

Appendix D-2. GSM/UMTS/LTE/NR/NTN Output Power for Open mode

<GSM Conducted Power>

1. Per KDB 447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.
2. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. Therefore, the GPRS (4Tx slots) for GSM850/GSM1900 is considered as the primary mode.
3. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode, SAR measurement is not required for the secondary mode.

GSM850_Ant 0_Index 7/8	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	TX Channel	128	189		251	128	189		251
	Frequency (MHz)	824.2	836.4		848.8	824.2	836.4		848.8
GSM 1 Tx slot	32.20	32.21	32.27	33.50	23.20	23.21	23.27	24.50	
GPRS 1 Tx slot	32.42	32.47	32.60	33.50	23.42	23.47	23.60	24.50	
GPRS 2 Tx slots	31.01	30.85	30.95	32.50	25.01	24.85	24.95	26.50	
GPRS 3 Tx slots	30.30	30.02	29.95	31.50	26.04	25.76	25.69	27.24	
GPRS 4 Tx slots	29.16	28.82	28.89	30.50	26.16	25.82	25.89	27.50	
EDGE 1 Tx slot	26.42	26.41	26.58	27.50	17.42	17.41	17.58	18.50	
EDGE 2 Tx slots	25.52	25.42	25.50	26.50	19.52	19.42	19.50	20.50	
EDGE 3 Tx slots	24.07	24.23	24.03	25.50	19.81	19.97	19.77	21.24	
EDGE 4 Tx slots	23.02	22.91	22.89	24.50	20.02	19.91	19.89	21.50	

GSM1900_Ant 2_Index 7/8	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	30.04	29.95	29.94	30.50	21.04	20.95	20.94	21.50
GPRS 1 Tx slot	30.07	29.99	29.96	30.50	21.07	20.99	20.96	21.50
GPRS 2 Tx slots	27.86	27.89	27.72	29.00	21.86	21.89	21.72	23.00
GPRS 3 Tx slots	27.63	27.45	27.25	28.50	23.37	23.19	22.99	24.24
GPRS 4 Tx slots	26.36	26.31	25.94	27.50	23.36	23.31	22.94	24.50
EDGE 1 Tx slot	25.58	25.91	25.73	26.50	16.58	16.91	16.73	17.50
EDGE 2 Tx slots	24.53	24.39	24.40	25.50	18.53	18.39	18.40	19.50
EDGE 3 Tx slots	23.27	22.98	23.05	24.50	19.01	18.72	18.79	20.24
EDGE 4 Tx slots	22.98	23.05	22.38	23.50	19.98	20.05	19.38	20.50

GSM850_Ant 1_Index 7/8	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.55	32.52	32.41	32.90	23.55	23.52	23.41	23.90
GPRS 1 Tx slot	32.58	32.55	32.47	32.90	23.58	23.55	23.47	23.90
GPRS 2 Tx slots	29.18	28.86	28.92	29.90	23.18	22.86	22.92	23.90
GPRS 3 Tx slots	27.75	27.29	27.28	28.10	23.49	23.03	23.02	23.84
GPRS 4 Tx slots	26.36	26.34	26.27	26.90	23.36	23.34	23.27	23.90
EDGE 1 Tx slot	26.63	26.46	26.27	27.50	17.63	17.46	17.27	18.50
EDGE 2 Tx slots	25.31	25.53	25.24	26.50	19.31	19.53	19.24	20.50
EDGE 3 Tx slots	24.21	24.00	24.09	25.50	19.95	19.74	19.83	21.24
EDGE 4 Tx slots	22.87	22.93	22.70	24.50	19.87	19.93	19.70	21.50

GSM1900_Ant 1_Index 7/8	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	25.49	25.52	25.26	25.80	16.49	16.52	16.26	16.80
GPRS 1 Tx slot	25.18	24.98	25.09	25.80	16.18	15.98	16.09	16.80
GPRS 2 Tx slots	22.65	22.50	22.28	22.80	16.65	16.50	16.28	16.80
GPRS 3 Tx slots	20.77	20.41	20.18	21.00	16.51	16.15	15.92	16.74
GPRS 4 Tx slots	19.71	19.71	19.37	19.80	16.71	16.71	16.37	16.80
EDGE 1 Tx slot	25.38	25.26	25.40	25.80	16.38	16.26	16.40	16.80
EDGE 2 Tx slots	22.42	22.23	22.20	22.80	16.42	16.23	16.20	16.80
EDGE 3 Tx slots	20.90	20.51	20.52	21.00	16.64	16.25	16.26	16.74
EDGE 4 Tx slots	19.15	19.06	19.15	19.80	16.15	16.06	16.15	16.80

GSM850_Ant 0_Index 9	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.20	32.21	32.27	33.50	23.20	23.21	23.27	24.50
GPRS 1 Tx slot	32.42	32.47	32.60	33.50	23.42	23.47	23.60	24.50
GPRS 2 Tx slots	31.01	30.85	30.95	32.50	25.01	24.85	24.95	26.50
GPRS 3 Tx slots	30.30	30.02	29.95	31.30	26.04	25.76	25.69	27.04
GPRS 4 Tx slots	29.16	28.82	28.89	30.10	26.16	25.82	25.89	27.10
EDGE 1 Tx slot	26.42	26.41	26.58	27.50	17.42	17.41	17.58	18.50
EDGE 2 Tx slots	25.52	25.42	25.50	26.50	19.52	19.42	19.50	20.50
EDGE 3 Tx slots	24.07	24.23	24.03	25.50	19.81	19.97	19.77	21.24
EDGE 4 Tx slots	23.02	22.91	22.89	24.50	20.02	19.91	19.89	21.50

GSM1900_Ant 2_Index 9	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	24.95	24.98	24.91	25.00	15.95	15.98	15.91	16.00
GPRS 1 Tx slot	24.94	24.97	24.93	25.00	15.94	15.97	15.93	16.00
GPRS 2 Tx slots	21.85	21.91	21.88	22.00	15.85	15.91	15.88	16.00
GPRS 3 Tx slots	20.14	20.03	20.13	20.20	15.88	15.77	15.87	15.94
GPRS 4 Tx slots	18.69	18.68	18.72	19.00	15.69	15.68	15.72	16.00
EDGE 1 Tx slot	24.56	24.88	24.76	25.00	15.56	15.88	15.76	16.00
EDGE 2 Tx slots	21.94	21.83	21.91	22.00	15.94	15.83	15.91	16.00
EDGE 3 Tx slots	20.15	19.96	20.05	20.20	15.89	15.70	15.79	15.94
EDGE 4 Tx slots	18.94	19.00	18.59	19.00	15.94	16.00	15.59	16.00

GSM850_Ant 1_Index 9	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.55	32.52	32.41	33.50	23.55	23.52	23.41	24.50
GPRS 1 Tx slot	32.58	32.55	32.47	33.50	23.58	23.55	23.47	24.50
GPRS 2 Tx slots	31.19	30.79	30.78	32.50	25.19	24.79	24.78	26.50
GPRS 3 Tx slots	30.27	29.54	29.57	31.50	26.01	25.28	25.31	27.24
GPRS 4 Tx slots	29.34	28.75	28.68	30.50	26.34	25.75	25.68	27.50
EDGE 1 Tx slot	26.63	26.46	26.27	27.50	17.63	17.46	17.27	18.50
EDGE 2 Tx slots	25.31	25.53	25.24	26.50	19.31	19.53	19.24	20.50
EDGE 3 Tx slots	24.21	24.00	24.09	25.50	19.95	19.74	19.83	21.24
EDGE 4 Tx slots	22.87	22.93	22.70	24.50	19.87	19.93	19.70	21.50

GSM1900_Ant 1_Index 9	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	24.95	24.95	24.76	25.50	15.95	15.95	15.76	16.50
GPRS 1 Tx slot	24.68	24.38	24.59	25.50	15.68	15.38	15.59	16.50
GPRS 2 Tx slots	22.07	22.00	21.73	22.50	16.07	16.00	15.73	16.50
GPRS 3 Tx slots	20.24	19.90	19.66	20.70	15.98	15.64	15.40	16.44
GPRS 4 Tx slots	19.15	19.12	18.78	19.50	16.15	16.12	15.78	16.50
EDGE 1 Tx slot	24.86	24.71	24.85	25.50	15.86	15.71	15.85	16.50
EDGE 2 Tx slots	21.90	21.64	21.67	22.50	15.90	15.64	15.67	16.50
EDGE 3 Tx slots	20.30	20.01	19.95	20.70	16.04	15.75	15.69	16.44
EDGE 4 Tx slots	18.55	18.46	18.60	19.50	15.55	15.46	15.60	16.50

GSM850_Ant 0_Index 10	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.20	32.21	32.27	33.50	23.20	23.21	23.27	24.50
GPRS 1 Tx slot	32.42	32.47	32.60	33.50	23.42	23.47	23.60	24.50
GPRS 2 Tx slots	31.01	30.85	30.95	32.50	25.01	24.85	24.95	26.50
GPRS 3 Tx slots	30.30	30.02	29.95	31.50	26.04	25.76	25.69	27.24
GPRS 4 Tx slots	29.16	28.82	28.89	30.50	26.16	25.82	25.89	27.50
EDGE 1 Tx slot	26.42	26.41	26.58	27.50	17.42	17.41	17.58	18.50
EDGE 2 Tx slots	25.52	25.42	25.50	26.50	19.52	19.42	19.50	20.50
EDGE 3 Tx slots	24.07	24.23	24.03	25.50	19.81	19.97	19.77	21.24
EDGE 4 Tx slots	23.02	22.91	22.89	24.50	20.02	19.91	19.89	21.50

GSM1900_Ant 2_Index 10	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	24.95	24.98	24.91	25.80	15.95	15.98	15.91	16.80
GPRS 1 Tx slot	24.94	24.97	24.93	25.80	15.94	15.97	15.93	16.80
GPRS 2 Tx slots	21.85	21.91	21.88	22.80	15.85	15.91	15.88	16.80
GPRS 3 Tx slots	20.14	20.03	20.13	21.00	15.88	15.77	15.87	16.74
GPRS 4 Tx slots	18.69	18.68	18.72	19.80	15.69	15.68	15.72	16.80
EDGE 1 Tx slot	24.56	24.88	24.76	25.80	15.56	15.88	15.76	16.80
EDGE 2 Tx slots	21.94	21.83	21.91	22.80	15.94	15.83	15.91	16.80
EDGE 3 Tx slots	20.15	19.96	20.05	21.00	15.89	15.70	15.79	16.74
EDGE 4 Tx slots	18.94	19.00	18.59	19.80	15.94	16.00	15.59	16.80

GSM850_Ant 1_Index 10	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.55	32.52	32.41	33.50	23.55	23.52	23.41	24.50
GPRS 1 Tx slot	32.58	32.55	32.47	33.50	23.58	23.55	23.47	24.50
GPRS 2 Tx slots	31.19	30.79	30.78	32.50	25.19	24.79	24.78	26.50
GPRS 3 Tx slots	30.27	29.54	29.57	31.50	26.01	25.28	25.31	27.24
GPRS 4 Tx slots	29.34	28.75	28.68	30.50	26.34	25.75	25.68	27.50
EDGE 1 Tx slot	26.63	26.46	26.27	27.50	17.63	17.46	17.27	18.50
EDGE 2 Tx slots	25.31	25.53	25.24	26.50	19.31	19.53	19.24	20.50
EDGE 3 Tx slots	24.21	24.00	24.09	25.50	19.95	19.74	19.83	21.24
EDGE 4 Tx slots	22.87	22.93	22.70	24.50	19.87	19.93	19.70	21.50

GSM1900_Ant 1_Index 10	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	26.88	26.85	26.81	27.90	17.88	17.85	17.81	18.90
GPRS 1 Tx slot	26.65	26.52	26.47	27.90	17.65	17.52	17.47	18.90
GPRS 2 Tx slots	24.06	23.86	23.73	24.90	18.06	17.86	17.73	18.90
GPRS 3 Tx slots	21.86	21.50	21.53	23.10	17.60	17.24	17.27	18.84
GPRS 4 Tx slots	20.92	20.85	20.56	21.90	17.92	17.85	17.56	18.90
EDGE 1 Tx slot	25.38	25.26	25.40	26.50	16.38	16.26	16.40	17.50
EDGE 2 Tx slots	23.99	23.82	23.66	24.90	17.99	17.82	17.66	18.90
EDGE 3 Tx slots	21.80	21.52	21.54	23.10	17.54	17.26	17.28	18.84
EDGE 4 Tx slots	20.72	20.52	20.55	21.90	17.72	17.52	17.55	18.90

GSM850_Ant 0_Index 11	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.20	32.21	32.27	33.50	23.20	23.21	23.27	24.50
GPRS 1 Tx slot	32.42	32.47	32.60	33.50	23.42	23.47	23.60	24.50
GPRS 2 Tx slots	31.01	30.85	30.95	32.50	25.01	24.85	24.95	26.50
GPRS 3 Tx slots	30.30	30.02	29.95	31.30	26.04	25.76	25.69	27.04
GPRS 4 Tx slots	29.16	28.82	28.89	30.10	26.16	25.82	25.89	27.10
EDGE 1 Tx slot	26.42	26.41	26.58	27.50	17.42	17.41	17.58	18.50
EDGE 2 Tx slots	25.52	25.42	25.50	26.50	19.52	19.42	19.50	20.50
EDGE 3 Tx slots	24.07	24.23	24.03	25.50	19.81	19.97	19.77	21.24
EDGE 4 Tx slots	23.02	22.91	22.89	24.50	20.02	19.91	19.89	21.50

GSM1900_Ant 2_Index 11	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	24.95	24.98	24.91	25.00	15.95	15.98	15.91	16.00
GPRS 1 Tx slot	24.94	24.97	24.93	25.00	15.94	15.97	15.93	16.00
GPRS 2 Tx slots	21.85	21.91	21.88	22.00	15.85	15.91	15.88	16.00
GPRS 3 Tx slots	20.14	20.03	20.13	20.20	15.88	15.77	15.87	15.94
GPRS 4 Tx slots	18.69	18.68	18.72	19.00	15.69	15.68	15.72	16.00
EDGE 1 Tx slot	24.56	24.88	24.76	25.00	15.56	15.88	15.76	16.00
EDGE 2 Tx slots	21.94	21.83	21.91	22.00	15.94	15.83	15.91	16.00
EDGE 3 Tx slots	20.15	19.96	20.05	20.20	15.89	15.70	15.79	15.94
EDGE 4 Tx slots	18.94	19.00	18.59	19.00	15.94	16.00	15.59	16.00

GSM850_Ant 1_Index 11	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.55	32.52	32.41	33.50	23.55	23.52	23.41	24.50
GPRS 1 Tx slot	32.58	32.55	32.47	33.50	23.58	23.55	23.47	24.50
GPRS 2 Tx slots	31.19	30.79	30.78	32.50	25.19	24.79	24.78	26.50
GPRS 3 Tx slots	30.27	29.54	29.57	31.50	26.01	25.28	25.31	27.24
GPRS 4 Tx slots	29.34	28.75	28.68	30.50	26.34	25.75	25.68	27.50
EDGE 1 Tx slot	26.63	26.46	26.27	27.50	17.63	17.46	17.27	18.50
EDGE 2 Tx slots	25.31	25.53	25.24	26.50	19.31	19.53	19.24	20.50
EDGE 3 Tx slots	24.21	24.00	24.09	25.50	19.95	19.74	19.83	21.24
EDGE 4 Tx slots	22.87	22.93	22.70	24.50	19.87	19.93	19.70	21.50

GSM1900_Ant 1_Index 11	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	26.88	26.85	26.81	27.10	17.88	17.85	17.81	18.10
GPRS 1 Tx slot	26.65	26.52	26.47	27.10	17.65	17.52	17.47	18.10
GPRS 2 Tx slots	24.06	23.86	23.73	24.10	18.06	17.86	17.73	18.10
GPRS 3 Tx slots	21.86	21.50	21.53	22.30	17.60	17.24	17.27	18.04
GPRS 4 Tx slots	20.92	20.85	20.56	21.10	17.92	17.85	17.56	18.10
EDGE 1 Tx slot	25.38	25.26	25.40	26.50	16.38	16.26	16.40	17.50
EDGE 2 Tx slots	23.99	23.82	23.66	24.10	17.99	17.82	17.66	18.10
EDGE 3 Tx slots	21.80	21.52	21.54	22.30	17.54	17.26	17.28	18.04
EDGE 4 Tx slots	20.72	20.52	20.55	21.10	17.72	17.52	17.55	18.10

<WCDMA Conducted Power>

1. The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
2. The procedures in KDB 941225 D01v03r01 are applied for 3GPP Rel. 6 HSPA to configure the device in the required sub-test mode(s) to determine SAR test exclusion.

A summary of these settings are illustrated below:

HSDPA Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
 - i. Set Gain Factors (β_c and β_d) and parameters were set according to each
 - ii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
 - iii. Set RMC 12.2Kbps + HSDPA mode.
 - iv. Set Cell Power = -86 dBm
 - v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
 - vi. Select HSDPA Uplink Parameters
 - vii. Set Delta ACK, Delta NACK and Delta CQI = 8
 - viii. Set Ack-Nack Repetition Factor to 3
 - ix. Set CQI Feedback Cycle (k) to 4 ms
 - x. Set CQI Repetition Factor to 2
 - xi. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and $\Delta_{NACK} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta_{CQI} = 24/15$ with $\beta_{hs} = 24/15 * \beta_c$.

Note 3: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 4: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

Setup Configuration

HSUPA Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting * :
 - i. Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - ii. Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121
 - iii. Set Cell Power = -86 dBm
 - iv. Set Channel Type = 12.2k + HSPA
 - v. Set UE Target Power
 - vi. Power Ctrl Mode= Alternating bits
 - vii. Set and observe the E-TFCI
 - viii. Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- d. The transmitted maximum output power was recorded.

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (Note 4) (Note 5)	β_{ed} (SF)	β_{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	E-TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/25	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{ed2} : 47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

Note 1: For sub-test 1 to 4, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$. For sub-test 5, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 5/15$ with $\beta_{hs} = 5/15 * \beta_c$.

Note 2: CM = 1 for $\beta_d/\beta_c = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$.

Note 4: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.

Note 5: β_{ed} can not be set directly; it is set by Absolute Grant Value.

Note 6: For subtests 2, 3 and 4, UE may perform E-DPDCH power scaling at max power which could results in slightly smaller MPR values.

Setup Configuration

<WCDMA Conducted Power>
General Note:

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA) are less than $\frac{1}{4}$ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA .

