.0	
100	PI2 BPSK	135	69	18.79	19.03	18.73	19.9	0.0	
100	PI2 BPSK	135	138	18.53	18.91	18.79	19.9	0.0	
100	PI2 BPSK	270	0	18.99	18.85	18.69			
100	QPSK	1	1	18.90	19.19	18.87			
100	QPSK	1	137	18.74	18.73	18.85	19.9	0.0	
100	QPSK	1	271	18.79	18.87	18.86			
100	QPSK	135	0	18.63	18.64	18.75	19.9	0.0	
100	QPSK	135	69	18.82	18.18	18.76	19.9	0.0	
100	QPSK	135	138	18.64	18.79	18.68	19.9	0.0	
100	QPSK	270	0	18.74	18.98	18.74			
100	16QAM	1	1	18.71	18.74	18.66	19.9	0.0	
100	16QAM	1	1	18.93	18.68	18.69	19.9	0.0	
100	256QAM	1	1	18.21	18.16	18.19	19.5	0.4	
Channel				50200	51898	52900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	18.86	19.14	18.84	19.9	0.0	
Channel				507204	51898	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	18.79	19.09	18.76	19.9	0.0	
Channel				509202	51898	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2685			
70	QPSK	1	1	18.80	19.14	18.73	19.9	0.0	
Channel				505200	51898	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2529	2592.99	2639.98			
60	QPSK	1	1	18.80	19.13	18.77	19.9	0.0	
Channel				504204	51898	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	18.80	19.08	18.77	19.9	0.0	
Channel				503202	51898	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2518.01	2592.99	2670			
40	QPSK	1	1	18.85	19.15	18.73	19.9	0.0	
Channel				502200	51898	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	18.81	19.15	18.83	19.9	0.0	
Channel				501204	51898	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	18.76	19.16	18.84	19.9	0.0	

n41 PC2 Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	21.81	22.02	21.76			
100	PI2 BPSK	1	137	21.78	21.85	21.83	22.9	0.0	
100	PI2 BPSK	1	271	21.77	21.90	21.81			
100	PI2 BPSK	135	0	21.75	21.87	21.83	22.9	0.0	
100	PI2 BPSK	135	69	21.81	21.93	21.81	22.9	0.0	
100	PI2 BPSK	135	138	21.85	21.86	21.85	22.9	0.0	
100	PI2 BPSK	270	0	21.93	22.10	21.81			
100	QPSK	1	1	21.85	22.17	21.90			
100	QPSK	1	137	21.92	21.97	21.73	22.9	0.0	
100	QPSK	1	271	21.73	21.81	21.76			
100	QPSK	135	0	21.95	21.99	21.86	22.9	0.0	
100	QPSK	135	69	21.82	22.11	21.80	22.9	0.0	
100	QPSK	135	138	21.86	21.97	21.73	22.9	0.0	
100	QPSK	270	0	21.82	22.08	21.85			
100	16QAM	1	1	21.70	21.70	21.50	22.9	0.0	
100	16QAM	1	1	21.74	21.70	21.74	22.9	0.0	
100	256QAM	1	1	19.60	19.64	19.51	21.5	1.4	
Channel				50200	51898	52900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.75	22.14	21.77	22.9	0.0	
Channel				507204	51898	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	21.77	22.12	21.86	22.9	0.0	
Channel				509202	51898	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2685			
70	QPSK	1	1	21.78	22.10	21.85	22.9	0.0	
Channel				505200	51898	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2529	2592.99	2639.98			
60	QPSK	1	1	21.74	22.13	21.84	22.9	0.0	
Channel				504204	51898	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	21.73	22.15	21.88	22.9	0.0	
Channel				503202	51898	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2518.01	2592.99	2670			
40	QPSK	1	1	21.75	22.15	21.80	22.9	0.0	
Channel				502200	51898	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	21.73	22.13	21.78	22.9	0.0	
Channel				501204	51898	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	21.71	22.15	21.77	22.9	0.0	



### n2 Ant1 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)				1860	1860	1900		
20	PI2 BPSK	1	1	16.83	16.89	16.78		
20	PI2 BPSK	1	53	16.76	16.80	16.80	17.8	0.0
20	PI2 BPSK	1	104	16.84	16.78	16.74		
20	PI2 BPSK	50	0	16.74	16.79	16.74	17.8	0.0
20	PI2 BPSK	50	28	16.78	16.83	16.80	17.8	0.0
20	PI2 BPSK	50	58	16.58	16.68	16.65	17.8	0.0
20	PI2 BPSK	100	0	16.79	16.86	16.77		
20	QPSK	1	1	16.90	16.93	16.89		
20	QPSK	1	53	16.81	16.86	16.77	17.8	0.0
20	QPSK	1	104	16.70	16.79	16.68		
20	QPSK	50	0	16.57	16.65	16.58	17.8	0.0
20	QPSK	50	28	16.73	16.80	16.81	17.8	0.0
20	QPSK	50	58	16.70	16.78	16.68	17.8	0.0
20	QPSK	100	0	16.71	16.80	16.73	17.8	0.0
20	16QAM	1	1	16.59	16.73	16.60	17.8	0.0
20	16QAM	1	1	16.55	16.65	16.58	17.8	0.0
20	256QAM	1	1	16.50	16.68	16.60	17.8	0.0
Channel								
Frequency (MHz)				37000	37000	38000	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	16.73	16.80	16.75	17.8	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	16.79	16.84	16.72	17.8	0.0
Channel								
Frequency (MHz)				375500	376000	381500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	16.82	16.80	16.75	17.8	0.0

### n5 Ant1 Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	23.11	23.20	23.04		
20	PI2 BPSK	1	53	23.04	23.19	23.03	24.0	0.0
20	PI2 BPSK	1	104	22.97	23.09	22.97		
20	PI2 BPSK	50	0	22.86	22.76	22.85	23.5	0.5
20	PI2 BPSK	50	28	23.06	23.13	23.07	24.0	0.0
20	PI2 BPSK	50	58	22.61	22.67	22.59	23.5	0.5
20	PI2 BPSK	100	0	22.67	22.70	22.67		
20	QPSK	1	1	23.13	23.22	23.16		
20	QPSK	1	53	23.11	23.12	23.13	24.0	0.0
20	QPSK	1	104	23.01	23.11	23.01		
20	QPSK	50	0	22.16	22.19	22.00	23.0	1.0
20	QPSK	50	28	23.12	23.19	23.15	24.0	0.0
20	QPSK	50	58	22.08	22.18	22.01	23.0	1.0
20	QPSK	100	0	22.18	22.21	22.12		
20	16QAM	1	1	22.05	22.13	22.07	23.0	1.0
20	16QAM	1	1	20.75	20.74	20.73	21.5	2.5
20	256QAM	1	1	18.41	18.48	18.44	19.5	4.5
Channel								
Frequency (MHz)				16530	16700	16850	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	23.04	23.17	23.06	24.0	0.0
Channel								
Frequency (MHz)				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	23.10	23.07	23.01	24.0	0.0
Channel								
Frequency (MHz)				165300	167000	169300	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	23.03	23.14	23.04	24.0	0.0

### n7 Ant1 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)				2520	2535	2550		
40	PI2 BPSK	1	1	15.31	15.37	15.28		
40	PI2 BPSK	1	108	15.25	15.33	15.21	16.3	0.0
40	PI2 BPSK	1	214	15.20	15.35	15.30		
40	PI2 BPSK	108	0	15.22	15.30	15.24	16.3	0.0
40	PI2 BPSK	108	54	15.24	15.29	15.26	16.3	0.0
40	PI2 BPSK	108	108	15.08	15.18	15.15	16.3	0.0
40	PI2 BPSK	216	0	15.28	15.40	15.30		
40	QPSK	1	1	15.38	15.46	15.43		
40	QPSK	1	108	15.31	15.38	15.23	16.3	0.0
40	QPSK	1	214	15.20	15.36	15.24		
40	QPSK	108	0	15.07	15.14	15.08	16.3	0.0
40	QPSK	108	54	15.27	15.36	15.30	16.3	0.0
40	QPSK	108	108	15.18	15.32	15.26	16.3	0.0
40	QPSK	216	0	15.27	15.32	15.22		
40	16QAM	1	1	15.11	15.29	15.06	16.3	0.0
40	16QAM	1	1	15.01	15.10	15.10	16.3	0.0
40	256QAM	1	1	15.04	15.20	15.11	16.3	0.0
Channel								
Frequency (MHz)				50300	50700	51100	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	15.21	15.28	15.25	16.3	0.0
Channel								
Frequency (MHz)				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	15.18	15.27	15.10	16.3	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	15.23	15.34	15.16	16.3	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	15.28	15.31	15.21	16.3	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	15.19	15.23	15.20	16.3	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	15.22	15.28	15.23	16.3	0.0



n66 Ant1 DSI3							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				345000	349000	353000	
Frequency (MHz)				1730	1745	1760	
40	PI2 BPSK	1	1	15.99	16.03	15.94	
40	PI2 BPSK	1	168	15.89	15.99	15.90	0.0
40	PI2 BPSK	1	214	15.91	15.97	15.90	
40	PI2 BPSK	108	0	15.84	15.89	15.82	17.0 0.0
40	PI2 BPSK	108	54	15.89	15.97	15.94	17.0 0.0
40	PI2 BPSK	108	108	15.83	15.96	15.87	17.0 0.0
40	PI2 BPSK	216	0	15.88	16.01	15.92	
40	QPSK	1	1	16.06	16.08	16.00	
40	QPSK	1	108	15.91	16.04	15.90	17.0 0.0
40	QPSK	1	214	15.89	15.96	15.92	
40	QPSK	108	0	15.82	15.91	15.76	17.0 0.0
40	QPSK	108	54	15.95	16.03	15.98	17.0 0.0
40	QPSK	108	108	15.79	15.85	15.78	17.0 0.0
40	QPSK	216	0	15.85	15.91	15.81	17.0 0.0
40	16QAM	1	1	15.79	15.87	15.75	17.0 0.0
40	64QAM	1	1	15.80	15.86	15.81	17.0 0.0
40	256QAM	1	1	15.77	15.89	15.77	17.0 0.0
Channel				345000	349000	353000	Tune-up limit (dBm) MPR
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	15.85	15.91	15.90	17.0 0.0
Channel				344000	349000	354000	Tune-up limit (dB) MPR
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	15.87	15.95	15.86	17.0 0.0
Channel				343500	349000	354500	Tune-up limit (dB) MPR
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	15.90	15.96	15.95	17.0 0.0
Channel				343000	349000	355000	Tune-up limit (dB) MPR
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	15.89	15.99	15.90	17.0 0.0
Channel				342500	349000	355500	Tune-up limit (dB) MPR
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	15.84	15.99	15.88	17.0 0.0

n71 Ant1 Default							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				134500	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI2 BPSK	1	1	22.96	23.08	23.05	
20	PI2 BPSK	1	53	22.97	23.02	22.92	24.0 0.0
20	PI2 BPSK	1	104	22.76	22.91	22.83	
20	PI2 BPSK	50	0	22.46	22.52	22.47	23.5 0.5
20	PI2 BPSK	50	28	22.94	23.03	22.97	24.0 0.0
20	PI2 BPSK	50	56	22.41	22.45	22.34	23.5 0.5
20	PI2 BPSK	100	0	22.47	22.53	22.47	
20	QPSK	1	1	23.03	23.13	23.09	
20	QPSK	1	53	22.96	23.09	23.02	24.0 0.0
20	QPSK	1	104	22.90	22.97	22.91	
20	QPSK	50	0	21.91	22.05	21.94	23.0 1.0
20	QPSK	50	28	22.98	23.06	22.93	24.0 0.0
20	QPSK	50	56	21.92	22.01	21.87	23.0 1.0
20	QPSK	100	0	21.93	22.07	21.97	
20	16QAM	1	1	21.77	21.87	21.83	23.0 1.0
20	64QAM	1	1	20.25	20.34	20.21	21.5 2.5
20	256QAM	1	1	18.53	18.83	18.58	19.5 4.5
Channel				134100	136100	138100	Tune-up limit (dB) MPR
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	1	22.91	23.02	22.97	24.0 0.0
Channel				133600	136100	138600	Tune-up limit (dB) MPR
Frequency (MHz)				668	680.5	692	
10	QPSK	1	1	22.99	23.00	23.02	24.0 0.0
Channel				133100	136100	139100	Tune-up limit (dB) MPR
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	1	22.96	23.00	22.99	24.0 0.0



n41 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	15.37	15.43	15.31			
100	PI2 BPSK	1	137	15.42	15.48	15.40	16.4	0.0	
100	PI2 BPSK	1	271	15.21	15.38	15.30			
100	PI2 BPSK	135	0	15.24	15.40	15.16	16.4	0.0	
100	PI2 BPSK	135	69	15.16	15.34	15.18	16.4	0.0	
100	PI2 BPSK	135	138	15.23	15.40	15.30	16.4	0.0	
100	PI2 BPSK	270	0	15.44	15.43	15.33			
100	QPSK	1	1	15.48	15.32	15.44			
100	QPSK	1	137	15.33	15.44	15.32	16.4	0.0	
100	QPSK	1	271	15.27	15.42	15.30			
100	QPSK	135	0	15.38	15.49	15.37	16.4	0.0	
100	QPSK	135	69	15.41	15.48	15.31	16.4	0.0	
100	QPSK	135	138	15.24	15.41	15.21	16.4	0.0	
100	QPSK	270	0	15.18	15.32	15.21			
100	16QAM	1	1	15.17	15.31	15.22	16.4	0.0	
100	16QAM	1	1	15.21	15.32	15.21	16.4	0.0	
100	256QAM	1	1	15.39	15.43	15.41	16.4	0.0	
Channel				50200	51898	52900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	15.38	15.43	15.34	16.4	0.0	
Channel				507204	518988	529988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	15.37	15.39	15.28	16.4	0.0	
Channel				509202	518988	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2685			
70	QPSK	1	1	15.43	15.43	15.39	16.4	0.0	
Channel				505200	518988	531988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	15.38	15.38	15.37	16.4	0.0	
Channel				504204	518988	532988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	15.35	15.38	15.29	16.4	0.0	
Channel				503202	518988	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	15.43	15.43	15.40	16.4	0.0	
Channel				502200	518988	534988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	15.35	15.38	15.31	16.4	0.0	
Channel				501204	518988	535988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	15.44	15.38	15.35	16.4	0.0	

n41 PC2 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	15.35	15.43	15.29			
100	PI2 BPSK	1	137	15.45	15.48	15.45	19.4	0.0	
100	PI2 BPSK	1	271	15.24	15.37	15.24			
100	PI2 BPSK	135	0	15.19	15.36	15.19	19.4	0.0	
100	PI2 BPSK	135	69	15.12	15.39	15.19	19.4	0.0	
100	PI2 BPSK	135	138	15.23	15.45	15.31	19.4	0.0	
100	PI2 BPSK	270	0	15.40	15.46	15.34			
100	QPSK	1	1	15.50	15.35	15.47			
100	QPSK	1	137	15.27	15.39	15.31	19.4	0.0	
100	QPSK	1	271	15.21	15.46	15.26			
100	QPSK	135	0	15.39	15.45	15.40	19.4	0.0	
100	QPSK	135	69	15.44	15.46	15.32	19.4	0.0	
100	QPSK	135	138	15.18	15.27	15.16	19.4	0.0	
100	QPSK	270	0	15.14	15.34	15.22			
100	16QAM	1	1	15.14	15.27	15.26	19.4	0.0	
100	16QAM	1	1	15.21	15.33	15.25	19.4	0.0	
100	256QAM	1	1	15.43	15.41	15.37	19.4	0.0	
Channel				50200	51898	52900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	15.45	15.41	15.42	19.4	0.0	
Channel				507204	518988	529988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	15.37	15.45	15.40	19.4	0.0	
Channel				509202	518988	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2685			
70	QPSK	1	1	15.41	15.35	15.43	19.4	0.0	
Channel				505200	518988	531988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	15.44	15.37	15.35	19.4	0.0	
Channel				504204	518988	532988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	15.41	15.33	15.37	19.4	0.0	
Channel				503202	518988	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	15.46	15.45	15.42	19.4	0.0	
Channel				502200	518988	534988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	15.44	15.47	15.33	19.4	0.0	
Channel				501204	518988	535988	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	15.46	15.45	15.32	19.4	0.0	



### n41 Ant2

BW [MHz]	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)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	15.57	15.58	15.46		
100	PI2 BPSK	1	137	15.42	15.53	15.61	17.2	0.0
100	PI2 BPSK	1	271	15.58	15.68	15.80		
100	PI2 BPSK	135	0	15.46	15.51	15.28	17.2	0.0
100	PI2 BPSK	135	69	15.35	15.69	15.37	17.2	0.0
100	PI2 BPSK	135	138	15.50	15.47	15.34	17.2	0.0
100	PI2 BPSK	270	0	15.63	15.65	15.44		
100	QPSK	1	1	15.75	15.81	15.56		
100	QPSK	1	137	15.56	15.69	15.44	17.2	0.0
100	QPSK	1	271	15.80	15.66	15.48		
100	QPSK	135	0	15.36	15.45	15.42	17.2	0.0
100	QPSK	135	69	15.43	15.79	15.56	17.2	0.0
100	QPSK	135	138	15.45	15.64	15.56	17.2	0.0
100	QPSK	270	0	15.57	15.61	15.44		
100	16QAM	1	1	15.52	15.53	15.40	17.2	0.0
100	16QAM	1	1	15.24	15.21	15.27	17.2	0.0
100	256QAM	1	1	15.31	15.31	15.22	17.2	0.0
Channel								
Frequency (MHz)				500200	516398	532596		
90	QPSK	1	1	15.54	15.52	15.42	17.2	0.0
Channel								
Frequency (MHz)				507204	518598	529988		
90	QPSK	1	1	15.47	15.71	15.30	17.2	0.0
Channel								
Frequency (MHz)				506202	518598	531000		
70	QPSK	1	1	15.49	15.61	15.35	17.2	0.0
Channel								
Frequency (MHz)				505200	518598	531998		
60	QPSK	1	1	15.50	15.64	15.45	17.2	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	15.58	15.49	15.24	17.2	0.0
Channel								
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	15.54	15.71	15.30	17.2	0.0
Channel								
Frequency (MHz)				502200	518598	534998		
30	QPSK	1	1	15.66	15.65	15.37	17.2	0.0
Channel								
Frequency (MHz)				501204	518598	535998		
20	QPSK	1	1	15.57	15.61	15.25	17.2	0.0

### n41 PC2 Ant2

BW [MHz]	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)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	18.46	18.44	18.30		
100	PI2 BPSK	1	137	18.23	18.46	18.48	20.2	0.0
100	PI2 BPSK	1	271	18.58	18.58	18.42		
100	PI2 BPSK	135	0	18.35	18.48	18.28	20.2	0.0
100	PI2 BPSK	135	69	18.23	18.70	18.30	20.2	0.0
100	PI2 BPSK	135	138	18.42	18.44	18.32	20.2	0.0
100	PI2 BPSK	270	0	18.61	18.44	18.44		
100	QPSK	1	1	18.58	18.70	18.46		
100	QPSK	1	137	18.43	18.54	18.31	20.2	0.0
100	QPSK	1	271	18.51	18.58	18.37		
100	QPSK	135	0	18.38	18.44	18.28	20.2	0.0
100	QPSK	135	69	18.41	18.71	18.48	20.2	0.0
100	QPSK	135	138	18.30	18.64	18.51	20.2	0.0
100	QPSK	270	0	18.41	18.57	18.32		
100	16QAM	1	1	18.47	18.36	18.30	20.2	0.0
100	16QAM	1	1	18.26	18.28	18.34	20.2	0.0
100	256QAM	1	1	18.32	18.31	18.21	20.2	0.0
Channel								
Frequency (MHz)				500200	518598	532596		
90	QPSK	1	1	18.32	18.48	18.30	20.2	0.0
Channel								
Frequency (MHz)				507204	518598	529988		
80	QPSK	1	1	18.32	18.52	18.31	20.2	0.0
Channel								
Frequency (MHz)				506202	518598	531000		
70	QPSK	1	1	18.31	18.51	18.38	20.2	0.0
Channel								
Frequency (MHz)				505200	518598	531998		
60	QPSK	1	1	18.30	18.61	18.30	20.2	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	18.36	18.42	18.24	20.2	0.0
Channel								
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	18.31	18.56	18.28	20.2	0.0
Channel								
Frequency (MHz)				502200	518598	534998		
30	QPSK	1	1	18.37	18.45	18.32	20.2	0.0
Channel								
Frequency (MHz)				501204	518598	535998		
20	QPSK	1	1	18.32	18.57	18.28	20.2	0.0

### n48 Part96 Ant2 DS13

BW [MHz]	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)				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	11.73	11.81	11.77		
40	PI2 BPSK	1	53	11.75	11.78	11.68	12.9	0.0
40	PI2 BPSK	1	104	11.83	11.74	11.61		
40	PI2 BPSK	50	0	11.56	11.70	11.67	12.9	0.0
40	PI2 BPSK	50	26	11.73	11.79	11.74	12.9	0.0
40	PI2 BPSK	50	56	11.85	11.72	11.67	12.9	0.0
40	PI2 BPSK	100	0	11.87	11.75	11.64		
40	QPSK	1	1	11.80	11.67	11.78		
40	QPSK	1	53	11.73	11.85	11.75	12.9	0.0
40	QPSK	1	104	11.70	11.77	11.74		
40	QPSK	50	0	11.62	11.74	11.67	12.9	0.0
40	QPSK	50	26	11.70	11.83	11.71	12.9	0.0
40	QPSK	50	56	11.56	11.68	11.63	12.9	0.0
40	QPSK	100	0	11.85	11.76	11.62		
40	16QAM	1	1	11.64	11.70	11.55	12.9	0.0
40	16QAM	1	1	11.54	11.65	11.52	12.9	0.0
40	256QAM	1	1	11.52	11.59	11.53	12.9	0.0
Channel								
Frequency (MHz)				637668	641666	645666		
30	QPSK	1	1	11.70	11.79	11.65	12.9	0.0
Channel								
Frequency (MHz)				3560.01	3624.99	3690		
20	QPSK	1	1	11.87	11.82	11.67	12.9	0.0



### Part270 n77 Ant2 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 65000	Power Middle Ch. / Freq. 65000	Power High Ch. / Freq. 65000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	11.55	11.59	11.53		
100	PI2 BPSK	1	137	11.53	11.64	11.54	12.9	0.0
100	PI2 BPSK	1	271	11.46	11.59	11.44		
100	PI2 BPSK	135	0	11.41	11.55	11.43	12.9	0.0
100	PI2 BPSK	135	69	11.57	11.65	11.61	12.9	0.0
100	PI2 BPSK	135	138	11.51	11.50	11.47	12.9	0.0
100	PI2 BPSK	270	0	11.47	11.54	11.48		
100	QPSK	1	1	11.50	11.67	11.57		
100	QPSK	1	137	11.58	11.66	11.53	12.9	0.0
100	QPSK	1	271	11.52	11.61	11.54		
100	QPSK	135	0	11.41	11.60	11.44	12.9	0.0
100	QPSK	135	69	11.57	11.63	11.49	12.9	0.0
100	QPSK	135	138	11.54	11.53	11.40	12.9	0.0
100	QPSK	270	0	11.48	11.59	11.42		
100	16QAM	1	1	11.48	11.50	11.38	12.9	0.0
100	16QAM	1	1	11.39	11.50	11.46	12.9	0.0
100	256QAM	1	1	11.40	11.43	11.38	12.9	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	11.52	11.58	11.48	12.9	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	11.49	11.53	11.53	12.9	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	11.46	11.61	11.46	12.9	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	11.50	11.58	11.45	12.9	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	11.55	11.54	11.48	12.9	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	11.54	11.53	11.46	12.9	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	11.52	11.54	11.45	12.9	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	11.45	11.60	11.54	12.9	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	11.45	11.58	11.49	12.9	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	11.50	11.63	11.48	12.9	0.0