Band		WCDMA II_Ant 2_Index 7/8			Tune-up Limit (dBm)	WCDMA IV_Ant 2_Index 7/8			Tune-up Limit (dBm)	WCDMA V_Ant 0_Index 7/8			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	24.20	24.30	24.18	25.60	24.35	24.40	24.31	25.60	24.50	24.45	24.60	25.00
3GPP Rel 99	RMC 12.2Kbps	24.25	24.75	24.21	25.60	24.37	24.44	24.34	25.60	24.55	24.58	24.72	25.00
3GPP Rel 6	HSDPA Subtest-1	24.29	24.52	24.31	25.60	24.41	24.43	24.34	25.60	24.40	24.24	24.27	25.00
3GPP Rel 6	HSDPA Subtest-2	24.17	24.47	24.25	25.60	24.40	24.36	24.27	25.60	24.42	24.20	24.29	25.00
3GPP Rel 6	HSDPA Subtest-3	23.21	23.48	23.28	25.10	23.42	23.42	23.27	25.10	24.07	23.96	23.98	24.50
3GPP Rel 6	HSDPA Subtest-4	23.25	23.49	23.29	25.10	23.94	23.92	23.78	25.10	24.12	24.01	23.94	24.50
3GPP Rel 6	HSUPA Subtest-1	23.64	23.68	23.70	25.60	23.65	23.67	23.61	25.60	23.25	23.30	23.26	25.00
3GPP Rel 6	HSUPA Subtest-2	22.27	22.44	22.25	23.60	22.35	22.35	22.27	23.60	22.07	22.03	22.01	23.00
3GPP Rel 6	HSUPA Subtest-3	23.34	23.47	23.27	24.60	23.43	23.43	23.50	24.60	23.22	23.18	23.16	24.00
3GPP Rel 6	HSUPA Subtest-4	22.11	22.32	22.09	23.60	22.65	22.64	22.53	23.60	22.26	22.22	22.15	23.00
3GPP Rel 6	HSUPA Subtest-5	24.40	24.50	24.30	25.60	24.40	24.40	24.30	25.60	24.30	24.40	24.30	25.00

Band		WCDMA II_Ant 1_Index 7/8			Tune-up Limit (dBm)	WCDMA IV_Ant 1_Index 7/8			Tune-up Limit (dBm)	WCDMA V_Ant 1_Index 7/8			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	14.80	14.83	14.68	15.30	17.95	17.92	17.86	18.10	21.84	21.96	21.85	23.00
3GPP Rel 99	RMC 12.2Kbps	14.82	14.86	14.69	15.30	17.97	17.96	17.90	18.10	21.86	22.01	21.87	23.00
3GPP Rel 6	HSDPA Subtest-1	14.67	14.83	14.48	15.30	17.78	17.86	17.80	18.10	21.79	21.93	21.79	23.00
3GPP Rel 6	HSDPA Subtest-2	14.69	14.85	14.52	15.30	17.79	17.86	17.75	18.10	21.86	21.90	21.73	23.00
3GPP Rel 6	HSDPA Subtest-3	14.67	14.84	14.48	15.30	17.83	17.85	17.81	18.10	21.79	21.87	21.83	23.00
3GPP Rel 6	HSDPA Subtest-4	14.69	14.78	14.52	15.30	17.82	17.83	17.78	18.10	21.74	21.90	21.85	23.00
3GPP Rel 6	HSUPA Subtest-1	14.10	14.26	13.96	14.30	16.75	16.92	16.78	17.10	20.73	20.82	20.77	22.00
3GPP Rel 6	HSUPA Subtest-2	14.09	14.27	13.95	14.30	16.72	16.88	16.76	17.10	20.80	20.91	20.87	22.00
3GPP Rel 6	HSUPA Subtest-3	14.07	14.26	13.96	14.30	16.72	16.87	16.71	17.10	20.71	20.94	20.72	22.00
3GPP Rel 6	HSUPA Subtest-4	14.04	14.23	13.91	14.30	16.76	16.91	16.76	17.10	20.76	20.83	20.82	22.00
3GPP Rel 6	HSUPA Subtest-5	14.70	14.80	14.50	15.30	17.85	17.95	17.75	18.10	21.69	21.89	21.67	23.00

Band		WCDMA II_Ant 2_Index 9			Tune-up Limit (dBm)	WCDMA IV_Ant 2_Index 9			Tune-up Limit (dBm)	WCDMA V_Ant 0_Index 9			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	17.37	17.45	17.25	17.60	19.45	19.46	19.46	20.00	24.50	24.45	24.60	25.00
3GPP Rel 99	RMC 12.2Kbps	17.39	17.48	17.27	17.60	19.47	19.48	19.49	20.00	24.55	24.58	24.72	25.00
3GPP Rel 6	HSDPA Subtest-1	17.33	17.39	17.20	17.60	19.31	19.36	19.28	20.00	24.40	24.24	24.27	25.00
3GPP Rel 6	HSDPA Subtest-2	17.37	17.34	17.17	17.60	19.34	19.33	19.27	20.00	24.42	24.20	24.29	25.00
3GPP Rel 6	HSDPA Subtest-3	17.36	17.33	17.14	17.60	19.32	19.38	19.27	20.00	24.07	23.96	23.98	24.50
3GPP Rel 6	HSDPA Subtest-4	17.33	17.37	17.19	17.60	19.32	19.34	19.23	20.00	24.12	24.01	23.94	24.50
3GPP Rel 6	HSUPA Subtest-1	16.28	16.47	16.35	16.60	18.39	18.45	18.38	19.00	23.25	23.30	23.26	25.00
3GPP Rel 6	HSUPA Subtest-2	16.41	16.47	16.30	16.60	18.39	18.41	18.44	19.00	22.07	22.03	22.01	23.00
3GPP Rel 6	HSUPA Subtest-3	16.34	16.53	16.32	16.60	18.42	18.47	18.37	19.00	23.22	23.18	23.16	24.00
3GPP Rel 6	HSUPA Subtest-4	16.31	16.49	16.32	16.60	18.40	18.41	18.31	19.00	22.26	22.22	22.15	23.00
3GPP Rel 6	HSUPA Subtest-5	17.30	17.40	17.30	17.60	19.40	19.40	19.30	20.00	24.30	24.40	24.30	25.00

Band		WCDMA II_Ant 1_Index 9			Tune-up Limit (dBm)	WCDMA IV_Ant 1_Index 9			Tune-up Limit (dBm)	WCDMA V_Ant 1_Index 9			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	14.80	14.83	14.68	15.30	16.88	16.90	16.91	17.30	23.51	23.55	23.48	25.00
3GPP Rel 99	RMC 12.2Kbps	14.82	14.86	14.69	15.30	16.90	17.05	16.93	17.30	23.52	23.59	23.51	25.00
3GPP Rel 6	HSDPA Subtest-1	14.67	14.83	14.48	15.30	16.83	16.89	16.89	17.30	23.54	23.57	23.54	25.00
3GPP Rel 6	HSDPA Subtest-2	14.69	14.85	14.52	15.30	16.89	17.00	16.91	17.30	23.35	23.26	23.23	25.00
3GPP Rel 6	HSDPA Subtest-3	14.67	14.84	14.48	15.30	16.86	16.78	16.89	17.30	23.32	22.74	22.53	24.50
3GPP Rel 6	HSDPA Subtest-4	14.69	14.78	14.52	15.30	16.85	16.91	16.78	17.30	23.24	23.23	23.04	24.50
3GPP Rel 6	HSUPA Subtest-1	14.10	14.26	13.96	14.30	16.00	16.00	16.01	16.30	23.34	23.22	23.20	25.00
3GPP Rel 6	HSUPA Subtest-2	14.09	14.27	13.95	14.30	16.11	15.96	16.12	16.30	21.98	21.88	21.88	23.00
3GPP Rel 6	HSUPA Subtest-3	14.07	14.26	13.96	14.30	16.05	16.12	16.13	16.30	23.04	22.93	22.93	24.00
3GPP Rel 6	HSUPA Subtest-4	14.04	14.23	13.91	14.30	16.03	16.14	15.98	16.30	21.97	21.88	21.87	23.00
3GPP Rel 6	HSUPA Subtest-5	14.70	14.80	14.50	15.30	16.88	16.96	16.80	17.30	23.41	23.46	23.44	25.00

Band		WCDMA II_Ant 2_Index 10			Tune-up Limit (dBm)	WCDMA IV_Ant 2_Index 10			Tune-up Limit (dBm)	WCDMA V_Ant 0_Index 10			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	17.37	17.45	17.25	18.40	19.97	19.93	19.95	20.90	24.50	24.45	24.60	25.00
3GPP Rel 99	RMC 12.2Kbps	17.39	17.48	17.27	18.40	19.97	19.95	19.98	20.90	24.55	24.58	24.72	25.00
3GPP Rel 6	HSDPA Subtest-1	17.33	17.39	17.20	18.40	19.87	19.89	19.82	20.90	24.40	24.24	24.27	25.00
3GPP Rel 6	HSDPA Subtest-2	17.37	17.34	17.17	18.40	19.87	19.89	19.82	20.90	24.42	24.20	24.29	25.00
3GPP Rel 6	HSDPA Subtest-3	17.36	17.33	17.14	18.40	19.90	19.91	19.83	20.90	24.07	23.96	23.98	24.50
3GPP Rel 6	HSDPA Subtest-4	17.33	17.37	17.19	18.40	19.92	19.89	19.83	20.90	24.12	24.01	23.94	24.50
3GPP Rel 6	HSUPA Subtest-1	16.28	16.47	16.35	17.40	18.88	18.97	18.92	19.90	23.25	23.30	23.26	25.00
3GPP Rel 6	HSUPA Subtest-2	16.41	16.47	16.30	17.40	18.85	18.99	18.94	19.90	22.07	22.03	22.01	23.00
3GPP Rel 6	HSUPA Subtest-3	16.34	16.53	16.32	17.40	18.84	18.96	19.00	19.90	23.22	23.18	23.16	24.00
3GPP Rel 6	HSUPA Subtest-4	16.31	16.49	16.32	17.40	18.86	18.97	18.95	19.90	22.26	22.22	22.15	23.00
3GPP Rel 6	HSUPA Subtest-5	17.30	17.40	17.30	18.40	19.80	19.90	19.90	20.90	24.30	24.40	24.30	25.00

Band		WCDMA II_Ant 1_Index 10			Tune-up Limit (dBm)	WCDMA IV_Ant 1_Index 10			Tune-up Limit (dBm)	WCDMA V_Ant 1_Index 10			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	16.67	16.68	16.70	18.10	18.85	18.95	18.87	19.90	23.51	23.55	23.48	25.00
3GPP Rel 99	RMC 12.2Kbps	16.71	16.72	16.74	18.10	18.87	18.98	18.90	19.90	23.52	23.59	23.51	25.00
3GPP Rel 6	HSDPA Subtest-1	16.63	16.54	16.42	18.10	18.88	18.91	18.87	19.90	23.54	23.57	23.54	25.00
3GPP Rel 6	HSDPA Subtest-2	16.64	16.60	16.38	18.10	18.94	18.95	18.95	19.90	23.35	23.26	23.23	25.00
3GPP Rel 6	HSDPA Subtest-3	16.64	16.60	16.39	18.10	18.94	18.88	18.86	19.90	23.32	22.74	22.53	24.50
3GPP Rel 6	HSDPA Subtest-4	16.64	16.63	16.42	18.10	18.92	18.89	18.86	19.90	23.24	23.23	23.04	24.50
3GPP Rel 6	HSUPA Subtest-1	15.60	15.68	15.36	17.10	18.04	18.04	18.01	18.90	23.34	23.22	23.20	25.00
3GPP Rel 6	HSUPA Subtest-2	15.51	15.67	15.26	17.10	18.07	18.02	18.08	18.90	21.98	21.88	21.88	23.00
3GPP Rel 6	HSUPA Subtest-3	15.55	15.69	15.36	17.10	18.09	18.06	18.06	18.90	23.04	22.93	22.93	24.00
3GPP Rel 6	HSUPA Subtest-4	15.47	15.69	15.33	17.10	18.01	18.08	17.95	18.90	21.97	21.88	21.87	23.00
3GPP Rel 6	HSUPA Subtest-5	16.60	16.60	16.50	18.10	18.80	18.90	18.80	19.90	23.41	23.46	23.44	25.00

Band		WCDMA II_Ant 2_Index 11			Tune-up Limit (dBm)	WCDMA IV_Ant 2_Index 11			Tune-up Limit (dBm)	WCDMA V_Ant 0_Index 11			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	17.37	17.45	17.25	17.60	19.97	19.93	19.95	20.10	24.50	24.45	24.60	25.00
3GPP Rel 99	RMC 12.2Kbps	17.39	17.48	17.27	17.60	19.97	19.95	19.98	20.10	24.55	24.58	24.72	25.00
3GPP Rel 6	HSDPA Subtest-1	17.33	17.39	17.20	17.60	19.87	19.89	19.82	20.10	24.40	24.24	24.27	25.00
3GPP Rel 6	HSDPA Subtest-2	17.37	17.34	17.17	17.60	19.87	19.89	19.82	20.10	24.42	24.20	24.29	25.00
3GPP Rel 6	HSDPA Subtest-3	17.36	17.33	17.14	17.60	19.90	19.91	19.83	20.10	24.07	23.96	23.98	24.50
3GPP Rel 6	HSDPA Subtest-4	17.33	17.37	17.19	17.60	19.92	19.89	19.83	20.10	24.12	24.01	23.94	24.50
3GPP Rel 6	HSUPA Subtest-1	16.28	16.47	16.35	16.60	18.88	18.97	18.92	19.10	23.25	23.30	23.26	25.00
3GPP Rel 6	HSUPA Subtest-2	16.41	16.47	16.30	16.60	18.85	18.99	18.94	19.10	22.07	22.03	22.01	23.00
3GPP Rel 6	HSUPA Subtest-3	16.34	16.53	16.32	16.60	18.84	18.96	19.00	19.10	23.22	23.18	23.16	24.00
3GPP Rel 6	HSUPA Subtest-4	16.31	16.49	16.32	16.60	18.86	18.97	18.95	19.10	22.26	22.22	22.15	23.00
3GPP Rel 6	HSUPA Subtest-5	17.30	17.40	17.30	17.60	19.80	19.90	19.90	20.10	24.30	24.40	24.30	25.00

Band		WCDMA II_Ant 1_Index 11			Tune-up Limit (dBm)	WCDMA IV_Ant 1_Index 11			Tune-up Limit (dBm)	WCDMA V_Ant 1_Index 11			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	16.67	16.68	16.70	17.30	18.85	18.95	18.87	19.10	23.51	23.55	23.48	25.00
3GPP Rel 99	RMC 12.2Kbps	16.71	16.72	16.74	17.30	18.87	18.98	18.90	19.10	23.52	23.59	23.51	25.00
3GPP Rel 6	HSDPA Subtest-1	16.63	16.54	16.42	17.30	18.88	18.91	18.87	19.10	23.54	23.57	23.54	25.00
3GPP Rel 6	HSDPA Subtest-2	16.64	16.60	16.38	17.30	18.94	18.95	18.95	19.10	23.35	23.26	23.23	25.00
3GPP Rel 6	HSDPA Subtest-3	16.64	16.60	16.39	17.30	18.94	18.88	18.86	19.10	23.32	22.74	22.53	24.50
3GPP Rel 6	HSDPA Subtest-4	16.64	16.63	16.42	17.30	18.92	18.89	18.86	19.10	23.24	23.23	23.04	24.50
3GPP Rel 6	HSUPA Subtest-1	15.60	15.68	15.36	16.30	18.04	18.04	18.01	18.10	23.34	23.22	23.20	25.00
3GPP Rel 6	HSUPA Subtest-2	15.51	15.67	15.26	16.30	18.07	18.02	18.08	18.10	21.98	21.88	21.88	23.00
3GPP Rel 6	HSUPA Subtest-3	15.55	15.69	15.36	16.30	18.09	18.06	18.06	18.10	23.04	22.93	22.93	24.00
3GPP Rel 6	HSUPA Subtest-4	15.47	15.69	15.33	16.30	18.01	18.08	17.95	18.10	21.97	21.88	21.87	23.00
3GPP Rel 6	HSUPA Subtest-5	16.60	16.60	16.50	17.30	18.80	18.90	18.80	19.10	23.41	23.46	23.44	25.00

<LTE Conducted Power>**General Note:**

1. A Base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05v02r05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
7. Per KDB 941225 D05v02r05, Smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
8. For LTE B4/B5/B12/B17/B26/B38/B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
9. LTE band 2/4/5/17/38 SAR test was covered by Band 25/66/26/12/41; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is $\leq$ the larger band to qualify for the SAR test exclusion
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band



<LTE Band 2_Ant 2_Index 7/8>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	24.51	24.48	24.49	
20	QPSK	1	49	24.34	24.37	24.42	25.3
20	QPSK	1	99	24.30	24.35	24.35	
20	QPSK	50	0	23.47	23.46	23.46	
20	QPSK	50	24	23.43	23.45	23.42	24.3
20	QPSK	50	50	23.41	23.41	23.41	
20	QPSK	100	0	23.45	23.43	23.42	
20	16QAM	1	0	23.74	23.76	23.68	24.3
20	16QAM	1	49	23.64	23.56	23.60	
20	16QAM	1	99	23.65	23.61	23.67	
20	16QAM	50	0	22.47	22.46	22.45	23.3
20	16QAM	50	24	22.42	22.43	22.49	
20	16QAM	50	50	22.39	22.36	22.45	
20	16QAM	100	0	22.39	22.42	22.46	23.3
20	64QAM	1	0	22.65	22.66	22.61	
20	64QAM	1	49	22.50	22.58	22.57	
20	64QAM	1	99	22.55	22.54	22.53	22.3
20	64QAM	50	0	21.48	21.48	21.49	
20	64QAM	50	24	21.45	21.45	21.46	
20	64QAM	50	50	21.42	21.42	21.44	20.3
20	64QAM	100	0	21.42	21.46	21.48	
20	256QAM	1	0	20.12	20.15	20.07	
20	256QAM	1	49	19.91	20.04	20.03	20.3
20	256QAM	1	99	20.04	19.97	20.02	
20	256QAM	50	0	19.96	19.96	19.95	
20	256QAM	50	24	19.91	19.93	19.91	20.3
20	256QAM	50	50	19.92	19.87	19.86	
20	256QAM	100	0	19.89	19.87	19.90	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	24.45	24.42	24.41	
15	QPSK	1	37	24.32	24.36	24.32	25.3
15	QPSK	1	74	24.23	24.29	24.25	
15	QPSK	36	0	23.44	23.44	23.40	24.3
15	QPSK	36	20	23.41	23.41	23.33	
15	QPSK	36	39	23.39	23.39	23.38	
15	QPSK	75	0	23.39	23.38	23.39	24.3
15	16QAM	1	0	23.68	23.69	23.66	
15	16QAM	1	37	23.56	23.52	23.57	
15	16QAM	1	74	23.62	23.54	23.64	23.3
15	16QAM	36	0	22.37	22.41	22.45	
15	16QAM	36	20	22.39	22.42	22.47	
15	16QAM	36	39	22.33	22.33	22.36	23.3
15	16QAM	75	0	22.33	22.41	22.45	
15	64QAM	1	0	22.58	22.65	22.59	
15	64QAM	1	37	22.48	22.57	22.57	22.3
15	64QAM	1	74	22.49	22.49	22.47	
15	64QAM	36	0	21.44	21.41	21.39	
15	64QAM	36	20	21.45	21.35	21.43	20.3
15	64QAM	36	39	21.40	21.35	21.39	
15	64QAM	75	0	21.39	21.46	21.45	
15	256QAM	1	0	20.11	20.05	19.97	20.3
15	256QAM	1	37	19.88	20.01	19.93	
15	256QAM	1	74	20.04	19.95	19.97	
15	256QAM	36	0	19.87	19.89	19.88	20.3
15	256QAM	36	20	19.89	19.84	19.90	



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15	256QAM	36	39	19.87	19.84	19.77	Tune-up limit (dBm)
15	256QAM	75	0	19.87	19.79	19.85	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	24.46	24.38	24.41	25.3
10	QPSK	1	25	24.30	24.34	24.41	
10	QPSK	1	49	24.26	24.26	24.35	
10	QPSK	25	0	23.46	23.46	23.36	24.3
10	QPSK	25	12	23.36	23.36	23.39	
10	QPSK	25	25	23.40	23.35	23.34	
10	QPSK	50	0	23.44	23.34	23.41	
10	16QAM	1	0	23.70	23.76	23.62	24.3
10	16QAM	1	25	23.58	23.56	23.60	
10	16QAM	1	49	23.65	23.52	23.62	
10	16QAM	25	0	22.40	22.46	22.35	23.3
10	16QAM	25	12	22.39	22.39	22.42	
10	16QAM	25	25	22.30	22.30	22.38	
10	16QAM	50	0	22.29	22.42	22.43	
10	64QAM	1	0	22.60	22.56	22.52	23.3
10	64QAM	1	25	22.44	22.55	22.49	
10	64QAM	1	49	22.48	22.46	22.44	
10	64QAM	25	0	21.41	21.42	21.39	22.3
10	64QAM	25	12	21.36	21.41	21.40	
10	64QAM	25	25	21.42	21.35	21.40	
10	64QAM	50	0	21.33	21.40	21.43	
10	256QAM	1	0	20.10	20.05	20.07	20.3
10	256QAM	1	25	19.89	20.03	20.00	
10	256QAM	1	49	20.01	19.97	19.92	
10	256QAM	25	0	19.91	19.88	19.86	20.3
10	256QAM	25	12	19.86	19.87	19.89	
10	256QAM	25	25	19.92	19.81	19.85	
10	256QAM	50	0	19.80	19.80	19.83	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	24.50	24.42	24.45	25.3
5	QPSK	1	12	24.32	24.33	24.36	
5	QPSK	1	24	24.26	24.35	24.30	
5	QPSK	12	0	23.37	23.43	23.46	24.3
5	QPSK	12	7	23.37	23.38	23.35	
5	QPSK	12	13	23.37	23.41	23.41	
5	QPSK	25	0	23.41	23.33	23.34	
5	16QAM	1	0	23.72	23.75	23.61	24.3
5	16QAM	1	12	23.55	23.54	23.58	
5	16QAM	1	24	23.61	23.57	23.61	
5	16QAM	12	0	22.47	22.37	22.41	23.3
5	16QAM	12	7	22.34	22.41	22.43	
5	16QAM	12	13	22.32	22.32	22.35	
5	16QAM	25	0	22.33	22.39	22.38	
5	64QAM	1	0	22.60	22.64	22.51	23.3
5	64QAM	1	12	22.48	22.48	22.55	
5	64QAM	1	24	22.47	22.53	22.47	
5	64QAM	12	0	21.46	21.45	21.47	22.3
5	64QAM	12	7	21.37	21.42	21.44	
5	64QAM	12	13	21.38	21.35	21.42	
5	64QAM	25	0	21.34	21.45	21.45	
5	256QAM	1	0	20.02	20.14	20.05	20.3
5	256QAM	1	12	19.87	19.99	19.97	
5	256QAM	1	24	19.97	19.90	19.95	
5	256QAM	12	0	19.93	19.87	19.89	20.3
5	256QAM	12	7	19.87	19.86	19.87	
5	256QAM	12	13	19.84	19.77	19.83	
5	256QAM	25	0	19.81	19.86	19.83	



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Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	24.41	24.37	24.47	25.3
3	QPSK	1	8	24.27	24.30	24.33	
3	QPSK	1	14	24.25	24.31	24.26	
3	QPSK	8	0	23.44	23.44	23.37	24.3
3	QPSK	8	4	23.37	23.39	23.35	
3	QPSK	8	7	23.33	23.38	23.34	
3	QPSK	15	0	23.42	23.41	23.37	24.3
3	16QAM	1	0	23.65	23.66	23.66	
3	16QAM	1	8	23.62	23.50	23.53	
3	16QAM	1	14	23.63	23.51	23.63	23.3
3	16QAM	8	0	22.46	22.44	22.39	
3	16QAM	8	4	22.37	22.39	22.40	
3	16QAM	8	7	22.37	22.30	22.45	23.3
3	16QAM	15	0	22.30	22.34	22.39	
3	64QAM	1	0	22.64	22.65	22.55	
3	64QAM	1	8	22.40	22.56	22.48	23.3
3	64QAM	1	14	22.47	22.54	22.50	
3	64QAM	8	0	21.47	21.42	21.46	
3	64QAM	8	4	21.45	21.45	21.41	22.3
3	64QAM	8	7	21.38	21.42	21.41	
3	64QAM	15	0	21.33	21.46	21.39	
3	256QAM	1	0	20.07	20.14	20.00	20.3
3	256QAM	1	8	19.88	19.95	20.00	
3	256QAM	1	14	19.95	19.92	20.02	
3	256QAM	8	0	19.96	19.89	19.85	20.3
3	256QAM	8	4	19.90	19.83	19.81	
3	256QAM	8	7	19.92	19.84	19.82	
3	256QAM	15	0	19.88	19.83	19.89	20.3
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	Tune-up limit (dBm)
1.4	QPSK	1	0	24.49	24.45	24.45	25.3
1.4	QPSK	1	3	24.30	24.27	24.42	
1.4	QPSK	1	5	24.28	24.29	24.31	
1.4	QPSK	3	0	24.33	24.31	24.36	24.3
1.4	QPSK	3	1	24.29	24.34	24.35	
1.4	QPSK	3	3	24.24	24.31	24.34	
1.4	QPSK	6	0	23.41	23.41	23.40	24.3
1.4	16QAM	1	0	23.64	23.73	23.67	
1.4	16QAM	1	3	23.54	23.56	23.58	
1.4	16QAM	1	5	23.63	23.57	23.61	24.3
1.4	16QAM	3	0	23.74	23.68	23.65	
1.4	16QAM	3	1	23.56	23.46	23.57	
1.4	16QAM	3	3	23.62	23.52	23.57	23.3
1.4	16QAM	6	0	22.33	22.41	22.46	
1.4	64QAM	1	0	22.64	22.60	22.57	
1.4	64QAM	1	3	22.42	22.55	22.53	23.3
1.4	64QAM	1	5	22.53	22.49	22.52	
1.4	64QAM	3	0	22.56	22.61	22.59	
1.4	64QAM	3	1	22.42	22.49	22.55	22.3
1.4	64QAM	3	3	22.55	22.44	22.53	
1.4	64QAM	6	0	21.37	21.36	21.48	
1.4	256QAM	1	0	20.12	20.07	19.99	20.3
1.4	256QAM	1	3	19.90	19.95	20.02	
1.4	256QAM	1	5	19.99	19.91	19.94	
1.4	256QAM	3	0	19.86	19.88	19.93	20.3
1.4	256QAM	3	1	19.81	19.89	19.86	
1.4	256QAM	3	3	19.90	19.86	19.79	
1.4	256QAM	6	0	19.81	19.85	19.86	20.3



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	15.26	15.30	15.22	
20	QPSK	1	49	15.06	15.29	15.22	15.6
20	QPSK	1	99	15.25	15.24	15.15	
20	QPSK	50	0	15.19	15.21	15.16	
20	QPSK	50	24	15.16	15.11	15.02	15.6
20	QPSK	50	50	15.18	15.20	15.09	
20	QPSK	100	0	15.11	15.16	15.14	
20	16QAM	1	0	15.26	15.17	15.12	15.6
20	16QAM	1	49	15.17	15.25	15.14	
20	16QAM	1	99	15.20	15.16	15.16	
20	16QAM	50	0	15.11	15.20	15.03	15.6
20	16QAM	50	24	15.24	15.27	15.13	
20	16QAM	50	50	15.24	15.20	15.18	
20	16QAM	100	0	15.07	15.12	15.17	15.6
20	64QAM	1	0	15.09	15.24	15.18	
20	64QAM	1	49	15.08	15.25	15.06	
20	64QAM	1	99	15.06	15.28	15.07	15.6
20	64QAM	50	0	15.24	15.27	15.07	
20	64QAM	50	24	15.10	15.29	15.22	
20	64QAM	50	50	15.10	15.22	15.03	15.6
20	64QAM	100	0	15.11	15.27	15.04	
20	256QAM	1	0	15.17	15.13	15.03	
20	256QAM	1	49	15.12	15.13	15.11	15.6
20	256QAM	1	99	15.18	15.25	15.04	
20	256QAM	50	0	15.21	15.20	15.07	
20	256QAM	50	24	15.10	15.29	15.09	15.6
20	256QAM	50	50	15.09	15.23	15.04	
20	256QAM	100	0	15.22	15.28	15.15	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	15.23	15.12	15.22	
15	QPSK	1	37	15.06	15.09	15.13	15.6
15	QPSK	1	74	15.16	15.18	15.02	
15	QPSK	36	0	15.14	15.15	15.06	
15	QPSK	36	20	15.14	15.01	14.95	15.6
15	QPSK	36	39	15.09	15.06	15.04	
15	QPSK	75	0	14.97	14.96	15.05	
15	16QAM	1	0	15.14	14.97	15.06	15.6
15	16QAM	1	37	15.05	15.11	15.09	
15	16QAM	1	74	15.16	14.99	14.99	
15	16QAM	36	0	15.03	15.20	14.90	15.6
15	16QAM	36	20	15.12	15.24	15.10	
15	16QAM	36	39	15.24	15.19	15.16	
15	16QAM	75	0	14.87	15.12	15.15	15.6
15	64QAM	1	0	14.95	15.13	15.14	
15	64QAM	1	37	14.98	15.15	15.04	
15	64QAM	1	74	14.88	15.26	14.87	15.6
15	64QAM	36	0	15.07	15.23	14.93	
15	64QAM	36	20	14.97	15.23	15.11	
15	64QAM	36	39	15.04	15.21	14.92	15.6
15	64QAM	75	0	15.04	15.07	14.94	
15	256QAM	1	0	15.14	14.95	14.87	
15	256QAM	1	37	15.04	15.04	15.09	15.6
15	256QAM	1	74	15.01	15.09	14.94	
15	256QAM	36	0	15.09	15.04	14.93	
15	256QAM	36	20	14.94	15.10	15.07	15.6



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15	256QAM	36	39	15.08	15.08	14.93	
15	256QAM	75	0	15.06	15.10	14.98	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	15.22	15.21	15.06	15.6
10	QPSK	1	25	14.95	15.09	15.04	
10	QPSK	1	49	15.19	15.22	15.01	
10	QPSK	25	0	15.19	15.16	15.05	15.6
10	QPSK	25	12	14.99	14.91	14.94	
10	QPSK	25	25	15.16	15.01	14.98	
10	QPSK	50	0	14.98	14.97	15.00	
10	16QAM	1	0	15.18	15.11	14.97	15.6
10	16QAM	1	25	14.99	15.20	15.05	
10	16QAM	1	49	15.04	15.10	15.03	
10	16QAM	25	0	15.01	15.18	14.95	15.6
10	16QAM	25	12	15.09	15.17	15.06	
10	16QAM	25	25	15.21	15.14	15.10	
10	16QAM	50	0	15.03	14.92	14.98	
10	64QAM	1	0	15.08	15.04	15.03	15.6
10	64QAM	1	25	15.07	15.19	14.96	
10	64QAM	1	49	14.93	15.14	15.06	
10	64QAM	25	0	15.14	15.22	14.91	15.6
10	64QAM	25	12	14.91	15.19	15.18	
10	64QAM	25	25	14.98	15.17	14.86	
10	64QAM	50	0	15.10	15.25	14.88	
10	256QAM	1	0	15.16	15.00	14.90	15.6
10	256QAM	1	25	14.95	14.93	15.06	
10	256QAM	1	49	15.08	15.16	14.91	
10	256QAM	25	0	15.11	15.06	14.91	15.6
10	256QAM	25	12	15.10	15.18	15.09	
10	256QAM	25	25	15.02	15.20	14.85	
10	256QAM	50	0	15.17	15.13	15.09	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	15.24	15.25	15.19	15.6
5	QPSK	1	12	15.06	15.09	15.03	
5	QPSK	1	24	15.16	15.24	15.09	
5	QPSK	12	0	15.11	15.11	15.03	15.6
5	QPSK	12	7	15.13	14.97	15.01	
5	QPSK	12	13	15.13	15.00	15.00	
5	QPSK	25	0	15.05	15.04	15.07	
5	16QAM	1	0	15.13	14.98	15.09	15.6
5	16QAM	1	12	14.99	15.22	14.94	
5	16QAM	1	24	15.20	15.14	15.00	
5	16QAM	12	0	14.93	15.06	14.97	15.6
5	16QAM	12	7	15.13	15.07	14.96	
5	16QAM	12	13	15.18	15.15	14.99	
5	16QAM	25	0	15.06	15.01	15.15	
5	64QAM	1	0	14.90	15.04	15.01	15.6
5	64QAM	1	12	14.93	15.05	14.86	
5	64QAM	1	24	14.93	15.22	14.99	
5	64QAM	12	0	15.16	15.20	15.07	15.6
5	64QAM	12	7	14.96	15.11	15.15	
5	64QAM	12	13	14.91	15.22	14.96	
5	64QAM	25	0	14.93	15.13	15.03	
5	256QAM	1	0	15.03	15.00	14.92	15.6
5	256QAM	1	12	14.97	15.06	15.08	
5	256QAM	1	24	15.07	15.19	14.90	
5	256QAM	12	0	15.10	15.08	14.93	15.6
5	256QAM	12	7	14.95	15.22	15.08	
5	256QAM	12	13	14.95	15.06	15.01	
5	256QAM	25	0	15.18	15.15	15.04	



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Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	15.06	15.10	15.18	15.6
3	QPSK	1	8	15.01	15.13	15.12	
3	QPSK	1	14	15.22	15.04	15.04	
3	QPSK	8	0	15.07	15.13	15.00	15.6
3	QPSK	8	4	15.10	14.96	14.90	
3	QPSK	8	7	15.14	15.02	14.99	
3	QPSK	15	0	15.06	15.06	14.97	
3	16QAM	1	0	15.09	15.04	15.05	15.6
3	16QAM	1	8	15.08	15.24	15.08	
3	16QAM	1	14	15.17	15.03	14.96	
3	16QAM	8	0	15.04	15.14	15.02	15.6
3	16QAM	8	4	15.19	15.24	15.05	
3	16QAM	8	7	15.07	15.14	15.13	
3	16QAM	15	0	15.04	15.01	15.02	
3	64QAM	1	0	14.90	15.13	14.99	15.6
3	64QAM	1	8	14.97	15.25	15.06	
3	64QAM	1	14	15.02	15.08	14.98	
3	64QAM	8	0	15.14	15.11	15.00	15.6
3	64QAM	8	4	14.93	15.09	15.21	
3	64QAM	8	7	15.07	15.11	15.01	
3	64QAM	15	0	15.07	15.21	14.94	
3	256QAM	1	0	15.09	15.05	14.95	15.6
3	256QAM	1	8	15.03	15.06	14.93	
3	256QAM	1	14	15.07	15.23	14.84	
3	256QAM	8	0	15.14	15.04	14.94	15.6
3	256QAM	8	4	14.93	15.16	14.97	
3	256QAM	8	7	15.03	15.16	14.98	
3	256QAM	15	0	15.06	15.13	14.98	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	15.21	15.13	15.08	15.6
1.4	QPSK	1	3	14.97	15.27	15.17	
1.4	QPSK	1	5	15.06	15.22	14.99	
1.4	QPSK	3	0	15.01	15.01	15.05	
1.4	QPSK	3	1	15.08	14.97	15.01	
1.4	QPSK	3	3	15.10	15.10	15.05	
1.4	QPSK	6	0	14.98	14.99	15.02	15.6
1.4	16QAM	1	0	15.21	15.03	15.06	15.6
1.4	16QAM	1	3	15.05	15.10	15.00	
1.4	16QAM	1	5	15.04	15.08	15.04	
1.4	16QAM	3	0	15.07	15.17	15.02	
1.4	16QAM	3	1	15.10	15.27	15.09	
1.4	16QAM	3	3	15.08	15.10	15.09	15.6
1.4	16QAM	6	0	15.03	15.07	14.99	
1.4	64QAM	1	0	14.99	15.04	15.12	15.6
1.4	64QAM	1	3	14.95	15.08	15.04	
1.4	64QAM	1	5	14.88	15.26	14.98	
1.4	64QAM	3	0	15.04	15.07	14.94	
1.4	64QAM	3	1	14.96	15.10	15.11	
1.4	64QAM	3	3	15.08	15.20	15.01	15.6
1.4	64QAM	6	0	15.08	15.19	14.90	
1.4	256QAM	1	0	15.16	14.98	14.96	15.6
1.4	256QAM	1	3	15.00	14.97	15.02	
1.4	256QAM	1	5	15.06	15.11	15.04	
1.4	256QAM	3	0	15.02	15.12	14.90	
1.4	256QAM	3	1	15.07	15.13	14.99	
1.4	256QAM	3	3	14.95	15.20	14.92	15.6
1.4	256QAM	6	0	15.04	15.24	15.00	



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	24.13	24.23	24.22	
20	QPSK	1	49	24.08	24.16	24.05	25.3
20	QPSK	1	99	24.04	24.07	24.04	
20	QPSK	50	0	23.16	23.20	23.14	
20	QPSK	50	24	23.16	23.19	23.09	24.3
20	QPSK	50	50	23.13	23.15	23.12	
20	QPSK	100	0	23.17	23.19	23.11	
20	16QAM	1	0	23.49	23.50	23.49	24.3
20	16QAM	1	49	23.44	23.33	23.43	
20	16QAM	1	99	23.40	23.39	23.31	
20	16QAM	50	0	22.16	22.15	22.18	23.3
20	16QAM	50	24	22.14	22.13	22.12	
20	16QAM	50	50	22.16	22.11	22.09	
20	16QAM	100	0	22.19	22.13	22.15	23.3
20	64QAM	1	0	22.42	22.43	22.34	
20	64QAM	1	49	22.25	22.31	22.26	
20	64QAM	1	99	22.37	22.36	22.21	22.3
20	64QAM	50	0	21.24	21.31	21.16	
20	64QAM	50	24	21.28	21.24	21.15	
20	64QAM	50	50	21.18	21.22	21.20	20.3
20	64QAM	100	0	21.25	21.27	21.20	
20	256QAM	1	0	19.86	19.80	19.77	
20	256QAM	1	49	19.60	19.66	19.71	20.3
20	256QAM	1	99	19.75	19.77	19.61	
20	256QAM	50	0	19.63	19.68	19.54	
20	256QAM	50	24	19.73	19.61	19.59	20.3
20	256QAM	50	50	19.60	19.67	19.58	
20	256QAM	100	0	19.63	19.68	19.61	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.97	24.15	24.17	
15	QPSK	1	37	23.99	24.14	23.89	25.3
15	QPSK	1	74	23.89	23.99	23.91	
15	QPSK	36	0	22.99	23.03	23.01	24.3
15	QPSK	36	20	23.03	23.00	22.99	
15	QPSK	36	39	23.05	23.06	23.10	
15	QPSK	75	0	22.98	23.13	23.02	24.3
15	16QAM	1	0	23.35	23.47	23.40	
15	16QAM	1	37	23.35	23.14	23.25	
15	16QAM	1	74	23.25	23.25	23.20	23.3
15	16QAM	36	0	22.08	22.07	22.12	
15	16QAM	36	20	22.08	21.97	22.09	
15	16QAM	36	39	22.01	22.03	21.90	23.3
15	16QAM	75	0	22.13	22.13	22.02	
15	64QAM	1	0	22.26	22.25	22.15	
15	64QAM	1	37	22.11	22.22	22.07	23.3
15	64QAM	1	74	22.36	22.26	22.10	
15	64QAM	36	0	21.19	21.25	21.02	22.3
15	64QAM	36	20	21.25	21.11	21.12	
15	64QAM	36	39	21.12	21.10	21.05	
15	64QAM	75	0	21.06	21.16	21.19	20.3
15	256QAM	1	0	19.67	19.79	19.72	
15	256QAM	1	37	19.59	19.66	19.51	
15	256QAM	1	74	19.73	19.72	19.46	20.3
15	256QAM	36	0	19.62	19.53	19.34	
15	256QAM	36	20	19.65	19.48	19.49	