### Part270 n77 PC2 Ant2 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 65000	Power Middle Ch. / Freq. 65000	Power High Ch. / Freq. 65000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	14.43	14.52	14.46		
100	PI2 BPSK	1	137	14.45	14.45	14.43	15.9	0.0
100	PI2 BPSK	1	271	14.39	14.50	14.38		
100	PI2 BPSK	135	0	14.26	14.42	14.33	15.9	0.0
100	PI2 BPSK	135	69	14.43	14.51	14.44	15.9	0.0
100	PI2 BPSK	135	138	14.30	14.44	14.40	15.9	0.0
100	PI2 BPSK	270	0	14.36	14.43	14.35		
100	QPSK	1	1	14.50	14.61	14.47		
100	QPSK	1	137	14.48	14.59	14.51	15.9	0.0
100	QPSK	1	271	14.39	14.51	14.48		
100	QPSK	135	0	14.34	14.47	14.37	15.9	0.0
100	QPSK	135	69	14.46	14.57	14.40	15.9	0.0
100	QPSK	135	138	14.30	14.40	14.23	15.9	0.0
100	QPSK	270	0	14.34	14.47	14.39		
100	16QAM	1	1	14.36	14.47	14.24	15.9	0.0
100	16QAM	1	1	14.32	14.31	14.37	15.9	0.0
100	256QAM	1	1	14.30	14.26	14.23	15.9	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	14.41	14.50	14.43	15.9	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	14.35	14.57	14.43	15.9	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	14.42	14.48	14.40	15.9	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	14.42	14.46	14.35	15.9	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	14.45	14.55	14.33	15.9	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	14.47	14.58	14.36	15.9	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	14.43	14.49	14.42	15.9	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	14.46	14.51	14.39	15.9	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	14.43	14.49	14.42	15.9	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	14.42	14.55	14.41	15.9	0.0

### Part27Q n77 Ant2 DSI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 63300	Power Middle Ch. / Freq. 63334	Power High Ch. / Freq. 63334	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1			3500.01		
100	PI2 BPSK	1	1			11.77		
100	PI2 BPSK	1	137			11.67	12.9	0.0
100	PI2 BPSK	1	271			11.70		
100	PI2 BPSK	135	0			11.56	12.9	0.0
100	PI2 BPSK	135	69			11.74	12.9	0.0
100	PI2 BPSK	135	138			11.61	12.9	0.0
100	PI2 BPSK	270	0			11.89		
100	QPSK	1	1			11.82		
100	QPSK	1	137			11.78	12.9	0.0
100	QPSK	1	271			11.74		
100	QPSK	135	0			11.60	12.9	0.0
100	QPSK	135	69			11.71	12.9	0.0
100	QPSK	135	138			11.65	12.9	0.0
100	QPSK	270	0			11.69		
100	16QAM	1	1			11.58	12.9	0.0
100	16QAM	1	1			11.51	12.9	0.0
100	256QAM	1	1			11.45	12.9	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	633000	633334	633888	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	633000	633334	633888	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	633000	633334	633888	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	633000	633334	633888	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	633000	633334	633888	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	633000	633334	633888	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	633000	633334	633888	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	633000	633334	633888	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	1	633000	633334	633888	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1	633000	633334	633888	Tune-up limit (dBm)	MPR (dB)



### Part27Q n77 PC2 Ant2 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				3500.01				
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	14.75	14.64	14.75	15.9	0.0
100	PI2 BPSK	1	137	14.64	14.64	14.64	15.9	0.0
100	PI2 BPSK	1	271	14.66	14.66	14.66	15.9	0.0
100	PI2 BPSK	135	69	14.62	14.62	14.62	15.9	0.0
100	PI2 BPSK	135	69	14.73	14.73	14.73	15.9	0.0
100	PI2 BPSK	135	138	14.67	14.67	14.67	15.9	0.0
100	PI2 BPSK	270	0	14.66	14.66	14.66	15.9	0.0
100	QPSK	1	1	14.69	14.69	14.69	15.9	0.0
100	QPSK	1	137	14.73	14.73	14.73	15.9	0.0
100	QPSK	1	271	14.77	14.77	14.77	15.9	0.0
100	QPSK	135	0	14.63	14.63	14.63	15.9	0.0
100	QPSK	135	69	14.75	14.75	14.75	15.9	0.0
100	QPSK	135	138	14.66	14.66	14.66	15.9	0.0
100	QPSK	270	0	14.71	14.71	14.71	15.9	0.0
100	16QAM	1	1	14.80	14.80	14.80	15.9	0.0
100	16QAM	1	1	14.57	14.57	14.57	15.9	0.0
100	256QAM	1	1	14.48	14.48	14.48	15.9	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	14.66	14.74	14.70	15.9	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	14.74	14.70	14.75	15.9	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	14.69	14.71	14.76	15.9	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	14.67	14.66	14.70	15.9	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	14.74	14.72	14.75	15.9	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	14.70	14.67	14.67	15.9	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3533.02		
30	QPSK	1	1	14.73	14.67	14.69	15.9	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	14.76	14.67	14.74	15.9	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3542.92		
15	QPSK	1	1	14.76	14.71	14.72	15.9	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	14.76	14.69	14.69	15.9	0.0

### Part27O n78 Ant2 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				650000				
Frequency (MHz)				3750				
100	PI2 BPSK	1	1	11.83	11.77	11.83	12.9	0.0
100	PI2 BPSK	1	137	11.77	11.77	11.77	12.9	0.0
100	PI2 BPSK	1	271	11.80	11.80	11.80	12.9	0.0
100	PI2 BPSK	135	0	11.81	11.81	11.81	12.9	0.0
100	PI2 BPSK	135	69	11.81	11.81	11.81	12.9	0.0
100	PI2 BPSK	135	138	11.71	11.71	11.71	12.9	0.0
100	PI2 BPSK	270	0	11.74	11.74	11.74	12.9	0.0
100	QPSK	1	1	11.88	11.88	11.88	12.9	0.0
100	QPSK	1	137	11.80	11.80	11.80	12.9	0.0
100	QPSK	1	271	11.82	11.82	11.82	12.9	0.0
100	QPSK	135	0	11.76	11.76	11.76	12.9	0.0
100	QPSK	135	69	11.79	11.79	11.79	12.9	0.0
100	QPSK	135	138	11.78	11.78	11.78	12.9	0.0
100	QPSK	270	0	11.82	11.82	11.82	12.9	0.0
100	16QAM	1	1	11.64	11.64	11.64	12.9	0.0
100	16QAM	1	1	11.61	11.61	11.61	12.9	0.0
100	256QAM	1	1	11.51	11.51	11.51	12.9	0.0
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	11.73	11.84	11.82	12.9	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	11.81	11.85	11.70	12.9	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	11.73	11.75	11.77	12.9	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	11.80	11.79	11.78	12.9	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	11.80	11.83	11.80	12.9	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	11.79	11.74	11.76	12.9	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3735.01		
30	QPSK	1	1	11.75	11.79	11.74	12.9	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	11.84	11.84	11.79	12.9	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.92	3750	3792.51		
15	QPSK	1	1	11.73	11.81	11.82	12.9	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	11.77	11.80	11.75	12.9	0.0

### Part27Q n78 Ant2 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				633000				
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	11.86	11.84	11.86	12.9	0.0
100	PI2 BPSK	1	137	11.84	11.84	11.84	12.9	0.0
100	PI2 BPSK	1	271	11.89	11.89	11.89	12.9	0.0
100	PI2 BPSK	135	0	11.47	11.47	11.47	12.9	0.0
100	PI2 BPSK	135	69	11.73	11.73	11.73	12.9	0.0
100	PI2 BPSK	135	138	11.87	11.87	11.87	12.9	0.0
100	PI2 BPSK	270	0	11.84	11.84	11.84	12.9	0.0
100	QPSK	1	1	11.76	11.76	11.76	12.9	0.0
100	QPSK	1	137	11.80	11.80	11.80	12.9	0.0
100	QPSK	1	271	11.72	11.72	11.72	12.9	0.0
100	QPSK	135	0	11.83	11.83	11.83	12.9	0.0
100	QPSK	135	69	11.76	11.76	11.76	12.9	0.0
100	QPSK	135	138	11.70	11.70	11.70	12.9	0.0
100	QPSK	270	0	11.72	11.72	11.72	12.9	0.0
100	16QAM	1	1	11.54	11.54	11.54	12.9	0.0
100	16QAM	1	1	11.53	11.53	11.53	12.9	0.0
100	256QAM	1	1	11.41	11.41	11.41	12.9	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	11.73	11.74	11.70	12.9	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	11.85	11.71	11.60	12.9	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	11.74	11.74	11.71	12.9	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	11.88	11.83	11.85	12.9	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	11.68	11.70	11.83	12.9	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	11.71	11.66	11.86	12.9	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3533.02		
30	QPSK	1	1	11.69	11.75	11.72	12.9	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	11.72	11.71	11.83	12.9	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.92	3500.01	3542.92		
15	QPSK	1	1	11.84	11.84	11.72	12.9	0.0
Channel				630334	6			



### Part270 n77 Ant4 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	PI2 BPSK	1	1	15.59	15.63	15.53		
100	PI2 BPSK	1	137	15.55	15.62	15.50	16.6	0.0
100	PI2 BPSK	1	271	15.47	15.56	15.46		
100	PI2 BPSK	135	0	15.41	15.54	15.43	16.6	0.0
100	PI2 BPSK	135	69	15.53	15.59	15.47	16.6	0.0
100	PI2 BPSK	135	138	15.49	15.53	15.45	16.6	0.0
100	PI2 BPSK	270	0	15.47	15.56	15.43		
100	QPSK	1	1	15.62	15.71	15.58		
100	QPSK	1	137	15.47	15.62	15.56	16.6	0.0
100	QPSK	1	271	15.44	15.59	15.47		
100	QPSK	135	0	15.43	15.52	15.39	16.6	0.0
100	QPSK	135	69	15.55	15.67	15.57	16.6	0.0
100	QPSK	135	138	15.44	15.55	15.43	16.6	0.0
100	QPSK	270	0	15.49	15.62	15.56		
100	16QAM	1	1	15.42	15.46	15.40	16.6	0.0
100	16QAM	1	1	15.33	15.47	15.42	16.6	0.0
100	256QAM	1	1	15.38	15.51	15.45	16.6	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	15.55	15.60	15.48	16.6	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.49	15.62	15.59	16.6	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.55	15.56	15.45	16.6	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.55	15.59	15.46	16.6	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.55	15.62	15.55	16.6	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.56	15.61	15.53	16.6	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.51	15.64	15.49	16.6	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.58	15.66	15.52	16.6	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	15.49	15.57	15.45	16.6	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	15.52	15.62	15.53	16.6	0.0

### Part270 n77 PC2 Ant4 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	PI2 BPSK	1	1	18.52	18.56	18.40		
100	PI2 BPSK	1	137	18.45	18.54	18.39	19.6	0.0
100	PI2 BPSK	1	271	18.33	18.50	18.32		
100	PI2 BPSK	135	0	18.29	18.48	18.34	19.6	0.0
100	PI2 BPSK	135	69	18.44	18.51	18.33	19.6	0.0
100	PI2 BPSK	135	138	18.42	18.48	18.37	19.6	0.0
100	PI2 BPSK	270	0	18.32	18.47	18.30		
100	QPSK	1	1	18.57	18.60	18.51		
100	QPSK	1	137	18.35	18.53	18.50	19.6	0.0
100	QPSK	1	271	18.30	18.45	18.33		
100	QPSK	135	0	18.38	18.39	18.35	19.6	0.0
100	QPSK	135	69	18.49	18.56	18.44	19.6	0.0
100	QPSK	135	138	18.38	18.51	18.29	19.6	0.0
100	QPSK	270	0	18.38	18.52	18.38		
100	16QAM	1	1	18.32	18.37	18.31	19.6	0.0
100	16QAM	1	1	18.25	18.35	18.30	19.6	0.0
100	256QAM	1	1	18.34	18.42	18.30	19.6	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	18.47	18.52	18.46	19.6	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.44	18.49	18.39	19.6	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.50	18.45	18.46	19.6	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	18.43	18.54	18.37	19.6	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	18.44	18.50	18.40	19.6	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.51	18.46	18.48	19.6	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.48	18.48	18.39	19.6	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.48	18.49	18.44	19.6	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	18.45	18.55	18.41	19.6	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	18.46	18.49	18.41	19.6	0.0

### Part270 n77 Ant4 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	PI2 BPSK	1	1		3500.01			
100	PI2 BPSK	1	137		3500.01		16.6	0.0
100	PI2 BPSK	1	271		3500.01			
100	PI2 BPSK	135	0		3500.01		16.6	0.0
100	PI2 BPSK	135	69		3500.01		16.6	0.0
100	PI2 BPSK	135	138		3500.01		16.6	0.0
100	PI2 BPSK	270	0		3500.01			
100	QPSK	1	1		3500.01			
100	QPSK	1	137		3500.01		16.6	0.0
100	QPSK	1	271		3500.01			
100	QPSK	135	0		3500.01		16.6	0.0
100	QPSK	135	69		3500.01		16.6	0.0
100	QPSK	135	138		3500.01		16.6	0.0
100	QPSK	270	0		3500.01			
100	16QAM	1	1		3500.01		16.6	0.0
100	16QAM	1	1		3500.01		16.6	0.0
100	256QAM	1	1		3500.01		16.6	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	15.41	15.49	15.45	16.6	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.44	15.51	15.43	16.6	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.43	15.48	15.47	16.6	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.51	15.40	15.41	16.6	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.50	15.48	15.40	16.6	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.39	15.42	15.51	16.6	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.40	15.45	15.41	16.6	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.44	15.44	15.41	16.6	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	15.42	15.41	15.50	16.6	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	15.49	15.49	15.42	16.6	0.0





### Part27Q n77 PC2 Ant4 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				63300.1				
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	18.49	18.49	18.49		
100	PI2 BPSK	1	137	18.48	18.48	18.48	19.6	0.0
100	PI2 BPSK	1	271	18.44	18.44	18.44		
100	PI2 BPSK	135	0	18.35	18.35	18.35	19.6	0.0
100	PI2 BPSK	135	69	18.30	18.30	18.30	19.6	0.0
100	PI2 BPSK	135	138	18.38	18.38	18.38	19.6	0.0
100	PI2 BPSK	270	0	18.39	18.39	18.39		
100	QPSK	1	1	18.57	18.57	18.57		
100	QPSK	1	137	18.45	18.45	18.45	19.6	0.0
100	QPSK	1	271	18.41	18.41	18.41		
100	QPSK	135	0	18.35	18.35	18.35	19.6	0.0
100	QPSK	135	69	18.44	18.44	18.44	19.6	0.0
100	QPSK	135	138	18.38	18.38	18.38	19.6	0.0
100	QPSK	270	0	18.40	18.40	18.40		
100	16QAM	1	1	18.34	18.34	18.34	19.6	0.0
100	64QAM	1	1	18.27	18.27	18.27	19.6	0.0
100	256QAM	1	1	18.30	18.30	18.30	19.6	0.0
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	18.43	18.53	18.50	19.6	0.0
Channel				633668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	18.44	18.50	18.49	19.5	0.0
Channel				632334	633334	634334		
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	18.48	18.51	18.42	19.6	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520		
60	QPSK	1	1	18.46	18.44	18.52	19.6	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	18.45	18.50	18.53	19.6	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	18.44	18.49	18.52	19.6	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	18.43	18.44	18.43	19.6	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	18.48	18.53	18.49	19.6	0.0
Channel				630500	633334	636168		
Frequency (MHz)				3455.01	3500.01	3542.52		
15	QPSK	1	1	18.43	18.51	18.44	19.6	0.0
Channel				630334	633334	636334		
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	18.47	18.47	18.49	19.6	0.0

### Part27O n78 Ant4 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				65000.1				
Frequency (MHz)				3750				
100	PI2 BPSK	1	1	15.81	15.81	15.81		
100	PI2 BPSK	1	137	15.29	15.29	15.29	16.6	0.0
100	PI2 BPSK	1	271	15.58	15.58	15.58		
100	PI2 BPSK	135	0	15.45	15.45	15.45	16.6	0.0
100	PI2 BPSK	135	69	15.49	15.49	15.49	16.6	0.0
100	PI2 BPSK	135	138	15.52	15.52	15.52	16.6	0.0
100	PI2 BPSK	270	0	15.46	15.46	15.46		
100	QPSK	1	1	15.88	15.88	15.88		
100	QPSK	1	137	15.53	15.53	15.53	16.6	0.0
100	QPSK	1	271	15.41	15.41	15.41		
100	QPSK	135	0	15.40	15.40	15.40	16.6	0.0
100	QPSK	135	69	15.58	15.58	15.58	16.6	0.0
100	QPSK	135	138	15.50	15.50	15.50	16.6	0.0
100	QPSK	270	0	15.55	15.55	15.55		
100	16QAM	1	1	15.38	15.38	15.38	16.6	0.0
100	64QAM	1	1	15.40	15.40	15.40	16.6	0.0
100	256QAM	1	1	15.42	15.42	15.42	16.6	0.0
Channel				649668	650000	650334		
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	15.81	15.84	15.83	16.6	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	15.54	15.60	15.57	16.5	0.0
Channel				649000	650000	651000		
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	15.81	15.85	15.85	16.6	0.0
Channel				648668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	15.84	15.86	15.84	16.6	0.0
Channel				648334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	15.58	15.54	15.61	16.6	0.0
Channel				648000	650000	652000		
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	15.54	15.62	15.56	16.6	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	15.59	15.58	15.62	16.6	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	15.59	15.54	15.60	16.6	0.0
Channel				647168	650000	653000		
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	15.58	15.53	15.59	16.6	0.0
Channel				647000	650000	653334		
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	15.58	15.64	15.57	16.6	0.0

### Part27Q n78 Ant4 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				63300.1				
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	15.73	15.73	15.73		
100	PI2 BPSK	1	137	15.88	15.88	15.88	16.6	0.0
100	PI2 BPSK	1	271	15.86	15.86	15.86		
100	PI2 BPSK	135	0	15.54	15.54	15.54	16.6	0.0
100	PI2 BPSK	135	69	15.54	15.54	15.54	16.6	0.0
100	PI2 BPSK	135	138	15.83	15.83	15.83	16.6	0.0
100	PI2 BPSK	270	0	15.82	15.82	15.82		
100	QPSK	1	1	15.85	15.85	15.85		
100	QPSK	1	137	15.82	15.82	15.82	16.6	0.0
100	QPSK	1	271	15.49	15.49	15.49		
100	QPSK	135	0	15.55	15.55	15.55	16.6	0.0
100	QPSK	135	69	15.74	15.74	15.74	16.6	0.0
100	QPSK	135	138	15.59	15.59	15.59	16.6	0.0
100	QPSK	270	0	15.70	15.70	15.70		
100	16QAM	1	1	15.51	15.51	15.51	16.6	0.0
100	64QAM	1	1	15.56	15.56	15.56	16.6	0.0
100	256QAM	1	1	15.58	15.58	15.58	16.6	0.0
Channel				633000	633334	633668		
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	15.78	15.82	15.79	16.6	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	15.74	15.77	15.80	16.6	0.0
Channel				632334	633334	634334		
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	15.71	15.80	15.74	16.6	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	15.74	15.78	15.75	16.6	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	15.78	15.82	15.71	16.6	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	15.78	15.74	15.71	16.6	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	15.72	15.80	15.68	16.6	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	15.77	15.78	15.70	16.6	0.0
Channel				630500	633334	636168		
Frequency (MHz)				3455.01	3500.01	3542.52		
15	QPSK	1	1	15.73	15.82	15.79	16.6	0.0
Channel				630334	633334	636334		
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	15.75	15.81	15.77	16.6	0.0



### Part270 n77 Ant5 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)				3750	3840	3930		
100	PI2 BPSK	1	1	16.10	16.17	16.07		
100	PI2 BPSK	1	137	16.03	16.12	15.99	17.2	0.0
100	PI2 BPSK	1	271	15.97	16.05	15.92		
100	PI2 BPSK	135	0	15.83	15.99	15.90	17.2	0.0
100	PI2 BPSK	135	69	16.09	16.13	16.01	17.2	0.0
100	PI2 BPSK	135	138	15.98	16.09	15.97	17.2	0.0
100	PI2 BPSK	270	0	15.96	16.08	15.96		
100	QPSK	1	1	16.07	16.20	16.14		
100	QPSK	1	137	16.02	16.13	16.07	17.2	0.0
100	QPSK	1	271	16.00	16.15	15.98		
100	QPSK	135	0	15.95	16.07	15.84	17.2	0.0
100	QPSK	135	69	16.11	16.17	16.13	17.2	0.0
100	QPSK	135	138	16.01	16.11	15.94	17.2	0.0
100	QPSK	270	0	15.95	16.13	16.07		
100	16QAM	1	1	15.97	15.98	15.92	17.2	0.0
100	16QAM	1	1	15.79	15.97	15.90	17.2	0.0
100	256QAM	1	1	15.93	16.01	15.86	17.2	0.0
Channel								
Frequency (MHz)				649598	650000	650234	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	15.99	16.16	16.06	17.2	0.0
Channel								
Frequency (MHz)				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	16.00	16.10	16.11	17.2	0.0
Channel								
Frequency (MHz)				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	15.93	16.12	16.06	17.2	0.0
Channel								
Frequency (MHz)				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	15.98	16.09	16.04	17.2	0.0
Channel								
Frequency (MHz)				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	16.04	16.03	16.03	17.2	0.0
Channel								
Frequency (MHz)				3720.02	3840	3960.01	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	15.97	16.10	16.08	17.2	0.0
Channel								
Frequency (MHz)				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	16.00	16.15	16.07	17.2	0.0
Channel								
Frequency (MHz)				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	16.03	16.07	16.05	17.2	0.0
Channel								
Frequency (MHz)				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	15.94	16.09	16.08	17.2	0.0
Channel								
Frequency (MHz)				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	15.95	16.10	16.08	17.2	0.0

### Part270 n77 PC2 Ant5 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)				3750	3840	3930		
100	PI2 BPSK	1	1	16.01	16.03	16.01		
100	PI2 BPSK	1	137	16.96	16.07	16.85		
100	PI2 BPSK	1	271	16.92	16.01	16.79		
100	PI2 BPSK	135	0	16.83	16.95	16.84	20.2	0.0
100	PI2 BPSK	135	69	16.95	16.90	16.94	20.2	0.0
100	PI2 BPSK	135	138	16.88	16.95	16.84	20.2	0.0
100	PI2 BPSK	270	0	16.86	16.90	16.82		
100	QPSK	1	1	16.91	16.13	16.07		
100	QPSK	1	137	16.97	16.95	16.93	20.2	0.0
100	QPSK	1	271	16.86	16.10	16.87		
100	QPSK	135	0	16.92	16.98	16.80	20.2	0.0
100	QPSK	135	69	16.90	16.98	16.97	20.2	0.0
100	QPSK	135	138	16.87	16.96	16.81	20.2	0.0
100	QPSK	270	0	16.95	16.97	16.97		
100	16QAM	1	1	16.86	16.82	16.81	20.2	0.0
100	16QAM	1	1	16.70	16.83	16.80	20.2	0.0
100	256QAM	1	1	16.84	16.81	16.83	20.2	0.0
Channel								
Frequency (MHz)				3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	16.95	16.02	16.88	20.2	0.0
Channel								
Frequency (MHz)				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	16.96	16.05	16.94	20.2	0.0
Channel								
Frequency (MHz)				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	16.89	16.96	16.96	20.2	0.0
Channel								
Frequency (MHz)				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	16.95	16.99	16.90	20.2	0.0
Channel								
Frequency (MHz)				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	16.91	16.04	16.02	20.2	0.0
Channel								
Frequency (MHz)				3720.02	3840	3960.01	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	16.91	16.01	16.95	20.2	0.0
Channel								
Frequency (MHz)				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	16.99	16.08	16.99	20.2	0.0
Channel								
Frequency (MHz)				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	16.97	16.06	16.90	20.2	0.0
Channel								
Frequency (MHz)				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	16.86	16.09	16.92	20.2	0.0
Channel								
Frequency (MHz)				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	16.89	16.07	16.82	20.2	0.0

### Part27Q n77 Ant5 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)				3500.01				
100	PI2 BPSK	1	1	16.20				
100	PI2 BPSK	1	137	16.13			17.2	0.0
100	PI2 BPSK	1	271	16.10				
100	PI2 BPSK	135	0	16.11			17.2	0.0
100	PI2 BPSK	135	69	16.19			17.2	0.0
100	PI2 BPSK	135	138	16.09			17.2	0.0
100	PI2 BPSK	270	0	16.10				
100	QPSK	1	1	16.25				
100	QPSK	1	137	16.12			17.2	0.0
100	QPSK	1	271	16.23				
100	QPSK	135	0	16.04			17.2	0.0
100	QPSK	135	69	16.17			17.2	0.0
100	QPSK	135	138	16.10			17.2	0.0
100	QPSK	270	0	16.15				
100	16QAM	1	1	15.88			17.2	0.0
100	16QAM	1	1	15.96			17.2	0.0
100	256QAM	1	1	15.97			17.2	0.0
Channel								
Frequency (MHz)				638000	633334	638888	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	16.16	16.18	16.11	17.2	0.0
Channel								
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	16.12	16.21	16.19	17.2	0.0
Channel								
Frequency (MHz)				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	16.12	16.19	16.16	17.2	0.0
Channel								
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	16.13	16.18	16.12	17.2	0.0
Channel								
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	16.18	16.20	16.16	17.2	0.0
Channel								
Frequency (MHz)				3480	3500.01	3520.02	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	16.12	16.17	16.14	17.2	0.0
Channel								
Frequency (MHz)				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	16.13	16.18	16.10	17.2	0.0
Channel								
Frequency (MHz)				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	16.19	16.21	16.11	17.2	0.0
Channel								
Frequency (MHz)				630000	633334	636334	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	16.10	16.15	16.12	17.2	0.0
Channel								
Frequency (MHz)				630334	633334	636668	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	16.11	16.20	16.17	17.2	0.0