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15	256QAM	36	39	19.47	19.61	19.38	
15	256QAM	75	0	19.56	19.67	19.49	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	24.01	24.22	24.08	25.3
10	QPSK	1	25	23.88	24.14	24.01	
10	QPSK	1	49	23.95	24.06	23.87	
10	QPSK	25	0	23.16	23.16	22.97	24.3
10	QPSK	25	12	23.00	23.00	22.89	
10	QPSK	25	25	23.07	22.99	23.02	
10	QPSK	50	0	23.02	23.06	22.96	
10	16QAM	1	0	23.31	23.37	23.37	24.3
10	16QAM	1	25	23.31	23.15	23.25	
10	16QAM	1	49	23.34	23.20	23.14	
10	16QAM	25	0	21.97	21.96	22.17	23.3
10	16QAM	25	12	22.05	22.12	21.94	
10	16QAM	25	25	22.16	22.03	21.97	
10	16QAM	50	0	21.99	22.08	21.97	
10	64QAM	1	0	22.41	22.38	22.33	23.3
10	64QAM	1	25	22.24	22.18	22.07	
10	64QAM	1	49	22.21	22.22	22.14	
10	64QAM	25	0	21.15	21.14	21.16	22.3
10	64QAM	25	12	21.12	21.12	20.97	
10	64QAM	25	25	21.15	21.20	21.04	
10	64QAM	50	0	21.10	21.22	21.18	
10	256QAM	1	0	19.80	19.79	19.74	20.3
10	256QAM	1	25	19.55	19.65	19.56	
10	256QAM	1	49	19.61	19.75	19.59	
10	256QAM	25	0	19.54	19.55	19.46	20.3
10	256QAM	25	12	19.58	19.47	19.39	
10	256QAM	25	25	19.49	19.62	19.45	
10	256QAM	50	0	19.58	19.68	19.51	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	24.04	24.06	24.15	25.3
5	QPSK	1	12	24.00	24.08	24.02	
5	QPSK	1	24	23.86	23.91	23.84	
5	QPSK	12	0	23.11	23.15	23.04	24.3
5	QPSK	12	7	23.04	23.10	23.09	
5	QPSK	12	13	23.11	23.14	23.10	
5	QPSK	25	0	23.13	23.09	23.11	
5	16QAM	1	0	23.44	23.46	23.29	24.3
5	16QAM	1	12	23.36	23.14	23.38	
5	16QAM	1	24	23.37	23.36	23.22	
5	16QAM	12	0	22.09	22.03	22.13	23.3
5	16QAM	12	7	22.11	21.94	22.06	
5	16QAM	12	13	21.96	21.92	21.91	
5	16QAM	25	0	22.10	22.02	22.07	
5	64QAM	1	0	22.41	22.27	22.23	23.3
5	64QAM	1	12	22.22	22.22	22.14	
5	64QAM	1	24	22.25	22.16	22.05	
5	64QAM	12	0	21.04	21.21	21.08	22.3
5	64QAM	12	7	21.09	21.11	20.96	
5	64QAM	12	13	21.17	21.06	21.11	
5	64QAM	25	0	21.23	21.13	21.15	
5	256QAM	1	0	19.80	19.78	19.61	20.3
5	256QAM	1	12	19.58	19.47	19.62	
5	256QAM	1	24	19.75	19.68	19.42	
5	256QAM	12	0	19.44	19.52	19.38	20.3
5	256QAM	12	7	19.67	19.49	19.49	
5	256QAM	12	13	19.51	19.65	19.43	
5	256QAM	25	0	19.63	19.62	19.41	



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Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	24.11	24.18	24.10	25.3
3	QPSK	1	8	23.94	24.03	24.05	
3	QPSK	1	14	23.88	24.06	23.88	
3	QPSK	8	0	23.04	23.02	23.01	24.3
3	QPSK	8	4	23.00	23.00	22.99	
3	QPSK	8	7	23.01	23.04	22.93	
3	QPSK	15	0	23.00	23.01	22.98	
3	16QAM	1	0	23.46	23.48	23.36	24.3
3	16QAM	1	8	23.27	23.20	23.36	
3	16QAM	1	14	23.29	23.30	23.30	
3	16QAM	8	0	22.06	22.05	22.12	23.3
3	16QAM	8	4	22.14	22.13	22.06	
3	16QAM	8	7	22.06	21.98	21.94	
3	16QAM	15	0	22.17	22.08	22.09	
3	64QAM	1	0	22.41	22.32	22.28	23.3
3	64QAM	1	8	22.21	22.17	22.06	
3	64QAM	1	14	22.30	22.36	22.15	
3	64QAM	8	0	21.13	21.22	20.98	22.3
3	64QAM	8	4	21.26	21.18	21.02	
3	64QAM	8	7	21.14	21.14	21.10	
3	64QAM	15	0	21.08	21.24	21.20	
3	256QAM	1	0	19.78	19.62	19.71	20.3
3	256QAM	1	8	19.40	19.65	19.62	
3	256QAM	1	14	19.74	19.69	19.44	
3	256QAM	8	0	19.58	19.54	19.48	20.3
3	256QAM	8	4	19.53	19.60	19.54	
3	256QAM	8	7	19.50	19.64	19.51	
3	256QAM	15	0	19.50	19.55	19.42	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	23.97	24.04	24.19	25.3
1.4	QPSK	1	3	23.94	24.04	23.91	
1.4	QPSK	1	5	23.88	24.03	23.97	
1.4	QPSK	3	0	23.97	24.09	24.02	
1.4	QPSK	3	1	24.01	24.10	24.04	
1.4	QPSK	3	3	23.94	23.88	24.03	
1.4	QPSK	6	0	23.00	23.20	23.09	24.3
1.4	16QAM	1	0	23.02	22.99	22.96	24.3
1.4	16QAM	1	3	23.10	23.00	23.00	
1.4	16QAM	1	5	23.08	23.16	23.11	
1.4	16QAM	3	0	23.32	23.32	23.37	
1.4	16QAM	3	1	23.37	23.33	23.37	
1.4	16QAM	3	3	23.32	23.34	23.23	
1.4	16QAM	6	0	22.03	21.97	22.08	23.3
1.4	64QAM	1	0	21.97	22.04	22.03	23.3
1.4	64QAM	1	3	22.07	22.02	22.07	
1.4	64QAM	1	5	22.01	22.07	22.02	
1.4	64QAM	3	0	22.40	22.33	22.19	
1.4	64QAM	3	1	22.17	22.18	22.20	
1.4	64QAM	3	3	22.37	22.21	22.04	
1.4	64QAM	6	0	21.17	21.18	21.00	22.3
1.4	256QAM	1	0	19.84	19.60	19.77	20.3
1.4	256QAM	1	3	19.45	19.54	19.71	
1.4	256QAM	1	5	19.75	19.77	19.54	
1.4	256QAM	3	0	19.62	19.51	19.50	
1.4	256QAM	3	1	19.61	19.49	19.51	
1.4	256QAM	3	3	19.41	19.52	19.55	
1.4	256QAM	6	0	19.44	19.64	19.60	20.3



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.89	23.88	23.85	
20	QPSK	1	49	23.74	23.77	23.71	24.9
20	QPSK	1	99	23.74	23.67	23.62	
20	QPSK	50	0	22.88	22.84	22.72	
20	QPSK	50	24	22.83	22.74	22.68	24
20	QPSK	50	50	22.86	22.79	22.64	
20	QPSK	100	0	22.87	22.83	22.69	
20	16QAM	1	0	23.28	23.20	23.17	24
20	16QAM	1	49	23.06	23.00	23.05	
20	16QAM	1	99	23.04	22.96	22.97	
20	16QAM	50	0	21.83	21.76	21.70	23
20	16QAM	50	24	21.84	21.79	21.68	
20	16QAM	50	50	21.83	21.77	21.60	
20	16QAM	100	0	21.85	21.79	21.73	23
20	64QAM	1	0	22.18	21.99	22.01	
20	64QAM	1	49	21.89	21.92	21.88	
20	64QAM	1	99	21.94	21.83	21.90	22
20	64QAM	50	0	20.93	20.83	20.79	
20	64QAM	50	24	20.88	20.81	20.75	
20	64QAM	50	50	20.85	20.77	20.70	20
20	64QAM	100	0	20.92	20.78	20.73	
20	256QAM	1	0	19.57	19.42	19.40	
20	256QAM	1	49	19.28	19.37	19.27	20
20	256QAM	1	99	19.29	19.21	19.35	
20	256QAM	50	0	19.32	19.18	19.16	
20	256QAM	50	24	19.33	19.25	19.19	20
20	256QAM	50	50	19.20	19.17	19.08	
20	256QAM	100	0	19.34	19.18	19.18	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.85	23.68	23.80	
15	QPSK	1	37	23.71	23.73	23.63	24.9
15	QPSK	1	74	23.73	23.54	23.61	
15	QPSK	36	0	22.74	22.77	22.66	
15	QPSK	36	20	22.73	22.62	22.56	24
15	QPSK	36	39	22.83	22.76	22.48	
15	QPSK	75	0	22.81	22.78	22.59	
15	16QAM	1	0	23.25	23.06	22.97	24
15	16QAM	1	37	22.97	22.87	22.98	
15	16QAM	1	74	23.03	22.91	22.89	
15	16QAM	36	0	21.68	21.75	21.66	23
15	16QAM	36	20	21.82	21.69	21.54	
15	16QAM	36	39	21.81	21.67	21.42	
15	16QAM	75	0	21.76	21.66	21.58	23
15	64QAM	1	0	22.16	21.84	21.84	
15	64QAM	1	37	21.89	21.85	21.87	
15	64QAM	1	74	21.86	21.82	21.75	22
15	64QAM	36	0	20.76	20.76	20.65	
15	64QAM	36	20	20.75	20.74	20.67	
15	64QAM	36	39	20.67	20.71	20.53	20
15	64QAM	75	0	20.88	20.70	20.62	
15	256QAM	1	0	19.50	19.41	19.36	
15	256QAM	1	37	19.09	19.35	19.20	20
15	256QAM	1	74	19.23	19.01	19.16	
15	256QAM	36	0	19.24	19.05	19.02	
15	256QAM	36	20	19.26	19.11	19.07	



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15	256QAM	36	39	19.16	19.01	18.91	Tune-up limit (dBm)
15	256QAM	75	0	19.18	19.16	19.04	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.71	23.76	23.83	24.9
10	QPSK	1	25	23.68	23.72	23.57	
10	QPSK	1	49	23.56	23.52	23.60	
10	QPSK	25	0	22.71	22.64	22.59	24
10	QPSK	25	12	22.79	22.71	22.49	
10	QPSK	25	25	22.86	22.78	22.55	
10	QPSK	50	0	22.86	22.65	22.49	
10	16QAM	1	0	23.10	23.05	22.99	24
10	16QAM	1	25	22.90	22.97	22.96	
10	16QAM	1	49	23.03	22.92	22.96	
10	16QAM	25	0	21.78	21.57	21.70	23
10	16QAM	25	12	21.77	21.76	21.51	
10	16QAM	25	25	21.67	21.71	21.45	
10	16QAM	50	0	21.69	21.68	21.59	
10	64QAM	1	0	22.02	21.93	21.84	23
10	64QAM	1	25	21.74	21.77	21.81	
10	64QAM	1	49	21.75	21.76	21.85	
10	64QAM	25	0	20.87	20.78	20.67	22
10	64QAM	25	12	20.86	20.75	20.75	
10	64QAM	25	25	20.79	20.64	20.57	
10	64QAM	50	0	20.80	20.70	20.62	
10	256QAM	1	0	19.43	19.34	19.24	20
10	256QAM	1	25	19.12	19.31	19.19	
10	256QAM	1	49	19.20	19.04	19.27	
10	256QAM	25	0	19.23	19.01	18.97	20
10	256QAM	25	12	19.13	19.07	18.99	
10	256QAM	25	25	19.13	19.05	19.08	
10	256QAM	50	0	19.26	19.04	19.06	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.75	23.86	23.71	24.9
5	QPSK	1	12	23.69	23.63	23.53	
5	QPSK	1	24	23.57	23.48	23.51	
5	QPSK	12	0	22.73	22.75	22.66	24
5	QPSK	12	7	22.77	22.54	22.65	
5	QPSK	12	13	22.84	22.78	22.51	
5	QPSK	25	0	22.84	22.78	22.58	
5	16QAM	1	0	23.20	23.17	23.00	24
5	16QAM	1	12	22.90	22.97	23.04	
5	16QAM	1	24	22.93	22.89	22.84	
5	16QAM	12	0	21.77	21.69	21.57	23
5	16QAM	12	7	21.65	21.60	21.67	
5	16QAM	12	13	21.75	21.70	21.45	
5	16QAM	25	0	21.68	21.64	21.56	
5	64QAM	1	0	22.09	21.86	21.94	23
5	64QAM	1	12	21.83	21.83	21.84	
5	64QAM	1	24	21.94	21.79	21.78	
5	64QAM	12	0	20.89	20.80	20.61	22
5	64QAM	12	7	20.79	20.63	20.59	
5	64QAM	12	13	20.72	20.59	20.52	
5	64QAM	25	0	20.75	20.75	20.64	
5	256QAM	1	0	19.43	19.39	19.29	20
5	256QAM	1	12	19.23	19.27	19.22	
5	256QAM	1	24	19.11	19.06	19.21	
5	256QAM	12	0	19.31	19.08	19.12	20
5	256QAM	12	7	19.13	19.16	19.19	
5	256QAM	12	13	19.16	19.13	19.02	
5	256QAM	25	0	19.19	19.05	18.98	



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Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	23.76	23.75	23.75	24.9
3	QPSK	1	8	23.60	23.77	23.70	
3	QPSK	1	14	23.73	23.66	23.62	
3	QPSK	8	0	22.79	22.80	22.65	24
3	QPSK	8	4	22.80	22.74	22.64	
3	QPSK	8	7	22.79	22.78	22.45	
3	QPSK	15	0	22.79	22.65	22.66	
3	16QAM	1	0	23.08	23.04	23.17	24
3	16QAM	1	8	22.92	22.97	23.05	
3	16QAM	1	14	22.88	22.84	22.93	
3	16QAM	8	0	21.82	21.61	21.67	23
3	16QAM	8	4	21.75	21.77	21.64	
3	16QAM	8	7	21.66	21.57	21.54	
3	16QAM	15	0	21.73	21.71	21.69	
3	64QAM	1	0	22.07	21.90	21.92	23
3	64QAM	1	8	21.72	21.90	21.83	
3	64QAM	1	14	21.75	21.63	21.81	
3	64QAM	8	0	20.73	20.73	20.70	22
3	64QAM	8	4	20.84	20.69	20.56	
3	64QAM	8	7	20.67	20.74	20.64	
3	64QAM	15	0	20.80	20.66	20.70	
3	256QAM	1	0	19.55	19.23	19.29	20
3	256QAM	1	8	19.09	19.35	19.17	
3	256QAM	1	14	19.13	19.03	19.29	
3	256QAM	8	0	19.23	19.11	19.09	20
3	256QAM	8	4	19.32	19.20	19.01	
3	256QAM	8	7	19.10	19.08	18.91	
3	256QAM	15	0	19.34	19.01	18.99	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	23.82	23.81	23.68	24.9
1.4	QPSK	1	3	23.59	23.75	23.56	
1.4	QPSK	1	5	23.66	23.58	23.49	
1.4	QPSK	3	0	23.76	23.83	23.75	
1.4	QPSK	3	1	23.71	23.61	23.51	
1.4	QPSK	3	3	23.70	23.58	23.45	
1.4	QPSK	6	0	22.78	22.70	22.53	24
1.4	16QAM	1	0	22.64	22.62	22.63	24
1.4	16QAM	1	3	22.78	22.77	22.64	
1.4	16QAM	1	5	22.73	22.64	22.69	
1.4	16QAM	3	0	23.18	23.14	23.14	
1.4	16QAM	3	1	22.96	22.82	23.01	
1.4	16QAM	3	3	23.04	22.80	22.82	23
1.4	16QAM	6	0	21.70	21.61	21.50	
1.4	64QAM	1	0	21.76	21.64	21.67	23
1.4	64QAM	1	3	21.75	21.77	21.50	
1.4	64QAM	1	5	21.73	21.79	21.54	
1.4	64QAM	3	0	22.15	21.82	21.99	
1.4	64QAM	3	1	21.83	21.76	21.79	
1.4	64QAM	3	3	21.86	21.83	21.79	22
1.4	64QAM	6	0	20.84	20.78	20.68	
1.4	256QAM	1	0	19.45	19.37	19.30	20
1.4	256QAM	1	3	19.18	19.32	19.07	
1.4	256QAM	1	5	19.18	19.19	19.18	
1.4	256QAM	3	0	19.29	19.10	19.03	
1.4	256QAM	3	1	19.28	19.08	19.06	
1.4	256QAM	3	3	19.07	18.99	18.97	20
1.4	256QAM	6	0	19.32	19.18	19.16	



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	17.25	17.23	17.22	17.4
20	QPSK	1	49	17.13	17.16	17.20	
20	QPSK	1	99	17.11	17.08	17.15	
20	QPSK	50	0	17.24	17.20	17.22	17.4
20	QPSK	50	24	17.18	17.16	17.21	
20	QPSK	50	50	17.12	17.16	17.19	
20	QPSK	100	0	17.21	17.18	17.20	
20	16QAM	1	0	17.22	17.18	17.16	17.4
20	16QAM	1	49	17.12	17.15	17.18	
20	16QAM	1	99	17.12	17.03	17.11	
20	16QAM	50	0	17.15	17.23	17.23	17.4
20	16QAM	50	24	17.20	17.21	17.24	
20	16QAM	50	50	17.16	17.15	17.24	
20	16QAM	100	0	17.17	17.20	17.22	
20	64QAM	1	0	17.19	17.19	17.04	17.4
20	64QAM	1	49	17.00	17.03	17.04	
20	64QAM	1	99	17.06	17.01	17.08	
20	64QAM	50	0	17.22	17.20	17.24	17.4
20	64QAM	50	24	17.23	17.22	17.23	
20	64QAM	50	50	17.17	17.16	17.23	
20	64QAM	100	0	17.18	17.21	17.23	
20	256QAM	1	0	17.04	17.05	16.86	17.4
20	256QAM	1	49	16.96	16.99	16.87	
20	256QAM	1	99	17.04	16.99	16.96	
20	256QAM	50	0	17.13	17.13	17.08	17.4
20	256QAM	50	24	17.22	17.11	17.15	
20	256QAM	50	50	17.05	17.02	17.16	
20	256QAM	100	0	17.04	17.00	17.10	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	17.24	17.18	17.06	17.4
15	QPSK	1	37	17.01	16.96	17.08	
15	QPSK	1	74	16.98	17.07	17.08	
15	QPSK	36	0	17.09	17.16	17.11	17.4
15	QPSK	36	20	17.17	17.08	17.14	
15	QPSK	36	39	17.06	17.11	17.07	
15	QPSK	75	0	17.15	17.05	17.01	
15	16QAM	1	0	17.11	17.08	17.10	17.4
15	16QAM	1	37	16.94	17.06	17.18	
15	16QAM	1	74	16.92	16.94	16.95	
15	16QAM	36	0	16.95	17.22	17.19	17.4
15	16QAM	36	20	17.19	17.18	17.23	
15	16QAM	36	39	17.09	17.09	17.12	
15	16QAM	75	0	17.16	17.15	17.17	
15	64QAM	1	0	17.14	17.18	16.95	17.4
15	64QAM	1	37	16.80	16.87	16.96	
15	64QAM	1	74	17.05	17.00	16.92	
15	64QAM	36	0	17.18	17.01	17.07	17.4
15	64QAM	36	20	17.05	17.10	17.07	
15	64QAM	36	39	17.03	16.99	17.12	
15	64QAM	75	0	17.09	17.10	17.08	
15	256QAM	1	0	16.88	16.89	16.67	17.4
15	256QAM	1	37	16.80	16.92	16.76	
15	256QAM	1	74	16.99	16.92	16.96	
15	256QAM	36	0	16.95	16.99	16.88	17.4
15	256QAM	36	20	17.17	17.08	17.10	



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15	256QAM	36	39	16.88	16.87	17.09	Tune-up limit (dBm)
15	256QAM	75	0	17.02	16.84	17.02	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	17.12	17.15	17.10	17.4
10	QPSK	1	25	17.00	17.14	17.10	
10	QPSK	1	49	17.11	17.04	17.05	
10	QPSK	25	0	17.06	17.04	17.05	17.4
10	QPSK	25	12	17.06	17.05	17.06	
10	QPSK	25	25	16.97	17.10	17.00	
10	QPSK	50	0	17.06	17.11	17.11	
10	16QAM	1	0	17.20	17.08	16.98	17.4
10	16QAM	1	25	16.96	16.97	17.12	
10	16QAM	1	49	17.01	17.00	17.05	
10	16QAM	25	0	17.00	17.23	17.19	17.4
10	16QAM	25	12	17.16	17.08	17.22	
10	16QAM	25	25	17.04	17.06	17.04	
10	16QAM	50	0	17.14	17.18	17.03	
10	64QAM	1	0	17.10	17.18	17.02	17.4
10	64QAM	1	25	16.80	17.00	16.95	
10	64QAM	1	49	16.86	16.96	16.98	
10	64QAM	25	0	17.03	17.13	17.19	17.4
10	64QAM	25	12	17.07	17.17	17.07	
10	64QAM	25	25	17.04	17.10	17.14	
10	64QAM	50	0	17.18	17.16	17.23	
10	256QAM	1	0	16.86	16.85	16.80	17.4
10	256QAM	1	25	16.84	16.99	16.81	
10	256QAM	1	49	16.90	16.96	16.82	
10	256QAM	25	0	17.11	17.07	16.92	17.4
10	256QAM	25	12	17.16	16.91	17.02	
10	256QAM	25	25	16.99	16.86	17.16	
10	256QAM	50	0	16.94	16.87	16.91	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	17.15	17.19	17.08	17.4
5	QPSK	1	12	17.08	16.98	17.07	
5	QPSK	1	24	16.93	16.89	16.97	
5	QPSK	12	0	17.11	17.15	17.08	17.4
5	QPSK	12	7	17.07	17.10	17.19	
5	QPSK	12	13	17.11	17.06	17.02	
5	QPSK	25	0	17.09	17.18	17.17	
5	16QAM	1	0	17.09	17.11	16.96	17.4
5	16QAM	1	12	17.01	17.01	17.00	
5	16QAM	1	24	17.05	16.84	16.97	
5	16QAM	12	0	16.96	17.21	17.06	17.4
5	16QAM	12	7	17.11	17.17	17.18	
5	16QAM	12	13	17.00	17.04	17.22	
5	16QAM	25	0	17.10	17.14	17.13	
5	64QAM	1	0	17.15	17.16	16.96	17.4
5	64QAM	1	12	16.97	16.86	16.89	
5	64QAM	1	24	16.89	16.87	17.07	
5	64QAM	12	0	17.03	17.08	17.06	17.4
5	64QAM	12	7	17.19	17.16	17.22	
5	64QAM	12	13	17.16	17.04	17.17	
5	64QAM	25	0	16.98	17.07	17.16	
5	256QAM	1	0	16.98	16.92	16.82	17.4
5	256QAM	1	12	16.78	16.94	16.68	
5	256QAM	1	24	16.92	16.79	16.89	
5	256QAM	12	0	17.12	16.93	16.95	17.4
5	256QAM	12	7	17.13	16.95	17.12	
5	256QAM	12	13	16.91	16.82	17.04	
5	256QAM	25	0	17.03	16.96	17.05	



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Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	17.12	17.05	17.14	17.4
3	QPSK	1	8	17.09	16.98	17.15	
3	QPSK	1	14	16.93	17.00	17.04	
3	QPSK	8	0	17.07	17.07	17.14	17.4
3	QPSK	8	4	17.12	17.13	17.09	
3	QPSK	8	7	17.00	17.10	17.17	
3	QPSK	15	0	17.03	17.12	17.07	
3	16QAM	1	0	17.03	16.99	17.02	17.4
3	16QAM	1	8	17.07	17.14	17.11	
3	16QAM	1	14	17.07	16.90	17.07	
3	16QAM	8	0	17.10	17.18	17.23	17.4
3	16QAM	8	4	17.16	17.17	17.19	
3	16QAM	8	7	17.11	17.03	17.05	
3	16QAM	15	0	17.00	17.11	17.02	
3	64QAM	1	0	17.02	17.13	16.89	17.4
3	64QAM	1	8	16.88	16.84	16.85	
3	64QAM	1	14	17.02	16.89	17.05	
3	64QAM	8	0	17.17	17.11	17.20	17.4
3	64QAM	8	4	17.13	17.19	17.18	
3	64QAM	8	7	17.16	16.98	17.08	
3	64QAM	15	0	17.10	17.12	17.04	
3	256QAM	1	0	16.85	16.93	16.78	17.4
3	256QAM	1	8	16.90	16.92	16.78	
3	256QAM	1	14	16.97	16.83	16.93	
3	256QAM	8	0	17.06	16.98	17.04	17.4
3	256QAM	8	4	17.21	17.03	17.08	
3	256QAM	8	7	16.93	17.01	16.99	
3	256QAM	15	0	16.99	16.90	17.07	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	17.12	17.08	17.10	17.4
1.4	QPSK	1	3	17.08	17.01	17.04	
1.4	QPSK	1	5	16.94	16.95	16.98	
1.4	QPSK	3	0	17.19	17.03	17.18	
1.4	QPSK	3	1	17.03	17.00	17.09	
1.4	QPSK	3	3	17.01	17.12	17.13	
1.4	QPSK	6	0	17.11	17.07	17.11	
1.4	16QAM	1	0	17.16	17.02	17.14	17.4
1.4	16QAM	1	3	17.02	17.10	17.02	
1.4	16QAM	1	5	17.11	16.83	17.03	
1.4	16QAM	3	0	17.04	17.07	17.15	
1.4	16QAM	3	1	17.14	17.10	17.11	
1.4	16QAM	3	3	17.08	17.00	17.16	
1.4	16QAM	6	0	17.03	17.13	17.13	17.4
1.4	64QAM	1	0	17.02	17.02	16.97	17.4
1.4	64QAM	1	3	16.91	16.93	17.04	
1.4	64QAM	1	5	17.01	16.98	16.91	
1.4	64QAM	3	0	17.14	17.02	17.15	
1.4	64QAM	3	1	17.18	17.09	17.23	
1.4	64QAM	3	3	17.08	16.98	17.18	
1.4	64QAM	6	0	17.16	17.16	17.18	17.4
1.4	256QAM	1	0	16.94	16.85	16.86	17.4
1.4	256QAM	1	3	16.92	16.93	16.76	
1.4	256QAM	1	5	16.89	16.86	16.88	
1.4	256QAM	3	0	17.00	17.13	17.04	
1.4	256QAM	3	1	17.16	17.07	17.03	
1.4	256QAM	3	3	16.99	17.00	17.15	
1.4	256QAM	6	0	17.02	16.80	16.92	17.4



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	15.46	15.54	15.60	
20	QPSK	1	49	15.44	15.50	15.44	16.1
20	QPSK	1	99	15.34	15.36	15.42	
20	QPSK	50	0	15.55	15.52	15.56	
20	QPSK	50	24	15.49	15.51	15.51	16.1
20	QPSK	50	50	15.48	15.40	15.51	
20	QPSK	100	0	15.44	15.42	15.53	
20	16QAM	1	0	15.44	15.29	15.23	16.1
20	16QAM	1	49	15.26	15.17	15.16	
20	16QAM	1	99	15.29	15.21	15.27	
20	16QAM	50	0	15.44	15.59	15.59	16.1
20	16QAM	50	24	15.50	15.53	15.51	
20	16QAM	50	50	15.50	15.49	15.45	
20	16QAM	100	0	15.42	15.49	15.47	16.1
20	64QAM	1	0	15.38	15.18	15.22	
20	64QAM	1	49	15.20	15.09	15.20	
20	64QAM	1	99	15.11	15.17	15.16	16.1
20	64QAM	50	0	15.50	15.52	15.44	
20	64QAM	50	24	15.48	15.52	15.54	
20	64QAM	50	50	15.48	15.42	15.50	16.1
20	64QAM	100	0	15.51	15.42	15.55	
20	256QAM	1	0	15.32	15.46	15.30	
20	256QAM	1	49	15.30	15.13	15.38	16.1
20	256QAM	1	99	15.17	15.22	15.36	
20	256QAM	50	0	15.15	15.35	15.22	
20	256QAM	50	24	15.18	15.11	15.24	16.1
20	256QAM	50	50	15.26	15.14	15.19	
20	256QAM	100	0	15.17	15.14	15.24	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	15.33	15.29	15.52	
15	QPSK	1	37	15.46	15.39	15.43	16.1
15	QPSK	1	74	15.32	15.41	15.46	
15	QPSK	36	0	15.49	15.33	15.52	
15	QPSK	36	20	15.27	15.25	15.37	16.1
15	QPSK	36	39	15.34	15.37	15.34	
15	QPSK	75	0	15.42	15.39	15.33	
15	16QAM	1	0	15.27	15.21	15.01	16.1
15	16QAM	1	37	15.07	15.02	15.09	
15	16QAM	1	74	15.24	15.09	15.12	
15	16QAM	36	0	15.29	15.50	15.36	16.1
15	16QAM	36	20	15.42	15.46	15.48	
15	16QAM	36	39	15.37	15.27	15.23	
15	16QAM	75	0	15.33	15.34	15.48	16.1
15	64QAM	1	0	15.24	15.03	15.05	
15	64QAM	1	37	15.00	14.86	15.11	
15	64QAM	1	74	14.88	15.16	15.16	16.1
15	64QAM	36	0	15.43	15.31	15.35	
15	64QAM	36	20	15.49	15.41	15.53	
15	64QAM	36	39	15.44	15.32	15.37	16.1
15	64QAM	75	0	15.35	15.36	15.41	
15	256QAM	1	0	15.12	15.35	15.09	
15	256QAM	1	37	15.26	15.04	15.30	16.1
15	256QAM	1	74	15.06	15.12	15.35	
15	256QAM	36	0	14.93	15.26	15.04	
15	256QAM	36	20	15.04	15.04	15.25	16.1



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15	256QAM	36	39	15.24	15.04	15.15	
15	256QAM	75	0	15.01	15.08	15.23	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	15.51	15.37	15.41	16.1
10	QPSK	1	25	15.47	15.40	15.34	
10	QPSK	1	49	15.15	15.31	15.43	
10	QPSK	25	0	15.52	15.45	15.51	16.1
10	QPSK	25	12	15.33	15.37	15.46	
10	QPSK	25	25	15.24	15.33	15.40	
10	QPSK	50	0	15.32	15.38	15.27	
10	16QAM	1	0	15.46	15.21	15.19	16.1
10	16QAM	1	25	15.23	15.00	15.04	
10	16QAM	1	49	15.22	15.15	15.25	
10	16QAM	25	0	15.33	15.43	15.47	16.1
10	16QAM	25	12	15.37	15.40	15.42	
10	16QAM	25	25	15.25	15.31	15.28	
10	16QAM	50	0	15.22	15.38	15.28	
10	64QAM	1	0	15.33	14.99	15.12	16.1
10	64QAM	1	25	15.03	14.86	15.15	
10	64QAM	1	49	14.97	15.14	15.06	
10	64QAM	25	0	15.42	15.31	15.44	16.1
10	64QAM	25	12	15.39	15.39	15.36	
10	64QAM	25	25	15.45	15.32	15.50	
10	64QAM	50	0	15.39	15.47	15.34	
10	256QAM	1	0	15.19	15.25	15.17	16.1
10	256QAM	1	25	15.31	15.11	15.36	
10	256QAM	1	49	15.04	15.18	15.21	
10	256QAM	25	0	15.05	15.21	15.12	16.1
10	256QAM	25	12	15.13	14.94	15.15	
10	256QAM	25	25	15.29	14.96	14.92	
10	256QAM	50	0	15.16	15.01	15.24	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	15.42	15.43	15.38	16.1
5	QPSK	1	12	15.49	15.22	15.33	
5	QPSK	1	24	15.31	15.18	15.33	
5	QPSK	12	0	15.49	15.45	15.42	16.1
5	QPSK	12	7	15.47	15.47	15.44	
5	QPSK	12	13	15.35	15.33	15.42	
5	QPSK	25	0	15.29	15.45	15.53	
5	16QAM	1	0	15.33	15.20	15.06	16.1
5	16QAM	1	12	15.26	15.01	15.06	
5	16QAM	1	24	15.31	15.12	15.19	
5	16QAM	12	0	15.35	15.53	15.44	16.1
5	16QAM	12	7	15.45	15.36	15.41	
5	16QAM	12	13	15.37	15.25	15.27	
5	16QAM	25	0	15.34	15.48	15.42	
5	64QAM	1	0	15.35	15.04	14.98	16.1
5	64QAM	1	12	14.96	14.97	15.15	
5	64QAM	1	24	14.85	15.06	15.11	
5	64QAM	12	0	15.27	15.41	15.29	16.1
5	64QAM	12	7	15.34	15.49	15.33	
5	64QAM	12	13	15.31	15.34	15.27	
5	64QAM	25	0	15.40	15.36	15.44	
5	256QAM	1	0	15.33	15.44	15.27	16.1
5	256QAM	1	12	15.30	15.03	15.31	
5	256QAM	1	24	15.06	15.21	15.25	
5	256QAM	12	0	14.98	15.28	15.23	16.1
5	256QAM	12	7	15.07	15.11	15.23	
5	256QAM	12	13	15.28	15.10	15.16	
5	256QAM	25	0	15.20	15.09	15.13	



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Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	15.38	15.42	15.40	16.1
3	QPSK	1	8	15.39	15.26	15.31	
3	QPSK	1	14	15.20	15.23	15.35	
3	QPSK	8	0	15.47	15.32	15.57	16.1
3	QPSK	8	4	15.43	15.42	15.31	
3	QPSK	8	7	15.36	15.33	15.25	
3	QPSK	15	0	15.39	15.43	15.46	
3	16QAM	1	0	15.29	15.27	15.26	16.1
3	16QAM	1	8	15.09	15.04	15.21	
3	16QAM	1	14	15.12	15.21	15.15	
3	16QAM	8	0	15.28	15.45	15.54	16.1
3	16QAM	8	4	15.29	15.35	15.41	
3	16QAM	8	7	15.47	15.29	15.41	
3	16QAM	15	0	15.26	15.38	15.50	
3	64QAM	1	0	15.24	15.22	15.01	16.1
3	64QAM	1	8	15.10	15.04	14.93	
3	64QAM	1	14	15.01	14.98	15.14	
3	64QAM	8	0	15.28	15.33	15.26	16.1
3	64QAM	8	4	15.41	15.34	15.44	
3	64QAM	8	7	15.39	15.40	15.36	
3	64QAM	15	0	15.39	15.45	15.34	
3	256QAM	1	0	15.24	15.41	15.28	16.1
3	256QAM	1	8	15.21	14.98	15.14	
3	256QAM	1	14	15.04	15.07	15.23	
3	256QAM	8	0	15.06	15.15	15.21	16.1
3	256QAM	8	4	15.11	15.06	15.32	
3	256QAM	8	7	15.25	14.99	14.97	
3	256QAM	15	0	15.17	15.10	15.17	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	15.34	15.41	15.53	16.1
1.4	QPSK	1	3	15.50	15.31	15.46	
1.4	QPSK	1	5	15.26	15.35	15.20	
1.4	QPSK	3	0	15.57	15.32	15.37	
1.4	QPSK	3	1	15.50	15.28	15.50	
1.4	QPSK	3	3	15.29	15.40	15.34	
1.4	QPSK	6	0	15.48	15.32	15.42	16.1
1.4	16QAM	1	0	15.32	15.06	15.08	16.1
1.4	16QAM	1	3	15.31	15.22	15.07	
1.4	16QAM	1	5	15.27	15.05	15.20	
1.4	16QAM	3	0	15.24	15.38	15.48	
1.4	16QAM	3	1	15.37	15.48	15.44	
1.4	16QAM	3	3	15.45	15.22	15.41	
1.4	16QAM	6	0	15.27	15.46	15.40	16.1
1.4	64QAM	1	0	15.35	15.12	15.15	16.1
1.4	64QAM	1	3	15.14	15.02	15.06	
1.4	64QAM	1	5	14.87	15.19	15.11	
1.4	64QAM	3	0	15.22	15.39	15.28	
1.4	64QAM	3	1	15.46	15.33	15.34	
1.4	64QAM	3	3	15.34	15.31	15.31	
1.4	64QAM	6	0	15.30	15.42	15.47	16.1
1.4	256QAM	1	0	15.22	15.41	15.24	16.1
1.4	256QAM	1	3	15.22	15.01	15.31	
1.4	256QAM	1	5	15.07	15.06	15.21	
1.4	256QAM	3	0	14.99	15.32	15.12	
1.4	256QAM	3	1	15.10	14.96	15.22	
1.4	256QAM	3	3	15.17	14.96	15.13	
1.4	256QAM	6	0	15.02	14.96	15.10	16.1



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	19.46	19.45	19.43	
20	QPSK	1	49	19.44	19.28	19.30	20.1
20	QPSK	1	99	19.21	19.19	19.19	
20	QPSK	50	0	19.41	19.34	19.36	
20	QPSK	50	24	19.36	19.33	19.28	20.1
20	QPSK	50	50	19.22	19.31	19.34	
20	QPSK	100	0	19.35	19.31	19.28	
20	16QAM	1	0	19.41	19.24	19.36	20.1
20	16QAM	1	49	19.27	19.32	19.33	
20	16QAM	1	99	19.34	19.25	19.24	
20	16QAM	50	0	19.33	19.41	19.32	20.1
20	16QAM	50	24	19.23	19.30	19.31	
20	16QAM	50	50	19.25	19.24	19.35	
20	16QAM	100	0	19.16	19.30	19.28	20.1
20	64QAM	1	0	19.20	19.38	19.21	
20	64QAM	1	49	19.18	19.21	19.28	
20	64QAM	1	99	19.19	19.13	19.21	20.1
20	64QAM	50	0	19.35	19.31	19.25	
20	64QAM	50	24	19.30	19.29	19.31	
20	64QAM	50	50	19.16	19.28	19.21	20.1
20	64QAM	100	0	19.33	19.23	19.30	
20	256QAM	1	0	19.14	19.25	19.15	
20	256QAM	1	49	18.89	18.93	19.18	20.1
20	256QAM	1	99	19.17	19.19	18.85	
20	256QAM	50	0	18.96	19.25	18.91	
20	256QAM	50	24	19.12	19.06	18.94	20.1
20	256QAM	50	50	19.02	19.00	19.01	
20	256QAM	100	0	18.91	18.93	18.92	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	19.27	19.27	19.29	
15	QPSK	1	37	19.39	19.10	19.30	20.1
15	QPSK	1	74	19.10	19.15	19.17	
15	QPSK	36	0	19.28	19.30	19.25	
15	QPSK	36	20	19.28	19.25	19.13	20.1
15	QPSK	36	39	19.16	19.29	19.21	
15	QPSK	75	0	19.20	19.20	19.23	
15	16QAM	1	0	19.31	19.12	19.25	20.1
15	16QAM	1	37	19.29	19.15	19.32	
15	16QAM	1	74	19.33	19.26	19.14	
15	16QAM	36	0	19.19	19.36	19.20	20.1
15	16QAM	36	20	19.19	19.21	19.26	
15	16QAM	36	39	19.26	19.25	19.21	
15	16QAM	75	0	19.14	19.26	19.18	20.1
15	64QAM	1	0	19.12	19.38	19.14	
15	64QAM	1	37	19.17	19.11	19.24	
15	64QAM	1	74	19.17	19.29	19.19	20.1
15	64QAM	36	0	19.16	19.19	19.10	
15	64QAM	36	20	19.19	19.29	19.23	
15	64QAM	36	39	19.16	19.21	19.18	20.1
15	64QAM	75	0	19.19	19.16	19.18	
15	256QAM	1	0	19.09	19.16	19.07	
15	256QAM	1	37	18.88	18.82	19.16	20.1
15	256QAM	1	74	19.15	19.05	18.68	
15	256QAM	36	0	18.82	19.09	18.76	
15	256QAM	36	20	19.12	19.04	18.88	20.1