### Part27Q n77 PC2 Ant5 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)				3500.01				
100	PI2 BPSK	1	1	19.20	19.20	19.20		
100	PI2 BPSK	1	137	19.22	19.22	19.22	20.2	0.0
100	PI2 BPSK	1	271	19.08	19.08	19.08		
100	PI2 BPSK	135	0	19.00	19.00	19.00	20.2	0.0
100	PI2 BPSK	135	69	19.19	19.19	19.19	20.2	0.0
100	PI2 BPSK	135	138	19.10	19.10	19.10	20.2	0.0
100	PI2 BPSK	270	0	19.17	19.17	19.17		
100	QPSK	1	1	19.26	19.26	19.26		
100	QPSK	1	137	19.17	19.17	19.17	20.2	0.0
100	QPSK	1	271	19.25	19.25	19.25		
100	QPSK	135	0	19.04	19.04	19.04	20.2	0.0
100	QPSK	135	69	19.23	19.23	19.23	20.2	0.0
100	QPSK	135	138	19.16	19.16	19.16	20.2	0.0
100	QPSK	270	0	19.19	19.19	19.19		
100	16QAM	1	1	19.94	19.94	19.94	20.2	0.0
100	64QAM	1	1	19.00	19.00	19.00	20.2	0.0
100	256QAM	1	1	19.99	19.99	19.99	20.2	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	19.20	19.23	19.16	20.2	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3492.02	3500.01	3510.00		
80	QPSK	1	1	19.15	19.20	19.14	20.2	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	19.17	19.18	19.10	20.2	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	19.18	19.21	19.13	20.2	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	19.14	19.16	19.16	20.2	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	19.12	19.20	19.16	20.2	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	19.10	19.19	19.12	20.2	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	19.11	19.19	19.16	20.2	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3542.52		
15	QPSK	1	1	19.17	19.23	19.15	20.2	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	19.08	19.21	19.13	20.2	0.0

### Part27O n78 Ant5 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)				3750				
100	PI2 BPSK	1	1	15.92	15.92	15.92		
100	PI2 BPSK	1	137	15.77	15.77	15.77	17.2	0.0
100	PI2 BPSK	1	271	15.77	15.77	15.77		
100	PI2 BPSK	135	0	15.85	15.85	15.85	17.2	0.0
100	PI2 BPSK	135	69	15.85	15.85	15.85	17.2	0.0
100	PI2 BPSK	135	138	15.79	15.79	15.79	17.2	0.0
100	PI2 BPSK	270	0	15.79	15.79	15.79		
100	QPSK	1	1	15.97	15.97	15.97		
100	QPSK	1	137	15.87	15.87	15.87	17.2	0.0
100	QPSK	1	271	15.83	15.83	15.83		
100	QPSK	135	0	15.78	15.78	15.78	17.2	0.0
100	QPSK	135	69	15.85	15.85	15.85	17.2	0.0
100	QPSK	135	138	15.76	15.76	15.76	17.2	0.0
100	QPSK	270	0	15.80	15.80	15.80		
100	16QAM	1	1	15.69	15.69	15.69	17.2	0.0
100	64QAM	1	1	15.84	15.84	15.84	17.2	0.0
100	256QAM	1	1	15.74	15.74	15.74	17.2	0.0
Channel				640668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	15.88	15.93	15.84	17.2	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	15.83	15.91	15.80	17.2	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	15.80	15.88	15.84	17.2	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	15.76	15.81	15.70	17.2	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	15.68	15.82	15.72	17.2	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	15.70	15.74	15.78	17.2	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	15.69	15.85	15.70	17.2	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	15.70	15.79	15.72	17.2	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.51		
15	QPSK	1	1	15.71	15.80	15.75	17.2	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	QPSK	1	1	15.72	15.79	15.78	17.2	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	16.06	16.06	16.06		
100	PI2 BPSK	1	137	15.87	15.87	15.87	17.2	0.0
100	PI2 BPSK	1	271	16.07	16.07	16.07		
100	PI2 BPSK	135	0	15.76	15.76	15.76	17.2	0.0
100	PI2 BPSK	135	69	15.97	15.97	15.97	17.2	0.0
100	PI2 BPSK	135	138	15.87	15.87	15.87	17.2	0.0
100	PI2 BPSK	270	0	15.91	15.91	15.91		
100	QPSK	1	1	16.13	16.13	16.13		
100	QPSK	1	137	16.03	16.03	16.03	17.2	0.0
100	QPSK	1	271	15.93	15.93	15.93		
100	QPSK	135	0	15.91	15.91	15.91	17.2	0.0
100	QPSK	135	69	15.96	15.96	15.96	17.2	0.0
100	QPSK	135	138	15.87	15.87	15.87	17.2	0.0
100	QPSK	270	0	15.90	15.90	15.90		
100	16QAM	1	1	15.78	15.78	15.78	17.2	0.0
100	64QAM	1	1	15.76	15.76	15.76	17.2	0.0
100	256QAM	1	1	15.83	15.83	15.83	17.2	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	16.03	16.08	15.98	17.2	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3492.02	3500.01	3510.00		
80	QPSK	1	1	16.01	16.05	16.00	17.2	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	16.05	16.10	15.93	17.2	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	15.99	16.07	16.03	17.2	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	16.05	16.09	16.00	17.2	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	15.98	16.03	15.92	17.2	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	15.92	16.02	15.90	17.2	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	16.01	16.04	16.08	17.2	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	16.03	16.10	15.99	17.2	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	16.02	16.07	16.07	17.2	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	19.07	19.13	19.02		
100	PI2 BPSK	1	137	18.92	19.08	18.90	20.3	0.0
100	PI2 BPSK	1	271	18.71	18.97	18.72		
100	PI2 BPSK	135	0	18.89	19.04	18.74	20.3	0.0
100	PI2 BPSK	135	69	18.90	18.90	18.94	20.3	0.0
100	PI2 BPSK	135	138	18.96	18.88	18.99	20.3	0.0
100	PI2 BPSK	270	0	19.09	19.13	18.90		
100	QPSK	1	1	19.04	19.21	19.11		
100	QPSK	1	137	18.94	18.99	19.91	20.3	0.0
100	QPSK	1	271	18.93	19.01	18.90		
100	QPSK	135	0	18.98	18.91	18.73	20.3	0.0
100	QPSK	135	69	18.84	19.19	19.04	20.3	0.0
100	QPSK	135	138	18.95	18.79	18.86	20.3	0.0
100	QPSK	270	0	18.82	19.04	18.92		
100	16QAM	1	1	18.84	19.00	18.86	20.3	0.0
100	16QAM	1	1	18.89	19.01	18.71	20.3	0.0
100	256QAM	1	1	18.04	18.18	18.12	18.5	1.8
Channel								
Frequency (MHz)				5022.00	5189.98	5359.99	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	18.82	19.11	18.84	20.3	0.0
Channel								
Frequency (MHz)				5072.04	5189.98	5299.98	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	22.82	22.81	21.93	23.3	0.0
Channel								
Frequency (MHz)				5092.02	5189.98	5310.00	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	23.11	23.92	24.65	20.3	0.0
Channel								
Frequency (MHz)				5025.00	5189.98	5319.98	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	18.91	18.95	18.90	20.3	0.0
Channel								
Frequency (MHz)				5042.04	5189.98	5329.98	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	18.85	19.00	18.90	20.3	0.0
Channel								
Frequency (MHz)				5212.02	5292.99	2664.99	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	18.78	18.99	18.80	20.3	0.0
Channel								
Frequency (MHz)				5022.00	5189.98	5349.98	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	21.76	21.87	21.88	23.3	0.0
Channel								
Frequency (MHz)				5012.04	5189.98	5359.98	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	18.85	18.90	19.03	20.3	0.0

### n41 PC2 Ant7

BW (MHz)	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)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	22.08	22.01	21.94		
100	PI2 BPSK	1	137	21.89	22.06	21.83	23.3	0.0
100	PI2 BPSK	1	271	21.74	22.11	21.94		
100	PI2 BPSK	135	0	21.80	21.92	21.82	23.3	0.0
100	PI2 BPSK	135	69	21.98	22.05	21.96	23.3	0.0
100	PI2 BPSK	135	138	21.68	21.94	21.70	23.3	0.0
100	PI2 BPSK	270	0	21.89	21.91	21.71		
100	QPSK	1	1	21.97	22.24	22.03		
100	QPSK	1	137	22.06	22.02	22.00	23.3	0.0
100	QPSK	1	271	22.06	22.13	21.86		
100	QPSK	135	0	21.95	21.96	21.83	23.3	0.0
100	QPSK	135	69	22.06	22.11	21.88	23.3	0.0
100	QPSK	135	138	21.84	21.89	21.96	23.3	0.0
100	QPSK	270	0	21.85	21.95	21.78		
100	16QAM	1	1	21.86	21.96	21.97	23.3	0.0
100	16QAM	1	1	21.57	21.56	21.46	23.3	0.0
100	256QAM	1	1	20.13	20.19	20.07	21.5	1.8
Channel								
Frequency (MHz)				5092.00	5189.98	5329.99	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	21.70	22.10	21.78	23.3	0.0
Channel								
Frequency (MHz)				5072.04	5189.98	5299.98	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	21.82	22.81	21.93	23.3	0.0
Channel								
Frequency (MHz)				5092.02	5189.98	5310.00	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	23.11	23.92	24.65	20.3	0.0
Channel								
Frequency (MHz)				5025.00	5189.98	5319.98	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	21.80	22.15	21.88	23.3	0.0
Channel								
Frequency (MHz)				5042.04	5189.98	5329.98	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	21.72	22.01	21.77	23.3	0.0
Channel								
Frequency (MHz)				5212.02	5292.99	2664.99	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	21.67	21.96	21.82	23.3	0.0
Channel								
Frequency (MHz)				5022.00	5189.98	5349.98	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	21.76	21.87	21.88	23.3	0.0
Channel								
Frequency (MHz)				5012.04	5189.98	5359.98	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	21.83	22.05	21.76	23.3	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	17.71	17.76	17.85		
100	PI2 BPSK	1	137	17.53	17.53	17.51	19.5	0.0
100	PI2 BPSK	1	271	17.55	17.59	17.61		
100	PI2 BPSK	135	0	17.55	17.52	17.57	19.5	0.0
100	PI2 BPSK	135	69	17.58	17.68	17.60	19.5	0.0
100	PI2 BPSK	135	138	17.58	17.61	17.62	19.5	0.0
100	PI2 BPSK	270	0	17.51	17.57	17.55		
100	QPSK	1	1	17.63	17.78	17.72		
100	QPSK	1	137	17.59	17.67	17.59	19.5	0.0
100	QPSK	1	271	17.61	17.65	17.57		
100	QPSK	135	0	17.53	17.58	17.59	19.5	0.0
100	QPSK	135	69	17.67	17.71	17.68	19.5	0.0
100	QPSK	135	138	17.52	17.53	17.69	19.5	0.0
100	QPSK	270	0	17.58	17.68	17.57		
100	16QAM	1	1	17.53	17.54	17.53	19.5	0.0
100	16QAM	1	1	17.54	17.59	17.53	19.5	0.0
100	256QAM	1	1	17.75	17.74	17.70	19.5	0.0
Channel								
Frequency (MHz)				6490.00	6590.00	6690.00	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	17.59	17.58	17.51	19.5	0.0
Channel								
Frequency (MHz)				6493.34	6590.00	6626.68	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	17.55	17.55	17.51	19.5	0.0
Channel								
Frequency (MHz)				6490.00	6590.00	6630.00	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	17.58	17.58	17.54	19.5	0.0
Channel								
Frequency (MHz)				6486.68	6590.00	6633.34	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	17.57	17.58	17.52	19.5	0.0
Channel								
Frequency (MHz)				6483.34	6590.00	6636.68	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	17.55	17.55	17.57	19.5	0.0
Channel								
Frequency (MHz)				6490.00	6590.00	6640.00	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	17.59	17.59	17.55	19.5	0.0
Channel								
Frequency (MHz)				6476.68	6590.00	6643.34	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	17.53	17.52	17.57	19.5	0.0
Channel								
Frequency (MHz)				6473.34	6590.00	6646.68	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	17.51	17.57	17.58	19.5	0.0
Channel								
Frequency (MHz)				6471.68	6590.00	6646.68	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	17.52	17.51	17.57	19.5	0.0
Channel								
Frequency (MHz)				6470.00	6590.00	6650.00	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	17.59	17.58	17.55	19.5	0.0



### Part270 n77 PC2 Ant7 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)				3750	3840	3930		
100	PI2 BPSK	1	1	20.06	20.70	20.61		
100	PI2 BPSK	1	137	20.52	20.51	20.55		0.0
100	PI2 BPSK	1	271	20.56	20.62	20.55		
100	PI2 BPSK	135	0	20.56	20.53	20.57	22.5	0.0
100	PI2 BPSK	135	69	20.54	20.74	20.59	22.5	0.0
100	PI2 BPSK	135	138	20.55	20.65	20.55	22.5	0.0
100	PI2 BPSK	270	0	20.51	20.55	20.59		
100	QPSK	1	1	20.65	20.77	20.68		
100	QPSK	1	137	20.61	20.71	20.58	22.5	0.0
100	QPSK	1	271	20.57	20.65	20.62		
100	QPSK	135	0	20.52	20.65	20.59	22.5	0.0
100	QPSK	135	69	20.68	20.73	20.65	22.5	0.0
100	QPSK	135	138	20.53	20.56	20.55	22.5	0.0
100	QPSK	270	0	20.56	20.62	20.60		
100	16QAM	1	1	20.58	20.54	20.54	22.5	0.0
100	16QAM	1	1	20.55	20.56	20.53	22.5	0.0
100	256QAM	1	1	20.58	20.55	20.58	22.5	0.0
Channel								
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	20.59	20.54	20.52	22.5	0.0
Channel								
Frequency (MHz)				649334	65000	649668		
80	QPSK	1	1	20.55	20.69	20.52	22.5	0.0
Channel								
Frequency (MHz)				649000	65000	649000		
70	QPSK	1	1	20.56	20.51	20.52	22.5	0.0
Channel								
Frequency (MHz)				648668	65000	648334		
60	QPSK	1	1	20.51	20.52	20.59	22.5	0.0
Channel								
Frequency (MHz)				648334	65000	648668		
50	QPSK	1	1	20.53	20.53	20.55	22.5	0.0
Channel								
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	20.59	20.51	20.54	22.5	0.0
Channel								
Frequency (MHz)				647668	65000	648334		
30	QPSK	1	1	20.57	20.53	20.59	22.5	0.0
Channel								
Frequency (MHz)				647334	65000	646668		
20	QPSK	1	1	20.55	20.56	20.55	22.5	0.0
Channel								
Frequency (MHz)				647168	65000	648334		
15	QPSK	1	1	20.52	20.58	20.53	22.5	0.0
Channel								
Frequency (MHz)				647000	65000	648000		
10	QPSK	1	1	20.57	20.58	20.59	22.5	0.0

### Part27Q n77 Ant7 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)				3500.01				
100	PI2 BPSK	1	1	18.17	18.17	18.17		
100	PI2 BPSK	1	137	18.10	18.10	18.10	19.5	0.0
100	PI2 BPSK	1	271	18.05	18.05	18.05		
100	PI2 BPSK	135	0	18.06	18.06	18.06	19.5	0.0
100	PI2 BPSK	135	69	18.14	18.14	18.14	19.5	0.0
100	PI2 BPSK	135	138	18.01	18.01	18.01	19.5	0.0
100	PI2 BPSK	270	0	18.03	18.03	18.03		
100	QPSK	1	1	18.21	18.21	18.21		
100	QPSK	1	137	18.17	18.17	18.17	19.5	0.0
100	QPSK	1	271	18.12	18.12	18.12		
100	QPSK	135	0	17.99	17.99	17.99	19.5	0.0
100	QPSK	135	69	18.12	18.12	18.12	19.5	0.0
100	QPSK	135	138	17.98	17.98	17.98	19.5	0.0
100	QPSK	270	0	18.06	18.06	18.06		
100	16QAM	1	1	17.84	17.84	17.84	19.5	0.0
100	16QAM	1	1	17.85	17.85	17.85	19.5	0.0
100	256QAM	1	1	17.86	17.86	17.86	19.5	0.0
Channel								
Frequency (MHz)				633000	633334	633668		
90	QPSK	1	1	18.06	18.06	17.95	19.5	0.0
Channel								
Frequency (MHz)				632668	633334	634000		
80	QPSK	1	1	17.95	18.01	17.90	19.5	0.0
Channel								
Frequency (MHz)				632334	633334	634334		
70	QPSK	1	1	18.00	18.01	18.03	19.5	0.0
Channel								
Frequency (MHz)				632000	633334	634668		
60	QPSK	1	1	17.99	18.00	17.98	19.5	0.0
Channel								
Frequency (MHz)				631668	633334	635000		
50	QPSK	1	1	18.03	17.99	17.95	19.5	0.0
Channel								
Frequency (MHz)				631334	633334	633334		
40	QPSK	1	1	17.99	18.06	17.94	19.5	0.0
Channel								
Frequency (MHz)				631000	633334	633668		
30	QPSK	1	1	17.98	18.00	17.92	19.5	0.0
Channel								
Frequency (MHz)				630668	633334	633000		
20	QPSK	1	1	17.97	18.05	17.99	19.5	0.0
Channel								
Frequency (MHz)				630300	633334	633168		
15	QPSK	1	1	17.97	17.97	18.01	19.5	0.0
Channel								
Frequency (MHz)				630334	633334	633334		
10	QPSK	1	1	18.00	17.98	17.98	19.5	0.0

### Part27Q n77 PC2 Ant7 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)				3500.01				
100	PI2 BPSK	1	1	21.18	21.18	21.18		
100	PI2 BPSK	1	137	21.14	21.14	21.14	22.5	0.0
100	PI2 BPSK	1	271	21.11	21.11	21.11		
100	PI2 BPSK	135	0	21.04	21.04	21.04	22.5	0.0
100	PI2 BPSK	135	69	21.14	21.14	21.14	22.5	0.0
100	PI2 BPSK	135	138	21.00	21.00	21.00	22.5	0.0
100	PI2 BPSK	270	0	21.09	21.09	21.09		
100	QPSK	1	1	21.23	21.23	21.23		
100	QPSK	1	137	21.20	21.20	21.20	22.5	0.0
100	QPSK	1	271	21.18	21.18	21.18		
100	QPSK	135	0	20.98	20.98	20.98	22.5	0.0
100	QPSK	135	69	21.15	21.15	21.15	22.5	0.0
100	QPSK	135	138	21.00	21.00	21.00	22.5	0.0
100	QPSK	270	0	21.05	21.05	21.05		
100	16QAM	1	1	20.87	20.87	20.87	22.5	0.0
100	16QAM	1	1	20.85	20.85	20.85	22.5	0.0
100	256QAM	1	1	20.86	20.86	20.86	22.5	0.0
Channel								
Frequency (MHz)				633000	633334	633668		
90	QPSK	1	1	21.03	20.99	20.91	22.5	0.0
Channel								
Frequency (MHz)				632668	633334	634000		
80	QPSK	1	1	21.01	21.07	20.95	22.5	0.0
Channel								
Frequency (MHz)				632334	633334	634334		
70	QPSK	1	1	21.04	21.04	20.93	22.5	0.0
Channel								
Frequency (MHz)				632000	633334	634668		
60	QPSK	1	1	20.98	21.00	20.96	22.5	0.0
Channel								
Frequency (MHz)				631668	633334	635000		
50	QPSK	1	1	20.97	21.01	20.95	22.5	0.0
Channel								
Frequency (MHz)				631334	633334	633334		
40	QPSK	1	1	20.98	21.04	20.99	22.5	0.0
Channel								
Frequency (MHz)				631000	633334	633668		
30	QPSK	1	1	21.02	20.98	20.94	22.5	0.0
Channel								
Frequency (MHz)				630668	633334	633000		
20	QPSK	1	1	20.97	20.98	20.90	22.5	0.0
Channel								
Frequency (MHz)				630300	633334	633168		
15	QPSK	1	1	21.02	21.01	20.90	22.5	0.0
Channel								
Frequency (MHz)				630334	633334	633334		
10	QPSK	1	1	20.97	21.01	21.00	22.5	0.0



Part27O n78 Ant7 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137		17.94				0.0
100	PI2 BPSK	1	271		17.81				
100	PI2 BPSK	135	0		17.85		19.5	0.0	
100	PI2 BPSK	135	69		17.94		19.5	0.0	
100	PI2 BPSK	135	138		17.85		19.5	0.0	
100	PI2 BPSK	270	0		17.90		19.5	0.0	
100	QPSK	1	1		18.07		19.5	0.0	
100	QPSK	1	137		17.93		19.5	0.0	
100	QPSK	1	271		17.98		19.5	0.0	
100	QPSK	135	0		17.74		19.5	0.0	
100	QPSK	135	69		17.94		19.5	0.0	
100	QPSK	135	138		17.78		19.5	0.0	
100	QPSK	270	0		17.83		19.5	0.0	
100	16QAM	1	1		17.79		19.5	0.0	
100	64QAM	1	1		17.73		19.5	0.0	
100	256QAM	1	1		17.70		19.5	0.0	
Channel									
Frequency (MHz)									
648668				650000	650334		Tune-up limit (dBm)	MPR (dB)	
3745.02				3750	3755.01		19.5	0.0	
90	QPSK	1	1	17.95	17.99	17.92	19.5	0.0	
Channel									
Frequency (MHz)									
649334				650000	650668		Tune-up limit (dBm)	MPR (dB)	
3740.01				3750	3769.02		19.5	0.0	
80	QPSK	1	1	17.95	18.00	17.93	19.5	0.0	
Channel									
Frequency (MHz)									
649000				650000	651000		Tune-up limit (dBm)	MPR (dB)	
3735				3750	3765		19.5	0.0	
70	QPSK	1	1	17.97	18.00	17.90	19.5	0.0	
Channel									
Frequency (MHz)									
648668				650000	651334		Tune-up limit (dBm)	MPR (dB)	
3730.02				3750	3770.01		19.5	0.0	
60	QPSK	1	1	17.96	17.92	17.89	19.5	0.0	
Channel									
Frequency (MHz)									
648334				650000	651668		Tune-up limit (dBm)	MPR (dB)	
3725.01				3750	3775.02		19.5	0.0	
50	QPSK	1	1	17.89	17.93	17.87	19.5	0.0	
Channel									
Frequency (MHz)									
648000				650000	652000		Tune-up limit (dBm)	MPR (dB)	
3720				3750	3780		19.5	0.0	
40	QPSK	1	1	18.00	17.97	17.86	19.5	0.0	
Channel									
Frequency (MHz)									
647668				650000	652334		Tune-up limit (dBm)	MPR (dB)	
3715.02				3750	3785.01		19.5	0.0	
30	QPSK	1	1	17.94	18.02	17.89	19.5	0.0	
Channel									
Frequency (MHz)									
647334				650000	652668		Tune-up limit (dBm)	MPR (dB)	
3710.01				3750	3790.02		19.5	0.0	
20	QPSK	1	1	17.90	18.02	17.93	19.5	0.0	
Channel									
Frequency (MHz)									
647168				650000	652934		Tune-up limit (dBm)	MPR (dB)	
3707.53				3750	3792.51		19.5	0.0	
15	QPSK	1	1	17.94	18.00	17.88	19.5	0.0	
Channel									
Frequency (MHz)									
647000				650000	653000		Tune-up limit (dBm)	MPR (dB)	
3705				3750	3795		19.5	0.0	
10	QPSK	1	1	17.88	17.96	17.86	19.5	0.0	