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15	256QAM	36	39	18.87	18.93	18.84	
15	256QAM	75	0	18.86	18.73	18.88	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	19.44	19.36	19.33	20.1
10	QPSK	1	25	19.40	19.19	19.10	
10	QPSK	1	49	19.29	19.18	19.12	
10	QPSK	25	0	19.38	19.29	19.33	20.1
10	QPSK	25	12	19.30	19.28	19.28	
10	QPSK	25	25	19.20	19.11	19.28	
10	QPSK	50	0	19.23	19.21	19.17	
10	16QAM	1	0	19.23	19.12	19.18	20.1
10	16QAM	1	25	19.21	19.16	19.18	
10	16QAM	1	49	19.31	19.12	19.26	
10	16QAM	25	0	19.17	19.39	19.27	20.1
10	16QAM	25	12	19.17	19.25	19.13	
10	16QAM	25	25	19.25	19.13	19.16	
10	16QAM	50	0	19.11	19.15	19.28	
10	64QAM	1	0	19.12	19.29	19.27	20.1
10	64QAM	1	25	19.18	19.15	19.24	
10	64QAM	1	49	19.17	19.29	19.27	
10	64QAM	25	0	19.33	19.18	19.10	20.1
10	64QAM	25	12	19.23	19.24	19.11	
10	64QAM	25	25	19.12	19.15	19.25	
10	64QAM	50	0	19.32	19.14	19.22	
10	256QAM	1	0	19.13	19.21	19.14	20.1
10	256QAM	1	25	18.89	18.74	19.11	
10	256QAM	1	49	19.07	19.01	18.68	
10	256QAM	25	0	18.89	19.10	18.79	20.1
10	256QAM	25	12	19.10	18.95	18.90	
10	256QAM	25	25	18.88	18.84	18.87	
10	256QAM	50	0	18.85	18.92	18.73	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	19.34	19.38	19.33	20.1
5	QPSK	1	12	19.44	19.15	19.27	
5	QPSK	1	24	19.21	19.21	19.17	
5	QPSK	12	0	19.34	19.15	19.33	20.1
5	QPSK	12	7	19.29	19.27	19.21	
5	QPSK	12	13	19.15	19.27	19.18	
5	QPSK	25	0	19.27	19.11	19.15	
5	16QAM	1	0	19.28	19.14	19.35	20.1
5	16QAM	1	12	19.12	19.17	19.15	
5	16QAM	1	24	19.22	19.17	19.27	
5	16QAM	12	0	19.16	19.22	19.19	20.1
5	16QAM	12	7	19.25	19.25	19.12	
5	16QAM	12	13	19.14	19.12	19.27	
5	16QAM	25	0	19.20	19.13	19.21	
5	64QAM	1	0	19.27	19.20	19.28	20.1
5	64QAM	1	12	19.28	19.21	19.29	
5	64QAM	1	24	19.26	19.28	19.15	
5	64QAM	12	0	19.31	19.30	19.27	20.1
5	64QAM	12	7	19.12	19.28	19.29	
5	64QAM	12	13	19.23	19.13	19.22	
5	64QAM	25	0	19.24	19.10	19.17	
5	256QAM	1	0	19.06	19.16	18.98	20.1
5	256QAM	1	12	18.74	18.82	19.17	
5	256QAM	1	24	19.02	19.04	18.81	
5	256QAM	12	0	18.76	19.20	18.85	20.1
5	256QAM	12	7	18.98	19.06	18.89	
5	256QAM	12	13	18.90	18.94	18.99	
5	256QAM	25	0	18.88	18.91	18.80	



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Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	19.31	19.33	19.24	20.1
3	QPSK	1	8	19.36	19.15	19.22	
3	QPSK	1	14	19.26	19.18	19.29	
3	QPSK	8	0	19.36	19.33	19.33	20.1
3	QPSK	8	4	19.25	19.22	19.10	
3	QPSK	8	7	19.29	19.23	19.27	
3	QPSK	15	0	19.25	19.14	19.17	
3	16QAM	1	0	19.31	19.20	19.16	20.1
3	16QAM	1	8	19.18	19.17	19.21	
3	16QAM	1	14	19.14	19.19	19.29	
3	16QAM	8	0	19.30	19.28	19.28	20.1
3	16QAM	8	4	19.25	19.22	19.31	
3	16QAM	8	7	19.16	19.26	19.30	
3	16QAM	15	0	19.13	19.20	19.25	
3	64QAM	1	0	19.21	19.20	19.19	20.1
3	64QAM	1	8	19.25	19.24	19.17	
3	64QAM	1	14	19.20	19.13	19.28	
3	64QAM	8	0	19.32	19.25	19.26	20.1
3	64QAM	8	4	19.22	19.13	19.26	
3	64QAM	8	7	19.25	19.27	19.23	
3	64QAM	15	0	19.26	19.23	19.18	
3	256QAM	1	0	19.10	19.23	19.05	20.1
3	256QAM	1	8	18.88	18.74	19.11	
3	256QAM	1	14	18.98	19.19	18.82	
3	256QAM	8	0	18.93	19.06	18.86	20.1
3	256QAM	8	4	19.02	19.05	18.93	
3	256QAM	8	7	18.85	18.87	18.96	
3	256QAM	15	0	18.87	18.83	18.82	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	19.40	19.40	19.34	20.1
1.4	QPSK	1	3	19.24	19.28	19.15	
1.4	QPSK	1	5	19.22	19.28	19.22	
1.4	QPSK	3	0	19.28	19.22	19.36	
1.4	QPSK	3	1	19.16	19.22	19.29	
1.4	QPSK	3	3	19.21	19.12	19.22	
1.4	QPSK	6	0	19.34	19.15	19.27	20.1
1.4	16QAM	1	0	19.25	19.13	19.19	20.1
1.4	16QAM	1	3	19.21	19.26	19.16	
1.4	16QAM	1	5	19.22	19.17	19.16	
1.4	16QAM	3	0	19.16	19.40	19.23	
1.4	16QAM	3	1	19.19	19.22	19.25	
1.4	16QAM	3	3	19.22	19.12	19.31	20.1
1.4	16QAM	6	0	19.10	19.23	19.22	
1.4	64QAM	1	0	19.17	19.23	19.26	20.1
1.4	64QAM	1	3	19.12	19.16	19.24	
1.4	64QAM	1	5	19.22	19.17	19.17	
1.4	64QAM	3	0	19.35	19.22	19.25	
1.4	64QAM	3	1	19.11	19.16	19.24	
1.4	64QAM	3	3	19.17	19.12	19.21	20.1
1.4	64QAM	6	0	19.24	19.17	19.13	
1.4	256QAM	1	0	19.01	19.15	18.98	20.1
1.4	256QAM	1	3	18.78	18.91	19.14	
1.4	256QAM	1	5	19.13	19.18	18.65	
1.4	256QAM	3	0	18.93	19.09	18.71	
1.4	256QAM	3	1	18.95	18.98	18.83	
1.4	256QAM	3	3	18.89	18.84	18.87	20.1
1.4	256QAM	6	0	18.78	18.92	18.77	



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	21.85	21.81	21.76	
20	QPSK	1	49	21.61	21.63	21.61	22.3
20	QPSK	1	99	21.56	21.57	21.47	
20	QPSK	50	0	21.83	21.66	21.68	
20	QPSK	50	24	21.66	21.70	21.49	22.3
20	QPSK	50	50	21.76	21.78	21.53	
20	QPSK	100	0	21.79	21.72	21.52	
20	16QAM	1	0	21.84	21.76	21.72	22.3
20	16QAM	1	49	21.62	21.59	21.67	
20	16QAM	1	99	21.59	21.59	21.54	
20	16QAM	50	0	21.73	21.59	21.63	22.3
20	16QAM	50	24	21.77	21.77	21.58	
20	16QAM	50	50	21.81	21.64	21.45	
20	16QAM	100	0	21.72	21.64	21.73	22.3
20	64QAM	1	0	21.76	21.60	21.58	
20	64QAM	1	49	21.40	21.53	21.38	
20	64QAM	1	99	21.53	21.33	21.53	22
20	64QAM	50	0	20.90	20.76	20.84	
20	64QAM	50	24	20.89	20.81	20.76	
20	64QAM	50	50	20.77	20.71	20.72	20
20	64QAM	100	0	21.01	20.69	20.66	
20	256QAM	1	0	19.63	19.47	19.48	
20	256QAM	1	49	19.28	19.30	19.17	20
20	256QAM	1	99	19.30	19.20	19.33	
20	256QAM	50	0	19.37	19.23	19.22	
20	256QAM	50	24	19.42	19.34	19.15	20
20	256QAM	50	50	19.28	19.10	19.16	
20	256QAM	100	0	19.26	19.19	19.23	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	21.83	21.48	21.79	
15	QPSK	1	37	21.65	21.64	21.56	22.3
15	QPSK	1	74	21.68	21.38	21.56	
15	QPSK	36	0	21.59	21.62	21.56	22.3
15	QPSK	36	20	21.61	21.44	21.49	
15	QPSK	36	39	21.70	21.64	21.40	
15	QPSK	75	0	21.61	21.72	21.45	22.3
15	16QAM	1	0	21.77	21.63	21.51	
15	16QAM	1	37	21.48	21.51	21.61	
15	16QAM	1	74	21.53	21.56	21.50	22.3
15	16QAM	36	0	21.48	21.75	21.62	
15	16QAM	36	20	21.76	21.57	21.54	
15	16QAM	36	39	21.69	21.58	21.23	22.3
15	16QAM	75	0	21.68	21.57	21.49	
15	64QAM	1	0	21.83	21.39	21.54	
15	64QAM	1	37	21.40	21.49	21.45	22.3
15	64QAM	1	74	21.54	21.47	21.43	
15	64QAM	36	0	20.72	20.83	20.75	
15	64QAM	36	20	20.76	20.79	20.62	22
15	64QAM	36	39	20.61	20.68	20.55	
15	64QAM	75	0	20.81	20.68	20.64	
15	256QAM	1	0	19.52	19.44	19.42	20
15	256QAM	1	37	19.05	19.28	19.27	
15	256QAM	1	74	19.14	19.05	19.10	
15	256QAM	36	0	19.28	19.03	19.04	20
15	256QAM	36	20	19.28	19.06	19.15	



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15	256QAM	36	39	19.11	19.00	18.83	
15	256QAM	75	0	19.09	19.26	19.05	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	21.54	21.73	21.80	22.3
10	QPSK	1	25	21.53	21.56	21.39	
10	QPSK	1	49	21.48	21.41	21.52	
10	QPSK	25	0	21.59	21.55	21.41	22.3
10	QPSK	25	12	21.66	21.51	21.39	
10	QPSK	25	25	21.76	21.61	21.38	
10	QPSK	50	0	21.81	21.48	21.34	
10	16QAM	1	0	21.72	21.71	21.65	22.3
10	16QAM	1	25	21.45	21.55	21.46	
10	16QAM	1	49	21.61	21.46	21.58	
10	16QAM	25	0	21.67	21.46	21.70	22.3
10	16QAM	25	12	21.62	21.73	21.43	
10	16QAM	25	25	21.61	21.58	21.33	
10	16QAM	50	0	21.65	21.67	21.50	
10	64QAM	1	0	21.66	21.52	21.35	22.3
10	64QAM	1	25	21.26	21.28	21.50	
10	64QAM	1	49	21.33	21.40	21.46	
10	64QAM	25	0	20.89	20.77	20.77	22
10	64QAM	25	12	20.78	20.81	20.82	
10	64QAM	25	25	20.72	20.55	20.60	
10	64QAM	50	0	20.72	20.66	20.57	
10	256QAM	1	0	19.48	19.24	19.16	20
10	256QAM	1	25	19.10	19.35	19.17	
10	256QAM	1	49	19.23	19.02	19.21	
10	256QAM	25	0	19.29	18.97	18.89	20
10	256QAM	25	12	19.06	19.17	19.08	
10	256QAM	25	25	19.03	19.01	19.11	
10	256QAM	50	0	19.16	18.96	19.04	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	21.56	21.77	21.54	22.3
5	QPSK	1	12	21.68	21.52	21.37	
5	QPSK	1	24	21.40	21.34	21.38	
5	QPSK	12	0	21.72	21.69	21.59	22.3
5	QPSK	12	7	21.77	21.41	21.54	
5	QPSK	12	13	21.72	21.76	21.44	
5	QPSK	25	0	21.64	21.64	21.45	
5	16QAM	1	0	21.75	21.77	21.50	22.3
5	16QAM	1	12	21.52	21.49	21.59	
5	16QAM	1	24	21.58	21.41	21.38	
5	16QAM	12	0	21.69	21.68	21.44	22.3
5	16QAM	12	7	21.62	21.46	21.59	
5	16QAM	12	13	21.56	21.59	21.27	
5	16QAM	25	0	21.61	21.52	21.47	
5	64QAM	1	0	21.73	21.47	21.45	22.3
5	64QAM	1	12	21.49	21.45	21.37	
5	64QAM	1	24	21.50	21.42	21.42	
5	64QAM	12	0	20.95	20.71	20.67	22
5	64QAM	12	7	20.83	20.55	20.58	
5	64QAM	12	13	20.76	20.67	20.59	
5	64QAM	25	0	20.65	20.67	20.60	
5	256QAM	1	0	19.43	19.40	19.24	20
5	256QAM	1	12	19.26	19.24	19.28	
5	256QAM	1	24	19.20	18.99	19.21	
5	256QAM	12	0	19.23	19.11	19.11	20
5	256QAM	12	7	19.04	19.19	19.17	
5	256QAM	12	13	19.07	19.05	18.94	
5	256QAM	25	0	19.15	19.13	19.05	



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Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	21.57	21.66	21.56	22.3
3	QPSK	1	8	21.53	21.75	21.62	
3	QPSK	1	14	21.73	21.51	21.61	
3	QPSK	8	0	21.71	21.60	21.45	22.3
3	QPSK	8	4	21.68	21.68	21.57	
3	QPSK	8	7	21.74	21.75	21.36	
3	QPSK	15	0	21.79	21.59	21.54	22.3
3	16QAM	1	0	21.73	21.59	21.76	
3	16QAM	1	8	21.54	21.66	21.72	
3	16QAM	1	14	21.42	21.45	21.49	22.3
3	16QAM	8	0	21.62	21.45	21.54	
3	16QAM	8	4	21.57	21.63	21.53	
3	16QAM	8	7	21.58	21.54	21.40	22.3
3	16QAM	15	0	21.67	21.57	21.66	
3	64QAM	1	0	21.77	21.52	21.44	
3	64QAM	1	8	21.42	21.40	21.36	22.3
3	64QAM	1	14	21.43	21.20	21.42	
3	64QAM	8	0	20.69	20.76	20.78	
3	64QAM	8	4	20.85	20.61	20.50	22
3	64QAM	8	7	20.71	20.64	20.66	
3	64QAM	15	0	20.76	20.76	20.69	
3	256QAM	1	0	19.55	19.14	19.21	20
3	256QAM	1	8	19.15	19.36	19.24	
3	256QAM	1	14	19.14	19.08	19.26	
3	256QAM	8	0	19.22	19.01	19.17	20
3	256QAM	8	4	19.38	19.20	19.04	
3	256QAM	8	7	19.13	19.01	18.93	
3	256QAM	15	0	19.32	18.91	19.06	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	21.68	21.69	21.49	22.3
1.4	QPSK	1	3	21.57	21.60	21.43	
1.4	QPSK	1	5	21.49	21.57	21.39	
1.4	QPSK	3	0	21.68	21.71	21.75	22.3
1.4	QPSK	3	1	21.64	21.55	21.36	
1.4	QPSK	3	3	21.63	21.38	21.25	
1.4	QPSK	6	0	21.59	21.51	21.40	22.3
1.4	16QAM	1	0	21.46	21.54	21.55	22.3
1.4	16QAM	1	3	21.58	21.62	21.55	
1.4	16QAM	1	5	21.70	21.62	21.53	
1.4	16QAM	3	0	21.76	21.77	21.75	22.3
1.4	16QAM	3	1	21.74	21.77	21.81	
1.4	16QAM	3	3	21.80	21.63	21.68	
1.4	16QAM	6	0	21.23	21.21	21.04	22.3
1.4	64QAM	1	0	21.44	21.25	21.20	22.3
1.4	64QAM	1	3	21.44	21.27	21.09	
1.4	64QAM	1	5	21.31	21.41	21.11	
1.4	64QAM	3	0	21.75	21.36	21.54	22.3
1.4	64QAM	3	1	21.47	21.31	21.45	
1.4	64QAM	3	3	21.46	21.38	21.42	
1.4	64QAM	6	0	20.91	20.79	20.73	22
1.4	256QAM	1	0	19.38	19.27	19.21	20
1.4	256QAM	1	3	19.27	19.34	19.00	
1.4	256QAM	1	5	19.16	19.10	19.16	
1.4	256QAM	3	0	19.38	19.03	19.07	20
1.4	256QAM	3	1	19.32	18.98	19.10	
1.4	256QAM	3	3	19.03	18.92	19.01	
1.4	256QAM	6	0	19.27	19.16	19.08	20