Part27Q n78 Ant7 DSI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 630000	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq. 633334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3500.01				
100	PI2 BPSK	1	137		18.10				
100	PI2 BPSK	1	271		18.00				0.0
100	PI2 BPSK	135	0		17.89		19.5	0.0	
100	PI2 BPSK	135	69		17.99		19.5	0.0	
100	PI2 BPSK	135	138		18.02		19.5	0.0	
100	PI2 BPSK	270	0		17.95		19.5	0.0	
100	QPSK	1	1		18.16		19.5	0.0	
100	QPSK	1	137		18.01		19.5	0.0	
100	QPSK	1	271		18.08		19.5	0.0	
100	QPSK	135	0		18.01		19.5	0.0	
100	QPSK	135	69		18.05		19.5	0.0	
100	QPSK	135	138		17.93		19.5	0.0	
100	QPSK	270	0		18.00		19.5	0.0	
100	16QAM	1	1		17.93		19.5	0.0	
100	64QAM	1	1		17.90		19.5	0.0	
100	256QAM	1	1		17.88		19.5	0.0	
Channel									
Frequency (MHz)									
633000				633334	633668		Tune-up limit (dBm)	MPR (dB)	
3495				3500.01	3505.02		19.5	0.0	
90	QPSK	1	1	17.94	18.00	17.98	19.5	0.0	
Channel									
Frequency (MHz)									
632668				633334	634000		Tune-up limit (dBm)	MPR (dB)	
3490.02				3500.01	3510		19.5	0.0	
80	QPSK	1	1	18.02	18.01	17.91	19.5	0.0	
Channel									
Frequency (MHz)									
632334				633334	634334		Tune-up limit (dBm)	MPR (dB)	
3485.01				3500.01	3515.01		19.5	0.0	
70	QPSK	1	1	18.00	18.00	17.90	19.5	0.0	
Channel									
Frequency (MHz)									
632000				633334	634668		Tune-up limit (dBm)	MPR (dB)	
3480				3500.01	3520.02		19.5	0.0	
60	QPSK	1	1	17.99	17.99	17.97	19.5	0.0	
Channel									
Frequency (MHz)									
631668				633334	635000		Tune-up limit (dBm)	MPR (dB)	
3475.02				3500.01	3525		19.5	0.0	
50	QPSK	1	1	18.01	18.04	17.94	19.5	0.0	
Channel									
Frequency (MHz)									
631334				633334	635334		Tune-up limit (dBm)	MPR (dB)	
3470.01				3500.01	3530.01		19.5	0.0	
40	QPSK	1	1	17.94	18.04	17.98	19.5	0.0	
Channel									
Frequency (MHz)									
631000				633334	635668		Tune-up limit (dBm)	MPR (dB)	
3465				3500.01	3535.02		19.5	0.0	
30	QPSK	1	1	17.94	18.05	17.92	19.5	0.0	
Channel									
Frequency (MHz)									
630668				633334	636000		Tune-up limit (dBm)	MPR (dB)	
3460.02				3500.01	3540		19.5	0.0	
20	QPSK	1	1	18.05	18.03	17.94	19.5	0.0	
Channel									
Frequency (MHz)									
630500				633334	636368		Tune-up limit (dBm)	MPR (dB)	
3457.5				3500.01	3542.52		19.5	0.0	
15	QPSK	1	1	17.96	18.00	17.95	19.5	0.0	
Channel									
Frequency (MHz)									
630334				633334	636334		Tune-up limit (dBm)	MPR (dB)	
3455.01				3500.01	3545.01		19.5	0.0	
10	QPSK	1	1	18.03	18.02	17.98	19.5	0.0	



Reduced Power Mode for DSI 4

Part270 n77 Ant4 Sensor off DSI4

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 650000	Middle Ch. / Freq. 650000	High Ch. / Freq. 662000		
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.58	19.84	19.53		
100	PI2 BPSK	1	137	19.52	19.60	19.54	20.7	0.0
100	PI2 BPSK	1	271	19.51	19.59	19.50		
100	PI2 BPSK	135	0	19.55	19.60	19.46	20.7	0.0
100	PI2 BPSK	135	69	19.40	19.46	19.37	20.7	0.0
100	PI2 BPSK	135	138	19.48	19.51	19.44	20.7	0.0
100	PI2 BPSK	270	0	19.54	19.59	19.45		
100	QPSK	1	1	19.63	19.67	19.59		
100	QPSK	1	137	19.44	19.58	19.53	20.7	0.0
100	QPSK	1	271	19.32	19.46	19.41		
100	QPSK	135	0	19.48	19.54	19.42	20.7	0.0
100	QPSK	135	69	19.43	19.56	19.47	20.7	0.0
100	QPSK	135	138	19.30	19.44	19.31	20.7	0.0
100	QPSK	270	0	19.37	19.47	19.36		
100	16QAM	1	1	19.42	19.50	19.38	20.7	0.0
100	64QAM	1	1	19.27	19.40	19.35	20.7	0.0
100	256QAM	1	1	18.98	19.03	18.93	20.0	0.7
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.55	19.59	19.51	20.7	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.53	19.61	19.47	20.7	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.56	19.56	19.48	20.7	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.51	19.59	19.50	20.7	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.49	19.61	19.45	20.7	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.49	19.60	19.46	20.7	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.48	19.58	19.45	20.7	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.48	19.60	19.46	20.7	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.52	19.55	19.50	20.7	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.57	19.56	19.54	20.7	0.0

Part270 n77 PC2 Ant4 Sensor off DSI4

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 650000	Middle Ch. / Freq. 650000	High Ch. / Freq. 662000		
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.80	22.82	22.59		
100	PI2 BPSK	1	137	22.54	22.61	22.58	23.7	0.0
100	PI2 BPSK	1	271	22.48	22.64	22.57		
100	PI2 BPSK	135	0	22.58	22.80	22.43	23.7	0.0
100	PI2 BPSK	135	69	22.47	22.46	22.36	23.7	0.0
100	PI2 BPSK	135	138	22.55	22.54	22.51	23.7	0.0
100	PI2 BPSK	270	0	22.53	22.57	22.49		
100	QPSK	1	1	22.61	22.67	22.59		
100	QPSK	1	137	22.44	22.58	22.59	23.7	0.0
100	QPSK	1	271	22.28	22.41	22.37		
100	QPSK	135	0	22.54	22.60	22.40	23.7	0.0
100	QPSK	135	69	22.43	22.53	22.48	23.7	0.0
100	QPSK	135	138	22.35	22.44	22.37	23.7	0.0
100	QPSK	270	0	22.43	22.53	22.38		
100	16QAM	1	1	22.45	22.55	22.34	23.7	0.0
100	64QAM	1	1	22.31	22.36	22.35	23.7	0.0
100	256QAM	1	1	21.21	21.26	21.22	22.5	1.2
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.57	22.63	22.49	23.7	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.49	22.56	22.50	23.7	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.47	22.54	22.47	23.7	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.58	22.80	22.50	23.7	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.46	22.54	22.54	23.7	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.58	22.61	22.51	23.7	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.48	22.62	22.45	23.7	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.50	22.52	22.52	23.7	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.53	22.83	22.44	23.7	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.54	22.60	22.51	23.7	0.0

Part27Q n77 Ant4 Sensor off DSI4

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq. 633000	Middle Ch. / Freq. 633334	High Ch. / Freq. 633668		
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.57	19.57	19.57		
100	PI2 BPSK	1	137	19.51	19.51	19.51	20.7	0.0
100	PI2 BPSK	1	271	19.45	19.45	19.45		
100	PI2 BPSK	135	0	19.55	19.55	19.45	20.7	0.0
100	PI2 BPSK	135	69	19.40	19.40	19.40	20.7	0.0
100	PI2 BPSK	135	138	19.48	19.48	19.48	20.7	0.0
100	PI2 BPSK	270	0	19.53	19.53	19.53		
100	QPSK	1	1	19.58	19.58	19.58		
100	QPSK	1	137	19.53	19.53	19.53	20.7	0.0
100	QPSK	1	271	19.35	19.35	19.35		
100	QPSK	135	0	19.38	19.38	19.38	20.7	0.0
100	QPSK	135	69	19.48	19.48	19.48	20.7	0.0
100	QPSK	135	138	19.30	19.30	19.30	20.7	0.0
100	QPSK	270	0	19.38	19.38	19.38		
100	16QAM	1	1	19.37	19.37	19.37	20.7	0.0
100	64QAM	1	1	19.05	19.05	19.05	20.7	0.0
100	256QAM	1	1	18.05	18.05	18.05	19.5	1.2
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.51	19.55	19.52	20.7	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.48	19.52	19.52	20.7	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.54	19.47	19.46	20.7	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.54	19.49	19.46	20.7	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.51	19.44	19.45	20.7	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.47	19.47	19.51	20.7	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.45	19.47	19.49	20.7	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.44	19.50	19.47	20.7	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.49	19.55	19.49	20.7	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.52	19.52	19.48	20.7	0.0



### Part27Q n77 PC2 Ant4 Sensor off DSI4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	22.54	3500.01	633334		
100	Pi2 BPSK	1	137	22.52	3500.01	633334	23.7	0.0
100	Pi2 BPSK	1	271	22.52	3500.01	633334		
100	Pi2 BPSK	135	0	22.54	3500.01	633334	23.7	0.0
100	Pi2 BPSK	135	69	22.41	3500.01	633334	23.7	0.0
100	Pi2 BPSK	135	138	22.46	3500.01	633334	23.7	0.0
100	Pi2 BPSK	270	0	22.49	3500.01	633334	23.7	0.0
100	QPSK	1	1	22.59	3500.01	633334		
100	QPSK	1	137	22.47	3500.01	633334	23.7	0.0
100	QPSK	1	271	22.49	3500.01	633334		
100	QPSK	135	0	22.37	3500.01	633334	23.7	0.0
100	QPSK	135	69	22.47	3500.01	633334	23.7	0.0
100	QPSK	135	138	22.37	3500.01	633334	23.7	0.0
100	QPSK	270	0	22.43	3500.01	633334	23.7	0.0
100	16QAM	1	1	22.49	3500.01	633334	23.7	0.0
100	64QAM	1	1	22.30	3500.01	633334	23.7	0.0
100	256QAM	1	1	21.82	3500.01	633334	22.5	1.2
Channel								
Frequency (MHz)								
90	QPSK	1	1	3485	3500.01	3500.02	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.47	22.44	22.48	23.7	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.50	22.53	22.54	23.7	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.48	22.54	22.52	23.7	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.53	22.53	22.50	23.7	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.48	22.51	22.49	23.7	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.55	22.55	22.55	23.7	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.50	22.47	22.50	23.7	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.53	22.50	22.49	23.7	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.48	22.46	22.45	23.7	0.0

### Part27Q n78 Ant4 Sensor off DSI4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	19.61	3750	3750		
100	Pi2 BPSK	1	137	19.49	3750	3750	20.7	0.0
100	Pi2 BPSK	1	271	19.44	3750	3750		
100	Pi2 BPSK	135	0	19.52	3750	3750	20.7	0.0
100	Pi2 BPSK	135	69	19.41	3750	3750	20.7	0.0
100	Pi2 BPSK	135	138	19.40	3750	3750	20.7	0.0
100	Pi2 BPSK	270	0	19.52	3750	3750	20.7	0.0
100	QPSK	1	1	19.64	3750	3750		
100	QPSK	1	137	19.51	3750	3750	20.7	0.0
100	QPSK	1	271	19.38	3750	3750		
100	QPSK	135	0	19.51	3750	3750	20.7	0.0
100	QPSK	135	69	19.53	3750	3750	20.7	0.0
100	QPSK	135	138	19.33	3750	3750	20.7	0.0
100	QPSK	270	0	19.42	3750	3750	20.7	0.0
100	16QAM	1	1	19.38	3750	3750	20.7	0.0
100	64QAM	1	1	19.33	3750	3750	20.7	0.0
100	256QAM	1	1	18.96	3750	3750	20.0	0.7
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.58	65000	65000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.59	19.58	19.54	20.7	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.80	19.59	19.51	20.7	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.58	19.55	19.59	20.7	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.51	19.56	19.55	20.7	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.58	19.58	19.59	20.7	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.54	19.51	19.51	20.7	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.54	19.57	19.53	20.7	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.55	19.58	19.55	20.7	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.54	19.52	19.61	20.7	0.0

### Part27Q n78 Ant4 Sensor off DSI4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	19.71	3500.01	633334		
100	Pi2 BPSK	1	137	19.59	3500.01	633334	20.7	0.0
100	Pi2 BPSK	1	271	19.49	3500.01	633334		
100	Pi2 BPSK	135	0	19.67	3500.01	633334	20.7	0.0
100	Pi2 BPSK	135	69	19.47	3500.01	633334	20.7	0.0
100	Pi2 BPSK	135	138	19.48	3500.01	633334	20.7	0.0
100	Pi2 BPSK	270	0	19.67	3500.01	633334	20.7	0.0
100	QPSK	1	1	19.90	3500.01	633334		
100	QPSK	1	137	19.64	3500.01	633334	20.7	0.0
100	QPSK	1	271	19.50	3500.01	633334		
100	QPSK	135	0	19.83	3500.01	633334	20.7	0.0
100	QPSK	135	69	19.66	3500.01	633334	20.7	0.0
100	QPSK	135	138	19.44	3500.01	633334	20.7	0.0
100	QPSK	270	0	19.54	3500.01	633334	20.7	0.0
100	16QAM	1	1	19.50	3500.01	633334	20.7	0.0
100	64QAM	1	1	19.41	3500.01	633334	20.7	0.0
100	256QAM	1	1	19.19	3500.01	633334	20.0	0.7
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.70	3485	3500.01	19.67	20.7
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.72	19.76	19.75	20.7	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.67	19.70	19.72	20.7	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.77	19.76	19.70	20.7	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.69	19.77	19.73	20.7	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.73	19.67	19.72	20.7	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.67	19.72	19.76	20.7	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.89	19.76	19.65	20.7	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.67	19.65	19.68	20.7	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.70	19.70	19.70	20.7	0.0





### n41 Ant7 Sensor off DSI4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	19.07	19.13	19.21		
100	PI2 BPSK	1	137	18.92	19.08	19.90		0.0
100	PI2 BPSK	1	271	18.71	18.97	18.72		
100	PI2 BPSK	135	0	18.89	19.04	18.74	20.3	0.0
100	PI2 BPSK	135	69	18.90	18.90	18.94	20.3	0.0
100	PI2 BPSK	135	138	18.96	18.88	18.99	20.3	0.0
100	PI2 BPSK	270	0	19.09	18.13	18.90		
100	QPSK	1	1	19.04	19.21	19.11		
100	QPSK	1	137	18.94	18.99	18.91	20.3	0.0
100	QPSK	1	271	18.93	19.01	18.90		
100	QPSK	135	0	18.98	18.91	18.73	20.3	0.0
100	QPSK	135	69	18.84	18.19	19.04	20.3	0.0
100	QPSK	135	138	18.95	18.79	18.88	20.3	0.0
100	QPSK	270	0	18.82	18.04	18.82		
100	16QAM	1	1	18.84	19.00	18.86	20.3	0.0
100	16QAM	1	1	18.89	19.01	18.71	20.3	0.0
100	256QAM	1	1	18.04	18.18	18.12	18.5	1.8
Channel								
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	18.82	19.11	18.84	20.3	0.0
Channel								
Frequency (MHz)				507204	518598	529998		
80	QPSK	1	1	2536.02	2592.99	2649.99		
Channel								
Frequency (MHz)				505202	518598	531000		
70	QPSK	1	1	2531.01	2592.99	2655		
Channel								
Frequency (MHz)				505200	518598	531998		
60	QPSK	1	1	18.91	18.95	18.90	20.3	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	2521.02	2592.99	2664.99		
Channel								
Frequency (MHz)				2518.01	2592.99	2670		
40	QPSK	1	1	18.78	18.99	18.80	20.3	0.0
Channel								
Frequency (MHz)				502200	518598	534998		
30	QPSK	1	1	2511	2592.99	2674.98		
Channel								
Frequency (MHz)				501204	518598	535998		
20	QPSK	1	1	2506.02	2592.99	2679.99		
Channel								
Frequency (MHz)				18.95	18.90	19.03	20.3	0.0

### n41 PC2 Ant7 Sensor off DSI4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	22.08	22.01	21.94		
100	PI2 BPSK	1	137	21.89	22.06	21.83	23.3	0.0
100	PI2 BPSK	1	271	21.74	22.11	21.94		
100	PI2 BPSK	135	0	21.80	21.82	21.82	23.3	0.0
100	PI2 BPSK	135	69	21.98	22.05	21.96	23.3	0.0
100	PI2 BPSK	135	138	21.68	21.94	21.70	23.3	0.0
100	PI2 BPSK	270	0	21.89	21.91	21.71		
100	QPSK	1	1	21.97	22.24	22.03		
100	QPSK	1	137	22.06	22.02	22.00	23.3	0.0
100	QPSK	1	271	22.06	22.13	21.86		
100	QPSK	135	0	21.95	21.96	21.83	23.3	0.0
100	QPSK	135	69	22.06	22.11	21.98	23.3	0.0
100	QPSK	135	138	21.84	21.89	21.96	23.3	0.0
100	QPSK	270	0	21.86	21.96	21.79		
100	16QAM	1	1	21.86	21.96	21.97	23.3	0.0
100	16QAM	1	1	21.57	21.56	21.46	23.3	0.0
100	256QAM	1	1	20.13	20.19	20.07	21.5	1.8
Channel								
Frequency (MHz)				503200	518598	539998		
90	QPSK	1	1	21.70	22.10	21.78	23.3	0.0
Channel								
Frequency (MHz)				507204	518598	529998		
80	QPSK	1	1	21.82	22.11	21.93	23.3	0.0
Channel								
Frequency (MHz)				505202	518598	531000		
70	QPSK	1	1	21.85	22.03	21.92	23.3	0.0
Channel								
Frequency (MHz)				505200	518598	531998		
60	QPSK	1	1	21.80	22.15	21.88	23.3	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	21.73	22.01	21.77	23.3	0.0
Channel								
Frequency (MHz)				503202	518598	534000		
40	QPSK	1	1	21.67	21.96	21.82	23.3	0.0
Channel								
Frequency (MHz)				502200	518598	534998		
30	QPSK	1	1	21.78	21.97	21.85	23.3	0.0
Channel								
Frequency (MHz)				501204	518598	535998		
20	QPSK	1	1	21.83	22.05	21.76	23.3	0.0

### Part270 n77 Ant7 Sensor off DSI4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3760	3840	3930		
100	PI2 BPSK	1	1	18.36	18.44	18.41		
100	PI2 BPSK	1	137	18.31	18.35	18.31	20.3	0.0
100	PI2 BPSK	1	271	18.39	18.34	18.33		
100	PI2 BPSK	135	0	18.39	18.32	18.32	20.3	0.0
100	PI2 BPSK	135	69	18.32	18.35	18.39	20.3	0.0
100	PI2 BPSK	135	138	18.38	18.39	18.32	20.3	0.0
100	PI2 BPSK	270	0	18.37	18.33	18.36		
100	QPSK	1	1	18.49	18.52	18.45		
100	QPSK	1	137	18.32	18.35	18.33	20.3	0.0
100	QPSK	1	271	18.34	18.40	18.32		
100	QPSK	135	0	18.38	18.38	18.34	20.3	0.0
100	QPSK	135	69	18.38	18.39	18.38	20.3	0.0
100	QPSK	135	138	18.34	18.36	18.31	20.3	0.0
100	QPSK	270	0	18.35	18.36	18.33		
100	16QAM	1	1	18.32	18.39	18.32	20.3	0.0
100	16QAM	1	1	18.32	18.35	18.36	20.3	0.0
100	256QAM	1	1	17.95	18.08	17.93	19.5	0.8
Channel								
Frequency (MHz)				3765.02	3840	3935.01		
90	QPSK	1	1	18.35	18.41	18.33	20.3	0.0
Channel								
Frequency (MHz)				649334	656000	662668		
80	QPSK	1	1	3740.01	3840	3940.02		
Channel								
Frequency (MHz)				649000	656000	663000		
70	QPSK	1	1	18.34	18.33	18.33	20.3	0.0
Channel								
Frequency (MHz)				648668	656000	663334		
60	QPSK	1	1	18.36	18.36	18.36	20.3	0.0
Channel								
Frequency (MHz)				648334	656000	663668		
50	QPSK	1	1	3735.01	3840	3955.02		
Channel								
Frequency (MHz)				647998	656000	664000		
40	QPSK	1	1	18.39	18.37	18.34	20.3	0.0
Channel								
Frequency (MHz)				647668	656000	664334		
30	QPSK	1	1	18.33	18.39	18.34	20.3	0.0
Channel								
Frequency (MHz)				647334	656000	664668		
20	QPSK	1	1	18.33	18.31	18.36	20.3	0.0
Channel								
Frequency (MHz)				647188	656000	664834		
15	QPSK	1	1	18.39	18.36	18.36	20.3	0.0
Channel								
Frequency (MHz)				647000	656000	665000		
10	QPSK	1	1	18.39	18.32	18.37	20.3	0.0



Part270 n77 PC2 Ant7 Sensor off DS14									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3840	3930			
Frequency (MHz)									
100	PI2 BPSK	1	1	21.37	21.43	21.34			
100	PI2 BPSK	1	137	21.39	21.39	21.31		0.0	
100	PI2 BPSK	1	271	21.38	21.38	21.35		23.3	0.0
100	PI2 BPSK	135	0	21.38	21.34	21.32		23.3	0.0
100	PI2 BPSK	135	69	21.38	21.41	21.40		23.3	0.0
100	PI2 BPSK	135	138	21.40	21.38	21.33		23.3	0.0
100	PI2 BPSK	270	0	21.34	21.40	21.37		23.3	0.0
100	QPSK	1	1	21.40	21.38	21.47			
100	QPSK	1	137	21.39	21.38	21.31		23.3	0.0
100	QPSK	1	271	21.33	21.44	21.33			
100	QPSK	135	0	21.37	21.37	21.37		23.3	0.0
100	QPSK	135	69	21.31	21.46	21.45		23.3	0.0
100	QPSK	135	138	21.36	21.39	21.38		23.3	0.0
100	QPSK	270	0	21.33	21.42	21.34		23.3	0.0
100	16QAM	1	1	21.33	21.33	21.35		23.3	0.0
100	16QAM	1	1	21.33	21.39	21.31		23.3	0.0
100	256QAM	1	1	20.89	20.95	20.92	22.5	0.8	
Channel				649998	650000	650004			
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	21.40	21.41	21.33		23.3	0.0
Channel				649334	650000	662668			
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	21.34	21.49	21.38		23.3	0.0
Channel				649000	650000	663000			
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	21.35	21.42	21.37		23.3	0.0
Channel				648668	650000	663334			
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	21.37	21.45	21.39		23.3	0.0
Channel				648334	650000	663668			
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	21.37	21.39	21.42		23.3	0.0
Channel				648000	650000	664000			
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	21.33	21.48	21.39		23.3	0.0
Channel				647668	650000	664334			
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	21.35	21.39	21.32		23.3	0.0
Channel				647334	650000	664668			
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	21.38	21.41	21.37		23.3	0.0
Channel				647168	650000	664934			
Frequency (MHz)				3707.02	3840	3975.01			
15	QPSK	1	1	21.32	21.44	21.39		23.3	0.0
Channel				647000	650000	665000			
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	21.35	21.39	21.44		23.3	0.0

Part27Q n77 Ant7 Sensor off DS14									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3500.01					
Frequency (MHz)									
100	PI2 BPSK	1	1	18.78					
100	PI2 BPSK	1	137	18.88				20.3	0.0
100	PI2 BPSK	1	271	18.70				20.3	0.0
100	PI2 BPSK	135	0	18.73				20.3	0.0
100	PI2 BPSK	135	69	18.74				20.3	0.0
100	PI2 BPSK	135	138	18.87				20.3	0.0
100	PI2 BPSK	270	0	18.82				20.3	0.0
100	QPSK	1	1	18.87					
100	QPSK	1	137	18.78				20.3	0.0
100	QPSK	1	271	18.78				20.3	0.0
100	QPSK	135	0	18.77				20.3	0.0
100	QPSK	135	69	18.83				20.3	0.0
100	QPSK	135	138	18.70				20.3	0.0
100	QPSK	270	0	18.76				20.3	0.0
100	16QAM	1	1	18.73				20.3	0.0
100	16QAM	1	1	18.65				20.3	0.0
100	256QAM	1	1	17.95			19.5	0.8	
Channel				633000	633334	633668			
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	18.75	18.78	18.77		20.3	0.0
Channel				632668	633334	634000			
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	18.75	18.80	18.79		20.3	0.0
Channel				632334	633334	634334			
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	18.79	18.80	18.83		20.3	0.0
Channel				632000	633334	634668			
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	18.74	18.82	18.77		20.3	0.0
Channel				631668	633334	635000			
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	18.75	18.82	18.76		20.3	0.0
Channel				631334	633334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	18.72	18.83	18.70		20.3	0.0
Channel				631000	633334	635668			
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	18.82	18.83	18.74		20.3	0.0
Channel				630668	633334	636000			
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	18.74	18.82	18.75		20.3	0.0
Channel				630300	633334	636368			
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	18.75	18.78	18.72		20.3	0.0
Channel				630034	633334	636834			
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	18.77	18.82	18.79		20.3	0.0