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	17.25	17.23	17.22	18.2
20	QPSK	1	49	17.13	17.16	17.20	
20	QPSK	1	99	17.11	17.08	17.15	
20	QPSK	50	0	17.24	17.20	17.22	18.2
20	QPSK	50	24	17.18	17.16	17.21	
20	QPSK	50	50	17.12	17.16	17.19	
20	QPSK	100	0	17.21	17.18	17.20	
20	16QAM	1	0	17.22	17.18	17.16	18.2
20	16QAM	1	49	17.12	17.15	17.18	
20	16QAM	1	99	17.12	17.03	17.11	
20	16QAM	50	0	17.15	17.23	17.23	18.2
20	16QAM	50	24	17.20	17.21	17.24	
20	16QAM	50	50	17.16	17.15	17.24	
20	16QAM	100	0	17.17	17.20	17.22	
20	64QAM	1	0	17.19	17.19	17.04	18.2
20	64QAM	1	49	17.00	17.03	17.04	
20	64QAM	1	99	17.06	17.01	17.08	
20	64QAM	50	0	17.22	17.20	17.24	18.2
20	64QAM	50	24	17.23	17.22	17.23	
20	64QAM	50	50	17.17	17.16	17.23	
20	64QAM	100	0	17.18	17.21	17.23	
20	256QAM	1	0	17.04	17.05	16.86	18.2
20	256QAM	1	49	16.96	16.99	16.87	
20	256QAM	1	99	17.04	16.99	16.96	
20	256QAM	50	0	17.13	17.13	17.08	18.2
20	256QAM	50	24	17.22	17.11	17.15	
20	256QAM	50	50	17.05	17.02	17.16	
20	256QAM	100	0	17.04	17.00	17.10	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	17.24	17.18	17.06	18.2
15	QPSK	1	37	17.01	16.96	17.08	
15	QPSK	1	74	16.98	17.07	17.08	
15	QPSK	36	0	17.09	17.16	17.11	18.2
15	QPSK	36	20	17.17	17.08	17.14	
15	QPSK	36	39	17.06	17.11	17.07	
15	QPSK	75	0	17.15	17.05	17.01	
15	16QAM	1	0	17.11	17.08	17.10	18.2
15	16QAM	1	37	16.94	17.06	17.18	
15	16QAM	1	74	16.92	16.94	16.95	
15	16QAM	36	0	16.95	17.22	17.19	18.2
15	16QAM	36	20	17.19	17.18	17.23	
15	16QAM	36	39	17.09	17.09	17.12	
15	16QAM	75	0	17.16	17.15	17.17	
15	64QAM	1	0	17.14	17.18	16.95	18.2
15	64QAM	1	37	16.80	16.87	16.96	
15	64QAM	1	74	17.05	17.00	16.92	
15	64QAM	36	0	17.18	17.01	17.07	18.2
15	64QAM	36	20	17.05	17.10	17.07	
15	64QAM	36	39	17.03	16.99	17.12	
15	64QAM	75	0	17.09	17.10	17.08	
15	256QAM	1	0	16.88	16.89	16.67	18.2
15	256QAM	1	37	16.80	16.92	16.76	
15	256QAM	1	74	16.99	16.92	16.96	
15	256QAM	36	0	16.95	16.99	16.88	18.2
15	256QAM	36	20	17.17	17.08	17.10	



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15	256QAM	36	39	16.88	16.87	17.09	Tune-up limit (dBm)
15	256QAM	75	0	17.02	16.84	17.02	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	17.12	17.15	17.10	18.2
10	QPSK	1	25	17.00	17.14	17.10	
10	QPSK	1	49	17.11	17.04	17.05	
10	QPSK	25	0	17.06	17.04	17.05	18.2
10	QPSK	25	12	17.06	17.05	17.06	
10	QPSK	25	25	16.97	17.10	17.00	
10	QPSK	50	0	17.06	17.11	17.11	
10	16QAM	1	0	17.20	17.08	16.98	18.2
10	16QAM	1	25	16.96	16.97	17.12	
10	16QAM	1	49	17.01	17.00	17.05	
10	16QAM	25	0	17.00	17.23	17.19	18.2
10	16QAM	25	12	17.16	17.08	17.22	
10	16QAM	25	25	17.04	17.06	17.04	
10	16QAM	50	0	17.14	17.18	17.03	
10	64QAM	1	0	17.10	17.18	17.02	18.2
10	64QAM	1	25	16.80	17.00	16.95	
10	64QAM	1	49	16.86	16.96	16.98	
10	64QAM	25	0	17.03	17.13	17.19	18.2
10	64QAM	25	12	17.07	17.17	17.07	
10	64QAM	25	25	17.04	17.10	17.14	
10	64QAM	50	0	17.18	17.16	17.23	
10	256QAM	1	0	16.86	16.85	16.80	18.2
10	256QAM	1	25	16.84	16.99	16.81	
10	256QAM	1	49	16.90	16.96	16.82	
10	256QAM	25	0	17.11	17.07	16.92	18.2
10	256QAM	25	12	17.16	16.91	17.02	
10	256QAM	25	25	16.99	16.86	17.16	
10	256QAM	50	0	16.94	16.87	16.91	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	17.15	17.19	17.08	18.2
5	QPSK	1	12	17.08	16.98	17.07	
5	QPSK	1	24	16.93	16.89	16.97	
5	QPSK	12	0	17.11	17.15	17.08	18.2
5	QPSK	12	7	17.07	17.10	17.19	
5	QPSK	12	13	17.11	17.06	17.02	
5	QPSK	25	0	17.09	17.18	17.17	
5	16QAM	1	0	17.09	17.11	16.96	18.2
5	16QAM	1	12	17.01	17.01	17.00	
5	16QAM	1	24	17.05	16.84	16.97	
5	16QAM	12	0	16.96	17.21	17.06	18.2
5	16QAM	12	7	17.11	17.17	17.18	
5	16QAM	12	13	17.00	17.04	17.22	
5	16QAM	25	0	17.10	17.14	17.13	
5	64QAM	1	0	17.15	17.16	16.96	18.2
5	64QAM	1	12	16.97	16.86	16.89	
5	64QAM	1	24	16.89	16.87	17.07	
5	64QAM	12	0	17.03	17.08	17.06	18.2
5	64QAM	12	7	17.19	17.16	17.22	
5	64QAM	12	13	17.16	17.04	17.17	
5	64QAM	25	0	16.98	17.07	17.16	
5	256QAM	1	0	16.98	16.92	16.82	18.2
5	256QAM	1	12	16.78	16.94	16.68	
5	256QAM	1	24	16.92	16.79	16.89	
5	256QAM	12	0	17.12	16.93	16.95	18.2
5	256QAM	12	7	17.13	16.95	17.12	
5	256QAM	12	13	16.91	16.82	17.04	
5	256QAM	25	0	17.03	16.96	17.05	



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Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	17.12	17.05	17.14	18.2
3	QPSK	1	8	17.09	16.98	17.15	
3	QPSK	1	14	16.93	17.00	17.04	
3	QPSK	8	0	17.07	17.07	17.14	18.2
3	QPSK	8	4	17.12	17.13	17.09	
3	QPSK	8	7	17.00	17.10	17.17	
3	QPSK	15	0	17.03	17.12	17.07	
3	16QAM	1	0	17.03	16.99	17.02	18.2
3	16QAM	1	8	17.07	17.14	17.11	
3	16QAM	1	14	17.07	16.90	17.07	
3	16QAM	8	0	17.10	17.18	17.23	18.2
3	16QAM	8	4	17.16	17.17	17.19	
3	16QAM	8	7	17.11	17.03	17.05	
3	16QAM	15	0	17.00	17.11	17.02	
3	64QAM	1	0	17.02	17.13	16.89	18.2
3	64QAM	1	8	16.88	16.84	16.85	
3	64QAM	1	14	17.02	16.89	17.05	
3	64QAM	8	0	17.17	17.11	17.20	18.2
3	64QAM	8	4	17.13	17.19	17.18	
3	64QAM	8	7	17.16	16.98	17.08	
3	64QAM	15	0	17.10	17.12	17.04	
3	256QAM	1	0	16.85	16.93	16.78	18.2
3	256QAM	1	8	16.90	16.92	16.78	
3	256QAM	1	14	16.97	16.83	16.93	
3	256QAM	8	0	17.06	16.98	17.04	18.2
3	256QAM	8	4	17.21	17.03	17.08	
3	256QAM	8	7	16.93	17.01	16.99	
3	256QAM	15	0	16.99	16.90	17.07	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	17.12	17.08	17.10	18.2
1.4	QPSK	1	3	17.08	17.01	17.04	
1.4	QPSK	1	5	16.94	16.95	16.98	
1.4	QPSK	3	0	17.19	17.03	17.18	
1.4	QPSK	3	1	17.03	17.00	17.09	
1.4	QPSK	3	3	17.01	17.12	17.13	
1.4	QPSK	6	0	17.11	17.07	17.11	
1.4	16QAM	1	0	17.16	17.02	17.14	18.2
1.4	16QAM	1	3	17.02	17.10	17.02	
1.4	16QAM	1	5	17.11	16.83	17.03	
1.4	16QAM	3	0	17.04	17.07	17.15	
1.4	16QAM	3	1	17.14	17.10	17.11	
1.4	16QAM	3	3	17.08	17.00	17.16	
1.4	16QAM	6	0	17.03	17.13	17.13	18.2
1.4	64QAM	1	0	17.02	17.02	16.97	18.2
1.4	64QAM	1	3	16.91	16.93	17.04	
1.4	64QAM	1	5	17.01	16.98	16.91	
1.4	64QAM	3	0	17.14	17.02	17.15	
1.4	64QAM	3	1	17.18	17.09	17.23	
1.4	64QAM	3	3	17.08	16.98	17.18	
1.4	64QAM	6	0	17.16	17.16	17.18	18.2
1.4	256QAM	1	0	16.94	16.85	16.86	18.2
1.4	256QAM	1	3	16.92	16.93	16.76	
1.4	256QAM	1	5	16.89	16.86	16.88	
1.4	256QAM	3	0	17.00	17.13	17.04	
1.4	256QAM	3	1	17.16	17.07	17.03	
1.4	256QAM	3	3	16.99	17.00	17.15	
1.4	256QAM	6	0	17.02	16.80	16.92	18.2



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	16.96	16.97	17.01	
20	QPSK	1	49	16.94	16.90	16.91	18.2
20	QPSK	1	99	16.83	16.85	16.88	
20	QPSK	50	0	16.97	16.95	17.00	
20	QPSK	50	24	16.93	16.92	16.98	18.2
20	QPSK	50	50	16.88	16.87	16.91	
20	QPSK	100	0	16.90	16.92	16.95	
20	16QAM	1	0	16.88	16.72	16.69	18.2
20	16QAM	1	49	16.75	16.67	16.61	
20	16QAM	1	99	16.76	16.64	16.69	
20	16QAM	50	0	16.92	16.99	16.99	18.2
20	16QAM	50	24	16.94	16.94	16.95	
20	16QAM	50	50	16.93	16.90	16.92	
20	16QAM	100	0	16.92	16.92	16.95	18.2
20	64QAM	1	0	16.85	16.67	16.62	
20	64QAM	1	49	16.61	16.52	16.62	
20	64QAM	1	99	16.55	16.63	16.61	18.2
20	64QAM	50	0	16.91	16.95	16.90	
20	64QAM	50	24	16.97	16.93	16.95	
20	64QAM	50	50	16.93	16.91	16.94	18.2
20	64QAM	100	0	16.93	16.92	16.95	
20	256QAM	1	0	16.79	16.91	16.78	
20	256QAM	1	49	16.80	16.54	16.83	18.2
20	256QAM	1	99	16.58	16.68	16.77	
20	256QAM	50	0	16.58	16.80	16.69	
20	256QAM	50	24	16.66	16.55	16.74	18.2
20	256QAM	50	50	16.73	16.55	16.59	
20	256QAM	100	0	16.63	16.58	16.71	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	16.76	16.78	16.96	
15	QPSK	1	37	16.94	16.82	16.87	18.2
15	QPSK	1	74	16.75	16.84	16.87	
15	QPSK	36	0	16.90	16.80	16.95	
15	QPSK	36	20	16.77	16.73	16.81	18.2
15	QPSK	36	39	16.82	16.83	16.80	
15	QPSK	75	0	16.87	16.83	16.75	
15	16QAM	1	0	16.75	16.64	16.50	18.2
15	16QAM	1	37	16.55	16.51	16.53	
15	16QAM	1	74	16.67	16.49	16.62	
15	16QAM	36	0	16.79	16.95	16.82	18.2
15	16QAM	36	20	16.92	16.91	16.94	
15	16QAM	36	39	16.80	16.72	16.72	
15	16QAM	75	0	16.74	16.84	16.94	18.2
15	64QAM	1	0	16.71	16.52	16.53	
15	64QAM	1	37	16.48	16.33	16.51	
15	64QAM	1	74	16.38	16.62	16.61	18.2
15	64QAM	36	0	16.88	16.77	16.79	
15	64QAM	36	20	16.90	16.82	16.95	
15	64QAM	36	39	16.87	16.72	16.84	18.2
15	64QAM	75	0	16.80	16.83	16.87	
15	256QAM	1	0	16.59	16.77	16.59	
15	256QAM	1	37	16.70	16.50	16.80	18.2
15	256QAM	1	74	16.52	16.61	16.75	
15	256QAM	36	0	16.39	16.76	16.52	
15	256QAM	36	20	16.53	16.44	16.70	18.2



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15	256QAM	36	39	16.64	16.45	16.59	
15	256QAM	75	0	16.43	16.58	16.71	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	16.92	16.79	16.85	18.2
10	QPSK	1	25	16.93	16.90	16.79	
10	QPSK	1	49	16.64	16.75	16.86	
10	QPSK	25	0	16.94	16.88	16.93	18.2
10	QPSK	25	12	16.82	16.87	16.92	
10	QPSK	25	25	16.70	16.80	16.81	
10	QPSK	50	0	16.76	16.78	16.75	
10	16QAM	1	0	16.87	16.70	16.68	18.2
10	16QAM	1	25	16.71	16.48	16.46	
10	16QAM	1	49	16.70	16.57	16.65	
10	16QAM	25	0	16.78	16.90	16.97	18.2
10	16QAM	25	12	16.77	16.82	16.92	
10	16QAM	25	25	16.73	16.78	16.74	
10	16QAM	50	0	16.72	16.88	16.77	
10	64QAM	1	0	16.77	16.49	16.62	18.2
10	64QAM	1	25	16.47	16.36	16.62	
10	64QAM	1	49	16.37	16.58	16.48	
10	64QAM	25	0	16.85	16.78	16.84	18.2
10	64QAM	25	12	16.85	16.80	16.86	
10	64QAM	25	25	16.86	16.79	16.91	
10	64QAM	50	0	16.82	16.90	16.78	
10	256QAM	1	0	16.65	16.72	16.67	18.2
10	256QAM	1	25	16.75	16.53	16.82	
10	256QAM	1	49	16.45	16.66	16.63	
10	256QAM	25	0	16.54	16.65	16.52	18.2
10	256QAM	25	12	16.57	16.41	16.55	
10	256QAM	25	25	16.69	16.36	16.41	
10	256QAM	50	0	16.60	16.47	16.69	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	16.91	16.87	16.85	18.2
5	QPSK	1	12	16.89	16.71	16.80	
5	QPSK	1	24	16.79	16.68	16.76	
5	QPSK	12	0	16.97	16.86	16.89	18.2
5	QPSK	12	7	16.93	16.91	16.94	
5	QPSK	12	13	16.77	16.79	16.87	
5	QPSK	25	0	16.77	16.88	16.95	
5	16QAM	1	0	16.80	16.68	16.56	18.2
5	16QAM	1	12	16.69	16.49	16.46	
5	16QAM	1	24	16.71	16.59	16.61	
5	16QAM	12	0	16.85	16.99	16.89	18.2
5	16QAM	12	7	16.86	16.83	16.85	
5	16QAM	12	13	16.81	16.70	16.75	
5	16QAM	25	0	16.80	16.90	16.91	
5	64QAM	1	0	16.77	16.53	16.42	18.2
5	64QAM	1	12	16.41	16.37	16.60	
5	64QAM	1	24	16.35	16.48	16.52	
5	64QAM	12	0	16.75	16.86	16.75	18.2
5	64QAM	12	7	16.84	16.89	16.83	
5	64QAM	12	13	16.80	16.74	16.74	
5	64QAM	25	0	16.89	16.80	16.87	
5	256QAM	1	0	16.79	16.87	16.71	18.2
5	256QAM	1	12	16.71	16.49	16.80	
5	256QAM	1	24	16.53	16.66	16.72	
5	256QAM	12	0	16.45	16.74	16.63	18.2
5	256QAM	12	7	16.52	16.55	16.73	
5	256QAM	12	13	16.70	16.50	16.59	
5	256QAM	25	0	16.63	16.57	16.58	



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Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	16.86	16.88	16.88	18.2
3	QPSK	1	8	16.88	16.70	16.72	
3	QPSK	1	14	16.67	16.67	16.84	
3	QPSK	8	0	16.89	16.82	16.99	18.2
3	QPSK	8	4	16.92	16.92	16.81	
3	QPSK	8	7	16.79	16.80	16.74	
3	QPSK	15	0	16.83	16.90	16.90	
3	16QAM	1	0	16.72	16.70	16.69	18.2
3	16QAM	1	8	16.59	16.50	16.61	
3	16QAM	1	14	16.61	16.62	16.60	
3	16QAM	8	0	16.78	16.89	16.98	18.2
3	16QAM	8	4	16.78	16.82	16.81	
3	16QAM	8	7	16.88	16.74	16.87	
3	16QAM	15	0	16.76	16.87	16.92	
3	64QAM	1	0	16.73	16.63	16.43	18.2
3	64QAM	1	8	16.56	16.44	16.42	
3	64QAM	1	14	16.50	16.46	16.55	
3	64QAM	8	0	16.77	16.80	16.70	18.2
3	64QAM	8	4	16.84	16.81	16.87	
3	64QAM	8	7	16.79	16.88	16.76	
3	64QAM	15	0	16.85	16.87	16.83	
3	256QAM	1	0	16.67	16.90	16.72	18.2
3	256QAM	1	8	16.63	16.42	16.64	
3	256QAM	1	14	16.50	16.54	16.65	
3	256QAM	8	0	16.54	16.62	16.67	18.2
3	256QAM	8	4	16.61	16.48	16.74	
3	256QAM	8	7	16.71	16.49	16.43	
3	256QAM	15	0	16.63	16.51	16.60	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	16.79	16.88	16.95	18.2
1.4	QPSK	1	3	16.90	16.75	16.86	
1.4	QPSK	1	5	16.73	16.76	16.68	
1.4	QPSK	3	0	16.97	16.79	16.80	
1.4	QPSK	3	1	16.90	16.77	16.95	
1.4	QPSK	3	3	16.75	16.81	16.83	
1.4	QPSK	6	0	16.89	16.82	16.88	
1.4	16QAM	1	0	16.75	16.56	16.53	18.2
1.4	16QAM	1	3	16.74	16.64	16.52	
1.4	16QAM	1	5	16.72	16.49	16.61	
1.4	16QAM	3	0	16.74	16.84	16.93	
1.4	16QAM	3	1	16.83	16.94	16.91	
1.4	16QAM	3	3	16.85	16.70	16.90	
1.4	16QAM	6	0	16.74	16.86	16.88	18.2
1.4	64QAM	1	0	16.83	16.61	16.58	18.2
1.4	64QAM	1	3	16.58	16.47	16.49	
1.4	64QAM	1	5	16.36	16.62	16.57	
1.4	64QAM	3	0	16.72	16.89	16.74	
1.4	64QAM	3	1	16.88	16.81	16.77	
1.4	64QAM	3	3	16.82	16.73	16.75	
1.4	64QAM	6	0	16.80	16.91	16.95	18.2
1.4	256QAM	1	0	16.62	16.84	16.64	18.2
1.4	256QAM	1	3	16.70	16.48	16.71	
1.4	256QAM	1	5	16.57	16.56	16.65	
1.4	256QAM	3	0	16.42	16.73	16.57	
1.4	256QAM	3	1	16.59	16.44	16.65	
1.4	256QAM	3	3	16.60	16.39	16.54	
1.4	256QAM	6	0	16.50	16.42	16.58	18.2