Part27Q n77 PC2 Ant7 Sensor off DS14									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3500.01					
Frequency (MHz)									
100	PI2 BPSK	1	1	22.00					
100	PI2 BPSK	1	137	21.96				23.3	0.0
100	PI2 BPSK	1	271	21.97				23.3	0.0
100	PI2 BPSK	135	0	21.88				23.3	0.0
100	PI2 BPSK	135	69	21.94				23.3	0.0
100	PI2 BPSK	135	138	21.79				23.3	0.0
100	PI2 BPSK	270	0	21.95				23.3	0.0
100	QPSK	1	1	22.07					
100	QPSK	1	137	21.96				23.3	0.0
100	QPSK	1	271	21.98				23.3	0.0
100	QPSK	135	0	21.75				23.3	0.0
100	QPSK	135	69	21.96				23.3	0.0
100	QPSK	135	138	21.87				23.3	0.0
100	QPSK	270	0	21.90				23.3	0.0
100	16QAM	1	1	21.70				23.3	0.0
100	16QAM	1	1	21.84				23.3	0.0
100	256QAM	1	1	21.33			22.5	0.8	
Channel				633000	633334	633668			
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	21.96	22.00	21.92		23.3	0.0
Channel				632668	633334	634000			
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	21.97	21.96	21.98		23.3	0.0
Channel				632334	633334	634334			
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	22.00	21.94	21.93		23.3	0.0
Channel				632000	633334	634668			
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	21.96	22.00	22.03		23.3	0.0
Channel				631668	633334	635000			
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	22.02	21.95	21.94		23.3	0.0
Channel				631334	633334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	21.93	21.98	21.92		23.3	0.0
Channel				631000	633334	635668			
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	21.98	22.03	21.97		23.3	0.0
Channel				630668	633334	636000			
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	21.93	21.96	21.95		23.3	0.0
Channel				630300	633334	636368			
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	21.98	22.03	22.02		23.3	0.0
Channel				630034	633334	636834			
Frequency (MHz)				3455.01	3500.01	3545.01			



Part270 n78 Ant7 Sensor off DS14									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				3750	3750	3750			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1	18.35	18.35	18.35			
100	PI2 BPSK	1	137	18.40	18.40	18.40		0.0	
100	PI2 BPSK	1	271	18.34	18.34	18.34			
100	PI2 BPSK	135	0	18.32	18.32	18.32	20.3	0.0	
100	PI2 BPSK	135	69	18.31	18.31	18.31	20.3	0.0	
100	PI2 BPSK	135	138	18.39	18.39	18.39	20.3	0.0	
100	PI2 BPSK	270	0	18.38	18.38	18.38	20.3	0.0	
100	QPSK	1	1	18.33	18.33	18.33	20.3	0.0	
100	QPSK	1	137	18.38	18.38	18.38	20.3	0.0	
100	QPSK	1	271	18.38	18.38	18.38	20.3	0.0	
100	QPSK	135	0	18.33	18.33	18.33	20.3	0.0	
100	QPSK	135	69	18.41	18.41	18.41	20.3	0.0	
100	QPSK	135	138	18.34	18.34	18.34	20.3	0.0	
100	QPSK	270	0	18.35	18.35	18.35	20.3	0.0	
100	16QAM	1	1	18.32	18.32	18.32	20.3	0.0	
100	16QAM	1	1	18.38	18.38	18.38	20.3	0.0	
100	256QAM	1	1	17.55	17.55	19.5	19.5	0.8	
Channel				648688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	20.3	0.0	
90	QPSK	1	1	18.38	18.37	18.34	20.3	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	20.3	0.0	
80	QPSK	1	1	18.40	18.39	18.39	20.3	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765	20.3	0.0	
70	QPSK	1	1	18.38	18.40	18.39	20.3	0.0	
Channel				648688	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01	20.3	0.0	
60	QPSK	1	1	18.39	18.38	18.34	20.3	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	20.3	0.0	
50	QPSK	1	1	18.33	18.34	18.38	20.3	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	20.3	0.0	
40	QPSK	1	1	18.39	18.40	18.36	20.3	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01	20.3	0.0	
30	QPSK	1	1	18.39	18.35	18.37	20.3	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	20.3	0.0	
20	QPSK	1	1	18.36	18.38	18.32	20.3	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705.02	3750	3795.01	20.3	0.0	
15	QPSK	1	1	18.35	18.37	18.34	20.3	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795	20.3	0.0	
10	QPSK	1	1	18.33	18.37	18.39	20.3	0.0	

Part27Q n78 Ant7 Sensor off DS14									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 633000	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq. 633334	Tune-up limit (dBm)	MPR (dB)	
Channel				3500.01	3500.01	3500.01			
Frequency (MHz)				3500.01	3500.01	3500.01			
100	PI2 BPSK	1	1	18.60	18.60	18.60			
100	PI2 BPSK	1	137	18.57	18.57	18.57		0.0	
100	PI2 BPSK	1	271	18.46	18.46	18.46			
100	PI2 BPSK	135	0	18.41	18.41	18.41	20.3	0.0	
100	PI2 BPSK	135	69	18.57	18.57	18.57	20.3	0.0	
100	PI2 BPSK	135	138	18.35	18.35	18.35	20.3	0.0	
100	PI2 BPSK	270	0	18.45	18.45	18.45	20.3	0.0	
100	QPSK	1	1	18.74	18.74	18.74	20.3	0.0	
100	QPSK	1	137	18.67	18.67	18.67	20.3	0.0	
100	QPSK	1	271	18.58	18.58	18.58	20.3	0.0	
100	QPSK	135	0	18.56	18.56	18.56	20.3	0.0	
100	QPSK	135	69	18.68	18.68	18.68	20.3	0.0	
100	QPSK	135	138	18.46	18.46	18.46	20.3	0.0	
100	QPSK	270	0	18.46	18.46	18.46	20.3	0.0	
100	16QAM	1	1	18.47	18.47	18.47	20.3	0.0	
100	16QAM	1	1	18.39	18.39	18.39	20.3	0.0	
100	256QAM	1	1	18.45	18.45	19.5	19.5	0.8	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02	20.3	0.0	
90	QPSK	1	1	18.64	18.71	18.62	20.3	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510	20.3	0.0	
80	QPSK	1	1	18.65	18.68	18.60	20.3	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01	20.3	0.0	
70	QPSK	1	1	18.64	18.68	18.58	20.3	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02	20.3	0.0	
60	QPSK	1	1	18.62	18.65	18.59	20.3	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525	20.3	0.0	
50	QPSK	1	1	18.66	18.68	18.60	20.3	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	20.3	0.0	
40	QPSK	1	1	18.67	18.69	18.61	20.3	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02	20.3	0.0	
30	QPSK	1	1	18.60	18.70	18.60	20.3	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	20.3	0.0	
20	QPSK	1	1	18.60	18.65	18.64	20.3	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.02	3500.01	3545.02	20.3	0.0	
15	QPSK	1	1	18.63	18.69	18.60	20.3	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01	20.3	0.0	
10	QPSK	1	1	18.60	18.70	18.64	20.3	0.0	



Reduced Power Mode for DSI 6

n2 Ant0 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)				1850	1850	1850			
20	PI2 BPSK	1	1	20.89	20.93	20.94			
20	PI2 BPSK	1	53	20.83	20.86	20.82	21.8	0.0	
20	PI2 BPSK	1	104	20.79	20.87	20.78			
20	PI2 BPSK	50	0	20.84	20.91	20.79	21.8	0.0	
20	PI2 BPSK	50	28	20.85	20.89	20.83	21.8	0.0	
20	PI2 BPSK	50	56	20.81	20.85	20.70			
20	PI2 BPSK	100	0	20.77	20.91	20.81	21.8	0.0	
20	QPSK	1	1	20.86	20.96	20.91			
20	QPSK	1	53	20.73	20.84	20.72	21.8	0.0	
20	QPSK	1	104	20.69	20.76	20.68			
20	QPSK	50	0	20.80	20.90	20.77	21.8	0.0	
20	QPSK	50	28	20.89	20.92	20.86	21.8	0.0	
20	QPSK	50	56	20.83	20.87	20.76			
20	QPSK	100	0	20.84	20.89	20.80	21.8	0.0	
20	16QAM	1	1	20.66	20.82	20.77	21.8	0.0	
20	64QAM	1	1	20.38	20.43	20.40	21.5	0.3	
20	256QAM	1	1	18.18	18.29	18.24	19.5	2.3	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1850	1902.5	21.8	0.0	
15	QPSK	1	1	20.75	20.89	20.77	21.8	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1850	1905	21.8	0.0	
10	QPSK	1	1	20.78	20.90	20.81	21.8	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1850	1907.5	21.8	0.0	
5	QPSK	1	1	20.82	20.92	20.83	21.8	0.0	

n5 Ant0 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	838.5	842			
20	PI2 BPSK	1	1	23.10	23.19	23.09			
20	PI2 BPSK	1	53	22.99	23.06	23.07	24.0	0.0	
20	PI2 BPSK	1	104	22.85	22.90	22.75			
20	PI2 BPSK	50	0	22.50	22.63	22.59	23.5	0.5	
20	PI2 BPSK	50	28	23.09	23.08	23.11	24.0	0.0	
20	PI2 BPSK	50	56	22.51	22.64	22.49			
20	PI2 BPSK	100	0	22.67	22.69	22.53	23.5	0.5	
20	QPSK	1	1	23.11	23.23	23.17			
20	QPSK	1	53	22.97	23.14	23.02	24.0	0.0	
20	QPSK	1	104	22.92	23.00	22.83			
20	QPSK	50	0	22.04	22.07	21.98	23.0	1.0	
20	QPSK	50	28	23.04	23.20	23.16	24.0	0.0	
20	QPSK	50	56	22.03	22.05	22.00			
20	QPSK	100	0	22.11	22.24	22.13	23.0	1.0	
20	16QAM	1	1	21.87	22.02	21.92	23.0	1.0	
20	64QAM	1	1	20.57	20.61	20.44	21.5	2.5	
20	256QAM	1	1	18.40	18.51	18.38	19.5	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5	24.0	0.0	
15	QPSK	1	1	22.98	23.14	23.06	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	23.00	23.11	23.07	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	838.5	846.5	24.0	0.0	
5	QPSK	1	1	23.07	23.17	23.06	24.0	0.0	

n7 Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	20.96	20.95	20.92			
40	PI2 BPSK	1	108	20.91	20.90	20.94	21.9	0.0	
40	PI2 BPSK	1	214	20.78	20.91	20.81			
40	PI2 BPSK	108	0	20.90	20.94	20.87	21.9	0.0	
40	PI2 BPSK	108	54	20.87	20.91	20.83	21.9	0.0	
40	PI2 BPSK	108	108	20.81	20.94	20.94			
40	PI2 BPSK	216	0	20.83	20.95	20.79	21.9	0.0	
40	QPSK	1	1	20.99	21.02	20.87			
40	QPSK	1	108	20.93	20.97	21.00	21.9	0.0	
40	QPSK	1	214	20.86	21.01	20.92			
40	QPSK	108	0	20.83	20.87	20.92	21.9	0.0	
40	QPSK	108	54	20.91	20.95	20.75	21.9	0.0	
40	QPSK	108	108	20.82	20.84	20.81			
40	QPSK	216	0	20.76	20.89	20.84	21.9	0.0	
40	16QAM	1	1	20.94	20.96	20.81	21.9	0.0	
40	64QAM	1	1	20.88	20.86	20.82	21.9	0.0	
40	256QAM	1	1	18.19	18.32	18.29	19.5	2.4	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	21.9	0.0	
30	QPSK	1	1	20.98	20.95	20.77	21.9	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	21.9	0.0	
25	QPSK	1	1	20.93	20.99	20.81	21.9	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	21.9	0.0	
20	PI2 BPSK	1	1	20.91	20.98	20.84	21.9	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	21.9	0.0	
15	QPSK	1	1	20.86	20.92	20.74	21.9	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	21.9	0.0	
10	QPSK	1	1	20.95	20.96	20.83	21.9	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	21.9	0.0	
5	QPSK	1	1	20.92	20.90	20.85	21.9	0.0	



### n14 Ant0 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				158000				
Frequency (MHz)				793				
10	PI2 BPSK	1	1	23.01			24.0	0.0
10	PI2 BPSK	1	26	22.96				
10	PI2 BPSK	1	50	22.89				
10	PI2 BPSK	25	0	22.49			23.5	0.5
10	PI2 BPSK	25	14	22.96			24.0	0.0
10	PI2 BPSK	25	27	22.47			23.5	0.5
10	PI2 BPSK	50	0	22.53				
10	QPSK	1	1	23.05			24.0	0.0
10	QPSK	1	26	23.00				
10	QPSK	1	50	22.96				
10	QPSK	25	0	21.97			23.0	1.0
10	QPSK	25	14	22.98			24.0	0.0
10	QPSK	25	27	21.97			23.0	1.0
10	QPSK	50	0	22.04				
10	16QAM	1	1	22.29			23.0	1.0
10	64QAM	1	1	20.72			21.5	2.5
10	256QAM	1	1	18.36			19.5	4.5
Channel				158100	158600	159100		
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	1	22.98	22.99	22.91	24.0	0.0

### n66 Ant0 DS16

BW [MHz]	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				
Frequency (MHz)				1730				
40	PI2 BPSK	1	1	20.17	20.35	20.30		
40	PI2 BPSK	1	108	20.22	20.21	20.28	21.4	0.0
40	PI2 BPSK	1	214	20.14	20.34	20.28		
40	PI2 BPSK	108	0	20.13	20.20	20.19	21.4	0.0
40	PI2 BPSK	108	54	20.21	20.33	20.34	21.4	0.0
40	PI2 BPSK	108	108	20.23	20.36	20.31	21.4	0.0
40	PI2 BPSK	216	0	20.28	20.39	20.32		
40	QPSK	1	1	20.43	20.46	20.39		
40	QPSK	1	108	20.30	20.42	20.38	21.4	0.0
40	QPSK	1	214	20.24	20.35	20.22		
40	QPSK	108	0	20.31	20.38	20.25	21.4	0.0
40	QPSK	108	54	20.37	20.43	20.39	21.4	0.0
40	QPSK	108	108	20.26	20.36	20.22	21.4	0.0
40	QPSK	216	0	20.30	20.40	20.27		
40	16QAM	1	1	20.21	20.34	20.22	21.4	0.0
40	64QAM	1	1	20.23	20.23	20.24	21.4	0.0
40	256QAM	1	1	18.19	18.31	18.21	19.5	1.9
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	20.33	20.44	20.32	21.4	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	20.31	20.40	20.35	21.4	0.0
Channel				343500	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	20.40	20.35	20.27	21.4	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	20.34	20.39	20.29	21.4	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	20.35	20.35	20.29	21.4	0.0

### n71 Ant0 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				134600				
Frequency (MHz)				673				
20	PI2 BPSK	1	1	23.03	23.06	23.00		
20	PI2 BPSK	1	53	22.92	23.02	22.91	24.0	0.0
20	PI2 BPSK	1	104	22.94	22.97	22.83		
20	PI2 BPSK	50	0	22.44	22.49	22.36	23.5	0.5
20	PI2 BPSK	50	25	22.91	23.01	22.98	24.0	0.0
20	PI2 BPSK	50	56	22.30	22.41	22.29	23.5	0.5
20	PI2 BPSK	100	0	22.35	22.49	22.42		
20	QPSK	1	1	23.05	23.11	23.07		
20	QPSK	1	53	23.02	23.07	23.03	24.0	0.0
20	QPSK	1	104	22.91	22.95	22.86		
20	QPSK	50	0	21.98	22.04	21.92	23.0	1.0
20	QPSK	50	28	22.99	23.05	22.93	24.0	0.0
20	QPSK	50	56	21.92	21.96	21.88	23.0	1.0
20	QPSK	100	0	21.98	22.02	21.89		
20	16QAM	1	1	22.25	22.39	22.28	23.0	1.0
20	64QAM	1	1	20.27	20.36	20.31	21.5	2.5
20	256QAM	1	1	18.83	18.74	18.69	19.5	4.5
Channel				134100	136100	138100		
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	23.01	23.05	22.93	24.0	0.0
Channel				133500	136100	138600		
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	22.91	23.07	22.94	24.0	0.0
Channel				133100	136100	139100		
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	22.91	22.98	22.95	24.0	0.0



n41 Ant0 DS16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	21.01	21.08	21.12			
100	PI2 BPSK	1	137	20.95	20.87	20.99	22.1	0.0	
100	PI2 BPSK	1	271	20.98	20.94	20.96			
100	PI2 BPSK	135	0	20.81	21.05	20.92	22.1	0.0	
100	PI2 BPSK	135	69	20.95	21.06	20.97	22.1	0.0	
100	PI2 BPSK	135	138	20.67	20.87	20.78	22.1	0.0	
100	PI2 BPSK	270	0	21.06	20.82	20.86			
100	QPSK	1	1	21.01	21.19	20.96			
100	QPSK	1	137	20.83	20.98	20.79	22.1	0.0	
100	QPSK	1	271	21.06	21.03	21.01			
100	QPSK	135	0	20.80	20.88	20.80	22.1	0.0	
100	QPSK	135	69	20.90	21.18	20.93	22.1	0.0	
100	QPSK	135	138	20.91	20.84	20.72	22.1	0.0	
100	QPSK	270	0	20.81	20.87	20.74	22.1	0.0	
100	16QAM	1	1	20.78	20.87	20.83	22.1	0.0	
100	16QAM	1	1	19.92	19.81	19.71	21.5	0.6	
100	256QAM	1	1	18.21	18.16	18.19	19.5	2.6	
Channel				50200	51898	52900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	20.90	21.10	20.79	22.1	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	21.00	21.11	20.72	22.1	0.0	
Channel				509202	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2665			
70	QPSK	1	1	20.94	21.14	20.74	22.1	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	20.85	21.04	20.81	22.1	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	20.90	21.13	20.75	22.1	0.0	
Channel				503202	518998	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	20.88	21.06	20.73	22.1	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	20.87	21.15	20.71	22.1	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	20.88	21.03	20.82	22.1	0.0	

n41 PC2 Ant 0 DS16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	23.93	23.99	23.93			
100	PI2 BPSK	1	137	23.85	23.96	23.79	25.1	0.0	
100	PI2 BPSK	1	271	23.81	24.02	23.81			
100	PI2 BPSK	135	0	23.87	24.03	23.93	25.1	0.0	
100	PI2 BPSK	135	69	23.83	23.92	23.96	25.1	0.0	
100	PI2 BPSK	135	138	23.98	24.07	24.11	25.1	0.0	
100	PI2 BPSK	270	0	23.95	24.03	24.06			
100	QPSK	1	1	23.93	24.19	24.12			
100	QPSK	1	137	23.95	23.95	24.01	25.1	0.0	
100	QPSK	1	271	23.83	24.00	23.84			
100	QPSK	135	0	23.85	24.05	24.04	25.0	0.1	
100	QPSK	135	69	23.91	24.15	24.03	25.1	0.0	
100	QPSK	135	138	23.80	24.05	23.97	25.0	0.1	
100	QPSK	270	0	23.77	24.07	24.02			
100	16QAM	1	1	23.88	24.11	24.03	25.0	0.1	
100	16QAM	1	1	21.73	21.85	21.80	23.5	1.6	
100	256QAM	1	1	19.60	19.64	19.51	21.5	3.6	
Channel				50200	51898	52900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	23.85	24.07	24.03	25.1	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	23.85	24.05	24.03	25.1	0.0	
Channel				509202	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2665			
70	QPSK	1	1	23.80	24.06	23.98	25.1	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	23.79	24.13	24.04	25.1	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	23.87	24.09	23.99	25.1	0.0	
Channel				503202	518998	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	23.86	24.13	24.00	25.1	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	23.81	24.11	23.97	25.1	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	23.89	24.05	24.06	25.1	0.0	



### n2 Ant1 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				37000	37000	38000		
Frequency (MHz)				1860	1860	1900		
20	PI2 BPSK	1	1	20.84	20.89	20.78		
20	PI2 BPSK	1	53	20.81	20.87	20.75	21.9	0.0
20	PI2 BPSK	1	104	20.73	20.81	20.70		
20	PI2 BPSK	50	0	20.77	20.90	20.81	21.9	0.0
20	PI2 BPSK	50	28	20.74	20.84	20.77	21.9	0.0
20	PI2 BPSK	50	58	20.68	20.77	20.70	21.9	0.0
20	PI2 BPSK	100	0	20.76	20.82	20.70		
20	QPSK	1	1	20.87	20.94	20.81		
20	QPSK	1	53	20.73	20.85	20.78	21.9	0.0
20	QPSK	1	104	20.73	20.82	20.75		
20	QPSK	50	0	20.79	20.86	20.77	21.9	0.0
20	QPSK	50	28	20.76	20.89	20.78	21.9	0.0
20	QPSK	50	58	20.72	20.81	20.75	21.9	0.0
20	QPSK	100	0	20.71	20.84	20.80		
20	16QAM	1	1	20.66	20.80	20.69	21.9	0.0
20	16QAM	1	1	20.29	20.25	20.22	21.5	0.4
20	256QAM	1	1	18.51	18.58	18.48	19.5	2.4
Channel				37150	37000	38000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1867.5	1860	1902.5		
15	QPSK	1	1	20.74	20.91	20.68	21.9	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1855	1860	1905		
10	QPSK	1	1	20.78	20.86	20.74	21.9	0.0
Channel				375500	376000	381500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1852.5	1860	1907.5		
5	QPSK	1	1	20.79	20.88	20.69	21.9	0.0

### n5 Ant1 Default

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166500	167500	167500		
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	23.11	23.20	23.04		
20	PI2 BPSK	1	53	23.04	23.19	23.03	24.0	0.0
20	PI2 BPSK	1	104	22.97	23.09	22.97		
20	PI2 BPSK	50	0	22.86	22.76	22.85	23.5	0.5
20	PI2 BPSK	50	28	23.06	23.13	23.07	24.0	0.0
20	PI2 BPSK	50	58	22.61	22.87	22.59	23.5	0.5
20	PI2 BPSK	100	0	22.67	22.70	22.67		
20	QPSK	1	1	23.13	23.22	23.16		
20	QPSK	1	53	23.11	23.12	23.13	24.0	0.0
20	QPSK	1	104	23.01	23.11	23.01		
20	QPSK	50	0	22.16	22.19	22.00	23.0	1.0
20	QPSK	50	28	23.12	23.19	23.15	24.0	0.0
20	QPSK	50	58	22.08	22.18	22.01	23.0	1.0
20	QPSK	100	0	22.18	22.21	22.12		
20	16QAM	1	1	22.05	22.13	22.07	23.0	1.0
20	16QAM	1	1	20.75	20.74	20.73	21.5	2.5
20	256QAM	1	1	18.41	18.48	18.44	19.5	4.5
Channel				165300	167500	168500	Tune-up limit (dBm)	MPR
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.04	23.17	23.06	24.0	0.0
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR
Frequency (MHz)				820	836.5	844		
10	QPSK	1	1	23.10	23.07	23.01	24.0	0.0
Channel				165300	167500	169300	Tune-up limit (dBm)	MPR
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.03	23.14	23.04	24.0	0.0

### n7 Ant1 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	513000		
Frequency (MHz)				2520	2535	2550		
40	PI2 BPSK	1	1	19.35	19.38	19.27		
40	PI2 BPSK	1	108	19.28	19.35	19.29	20.7	0.0
40	PI2 BPSK	1	214	19.15	19.27	19.16		
40	PI2 BPSK	108	0	19.21	19.32	19.24	20.7	0.0
40	PI2 BPSK	108	54	19.19	19.34	19.20	20.7	0.0
40	PI2 BPSK	108	108	19.13	19.27	19.19	20.7	0.0
40	PI2 BPSK	216	0	19.28	19.31	19.21		
40	QPSK	1	1	19.34	19.42	19.31		
40	QPSK	1	108	19.35	19.36	19.25	20.7	0.0
40	QPSK	1	214	19.25	19.31	19.23		
40	QPSK	108	0	19.30	19.33	19.21	20.7	0.0
40	QPSK	108	54	19.33	19.37	19.24	20.7	0.0
40	QPSK	108	108	19.13	19.24	19.14	20.7	0.0
40	QPSK	216	0	19.17	19.28	19.19		
40	16QAM	1	1	19.19	19.24	19.14	20.7	0.0
40	16QAM	1	1	19.09	19.21	19.09	20.7	0.0
40	256QAM	1	1	17.80	17.91	17.83	19.5	1.2
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	19.22	19.37	19.28	20.7	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	19.20	19.32	19.20	20.7	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2510	2535	2560		
20	PI2 BPSK	1	1	19.22	19.28	19.21	20.7	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	19.22	19.38	19.23	20.7	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	19.24	19.31	19.20	20.7	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	19.30	19.29	19.20	20.7	0.0



n66 Ant1 DSI6							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				345000	349000	353000	
Frequency (MHz)				1730	1745	1760	
40	PI2 BPSK	1	1	21.43	21.55	21.50	
40	PI2 BPSK	1	168	21.38	21.48	21.34	
40	PI2 BPSK	1	214	21.38	21.52	21.48	22.7
40	PI2 BPSK	108	0	21.38	21.47	21.39	0.0
40	PI2 BPSK	108	54	21.47	21.50	21.39	22.7
40	PI2 BPSK	108	108	21.29	21.38	21.27	0.0
40	PI2 BPSK	216	0	21.28	21.42	21.38	
40	QPSK	1	1	21.51	21.58	21.48	
40	QPSK	1	108	21.41	21.55	21.44	22.7
40	QPSK	1	214	21.33	21.46	21.33	
40	QPSK	108	0	21.40	21.49	21.39	22.7
40	QPSK	108	54	21.43	21.54	21.42	22.7
40	QPSK	108	108	21.41	21.47	21.34	22.7
40	QPSK	216	0	21.47	21.51	21.46	0.0
40	16QAM	1	1	21.22	21.36	21.25	22.7
40	64QAM	1	1	20.25	20.35	20.27	21.5
40	256QAM	1	1	18.01	18.11	17.88	19.5
Channel				345000	349000	353000	
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	21.44	21.53	21.40	22.7
Channel				344000	348000	352000	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	21.39	21.50	21.34	22.7
Channel				343000	347000	351000	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	21.40	21.43	21.43	22.7
Channel				342000	346000	350000	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	21.37	21.53	21.43	22.7
Channel				342500	346500	350500	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	21.44	21.47	21.37	22.7

n71 Ant1 Default							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				134500	138100	137600	
Frequency (MHz)				673	680.5	688	
20	PI2 BPSK	1	1	22.96	23.08	23.05	
20	PI2 BPSK	1	53	22.97	23.02	22.92	
20	PI2 BPSK	1	104	22.78	22.91	22.83	24.0
20	PI2 BPSK	50	0	22.46	22.52	22.47	23.5
20	PI2 BPSK	50	28	22.94	23.03	22.97	24.0
20	PI2 BPSK	50	56	22.41	22.45	22.34	23.5
20	PI2 BPSK	100	0	22.47	22.53	22.47	
20	QPSK	1	1	23.03	23.13	23.09	
20	QPSK	1	53	22.96	23.08	23.02	24.0
20	QPSK	1	104	22.90	22.97	22.91	
20	QPSK	50	0	21.91	22.05	21.94	23.0
20	QPSK	50	28	22.98	23.06	22.93	24.0
20	QPSK	50	56	21.92	22.01	21.87	23.0
20	QPSK	100	0	21.93	22.07	21.87	23.0
20	16QAM	1	1	21.77	21.87	21.83	23.0
20	64QAM	1	1	20.25	20.34	20.21	21.5
20	256QAM	1	1	18.53	18.83	18.58	19.5
Channel				134100	138100	138100	
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	1	22.91	23.02	22.97	24.0
Channel				133600	138100	138600	
Frequency (MHz)				668	680.5	692	
10	QPSK	1	1	22.99	23.00	23.02	24.0
Channel				133100	138100	139100	
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	1	22.96	23.00	22.99	24.0





n41 Ant 1 DS16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	19.73	19.90	19.77			
100	PI2 BPSK	1	137	19.88	19.84	19.59	21.1	0.0	
100	PI2 BPSK	1	271	19.58	19.80	19.77			
100	PI2 BPSK	135	0	19.76	19.90	19.58	21.1	0.0	
100	PI2 BPSK	135	69	19.70	19.93	19.53	21.1	0.0	
100	PI2 BPSK	135	138	19.73	19.83	19.79	21.1	0.0	
100	PI2 BPSK	270	0	19.84	19.78	19.64			
100	QPSK	1	1	19.88	19.85	19.98			
100	QPSK	1	137	19.69	19.80	19.83	21.1	0.0	
100	QPSK	1	271	19.52	19.77	19.80			
100	QPSK	135	0	19.76	19.70	19.75	21.1	0.0	
100	QPSK	135	69	19.79	19.81	19.82	21.1	0.0	
100	QPSK	135	138	19.89	19.67	19.83	21.1	0.0	
100	QPSK	270	0	19.73	19.90	19.87			
100	16QAM	1	1	19.85	19.89	19.90	21.1	0.0	
100	16QAM	1	1	19.78	19.83	19.87	21.1	0.0	
100	256QAM	1	1	18.30	18.38	18.29	19.5	1.6	
Channel				50200	51898	52998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.75	19.66	19.77	21.1	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	19.75	19.80	19.55	21.1	0.0	
Channel				509202	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2685			
70	QPSK	1	1	19.73	19.72	19.74	21.1	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	19.67	19.82	19.75	21.1	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	19.64	19.63	19.64	21.1	0.0	
Channel				503202	518998	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	19.69	19.75	19.71	21.1	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	19.61	19.84	19.73	21.1	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	19.68	19.68	19.63	21.1	0.0	

n41 PC2 Ant 1 DS16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50200	51898	52900			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	22.85	22.91	22.83			
100	PI2 BPSK	1	137	22.73	22.91	22.81	24.1	0.0	
100	PI2 BPSK	1	271	22.71	22.85	22.86			
100	PI2 BPSK	135	0	22.49	22.73	22.81	24.1	0.0	
100	PI2 BPSK	135	69	22.89	22.71	22.77	24.1	0.0	
100	PI2 BPSK	135	138	22.43	22.58	22.45	24.1	0.0	
100	PI2 BPSK	270	0	22.59	22.71	22.80			
100	QPSK	1	1	22.85	22.88	22.91			
100	QPSK	1	137	22.85	22.84	22.85	24.1	0.0	
100	QPSK	1	271	22.81	22.64	22.57			
100	QPSK	135	0	22.64	22.75	22.85	24.1	0.0	
100	QPSK	135	69	22.93	22.85	22.82	24.1	0.0	
100	QPSK	135	138	22.45	22.80	22.53	24.1	0.0	
100	QPSK	270	0	22.51	22.80	22.48			
100	16QAM	1	1	22.85	22.85	22.72	24.1	0.0	
100	16QAM	1	1	22.63	22.83	22.67	24.1	0.0	
100	256QAM	1	1	20.97	21.03	20.91	22.5	1.6	
Channel				50200	51898	52998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	22.88	22.84	22.79	24.1	0.0	
Channel				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	22.81	22.82	22.70	24.1	0.0	
Channel				509202	518998	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2631.01	2692.99	2685			
70	QPSK	1	1	22.64	22.82	22.77	24.1	0.0	
Channel				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2524	2592.99	2659.98			
60	QPSK	1	1	22.88	22.83	22.65	24.1	0.0	
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	22.55	22.83	22.80	24.1	0.0	
Channel				503202	518998	533000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	22.76	22.88	22.86	24.1	0.0	
Channel				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.99			
30	QPSK	1	1	22.57	22.80	22.79	24.1	0.0	
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	22.63	22.68	22.65	24.1	0.0	



### n41 Ant2 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								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	19.77	19.83	19.74		
100	PI2 BPSK	1	137	19.53	19.67	19.76	21.0	0.0
100	PI2 BPSK	1	271	19.86	19.76	19.86		
100	PI2 BPSK	135	0	19.52	19.69	19.42	21.0	0.0
100	PI2 BPSK	135	69	19.49	19.73	19.52	21.0	0.0
100	PI2 BPSK	135	138	19.80	19.71	19.60	21.0	0.0
100	PI2 BPSK	270	0	19.75	19.76	19.71		
100	QPSK	1	1	19.86	19.88	19.84		
100	QPSK	1	137	19.81	19.82	19.84	21.0	0.0
100	QPSK	1	271	19.81	19.71	19.70		
100	QPSK	135	0	19.48	19.67	19.38	21.0	0.0
100	QPSK	135	69	19.54	19.71	19.68	21.0	0.0
100	QPSK	135	138	19.86	19.84	19.87	21.0	0.0
100	QPSK	270	0	19.86	19.81	19.51		
100	16QAM	1	1	19.68	19.71	19.55	21.0	0.0
100	16QAM	1	1	19.18	19.41	19.27	21.0	0.0
100	256QAM	1	1	17.83	17.82	17.78	19.5	1.5
Channel								
Frequency (MHz)				50300	51858	53998		
90	QPSK	1	1	19.74	19.79	19.49	21.0	0.0
Channel								
Frequency (MHz)				507204	518598	529998		
80	QPSK	1	1	19.59	19.65	19.41	21.0	0.0
Channel								
Frequency (MHz)				505202	518598	531000		
70	QPSK	1	1	19.87	19.72	19.41	21.0	0.0
Channel								
Frequency (MHz)				505200	518598	531998		
60	QPSK	1	1	19.84	19.72	19.48	21.0	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	19.72	19.66	19.55	21.0	0.0
Channel								
Frequency (MHz)				503202	518598	534000		
40	QPSK	1	1	19.57	19.68	19.39	21.0	0.0
Channel								
Frequency (MHz)				502200	518598	534998		
30	QPSK	1	1	19.57	19.70	19.51	21.0	0.0
Channel								
Frequency (MHz)				501204	518598	535998		
20	QPSK	1	1	19.87	19.81	19.48	21.0	0.0

### n41 PC2 Ant2 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								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	22.65	22.65	22.71		
100	PI2 BPSK	1	137	22.52	22.66	22.56	24.0	0.0
100	PI2 BPSK	1	271	22.71	22.83	22.73		
100	PI2 BPSK	135	0	22.82	22.53	22.44	24.0	0.0
100	PI2 BPSK	135	69	22.55	22.75	22.49	24.0	0.0
100	PI2 BPSK	135	138	22.59	22.73	22.43	24.0	0.0
100	PI2 BPSK	270	0	22.55	22.75	22.67		
100	QPSK	1	1	22.81	22.84	22.79		
100	QPSK	1	137	22.50	22.85	22.51	24.0	0.0
100	QPSK	1	271	22.72	22.89	22.48		
100	QPSK	135	0	22.55	22.68	22.38	24.0	0.0
100	QPSK	135	69	22.54	22.80	22.60	24.0	0.0
100	QPSK	135	138	22.89	22.66	22.38	24.0	0.0
100	QPSK	270	0	22.87	22.74	22.67		
100	16QAM	1	1	22.55	22.77	22.48	24.0	0.0
100	16QAM	1	1	22.77	22.81	22.72	23.5	0.5
100	256QAM	1	1	20.91	20.95	20.88	21.5	2.5
Channel								
Frequency (MHz)				50300	518598	53998		
90	QPSK	1	1	22.33	22.64	22.64	24.0	0.0
Channel								
Frequency (MHz)				507204	518598	529998		
80	QPSK	1	1	22.39	22.72	22.60	24.0	0.0
Channel								
Frequency (MHz)				505202	518598	531000		
70	QPSK	1	1	22.52	22.52	22.55	24.0	0.0
Channel								
Frequency (MHz)				505200	518598	531998		
60	QPSK	1	1	22.41	22.59	22.49	24.0	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	22.48	22.84	22.51	24.0	0.0
Channel								
Frequency (MHz)				503202	518598	534000		
40	QPSK	1	1	22.30	22.61	22.65	24.0	0.0
Channel								
Frequency (MHz)				502200	518598	534998		
30	QPSK	1	1	22.47	22.64	22.62	24.0	0.0
Channel								
Frequency (MHz)				501204	518598	535998		
20	QPSK	1	1	22.44	22.75	22.60	24.0	0.0

### n48 Part96 Ant2 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								
Frequency (MHz)				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	16.12	16.15	16.06		
40	PI2 BPSK	1	53	15.96	16.09	15.98	17.4	0.0
40	PI2 BPSK	1	104	15.97	16.06	15.98		
40	PI2 BPSK	50	0	16.00	16.13	15.98	17.4	0.0
40	PI2 BPSK	50	28	16.12	16.21	16.06	17.4	0.0
40	PI2 BPSK	50	56	16.02	16.07	16.01	17.4	0.0
40	PI2 BPSK	100	0	15.97	16.11	16.04		
40	QPSK	1	1	16.22	16.27	16.16		
40	QPSK	1	53	16.12	16.22	16.16	17.4	0.0
40	QPSK	1	104	16.15	16.19	16.09		
40	QPSK	50	0	16.01	16.08	15.93	17.4	0.0
40	QPSK	50	28	16.13	16.19	16.14	17.4	0.0
40	QPSK	50	56	15.93	16.04	16.01	17.4	0.0
40	QPSK	100	0	15.93	16.07	16.00		
40	16QAM	1	1	16.08	16.16	16.02	17.4	0.0
40	16QAM	1	1	16.04	16.09	16.03	17.4	0.0
40	256QAM	1	1	15.94	16.02	15.97	17.4	0.0
Channel								
Frequency (MHz)				637334	641666	646000		
30	QPSK	1	1	16.15	16.14	16.08	17.4	0.0
Channel								
Frequency (MHz)				3560.01	3624.99	3690		
20	QPSK	1	1	16.07	16.16	16.11	17.4	0.0



### Part270 n77 Ant2 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								
Frequency (MHz)								
100	PV2 BPSK	1	1	16.58	16.61	16.51	17.6	0.0
100	PV2 BPSK	1	137	16.60	16.64	16.50		
100	PV2 BPSK	1	271	16.43	16.56	16.47		
100	PV2 BPSK	135	0	16.50	16.54	16.44		
100	PV2 BPSK	135	69	16.43	16.48	16.45		
100	PV2 BPSK	135	138	16.47	16.53	16.43		
100	PV2 BPSK	270	0	16.51	16.56	16.51		
100	QPSK	1	1	16.80	16.86	16.83		
100	QPSK	1	137	16.47	16.54	16.45		
100	QPSK	1	271	16.44	16.47	16.34		
100	QPSK	135	0	16.39	16.50	16.39		
100	QPSK	135	69	16.53	16.59	16.52		
100	QPSK	135	138	16.34	16.40	16.36		
100	QPSK	270	0	16.44	16.48	16.37		
100	16QAM	1	1	16.40	16.53	16.48		
100	16QAM	1	1	16.33	16.43	16.37		
100	256QAM	1	1	16.21	16.36	16.25		
Channel								
Frequency (MHz)								
90	QPSK	1	1	16.51	16.56	16.54	17.6	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	16.52	16.54	16.51	17.6	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	16.55	16.65	16.56	17.6	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	16.48	16.63	16.52	17.6	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.53	16.60	16.52	17.6	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.48	16.65	16.54	17.6	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.57	16.55	16.54	17.6	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.49	16.53	16.49	17.6	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	16.54	16.61	16.50	17.6	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	16.50	16.64	16.59	17.6	0.0

### Part270 n77 PC2 Ant2 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								
Frequency (MHz)								
100	PV2 BPSK	1	1	19.61	19.65	19.54	20.6	0.0
100	PV2 BPSK	1	137	19.59	19.67	19.59		
100	PV2 BPSK	1	271	19.52	19.61	19.53		
100	PV2 BPSK	135	0	19.48	19.61	19.48		
100	PV2 BPSK	135	69	19.36	19.46	19.40		
100	PV2 BPSK	135	138	19.37	19.51	19.47		
100	PV2 BPSK	270	0	19.41	19.54	19.49		
100	QPSK	1	1	19.63	19.72	19.57		
100	QPSK	1	137	19.43	19.48	19.43		
100	QPSK	1	271	19.44	19.48	19.34		
100	QPSK	135	0	19.45	19.55	19.42		
100	QPSK	135	69	19.47	19.59	19.54		
100	QPSK	135	138	19.35	19.42	19.33		
100	QPSK	270	0	19.37	19.45	19.40		
100	16QAM	1	1	19.42	19.50	19.44		
100	16QAM	1	1	19.34	19.47	19.36		
100	256QAM	1	1	19.39	19.43	19.32		
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.60	19.62	19.51	20.6	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.57	19.54	19.49	20.6	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.53	19.66	19.45	20.6	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.59	19.65	19.50	20.6	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.49	19.59	19.50	20.6	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.58	19.62	19.43	20.6	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.50	19.59	19.43	20.6	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.59	19.59	19.49	20.6	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.49	19.60	19.46	20.6	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.49	19.58	19.46	20.6	0.0

### Part27Q n77 Ant2 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								
Frequency (MHz)								
100	PV2 BPSK	1	1			16.81	17.6	0.0
100	PV2 BPSK	1	137			16.84		
100	PV2 BPSK	1	271			16.74		
100	PV2 BPSK	135	0			16.71		
100	PV2 BPSK	135	69			16.69		
100	PV2 BPSK	135	138			16.72		
100	PV2 BPSK	270	0			16.78		
100	QPSK	1	1			16.86		
100	QPSK	1	137			16.78		
100	QPSK	1	271			16.66		
100	QPSK	135	0			16.74		
100	QPSK	135	69			16.84		
100	QPSK	135	138			16.80		
100	QPSK	270	0			16.84		
100	16QAM	1	1			16.75		
100	16QAM	1	1			16.59		
100	256QAM	1	1			16.63		
Channel								
Frequency (MHz)								
90	QPSK	1	1	16.76	16.78	16.74	17.6	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	16.70	16.75	16.81	17.6	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	16.74	16.73	16.83	17.6	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	16.82	16.82	16.72	17.6	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.76	16.76	16.74	17.6	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.74	16.83	16.79	17.6	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.77	16.79	16.75	17.6	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.74	16.81	16.83	17.6	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	16.73	16.80	16.76	17.6	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	16.82	16.78	16.78	17.6	0.0



Part27Q n77 PC2 Ant2 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				3500.01						
Frequency (MHz)				3500.01						
100	PI2 BPSK	1	1	19.80	19.77	19.74				
100	PI2 BPSK	1	137	19.77	19.74	19.71	20.6	0.0		
100	PI2 BPSK	1	271	19.74	19.71	19.68	20.6	0.0		
100	PI2 BPSK	135	69	19.70	19.67	19.64	20.6	0.0		
100	PI2 BPSK	135	69	19.52	19.49	19.46	20.6	0.0		
100	PI2 BPSK	135	138	19.63	19.60	19.57	20.6	0.0		
100	PI2 BPSK	270	0	19.88	19.85	19.82	20.6	0.0		
100	QPSK	1	1	19.81	19.78	19.75	20.6	0.0		
100	QPSK	1	137	19.59	19.56	19.53	20.6	0.0		
100	QPSK	1	271	19.62	19.59	19.56	20.6	0.0		
100	QPSK	135	0	19.60	19.57	19.54	20.6	0.0		
100	QPSK	135	69	19.65	19.62	19.59	20.6	0.0		
100	QPSK	135	138	19.59	19.56	19.53	20.6	0.0		
100	QPSK	270	0	19.59	19.56	19.53	20.6	0.0		
100	16QAM	1	1	19.62	19.59	19.56	20.6	0.0		
100	16QAM	1	1	19.56	19.53	19.50	20.6	0.0		
100	256QAM	1	1	19.59	19.56	19.53	20.6	0.0		
Channel				633000	633334	633668	Tune-up limit	MPR		
Frequency (MHz)				3495	3500.01	3505.02				
90	QPSK	1	1	19.69	19.77	19.71	20.6	0.0		
Channel				632668	633334	634000	Tune-up limit	MPR		
Frequency (MHz)				3492.02	3500.01	3510.00				
80	QPSK	1	1	19.75	19.69	19.69	20.6	0.0		
Channel				634334	633334	634334	Tune-up limit	MPR		
Frequency (MHz)				3486.01	3500.01	3515.01				
70	QPSK	1	1	19.67	19.73	19.68	20.6	0.0		
Channel				632000	633334	634668	Tune-up limit	MPR		
Frequency (MHz)				3480	3500.01	3520.02				
60	QPSK	1	1	19.71	19.67	19.69	20.6	0.0		
Channel				631668	633334	635000	Tune-up limit	MPR		
Frequency (MHz)				3475.02	3500.01	3525				
50	QPSK	1	1	19.71	19.75	19.73	20.6	0.0		
Channel				633334	633334	633334	Tune-up limit	MPR		
Frequency (MHz)				3470.01	3500.01	3530.01				
40	QPSK	1	1	19.72	19.67	19.75	20.6	0.0		
Channel				631000	633334	635668	Tune-up limit	MPR		
Frequency (MHz)				3455	3500.01	3537.02				
30	QPSK	1	1	19.70	19.71	19.70	20.6	0.0		
Channel				630668	633334	636000	Tune-up limit	MPR		
Frequency (MHz)				3460.02	3500.01	3540				
20	QPSK	1	1	19.68	19.69	19.76	20.6	0.0		
Channel				632500	633334	636168	Tune-up limit	MPR		
Frequency (MHz)				3455.01	3500.01	3542.92				
15	QPSK	1	1	19.74	19.70	19.74	20.6	0.0		
Channel				630334	633334	636334	Tune-up limit	MPR		
Frequency (MHz)				3455.01	3500.01	3545.01				
10	QPSK	1	1	19.70	19.75	19.72	20.6	0.0		

Part27O n78 Ant2 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				3750						
Frequency (MHz)				3750						
100	PI2 BPSK	1	1	16.48	16.48	16.48				
100	PI2 BPSK	1	137	16.55	16.55	16.55	17.6	0.0		
100	PI2 BPSK	1	271	16.47	16.47	16.47	17.6	0.0		
100	PI2 BPSK	135	0	16.45	16.45	16.45	17.6	0.0		
100	PI2 BPSK	135	69	16.43	16.43	16.43	17.6	0.0		
100	PI2 BPSK	135	138	16.40	16.40	16.40	17.6	0.0		
100	PI2 BPSK	270	0	16.51	16.51	16.51	17.6	0.0		
100	QPSK	1	1	16.57	16.57	16.57	17.6	0.0		
100	QPSK	1	137	16.48	16.48	16.48	17.6	0.0		
100	QPSK	1	271	16.33	16.33	16.33	17.6	0.0		
100	QPSK	135	0	16.48	16.48	16.48	17.6	0.0		
100	QPSK	135	69	16.51	16.51	16.51	17.6	0.0		
100	QPSK	135	138	16.31	16.31	16.31	17.6	0.0		
100	QPSK	270	0	16.33	16.33	16.33	17.6	0.0		
100	16QAM	1	1	16.43	16.43	16.43	17.6	0.0		
100	16QAM	1	1	16.39	16.39	16.39	17.6	0.0		
100	256QAM	1	1	16.34	16.34	16.34	17.6	0.0		
Channel				640668	650000	650334	Tune-up limit	MPR		
Frequency (MHz)				3745.02	3750	3755.01				
90	QPSK	1	1	16.43	16.49	16.45	17.6	0.0		
Channel				649334	650000	650668	Tune-up limit	MPR		
Frequency (MHz)				3740.01	3750	3760.02				
80	QPSK	1	1	16.47	16.54	16.51	17.6	0.0		
Channel				649000	650000	651000	Tune-up limit	MPR		
Frequency (MHz)				3735	3750	3765				
70	QPSK	1	1	16.51	16.45	16.51	17.6	0.0		
Channel				648668	650000	651334	Tune-up limit	MPR		
Frequency (MHz)				3730.02	3750	3770.01				
60	QPSK	1	1	16.49	16.43	16.47	17.6	0.0		
Channel				648334	650000	651668	Tune-up limit	MPR		
Frequency (MHz)				3725.01	3750	3775.02				
50	QPSK	1	1	16.44	16.48	16.46	17.6	0.0		
Channel				648000	650000	652000	Tune-up limit	MPR		
Frequency (MHz)				3720	3750	3780				
40	QPSK	1	1	16.53	16.46	16.52	17.6	0.0		
Channel				647668	650000	652334	Tune-up limit	MPR		
Frequency (MHz)				3723.02	3750	3783.01				
30	QPSK	1	1	16.46	16.52	16.52	17.6	0.0		
Channel				647334	650000	652668	Tune-up limit	MPR		
Frequency (MHz)				3710.01	3750	3790.02				
20	QPSK	1	1	16.50	16.44	16.54	17.6	0.0		
Channel				647168	650000	652934	Tune-up limit	MPR		
Frequency (MHz)				3707.92	3750	3792.51				
15	QPSK	1	1	16.42	16.47	16.51	17.6	0.0		
Channel				647000	650000	653000	Tune-up limit	MPR		
Frequency (MHz)				3705	3750	3795				
10	QPSK	1	1	16.50	16.50	16.53	17.6	0.0		

Part27Q n78 Ant2 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				3500.01						
Frequency (MHz)				3500.01						
100	PI2 BPSK	1	1	16.84	16.84	16.84				
100	PI2 BPSK	1	137	16.82	16.82	16.82	17.6	0.0		
100	PI2 BPSK	1	271	16.53	16.53	16.53	17.6	0.0		
100	PI2 BPSK	135	0	16.56	16.56	16.56	17.6	0.0		
100	PI2 BPSK	135	69	16.51	16.51	16.51	17.6	0.0		
100	PI2 BPSK	135	138	16.55	16.55	16.55	17.6	0.0		
100	PI2 BPSK	270	0	16.82	16.82	16.82	17.6	0.0		
100	QPSK	1	1	16.71	16.71	16.71	17.6	0.0		
100	QPSK	1	137	16.63	16.63	16.63	17.6	0.0		
100	QPSK	1	271	16.45	16.45	16.45	17.6	0.0		
100	QPSK	135	0	16.81	16.81	16.81	17.6	0.0		
100	QPSK	135	69	16.59	16.59	16.59	17.6	0.0		
100	QPSK	135	138	16.45	16.45	16.45	17.6	0.0		
100	QPSK	270	0	16.45	16.45	16.45	17.6	0.0		
100	16QAM	1	1	16.55	16.55	16.55	17.6	0.0		
100	16QAM	1	1	16.46	16.46	16.46	17.6	0.0		
100	256QAM	1	1	16.43	16.43	16.43	17.6	0.0		
Channel				633000	633334	633668	Tune-up limit	MPR		
Frequency (MHz)				3495	3500.01	3505.02				
90	QPSK	1	1	16.84	16.67	16.82	17.6	0.0		
Channel				632668	633334	634000	Tune-up limit	MPR		
Frequency (MHz)				3492.02	3500.01	3510.00				
80	QPSK	1	1	16.69	16.61	16.60	17.6	0.0		
Channel				632334	633334	634334	Tune-up limit	MPR		
Frequency (MHz)				3486.01	3500.01	3515.01				
70	QPSK	1	1	16.65	16.63	16.68	17.6	0.0		
Channel				632000	633334	634668	Tune-up limit	MPR		
Frequency (MHz)				3480	3500.01	3520.02				
60	QPSK	1	1	16.58	16.59	16.66	17.6	0.0		
Channel				631668	633334	635000	Tune-up limit	MPR		
Frequency (MHz)				3475.02	3500.01	3525				
50	QPSK	1	1	16.65	16.60	16.66	17.6	0.0		
Channel				631334	633334	635334	Tune-up limit	MPR		
Frequency (MHz)				3470.01	3500.01	3530.01				
40	QPSK	1	1	16.67	16.62	16.67	17.6	0.0		
Channel				631000	633334	635668	Tune-up limit	MPR		
Frequency (MHz)				3465	3500.01	3537.02				
30	QPSK	1	1	16.64	16.57	16.64</				



### Part270 n77 Ant4 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.58	19.64	19.53		
100	PI2 BPSK	1	137	19.52	19.60	19.54	20.7	0.0
100	PI2 BPSK	1	271	19.51	19.59	19.50		
100	PI2 BPSK	135	0	19.55	19.60	19.46	20.7	0.0
100	PI2 BPSK	135	69	19.40	19.46	19.37	20.7	0.0
100	PI2 BPSK	135	138	19.48	19.51	19.44	20.7	0.0
100	PI2 BPSK	270	0	19.54	19.59	19.45		
100	QPSK	1	1	19.63	19.67	19.59		
100	QPSK	1	137	19.44	19.58	19.53	20.7	0.0
100	QPSK	1	271	19.32	19.48	19.41		
100	QPSK	135	0	19.49	19.54	19.42	20.7	0.0
100	QPSK	135	69	19.43	19.28	19.47	20.7	0.0
100	QPSK	135	138	19.30	19.44	19.31	20.7	0.0
100	QPSK	270	0	19.37	19.47	19.36		
100	16QAM	1	1	19.42	19.50	19.38	20.7	0.0
100	16QAM	1	1	19.27	19.40	19.35	20.7	0.0
100	256QAM	1	1	19.68	19.03	19.68	19.5	1.2
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.55	19.58	19.51	20.7	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.53	19.61	19.47	20.7	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.56	19.56	19.48	20.7	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.51	19.59	19.52	20.7	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.40	19.61	19.45	20.7	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.49	19.60	19.48	20.7	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.45	19.58	19.45	20.7	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.48	19.59	19.51	20.7	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.52	19.55	19.50	20.7	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.57	19.58	19.54	20.7	0.0

### Part270 n77 PC2 Ant4 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.60	22.62	22.59		
100	PI2 BPSK	1	137	22.54	22.61	22.58	23.7	0.0
100	PI2 BPSK	1	271	22.48	22.64	22.57		
100	PI2 BPSK	135	0	22.58	22.60	22.43	23.7	0.0
100	PI2 BPSK	135	69	22.47	22.46	22.36	23.7	0.0
100	PI2 BPSK	135	138	22.55	22.54	22.51	23.7	0.0
100	PI2 BPSK	270	0	22.53	22.57	22.49		
100	QPSK	1	1	22.61	22.67	22.59		
100	QPSK	1	137	22.44	22.58	22.59	23.7	0.0
100	QPSK	1	271	22.29	22.41	22.37		
100	QPSK	135	0	22.54	22.60	22.40	23.7	0.0
100	QPSK	135	69	22.43	22.53	22.48	23.7	0.0
100	QPSK	135	138	22.35	22.44	22.37	23.7	0.0
100	QPSK	270	0	22.43	22.53	22.39		
100	16QAM	1	1	22.45	22.55	22.34	23.7	0.0
100	16QAM	1	1	22.31	22.36	22.38	23.7	0.0
100	256QAM	1	1	21.21	21.26	21.22	22.5	1.2
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.57	22.63	22.49	23.7	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.49	22.56	22.50	23.7	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.47	22.54	22.47	23.7	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.58	22.60	22.50	23.7	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.46	22.54	22.54	23.7	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.58	22.61	22.51	23.7	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.48	22.62	22.45	23.7	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.50	22.52	22.58	23.7	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.53	22.63	22.44	23.7	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.54	22.60	22.51	23.7	0.0

### Part270 n77 Ant4 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								
Frequency (MHz)								
100	PI2 BPSK	1	1		3500.01			
100	PI2 BPSK	1	137		19.57		20.7	0.0
100	PI2 BPSK	1	271		19.45			
100	PI2 BPSK	135	0		19.55		20.7	0.0
100	PI2 BPSK	135	69		19.40		20.7	0.0
100	PI2 BPSK	135	138		19.40		20.7	0.0
100	PI2 BPSK	270	0		19.53			
100	QPSK	1	1		19.58			
100	QPSK	1	137		19.53		20.7	0.0
100	QPSK	1	271		19.35			
100	QPSK	135	0		19.39		20.7	0.0
100	QPSK	135	69		19.46		20.7	0.0
100	QPSK	135	138		19.30		20.7	0.0
100	QPSK	270	0		19.38			
100	16QAM	1	1		19.37		20.7	0.0
100	16QAM	1	1		19.30		20.7	0.0
100	256QAM	1	1		19.05		19.5	1.2
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.51	19.55	19.52	20.7	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.48	19.52	19.52	20.7	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.54	19.47	19.46	20.7	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.54	19.48	19.48	20.7	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.51	19.44	19.45	20.7	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.47	19.47	19.51	20.7	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.45	19.47	19.49	20.7	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.44	19.50	19.47	20.7	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.49	19.55	19.49	20.7	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.52	19.52	19.48	20.7	0.0



Part27Q n77 PC2 Ant4 DS16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3500.01					
Frequency (MHz)				3500.01					
100	Pl2 BPSK	1	1	22.54					
100	Pl2 BPSK	1	137	22.52			23.7	0.0	
100	Pl2 BPSK	1	271	22.52					
100	Pl2 BPSK	135	0	22.54			23.7	0.0	
100	Pl2 BPSK	135	69	22.41			23.7	0.0	
100	Pl2 BPSK	135	138	22.48			23.7	0.0	
100	Pl2 BPSK	270	0	22.49					
100	QPSK	1	1	22.59					
100	QPSK	1	137	22.47			23.7	0.0	
100	QPSK	1	271	22.29					
100	QPSK	135	0	22.39			23.7	0.0	
100	QPSK	135	69	22.47			23.7	0.0	
100	QPSK	135	138	22.37			23.7	0.0	
100	QPSK	270	0	22.43					
100	16QAM	1	1	22.49			23.7	0.0	
100	64QAM	1	1	22.30			23.7	0.0	
100	256QAM	1	1	21.82			23.5	1.2	
Channel				633000	633334	633668			
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	22.48	22.56	22.49	23.7	0.0	
Channel				632688	633334	634000			
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	22.47	22.44	22.48	23.7	0.0	
Channel				632334	633334	634334			
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	22.50	22.53	22.54	23.7	0.0	
Channel				632000	633334	634668			
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	22.48	22.54	22.52	23.7	0.0	
Channel				631668	633334	635000			
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	22.53	22.53	22.50	23.7	0.0	
Channel				631334	633334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	22.48	22.51	22.49	23.7	0.0	
Channel				631000	633334	635668			
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	22.55	22.55	22.55	23.7	0.0	
Channel				630688	633334	636000			
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	22.50	22.47	22.54	23.7	0.0	
Channel				630500	633334	636334			
Frequency (MHz)				3455.01	3500.01	3545.02			
15	QPSK	1	1	22.53	22.50	22.49	23.7	0.0	
Channel				630334	633334	636668			
Frequency (MHz)				3450.01	3500.01	3545.01			
10	QPSK	1	1	22.45	22.48	22.45	23.7	0.0	

Part27O n78 Ant4 DS16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3750					
Frequency (MHz)				3750					
100	Pl2 BPSK	1	1	19.61					
100	Pl2 BPSK	1	137	19.49			20.7	0.0	
100	Pl2 BPSK	1	271	19.44					
100	Pl2 BPSK	135	0	19.52			20.7	0.0	
100	Pl2 BPSK	135	69	19.41			20.7	0.0	
100	Pl2 BPSK	135	138	19.40			20.7	0.0	
100	Pl2 BPSK	270	0	19.52					
100	QPSK	1	1	19.64					
100	QPSK	1	137	19.51			20.7	0.0	
100	QPSK	1	271	19.39					
100	QPSK	135	0	19.51			20.7	0.0	
100	QPSK	135	69	19.53			20.7	0.0	
100	QPSK	135	138	19.33			20.7	0.0	
100	QPSK	270	0	19.42					
100	16QAM	1	1	19.39			20.7	0.0	
100	64QAM	1	1	19.33			20.7	0.0	
100	256QAM	1	1	19.06			20.0	0.7	
Channel				649688	650000	650334			
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	19.56	19.60	19.53	20.7	0.0	
Channel				649334	650000	650668			
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	19.59	19.58	19.54	20.7	0.0	
Channel				649000	650000	651000			
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	19.60	19.59	19.51	20.7	0.0	
Channel				648668	650000	651334			
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	19.58	19.55	19.59	20.7	0.0	
Channel				648334	650000	651668			
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	19.51	19.56	19.59	20.7	0.0	
Channel				648000	650000	652000			
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	19.56	19.58	19.59	20.7	0.0	
Channel				647668	650000	652334			
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	19.54	19.51	19.50	20.7	0.0	
Channel				647334	650000	652668			
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	19.54	19.57	19.53	20.7	0.0	
Channel				647000	650000	653000			
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	19.54	19.52	19.51	20.7	0.0	

Part27Q n78 Ant4 DS16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				3500.01					
Frequency (MHz)				3500.01					
100	Pl2 BPSK	1	1	19.71					
100	Pl2 BPSK	1	137	19.59			20.7	0.0	
100	Pl2 BPSK	1	271	19.49					
100	Pl2 BPSK	135	0	19.67			20.7	0.0	
100	Pl2 BPSK	135	69	19.47			20.7	0.0	
100	Pl2 BPSK	135	138	19.46			20.7	0.0	
100	Pl2 BPSK	270	0	19.67					
100	QPSK	1	1	19.80					
100	QPSK	1	137	19.64			20.7	0.0	
100	QPSK	1	271	19.50					
100	QPSK	135	0	19.63			20.7	0.0	
100	QPSK	135	69	19.66			20.7	0.0	
100	QPSK	135	138	19.44			20.7	0.0	
100	QPSK	270	0	19.54					
100	16QAM	1	1	19.50			20.7	0.0	
100	64QAM	1	1	19.41			20.7	0.0	
100	256QAM	1	1	19.19			20.0	0.7	
Channel				633000	633334	633668			
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	19.70	19.74	19.67	20.7	0.0	
Channel				632688	633334	634000			
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	19.72	19.76	19.75	20.7	0.0	
Channel				632334	633334	634334			
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	19.67	19.70	19.72	20.7	0.0	
Channel				632000	633334	634668			
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	19.77	19.76	19.70	20.7	0.0	
Channel				631668	633334	635000			
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	19.69	19.77	19.73	20.7	0.0	
Channel				631334	633334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	19.73	19.67	19.72	20.7	0.0	
Channel				631000	633334	635668			
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	19.67	19.72	19.76	20.7	0.0	
Channel				630688	633334	636000			
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	19.69	19.76	19.85	20.7	0.0	
Channel				630500	633334	636334			
Frequency (MHz)				3455.01	3500.01	3545.02			
15	QPSK	1	1	19.67	19.65	19.68	20.7	0.0	
Channel				630334	633334	636668			
Frequency (MHz)				3450.01	3500.01	3545.01			
10	QPSK	1	1	19.70	19.70	19.70	20.7	0.0	



### Part270 n77 Ant5 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.31	19.42	19.37		
100	PI2 BPSK	1	137	19.27	19.38	19.25	20.5	0.0
100	PI2 BPSK	1	271	19.26	19.21	19.08		
100	PI2 BPSK	135	0	19.30	19.44	19.36	20.5	0.0
100	PI2 BPSK	135	69	19.29	19.35	19.28	20.5	0.0
100	PI2 BPSK	135	138	19.27	19.31	19.24	20.5	0.0
100	PI2 BPSK	270	0	19.28	19.40	19.30		
100	QPSK	1	1	19.37	19.45	19.33		
100	QPSK	1	137	19.28	19.39	19.34	20.5	0.0
100	QPSK	1	271	19.11	19.25	19.18		
100	QPSK	135	0	19.28	19.36	19.31	20.5	0.0
100	QPSK	135	69	19.32	19.41	19.27	20.5	0.0
100	QPSK	135	138	19.21	19.33	19.29	20.5	0.0
100	QPSK	270	0	19.32	19.38	19.27	20.5	0.0
100	16QAM	1	1	19.25	19.31	19.24	20.5	0.0
100	16QAM	1	1	19.19	19.27	19.20	20.5	0.0
100	256QAM	1	1	17.84	17.86	17.80	19.5	1.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.26	19.36	19.25	20.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.31	19.34	19.19	20.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.33	19.31	19.29	20.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.27	19.38	19.21	20.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.26	19.35	19.21	20.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.23	19.40	19.18	20.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.28	19.33	19.20	20.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.33	19.39	19.24	20.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.31	19.42	19.25	20.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.27	19.30	19.28	20.5	0.0

### Part270 n77 PC2 Ant5 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.34	22.44	22.40		
100	PI2 BPSK	1	137	22.30	22.39	22.25	23.5	0.0
100	PI2 BPSK	1	271	22.30	22.34	22.21		
100	PI2 BPSK	135	0	22.24	22.30	22.24	23.5	0.0
100	PI2 BPSK	135	69	22.27	22.42	22.28	23.5	0.0
100	PI2 BPSK	135	138	22.20	22.31	22.18	23.5	0.0
100	PI2 BPSK	270	0	22.27	22.39	22.29		
100	QPSK	1	1	22.36	22.48	22.41		
100	QPSK	1	137	22.30	22.45	22.38	23.5	0.0
100	QPSK	1	271	22.23	22.37	22.33		
100	QPSK	135	0	22.35	22.39	22.33	23.5	0.0
100	QPSK	135	69	22.39	22.43	22.39	23.5	0.0
100	QPSK	135	138	22.21	22.28	22.24	23.5	0.0
100	QPSK	270	0	22.30	22.35	22.29	23.5	0.0
100	16QAM	1	1	22.36	22.41	22.37	23.5	0.0
100	16QAM	1	1	22.20	22.34	22.27	23.5	0.0
100	256QAM	1	1	20.88	20.97	20.84	22.5	1.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.25	22.40	22.34	23.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.31	22.37	22.35	23.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.30	22.37	22.29	23.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.29	22.35	22.29	23.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.27	22.44	22.29	23.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.30	22.33	22.33	23.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.27	22.34	22.35	23.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.26	22.38	22.28	23.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.23	22.39	22.38	23.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.32	22.33	22.33	23.5	0.0

### Part270 n77 Ant5 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								
Frequency (MHz)								
100	PI2 BPSK	1	1		3500.01			
100	PI2 BPSK	1	137		19.56		20.5	0.0
100	PI2 BPSK	1	271		19.48			
100	PI2 BPSK	135	0		19.53		20.5	0.0
100	PI2 BPSK	135	69		19.56		20.5	0.0
100	PI2 BPSK	135	138		19.47		20.5	0.0
100	PI2 BPSK	270	0		19.54			
100	QPSK	1	1		19.58			
100	QPSK	1	137		19.61		20.5	0.0
100	QPSK	1	271		19.55			
100	QPSK	135	0		19.51		20.5	0.0
100	QPSK	135	69		19.59		20.5	0.0
100	QPSK	135	138		19.44		20.5	0.0
100	QPSK	270	0		19.52		20.5	0.0
100	16QAM	1	1		19.50		20.5	0.0
100	16QAM	1	1		19.28		20.5	0.0
100	256QAM	1	1		19.12		19.5	1.0
Channel								
Frequency (MHz)								
90	QPSK	1	1		19.62		20.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1		19.55		20.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1		19.64		20.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1		19.54		20.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1		19.59		20.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1		19.57		20.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1		19.58		20.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1		19.64		20.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1		19.66		20.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1		19.58		20.5	0.0



Part27Q n77 PC2 Ant5 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				3500.01					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1	22.77	22.77	22.77			
100	PI2 BPSK	1	137	22.73	22.73	22.73	23.5	0.0	
100	PI2 BPSK	1	271	22.60	22.60	22.60			
100	PI2 BPSK	135	0	22.57	22.57	22.57	23.5	0.0	
100	PI2 BPSK	135	69	22.74	22.74	22.74	23.5	0.0	
100	PI2 BPSK	135	138	22.44	22.44	22.44	23.5	0.0	
100	PI2 BPSK	270	0	22.50	22.50	22.50			
100	QPSK	1	1	22.76	22.76	22.76	23.5	0.0	
100	QPSK	1	137	22.70	22.70	22.70			
100	QPSK	1	271	22.68	22.68	22.68			
100	QPSK	135	0	22.64	22.64	22.64	23.5	0.0	
100	QPSK	135	69	22.76	22.76	22.76	23.5	0.0	
100	QPSK	135	138	22.56	22.56	22.56	23.5	0.0	
100	QPSK	270	0	22.63	22.63	22.63			
100	16QAM	1	1	22.58	22.58	22.58	23.5	0.0	
100	64QAM	1	1	22.54	22.54	22.54	23.5	0.0	
100	256QAM	1	1	20.85	20.85	20.85	22.5	1.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	22.73	22.76	22.71	23.5	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3492.02	3500.01	3510.00			
80	QPSK	1	1	22.75	22.70	22.74	23.5	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	22.73	22.75	22.75	23.5	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	22.78	22.70	22.71	23.5	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	22.81	22.73	22.73	23.5	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	22.74	22.77	22.73	23.5	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	22.72	22.74	22.77	23.5	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	22.76	22.81	22.80	23.5	0.0	
Channel				630300	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.02			
15	QPSK	1	1	22.74	22.72	22.73	23.5	0.0	
Channel				630000	633334	636668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3450.01	3500.01	3545.01			
10	QPSK	1	1	22.76	22.76	22.79	23.5	0.0	

Part27O n78 Ant5 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				650000					
Frequency (MHz)				3750					
100	PI2 BPSK	1	1	19.46	19.46	19.46			
100	PI2 BPSK	1	137	19.43	19.43	19.43	20.5	0.0	
100	PI2 BPSK	1	271	19.30	19.30	19.30			
100	PI2 BPSK	135	0	19.37	19.37	19.37	20.5	0.0	
100	PI2 BPSK	135	69	19.42	19.42	19.42	20.5	0.0	
100	PI2 BPSK	135	138	19.34	19.34	19.34	20.5	0.0	
100	PI2 BPSK	270	0	19.40	19.40	19.40			
100	QPSK	1	1	19.52	19.52	19.52	20.5	0.0	
100	QPSK	1	137	19.46	19.46	19.46			
100	QPSK	1	271	19.34	19.34	19.34			
100	QPSK	135	0	19.38	19.38	19.38	20.5	0.0	
100	QPSK	135	69	19.45	19.45	19.45	20.5	0.0	
100	QPSK	135	138	19.33	19.33	19.33	20.5	0.0	
100	QPSK	270	0	19.42	19.42	19.42			
100	16QAM	1	1	19.22	19.22	19.22	20.5	0.0	
100	64QAM	1	1	19.15	19.15	19.15	20.5	0.0	
100	256QAM	1	1	17.92	17.92	17.92	19.5	1.0	
Channel				648668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	19.39	19.46	19.42	20.5	0.0	
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	19.47	19.40	19.39	20.5	0.0	
Channel				648000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	19.46	19.38	19.41	20.5	0.0	
Channel				647668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	19.45	19.44	19.41	20.5	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	19.42	19.40	19.45	20.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	19.45	19.39	19.45	20.5	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	19.43	19.43	19.39	20.5	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	19.45	19.47	19.44	20.5	0.0	
Channel				647188	650000	652934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	19.47	19.42	19.40	20.5	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	19.44	19.48	19.38	20.5	0.0	

Part27Q n78 Ant5 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				633000					
Frequency (MHz)				633000					
100	PI2 BPSK	1	1	19.56	19.56	19.56			
100	PI2 BPSK	1	137	19.52	19.52	19.52	20.5	0.0	
100	PI2 BPSK	1	271	19.46	19.46	19.46			
100	PI2 BPSK	135	0	19.54	19.54	19.54	20.5	0.0	
100	PI2 BPSK	135	69	19.57	19.57	19.57	20.5	0.0	
100	PI2 BPSK	135	138	19.44	19.44	19.44	20.5	0.0	
100	PI2 BPSK	270	0	19.52	19.52	19.52			
100	QPSK	1	1	19.58	19.58	19.58	20.5	0.0	
100	QPSK	1	137	19.56	19.56	19.56			
100	QPSK	1	271	19.44	19.44	19.44			
100	QPSK	135	0	19.51	19.51	19.51	20.5	0.0	
100	QPSK	135	69	19.56	19.56	19.56	20.5	0.0	
100	QPSK	135	138	19.47	19.47	19.47	20.5	0.0	
100	QPSK	270	0	19.53	19.53	19.53			
100	16QAM	1	1	19.53	19.53	19.53	20.5	0.0	
100	64QAM	1	1	19.46	19.46	19.46	20.5	0.0	
100	256QAM	1	1	18.08	18.08	18.08	19.5	1.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	19.50	19.59	19.49	20.5	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3492.02	3500.01	3510.00			
80	QPSK	1	1	19.50	19.58	19.49	20.5	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	19.55	19.59	19.57	20.5	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	19.50	19.48	19.58	20.5	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	19.47	19.51	19.50	20.5	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	19.50	19.52	19.56	20.5	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	19.57	19.53	19.57	20.5	0.0	





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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2546.01	2552.99	2640		
100	PI2 BPSK	1	1	18.07	19.13	19.02		
100	PI2 BPSK	1	137	18.92	19.08	18.90	20.3	0.0
100	PI2 BPSK	1	271	18.71	18.97	18.72		
100	PI2 BPSK	135	0	18.89	19.04	18.74	20.3	0.0
100	PI2 BPSK	135	69	18.90	18.90	18.94	20.3	0.0
100	PI2 BPSK	135	138	18.96	18.88	18.99	20.3	0.0
100	PI2 BPSK	270	0	19.09	19.13	18.90		
100	QPSK	1	1	19.04	19.21	19.11		
100	QPSK	1	137	18.94	18.99	19.91	20.3	0.0
100	QPSK	1	271	18.93	19.01	18.90		
100	QPSK	135	0	18.98	18.91	18.73	20.3	0.0
100	QPSK	135	69	18.84	18.19	19.04	20.3	0.0
100	QPSK	135	138	18.85	18.79	18.86	20.3	0.0
100	QPSK	270	0	18.82	19.04	18.92		
100	16QAM	1	1	18.84	19.00	18.86	20.3	0.0
100	16QAM	1	1	18.89	19.01	18.71	20.3	0.0
100	256QAM	1	1	18.04	18.18	18.12	18.5	1.8
Channel								
Frequency (MHz)				5092.02	5109.98	5299.99		
90	QPSK	1	1	18.82	19.11	18.84	20.3	0.0
Channel								
Frequency (MHz)				5072.04	5189.98	5299.98		
80	QPSK	1	1	21.82	22.11	21.93	23.3	0.0
Channel								
Frequency (MHz)				5092.02	5189.98	5310.00		
70	QPSK	1	1	21.85	22.03	21.92	23.3	0.0
Channel								
Frequency (MHz)				5052.00	5189.98	5319.98		
60	QPSK	1	1	21.80	22.15	21.88	23.3	0.0
Channel								
Frequency (MHz)				5042.04	5189.98	5329.98		
50	QPSK	1	1	21.73	22.01	21.77	23.3	0.0
Channel								
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	21.87	21.96	21.82	23.3	0.0
Channel								
Frequency (MHz)				5022.00	5189.98	5349.98		
30	QPSK	1	1	21.70	21.97	21.88	23.3	0.0
Channel								
Frequency (MHz)				5012.04	5189.98	5359.98		
20	QPSK	1	1	21.83	22.05	21.76	23.3	0.0

### n41 PC2 Ant7

BW [MHz]	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)				2546.01	2552.99	2640		
100	PI2 BPSK	1	1	22.08	22.01	21.94		
100	PI2 BPSK	1	137	21.89	22.06	21.83	23.3	0.0
100	PI2 BPSK	1	271	21.74	22.11	21.94		
100	PI2 BPSK	135	0	21.80	21.92	21.82	23.3	0.0
100	PI2 BPSK	135	69	21.98	22.05	21.98	23.3	0.0
100	PI2 BPSK	135	138	21.68	21.94	21.70	23.3	0.0
100	PI2 BPSK	270	0	21.89	21.81	21.71		
100	QPSK	1	1	21.97	22.24	22.03		
100	QPSK	1	137	22.06	22.02	22.00	23.3	0.0
100	QPSK	1	271	22.06	22.13	21.86		
100	QPSK	135	0	21.95	21.98	21.83	23.3	0.0
100	QPSK	135	69	22.06	22.11	21.98	23.3	0.0
100	QPSK	135	138	21.84	21.89	21.96	23.3	0.0
100	QPSK	270	0	21.86	21.99	21.79		
100	16QAM	1	1	21.86	21.96	21.97	23.3	0.0
100	16QAM	1	1	21.57	21.58	21.46	23.3	0.0
100	256QAM	1	1	20.13	20.19	20.07	21.5	1.8
Channel								
Frequency (MHz)				6092.00	6189.98	6299.99		
90	QPSK	1	1	21.70	22.10	21.78	23.3	0.0
Channel								
Frequency (MHz)				5072.04	5189.98	5299.98		
80	QPSK	1	1	21.82	22.11	21.93	23.3	0.0
Channel								
Frequency (MHz)				5092.02	5189.98	5310.00		
70	QPSK	1	1	21.85	22.03	21.92	23.3	0.0
Channel								
Frequency (MHz)				5052.00	5189.98	5319.98		
60	QPSK	1	1	21.80	22.15	21.88	23.3	0.0
Channel								
Frequency (MHz)				5042.04	5189.98	5329.98		
50	QPSK	1	1	21.73	22.01	21.77	23.3	0.0
Channel								
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	21.87	21.96	21.82	23.3	0.0
Channel								
Frequency (MHz)				5022.00	5189.98	5349.98		
30	QPSK	1	1	21.70	21.97	21.88	23.3	0.0
Channel								
Frequency (MHz)				5012.04	5189.98	5359.98		
20	QPSK	1	1	21.83	22.05	21.76	23.3	0.0

### Part270 n77 Ant7 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								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	18.36	18.44	18.41		
100	PI2 BPSK	1	137	18.31	18.35	18.31	20.3	0.0
100	PI2 BPSK	1	271	18.39	18.34	18.33		
100	PI2 BPSK	135	0	18.39	18.32	18.32	20.3	0.0
100	PI2 BPSK	135	69	18.32	18.35	18.39	20.3	0.0
100	PI2 BPSK	135	138	18.38	18.39	18.32	20.3	0.0
100	PI2 BPSK	270	0	18.37	18.33	18.36		
100	QPSK	1	1	18.49	18.52	18.45		
100	QPSK	1	137	18.32	18.35	18.33	20.3	0.0
100	QPSK	1	271	18.34	18.40	18.32		
100	QPSK	135	0	18.38	18.38	18.34	20.3	0.0
100	QPSK	135	69	18.38	18.39	18.38	20.3	0.0
100	QPSK	135	138	18.34	18.36	18.31	20.3	0.0
100	QPSK	270	0	18.35	18.39	18.33		
100	16QAM	1	1	18.32	18.39	18.32	20.3	0.0
100	16QAM	1	1	18.32	18.35	18.36	20.3	0.0
100	256QAM	1	1	17.95	18.08	17.93	19.5	0.8
Channel								
Frequency (MHz)				6499.98	6599.99	6699.99		
90	QPSK	1	1	18.35	18.41	18.33	20.3	0.0
Channel								
Frequency (MHz)				6493.34	6599.99	6626.68		
80	QPSK	1	1	18.35	18.39	18.32	20.3	0.0
Channel								
Frequency (MHz)				6490.00	6599.99	6630.00		
70	QPSK	1	1	18.34	18.33	18.33	20.3	0.0
Channel								
Frequency (MHz)				6486.68	6599.99	6633.34		
60	QPSK	1	1	18.36	18.36	18.36	20.3	0.0
Channel								
Frequency (MHz)				6483.34	6599.99	6636.68		
50	QPSK	1	1	18.33	18.38	18.39	20.3	0.0
Channel								
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	18.39	18.37	18.34	20.3	0.0
Channel								
Frequency (MHz)				6476.68	6599.99	6643.34		
30	QPSK	1	1	18.33	18.39	18.34	20.3	0.0
Channel								
Frequency (MHz)				6473.34	6599.99	6646.68		
20	QPSK	1	1	18.33	18.31	18.36	20.3	0.0
Channel								
Frequency (MHz)				3702.62	3840	3972.51		
15	QPSK	1	1	18.39	18.36	18.36	20.3	0.0
Channel								
Frequency (MHz)				6470.00	6599.99	6650.00		
10	QPSK	1	1	18.39	18.32	18.37	20.3	0.0



Part270 n77 PC2 Ant7 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									
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	21.37	21.43	21.34			
100	PI2 BPSK	1	137	21.39	21.39	21.31	23.3	0.0	
100	PI2 BPSK	1	271	21.38	21.33	21.35			
100	PI2 BPSK	135	0	21.38	21.34	21.32	23.3	0.0	
100	PI2 BPSK	135	69	21.38	21.41	21.40	23.3	0.0	
100	PI2 BPSK	135	138	21.40	21.36	21.33	23.3	0.0	
100	PI2 BPSK	270	0	21.34	21.40	21.37			
100	QPSK	1	1	21.40	21.33	21.47			
100	QPSK	1	137	21.39	21.38	21.31	23.3	0.0	
100	QPSK	1	271	21.33	21.44	21.33			
100	QPSK	135	0	21.37	21.37	21.37	23.3	0.0	
100	QPSK	135	69	21.31	21.46	21.45	23.3	0.0	
100	QPSK	135	138	21.35	21.39	21.38	23.3	0.0	
100	QPSK	270	0	21.33	21.42	21.34			
100	16QAM	1	1	21.33	21.33	21.35	23.3	0.0	
100	16QAM	1	1	21.33	21.39	21.31	23.3	0.0	
100	256QAM	1	1	20.89	20.95	20.92	22.5	0.8	
Channel									
Frequency (MHz)				649668	650000	650332	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	21.40	21.41	21.33	23.3	0.0	
Channel									
Frequency (MHz)				649334	650000	649668	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	21.34	21.40	21.30	23.3	0.0	
Channel									
Frequency (MHz)				645000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	21.35	21.42	21.37	23.3	0.0	
Channel									
Frequency (MHz)				646668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	21.37	21.45	21.39	23.3	0.0	
Channel									
Frequency (MHz)				648334	650000	648668	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	21.37	21.39	21.42	23.3	0.0	
Channel									
Frequency (MHz)				3720	3840	3960	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	21.33	21.46	21.39	23.3	0.0	
Channel									
Frequency (MHz)				647668	650000	648334	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	21.35	21.39	21.32	23.3	0.0	
Channel									
Frequency (MHz)				647334	650000	646668	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	21.38	21.41	21.37	23.3	0.0	
Channel									
Frequency (MHz)				647168	650000	648334	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	21.32	21.44	21.39	23.3	0.0	
Channel									
Frequency (MHz)				647000	650000	650000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	21.35	21.39	21.44	23.3	0.0	

Part27Q n77 Ant7 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									
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1	18.78	18.78	18.78			
100	PI2 BPSK	1	137	18.88	18.88	18.88	20.3	0.0	
100	PI2 BPSK	1	271	18.70	18.70	18.70			
100	PI2 BPSK	135	0	18.73	18.73	18.73	20.3	0.0	
100	PI2 BPSK	135	69	18.74	18.74	18.74	20.3	0.0	
100	PI2 BPSK	135	138	18.87	18.87	18.87	20.3	0.0	
100	PI2 BPSK	270	0	18.82	18.82	18.82			
100	QPSK	1	1	18.87	18.87	18.87			
100	QPSK	1	137	18.79	18.79	18.79	20.3	0.0	
100	QPSK	1	271	18.78	18.78	18.78			
100	QPSK	135	0	18.77	18.77	18.77	20.3	0.0	
100	QPSK	135	69	18.83	18.83	18.83	20.3	0.0	
100	QPSK	135	138	18.70	18.70	18.70	20.3	0.0	
100	QPSK	270	0	18.76	18.76	18.76			
100	16QAM	1	1	18.73	18.73	18.73	20.3	0.0	
100	16QAM	1	1	18.85	18.85	18.85	20.3	0.0	
100	256QAM	1	1	17.95	17.95	17.95	19.5	0.8	
Channel									
Frequency (MHz)				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	18.75	18.78	18.77	20.3	0.0	
Channel									
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	18.75	18.80	18.70	20.3	0.0	
Channel									
Frequency (MHz)				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	18.79	18.80	18.83	20.3	0.0	
Channel									
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	18.74	18.82	18.77	20.3	0.0	
Channel									
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	18.75	18.82	18.70	20.3	0.0	
Channel									
Frequency (MHz)				3470.01	3500.01	3530.01	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	18.72	18.83	18.70	20.3	0.0	
Channel									
Frequency (MHz)				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	18.82	18.83	18.74	20.3	0.0	
Channel									
Frequency (MHz)				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	18.74	18.82	18.75	20.3	0.0	
Channel									
Frequency (MHz)				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	18.75	18.78	18.72	20.3	0.0	
Channel									
Frequency (MHz)				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	18.77	18.82	18.79	20.3	0.0	

Part27Q n77 PC2 Ant7 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									
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1	22.00	22.00	22.00			
100	PI2 BPSK	1	137	21.96	21.96	21.96	23.3	0.0	
100	PI2 BPSK	1	271	21.97	21.97	21.97			
100	PI2 BPSK	135	0	21.88	21.88	21.88	23.3	0.0	
100	PI2 BPSK	135	69	21.94	21.94	21.94	23.3	0.0	
100	PI2 BPSK	135	138	21.79	21.79	21.79	23.3	0.0	
100	PI2 BPSK	270	0	21.95	21.95	21.95			
100	QPSK	1	1	22.07	22.07	22.07			
100	QPSK	1	137	21.96	21.96	21.96	23.3	0.0	
100	QPSK	1	271	21.98	21.98	21.98			
100	QPSK	135	0	21.75	21.75	21.75	23.3	0.0	
100	QPSK	135	69	21.96	21.96	21.96	23.3	0.0	
100	QPSK	135	138	21.87	21.87	21.87	23.3	0.0	
100	QPSK	270	0	21.90	21.90	21.90			
100	16QAM	1	1	21.70	21.70	21.70	23.3	0.0	
100	16QAM	1	1	21.84	21.84	21.84	23.3	0.0	
100	256QAM	1	1	21.33	21.33	21.33	22.5	0.8	
Channel									
Frequency (MHz)				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	21.96	22.00	21.92	23.3	0.0	
Channel									
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	21.97	21.96	21.90	23.3	0.0	
Channel									
Frequency (MHz)				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	22.00	21.94	21.93	23.3	0.0	
Channel									
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	21.98	22.00	22.03	23.3	0.0	
Channel									
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	22.02	21.95	21.94	23.3	0.0	
Channel									
Frequency (MHz)				3470.01	3500.01	3530.01	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	21.93	21.98	21.92	23.3	0.0	
Channel									
Frequency (MHz)				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	21.99	22.03	21.97	23.3	0.0	
Channel									
Frequency (MHz)				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	21.93	21.96	21.95	23.3	0.0	
Channel									
Frequency (MHz)				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	21.98	22.03	22.00	23.3	0.0	
Channel									
Frequency (MHz)				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	21.99	22.01	21.93	23.3	0.0	



Part270 n78 Ant7 DS16									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137		18.35				
100	PI2 BPSK	1	137		18.40				0.0
100	PI2 BPSK	1	271		18.34				
100	PI2 BPSK	135	0		18.32		20.3	0.0	
100	PI2 BPSK	135	69		18.31		20.3	0.0	
100	PI2 BPSK	135	138		18.39		20.3	0.0	
100	PI2 BPSK	270	0		18.38		20.3	0.0	
100	QPSK	1	1		18.33		20.3	0.0	
100	QPSK	1	137		18.38		20.3	0.0	
100	QPSK	1	271		18.38		20.3	0.0	
100	QPSK	135	0		18.33		20.3	0.0	
100	QPSK	135	69		18.41		20.3	0.0	
100	QPSK	135	138		18.34		20.3	0.0	
100	QPSK	270	0		18.35		20.3	0.0	
100	16QAM	1	1		18.32		20.3	0.0	
100	64QAM	1	1		18.38		20.3	0.0	
100	256QAM	1	1		17.55		19.5	0.8	
Channel									
Frequency (MHz)									
90	QPSK	1	1	64868	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3745.02	3750	3755.01	20.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3740.01	3750	3760.02	20.3	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	3735	3750	3765	20.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	648688	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3720.02	3750	3770.01	20.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3725.01	3750	3775.02	20.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	647868	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3720	3750	3780	20.3	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	3710.01	3750	3790.02	20.3	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3705	3750	3795	20.3	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.33	18.37	18.39	20.3	0.0	

Part27Q n78 Ant7 DS16									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 633000	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq. 633668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3500.01				
100	PI2 BPSK	1	137		18.60				
100	PI2 BPSK	1	137		18.57				0.0
100	PI2 BPSK	1	271		18.46				
100	PI2 BPSK	135	0		18.41		20.3	0.0	
100	PI2 BPSK	135	69		18.57		20.3	0.0	
100	PI2 BPSK	135	138		18.35		20.3	0.0	
100	PI2 BPSK	270	0		18.45		20.3	0.0	
100	QPSK	1	1		18.74		20.3	0.0	
100	QPSK	1	137		18.67		20.3	0.0	
100	QPSK	1	271		18.58		20.3	0.0	
100	QPSK	135	0		18.56		20.3	0.0	
100	QPSK	135	69		18.68		20.3	0.0	
100	QPSK	135	138		18.46		20.3	0.0	
100	QPSK	270	0		18.46		20.3	0.0	
100	16QAM	1	1		18.47		20.3	0.0	
100	64QAM	1	1		18.39		20.3	0.0	
100	256QAM	1	1		18.45		19.5	0.8	
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3485	3500.01	3505.02	20.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	3490.02	3500.01	3510	20.3	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	3486.01	3500.01	3515.01	20.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3480	3500.01	3520.02	20.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3475.02	3500.01	3525	20.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	631334	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3470.01	3500.01	3530.02	20.3	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	631000	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	3460.02	3500.01	3540	20.3	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	630668	633334	636668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3455.01	3500.01	3545.01	20.3	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	630334	633334	637334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.60	18.70	18.64	20.3	0.0	





Act 4-5		Full power Extremity for Simultaneous Extremity for Simultaneous ODS only					Head for Simultaneous		Head for Simultaneous ODS Hippot for Simultaneous W/WW/ODS		Head for Simultaneous W/WW/ODS		Head for Simultaneous W/WW/ODS		Hippot for Simultaneous W/WW/ODS		Body worn for Simultaneous		Body worn for Simultaneous ODS only		Body worn for Simultaneous W/WW/ODS		Body worn for Simultaneous W/WW/ODS		Extremity for Simultaneous W/WW/ODS		Extremity for Simultaneous W/WW/ODS		Duty Cycle %	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Power Spectral Density	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Duty Cycle %		
SIGH WLAN	802.11a-WBSS	149	5745	19.06	21.00	17	16.00	14.00	11.00	8.00	17.00	18.95	20.50	17.40	19.00	15.50	12.50	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00	98.23		
		157	5765	19.45	21.00	17	16.00	14.00	11.00	8.00	17.00	18.73	20.50	17.38	19.00	15.50	12.50	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00			
		159	5825	19.50	21.00	17	16.00	14.00	11.00	8.00	17.00	19.80	20.50	17.38	19.00	15.50	12.50	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00			
	802.11a-WT20 MCS0	149	5745	19.35	20.50	17	16.00	14.00	11.00	8.00	17.00	17.00	20.50	20.50	15.50	12.50	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00	100.00	
		157	5765	19.16	20.50	17	16.00	14.00	11.00	8.00	17.00	17.00	20.50	20.50	15.50	12.50	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00		
		159	5825	19.24	20.50	17	16.00	14.00	11.00	8.00	17.00	17.00	20.50	20.50	15.50	12.50	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00		
	802.11a-WT45 MCS0	151	5755	17.29	18.50	15	Not Required	16.00	14.00	Not Required	11.00	8.00	17.00	17.00	18.50	18.50	Not Required	15.50	Not Required	12.50	Not Required	16.50	Not Required	13.00	Not Required	16.50	13.00	16.50	13.00	100.00
		159	5795	17.07	18.50	15	Not Required	16.00	14.00	Not Required	11.00	8.00	17.00	17.00	18.50	18.50	Not Required	15.50	Not Required	12.50	Not Required	16.50	Not Required	13.00	Not Required	16.50	13.00	16.50	13.00	
		149	5745	19.40	20.50	17	Not Required	16.00	14.00	Not Required	11.00	8.00	17.00	17.00	20.50	20.50	15.50	12.50	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00		
	802.11a-WT24 MCS0	149	5745	19.15	20.50	17	Not Required	16.00	14.00	Not Required	11.00	8.00	17.00	17.00	20.50	20.50	15.50	12.50	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00	100.00	
		157	5765	19.30	20.50	17	Not Required	16.00	14.00	Not Required	11.00	8.00	17.00	17.00	20.50	20.50	15.50	12.50	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00		
		159	5825	19.30	20.50	17	Not Required	16.00	14.00	Not Required	11.00	8.00	17.00	17.00	20.50	20.50	15.50	12.50	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00		
802.11a-WT44 MCS0	151	5755	17.34	18.50	15	Not Required	16.00	14.00	Not Required	11.00	8.00	17.00	17.00	18.50	18.50	Not Required	15.50	Not Required	12.50	Not Required	16.50	Not Required	13.00	Not Required	16.50	13.00	16.50	13.00	100.00	
	159	5795	17.11	18.50	15	Not Required	16.00	14.00	Not Required	11.00	8.00	17.00	17.00	18.50	18.50	Not Required	15.50	Not Required	12.50	Not Required	16.50	Not Required	13.00	Not Required	16.50	13.00	16.50	13.00		
	155	5775	17.08	18.50	15	14.80	16.00	12.63	14.00	9.37	11.00	8.81	8.00	15.71	17.00	18.50	18.50	14.18	15.50	10.94	12.50	14.98	16.50	11.98	13.00	13.00	95.30			
802.11a-WT50 MCS0	149	5745	19.45	20.50	17	Not Required	16.00	14.00	Not Required	11.00	8.00	17.00	17.00	20.50	20.50	15.50	12.50	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00	100.00		
	157	5765	19.24	20.50	17	Not Required	16.00	14.00	Not Required	11.00	8.00	17.00	17.00	20.50	20.50	15.50	12.50	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00			
	159	5825	19.35	20.50	17	Not Required	16.00	14.00	Not Required	11.00	8.00	17.00	17.00	20.50	20.50	15.50	12.50	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00	16.50	13.00			
802.11a-HE40 MCS0	151	5755	17.45	18.50	15	Not Required	16.00	14.00	Not Required	11.00	8.00	17.00	17.00	18.50	18.50	Not Required	15.50	Not Required	12.50	Not Required	16.50	Not Required	13.00	Not Required	16.50	13.00	16.50	99.38		
	159	5795	17.19	18.50	15	Not Required	16.00	14.00	Not Required	11.00	8.00	17.00	17.00	18.50	18.50	Not Required	15.50	Not Required	12.50	Not Required	16.50	Not Required	13.00	Not Required	16.50	13.00	16.50			
	155	5775	17.12	18.50	15	Not Required	16.00	14.00	Not Required	11.00	8.00	17.00	17.00	18.50	18.50	Not Required	15.50	Not Required	12.50	Not Required	16.50	Not Required	13.00	Not Required	16.50	13.00	16.50	99.15		

BR/EDR Act 6		Average power (dBm)			Time-up Limit	
Mode	Channel	Frequency (MHz)	100pps	200pps	300pps	Time-up Limit
BR/EDR	CH 00	2402	11.23	10.13	10.24	10.00
	CH 30	2441	10.85	10.13	10.18	12.00
	CH 78	2480	10.44	7.39	7.40	11.50
Time-up Limit		11.00				

BLE 1M		Average power (dBm)			Daily cycle (PDF Factor)	
Mode	Channel	Frequency (MHz)	100pps	200pps	300pps	SAR Extent
LE	CH 00	2402	8.43	8.43	8.43	SAR Extent
	CH 19	2440	8.88	8.88	8.88	SAR Extent
	CH 30	2480	7.34	7.34	7.34	SAR Extent
Time-up Limit		11.00				

BLE 2M		Average power (dBm)			Daily cycle (PDF Factor)	
Mode	Channel	Frequency (MHz)	100pps	200pps	300pps	SAR Extent
LE	CH 00	2402	8.43	8.43	8.43	SAR Extent
	CH 19	2440	8.88	8.88	8.88	SAR Extent
	CH 30	2480	7.31	7.31	7.31	SAR Extent
Time-up Limit		11.00				

BR/EDR Act 3		Average power (dBm)			Daily cycle (PDF Factor)	
Mode	Channel	Frequency (MHz)	100pps	200pps	300pps	SAR Extent
BR/EDR	CH 00	2402	8.80	8.20	8.21	SAR Extent
	CH 30	2441	8.80	8.20	8.21	SAR Extent
	CH 78	2480	8.21	6.67	6.69	SAR Extent
Time-up Limit		10.50				

BLE 1M		Average power (dBm)			Daily cycle (PDF Factor)	
Mode	Channel	Frequency (MHz)	100pps	200pps	300pps	SAR Extent
LE	CH 00	2402	8.43	8.43	8.43	SAR Extent
	CH 19	2440	8.88	8.88	8.88	SAR Extent
	CH 30	2480	8.25	8.25	8.25	SAR Extent
Time-up Limit		10.00				

BLE 2M		Average power (dBm)			Daily cycle (PDF Factor)	
Mode	Channel	Frequency (MHz)	100pps	200pps	300pps	SAR Extent
LE	CH 00	2402	8.70	8.70	8.70	SAR Extent
	CH 19	2440	9.00	9.00	9.00	SAR Extent
	CH 30	2480	8.36	8.36	8.36	SAR Extent
Time-up Limit		10.00				