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	19.46	19.45	19.43	
20	QPSK	1	49	19.44	19.28	19.30	20.9
20	QPSK	1	99	19.21	19.19	19.19	
20	QPSK	50	0	19.41	19.34	19.36	
20	QPSK	50	24	19.36	19.33	19.28	20.9
20	QPSK	50	50	19.22	19.31	19.34	
20	QPSK	100	0	19.35	19.31	19.28	
20	16QAM	1	0	19.41	19.24	19.36	20.9
20	16QAM	1	49	19.27	19.32	19.33	
20	16QAM	1	99	19.34	19.25	19.24	
20	16QAM	50	0	19.33	19.41	19.32	20.9
20	16QAM	50	24	19.23	19.30	19.31	
20	16QAM	50	50	19.25	19.24	19.35	
20	16QAM	100	0	19.16	19.30	19.28	20.9
20	64QAM	1	0	19.20	19.38	19.21	
20	64QAM	1	49	19.18	19.21	19.28	
20	64QAM	1	99	19.19	19.13	19.21	20.9
20	64QAM	50	0	19.35	19.31	19.25	
20	64QAM	50	24	19.30	19.29	19.31	
20	64QAM	50	50	19.16	19.28	19.21	20.9
20	64QAM	100	0	19.33	19.23	19.30	
20	256QAM	1	0	19.14	19.25	19.15	
20	256QAM	1	49	18.89	18.93	19.18	20.3
20	256QAM	1	99	19.17	19.19	18.85	
20	256QAM	50	0	18.96	19.25	18.91	
20	256QAM	50	24	19.12	19.06	18.94	20.3
20	256QAM	50	50	19.02	19.00	19.01	
20	256QAM	100	0	18.91	18.93	18.92	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	19.27	19.27	19.29	
15	QPSK	1	37	19.39	19.10	19.30	20.9
15	QPSK	1	74	19.10	19.15	19.17	
15	QPSK	36	0	19.28	19.30	19.25	
15	QPSK	36	20	19.28	19.25	19.13	20.9
15	QPSK	36	39	19.16	19.29	19.21	
15	QPSK	75	0	19.20	19.20	19.23	
15	16QAM	1	0	19.31	19.12	19.25	20.9
15	16QAM	1	37	19.29	19.15	19.32	
15	16QAM	1	74	19.33	19.26	19.14	
15	16QAM	36	0	19.19	19.36	19.20	20.9
15	16QAM	36	20	19.19	19.21	19.26	
15	16QAM	36	39	19.26	19.25	19.21	
15	16QAM	75	0	19.14	19.26	19.18	20.9
15	64QAM	1	0	19.12	19.38	19.14	
15	64QAM	1	37	19.17	19.11	19.24	
15	64QAM	1	74	19.17	19.29	19.19	20.9
15	64QAM	36	0	19.16	19.19	19.10	
15	64QAM	36	20	19.19	19.29	19.23	
15	64QAM	36	39	19.16	19.21	19.18	20.9
15	64QAM	75	0	19.19	19.16	19.18	
15	256QAM	1	0	19.09	19.16	19.07	
15	256QAM	1	37	18.88	18.82	19.16	20.3
15	256QAM	1	74	19.15	19.05	18.68	
15	256QAM	36	0	18.82	19.09	18.76	
15	256QAM	36	20	19.12	19.04	18.88	20.3



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15	256QAM	36	39	18.87	18.93	18.84	Tune-up limit (dBm)
15	256QAM	75	0	18.86	18.73	18.88	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	19.44	19.36	19.33	20.9
10	QPSK	1	25	19.40	19.19	19.10	
10	QPSK	1	49	19.29	19.18	19.12	
10	QPSK	25	0	19.38	19.29	19.33	20.9
10	QPSK	25	12	19.30	19.28	19.28	
10	QPSK	25	25	19.20	19.11	19.28	
10	QPSK	50	0	19.23	19.21	19.17	
10	16QAM	1	0	19.23	19.12	19.18	20.9
10	16QAM	1	25	19.21	19.16	19.18	
10	16QAM	1	49	19.31	19.12	19.26	
10	16QAM	25	0	19.17	19.39	19.27	20.9
10	16QAM	25	12	19.17	19.25	19.13	
10	16QAM	25	25	19.25	19.13	19.16	
10	16QAM	50	0	19.11	19.15	19.28	
10	64QAM	1	0	19.12	19.29	19.27	20.9
10	64QAM	1	25	19.18	19.15	19.24	
10	64QAM	1	49	19.17	19.29	19.27	
10	64QAM	25	0	19.33	19.18	19.10	20.9
10	64QAM	25	12	19.23	19.24	19.11	
10	64QAM	25	25	19.12	19.15	19.25	
10	64QAM	50	0	19.32	19.14	19.22	
10	256QAM	1	0	19.13	19.21	19.14	20.3
10	256QAM	1	25	18.89	18.74	19.11	
10	256QAM	1	49	19.07	19.01	18.68	
10	256QAM	25	0	18.89	19.10	18.79	20.3
10	256QAM	25	12	19.10	18.95	18.90	
10	256QAM	25	25	18.88	18.84	18.87	
10	256QAM	50	0	18.85	18.92	18.73	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	19.34	19.38	19.33	20.9
5	QPSK	1	12	19.44	19.15	19.27	
5	QPSK	1	24	19.21	19.21	19.17	
5	QPSK	12	0	19.34	19.15	19.33	20.9
5	QPSK	12	7	19.29	19.27	19.21	
5	QPSK	12	13	19.15	19.27	19.18	
5	QPSK	25	0	19.27	19.11	19.15	
5	16QAM	1	0	19.28	19.14	19.35	20.9
5	16QAM	1	12	19.12	19.17	19.15	
5	16QAM	1	24	19.22	19.17	19.27	
5	16QAM	12	0	19.16	19.22	19.19	20.9
5	16QAM	12	7	19.25	19.25	19.12	
5	16QAM	12	13	19.14	19.12	19.27	
5	16QAM	25	0	19.20	19.13	19.21	
5	64QAM	1	0	19.27	19.20	19.28	20.9
5	64QAM	1	12	19.28	19.21	19.29	
5	64QAM	1	24	19.26	19.28	19.15	
5	64QAM	12	0	19.31	19.30	19.27	20.9
5	64QAM	12	7	19.12	19.28	19.29	
5	64QAM	12	13	19.23	19.13	19.22	
5	64QAM	25	0	19.24	19.10	19.17	
5	256QAM	1	0	19.06	19.16	18.98	20.3
5	256QAM	1	12	18.74	18.82	19.17	
5	256QAM	1	24	19.02	19.04	18.81	
5	256QAM	12	0	18.76	19.20	18.85	20.3
5	256QAM	12	7	18.98	19.06	18.89	
5	256QAM	12	13	18.90	18.94	18.99	
5	256QAM	25	0	18.88	18.91	18.80	



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Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	19.31	19.33	19.24	20.9
3	QPSK	1	8	19.36	19.15	19.22	
3	QPSK	1	14	19.26	19.18	19.29	
3	QPSK	8	0	19.36	19.33	19.33	20.9
3	QPSK	8	4	19.25	19.22	19.10	
3	QPSK	8	7	19.29	19.23	19.27	
3	QPSK	15	0	19.25	19.14	19.17	
3	16QAM	1	0	19.31	19.20	19.16	20.9
3	16QAM	1	8	19.18	19.17	19.21	
3	16QAM	1	14	19.14	19.19	19.29	
3	16QAM	8	0	19.30	19.28	19.28	20.9
3	16QAM	8	4	19.25	19.22	19.31	
3	16QAM	8	7	19.16	19.26	19.30	
3	16QAM	15	0	19.13	19.20	19.25	
3	64QAM	1	0	19.21	19.20	19.19	20.9
3	64QAM	1	8	19.25	19.24	19.17	
3	64QAM	1	14	19.20	19.13	19.28	
3	64QAM	8	0	19.32	19.25	19.26	20.9
3	64QAM	8	4	19.22	19.13	19.26	
3	64QAM	8	7	19.25	19.27	19.23	
3	64QAM	15	0	19.26	19.23	19.18	
3	256QAM	1	0	19.10	19.23	19.05	20.3
3	256QAM	1	8	18.88	18.74	19.11	
3	256QAM	1	14	18.98	19.19	18.82	
3	256QAM	8	0	18.93	19.06	18.86	20.3
3	256QAM	8	4	19.02	19.05	18.93	
3	256QAM	8	7	18.85	18.87	18.96	
3	256QAM	15	0	18.87	18.83	18.82	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	19.40	19.40	19.34	20.9
1.4	QPSK	1	3	19.24	19.28	19.15	
1.4	QPSK	1	5	19.22	19.28	19.22	
1.4	QPSK	3	0	19.28	19.22	19.36	
1.4	QPSK	3	1	19.16	19.22	19.29	
1.4	QPSK	3	3	19.21	19.12	19.22	
1.4	QPSK	6	0	19.34	19.15	19.27	20.9
1.4	16QAM	1	0	19.25	19.13	19.19	20.9
1.4	16QAM	1	3	19.21	19.26	19.16	
1.4	16QAM	1	5	19.22	19.17	19.16	
1.4	16QAM	3	0	19.16	19.40	19.23	
1.4	16QAM	3	1	19.19	19.22	19.25	
1.4	16QAM	3	3	19.22	19.12	19.31	
1.4	16QAM	6	0	19.10	19.23	19.22	20.9
1.4	64QAM	1	0	19.17	19.23	19.26	20.9
1.4	64QAM	1	3	19.12	19.16	19.24	
1.4	64QAM	1	5	19.22	19.17	19.17	
1.4	64QAM	3	0	19.35	19.22	19.25	
1.4	64QAM	3	1	19.11	19.16	19.24	
1.4	64QAM	3	3	19.17	19.12	19.21	
1.4	64QAM	6	0	19.24	19.17	19.13	20.9
1.4	256QAM	1	0	19.01	19.15	18.98	20.3
1.4	256QAM	1	3	18.78	18.91	19.14	
1.4	256QAM	1	5	19.13	19.18	18.65	
1.4	256QAM	3	0	18.93	19.09	18.71	
1.4	256QAM	3	1	18.95	18.98	18.83	
1.4	256QAM	3	3	18.89	18.84	18.87	
1.4	256QAM	6	0	18.78	18.92	18.77	20.3



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	21.85	21.81	21.76	
20	QPSK	1	49	21.61	21.63	21.61	23.1
20	QPSK	1	99	21.56	21.57	21.47	
20	QPSK	50	0	21.83	21.66	21.68	
20	QPSK	50	24	21.66	21.70	21.49	23.1
20	QPSK	50	50	21.76	21.78	21.53	
20	QPSK	100	0	21.79	21.72	21.52	
20	16QAM	1	0	21.84	21.76	21.72	23.1
20	16QAM	1	49	21.62	21.59	21.67	
20	16QAM	1	99	21.59	21.59	21.54	
20	16QAM	50	0	21.73	21.59	21.63	23
20	16QAM	50	24	21.77	21.77	21.58	
20	16QAM	50	50	21.81	21.64	21.45	
20	16QAM	100	0	21.72	21.64	21.73	23
20	64QAM	1	0	21.76	21.60	21.58	
20	64QAM	1	49	21.40	21.53	21.38	
20	64QAM	1	99	21.53	21.33	21.53	22
20	64QAM	50	0	20.90	20.76	20.84	
20	64QAM	50	24	20.89	20.81	20.76	
20	64QAM	50	50	20.77	20.71	20.72	20
20	64QAM	100	0	21.01	20.69	20.66	
20	256QAM	1	0	19.63	19.47	19.48	
20	256QAM	1	49	19.28	19.30	19.17	20
20	256QAM	1	99	19.30	19.20	19.33	
20	256QAM	50	0	19.37	19.23	19.22	
20	256QAM	50	24	19.42	19.34	19.15	20
20	256QAM	50	50	19.28	19.10	19.16	
20	256QAM	100	0	19.26	19.19	19.23	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	21.83	21.48	21.79	
15	QPSK	1	37	21.65	21.64	21.56	23.1
15	QPSK	1	74	21.68	21.38	21.56	
15	QPSK	36	0	21.59	21.62	21.56	23.1
15	QPSK	36	20	21.61	21.44	21.49	
15	QPSK	36	39	21.70	21.64	21.40	
15	QPSK	75	0	21.61	21.72	21.45	23.1
15	16QAM	1	0	21.77	21.63	21.51	
15	16QAM	1	37	21.48	21.51	21.61	
15	16QAM	1	74	21.53	21.56	21.50	23
15	16QAM	36	0	21.48	21.75	21.62	
15	16QAM	36	20	21.76	21.57	21.54	
15	16QAM	36	39	21.69	21.58	21.23	23
15	16QAM	75	0	21.68	21.57	21.49	
15	64QAM	1	0	21.83	21.39	21.54	
15	64QAM	1	37	21.40	21.49	21.45	23
15	64QAM	1	74	21.54	21.47	21.43	
15	64QAM	36	0	20.72	20.83	20.75	
15	64QAM	36	20	20.76	20.79	20.62	22
15	64QAM	36	39	20.61	20.68	20.55	
15	64QAM	75	0	20.81	20.68	20.64	
15	256QAM	1	0	19.52	19.44	19.42	20
15	256QAM	1	37	19.05	19.28	19.27	
15	256QAM	1	74	19.14	19.05	19.10	
15	256QAM	36	0	19.28	19.03	19.04	20
15	256QAM	36	20	19.28	19.06	19.15	



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15	256QAM	36	39	19.11	19.00	18.83	
15	256QAM	75	0	19.09	19.26	19.05	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	21.54	21.73	21.80	23.1
10	QPSK	1	25	21.53	21.56	21.39	
10	QPSK	1	49	21.48	21.41	21.52	
10	QPSK	25	0	21.59	21.55	21.41	23.1
10	QPSK	25	12	21.66	21.51	21.39	
10	QPSK	25	25	21.76	21.61	21.38	
10	QPSK	50	0	21.81	21.48	21.34	
10	16QAM	1	0	21.72	21.71	21.65	23.1
10	16QAM	1	25	21.45	21.55	21.46	
10	16QAM	1	49	21.61	21.46	21.58	
10	16QAM	25	0	21.67	21.46	21.70	23
10	16QAM	25	12	21.62	21.73	21.43	
10	16QAM	25	25	21.61	21.58	21.33	
10	16QAM	50	0	21.65	21.67	21.50	
10	64QAM	1	0	21.66	21.52	21.35	23
10	64QAM	1	25	21.26	21.28	21.50	
10	64QAM	1	49	21.33	21.40	21.46	
10	64QAM	25	0	20.89	20.77	20.77	22
10	64QAM	25	12	20.78	20.81	20.82	
10	64QAM	25	25	20.72	20.55	20.60	
10	64QAM	50	0	20.72	20.66	20.57	
10	256QAM	1	0	19.48	19.24	19.16	20
10	256QAM	1	25	19.10	19.35	19.17	
10	256QAM	1	49	19.23	19.02	19.21	
10	256QAM	25	0	19.29	18.97	18.89	20
10	256QAM	25	12	19.06	19.17	19.08	
10	256QAM	25	25	19.03	19.01	19.11	
10	256QAM	50	0	19.16	18.96	19.04	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	21.56	21.77	21.54	23.1
5	QPSK	1	12	21.68	21.52	21.37	
5	QPSK	1	24	21.40	21.34	21.38	
5	QPSK	12	0	21.72	21.69	21.59	23.1
5	QPSK	12	7	21.77	21.41	21.54	
5	QPSK	12	13	21.72	21.76	21.44	
5	QPSK	25	0	21.64	21.64	21.45	
5	16QAM	1	0	21.75	21.77	21.50	23.1
5	16QAM	1	12	21.52	21.49	21.59	
5	16QAM	1	24	21.58	21.41	21.38	
5	16QAM	12	0	21.69	21.68	21.44	23
5	16QAM	12	7	21.62	21.46	21.59	
5	16QAM	12	13	21.56	21.59	21.27	
5	16QAM	25	0	21.61	21.52	21.47	
5	64QAM	1	0	21.73	21.47	21.45	23
5	64QAM	1	12	21.49	21.45	21.37	
5	64QAM	1	24	21.50	21.42	21.42	
5	64QAM	12	0	20.95	20.71	20.67	22
5	64QAM	12	7	20.83	20.55	20.58	
5	64QAM	12	13	20.76	20.67	20.59	
5	64QAM	25	0	20.65	20.67	20.60	
5	256QAM	1	0	19.43	19.40	19.24	20
5	256QAM	1	12	19.26	19.24	19.28	
5	256QAM	1	24	19.20	18.99	19.21	
5	256QAM	12	0	19.23	19.11	19.11	20
5	256QAM	12	7	19.04	19.19	19.17	
5	256QAM	12	13	19.07	19.05	18.94	
5	256QAM	25	0	19.15	19.13	19.05	



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Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	21.57	21.66	21.56	23.1
3	QPSK	1	8	21.53	21.75	21.62	
3	QPSK	1	14	21.73	21.51	21.61	
3	QPSK	8	0	21.71	21.60	21.45	23.1
3	QPSK	8	4	21.68	21.68	21.57	
3	QPSK	8	7	21.74	21.75	21.36	
3	QPSK	15	0	21.79	21.59	21.54	
3	16QAM	1	0	21.73	21.59	21.76	23.1
3	16QAM	1	8	21.54	21.66	21.72	
3	16QAM	1	14	21.42	21.45	21.49	
3	16QAM	8	0	21.62	21.45	21.54	23
3	16QAM	8	4	21.57	21.63	21.53	
3	16QAM	8	7	21.58	21.54	21.40	
3	16QAM	15	0	21.67	21.57	21.66	
3	64QAM	1	0	21.77	21.52	21.44	23
3	64QAM	1	8	21.42	21.40	21.36	
3	64QAM	1	14	21.43	21.20	21.42	
3	64QAM	8	0	20.69	20.76	20.78	22
3	64QAM	8	4	20.85	20.61	20.50	
3	64QAM	8	7	20.71	20.64	20.66	
3	64QAM	15	0	20.76	20.76	20.69	
3	256QAM	1	0	19.55	19.14	19.21	20
3	256QAM	1	8	19.15	19.36	19.24	
3	256QAM	1	14	19.14	19.08	19.26	
3	256QAM	8	0	19.22	19.01	19.17	20
3	256QAM	8	4	19.38	19.20	19.04	
3	256QAM	8	7	19.13	19.01	18.93	
3	256QAM	15	0	19.32	18.91	19.06	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	21.68	21.69	21.49	23.1
1.4	QPSK	1	3	21.57	21.60	21.43	
1.4	QPSK	1	5	21.49	21.57	21.39	
1.4	QPSK	3	0	21.68	21.71	21.75	
1.4	QPSK	3	1	21.64	21.55	21.36	
1.4	QPSK	3	3	21.63	21.38	21.25	
1.4	QPSK	6	0	21.59	21.51	21.40	23.1
1.4	16QAM	1	0	21.46	21.54	21.55	23.1
1.4	16QAM	1	3	21.58	21.62	21.55	
1.4	16QAM	1	5	21.70	21.62	21.53	
1.4	16QAM	3	0	21.76	21.77	21.75	
1.4	16QAM	3	1	21.74	21.77	21.81	
1.4	16QAM	3	3	21.80	21.63	21.68	
1.4	16QAM	6	0	21.23	21.21	21.04	23
1.4	64QAM	1	0	21.44	21.25	21.20	23
1.4	64QAM	1	3	21.44	21.27	21.09	
1.4	64QAM	1	5	21.31	21.41	21.11	
1.4	64QAM	3	0	21.75	21.36	21.54	
1.4	64QAM	3	1	21.47	21.31	21.45	
1.4	64QAM	3	3	21.46	21.38	21.42	
1.4	64QAM	6	0	20.91	20.79	20.73	22
1.4	256QAM	1	0	19.38	19.27	19.21	20
1.4	256QAM	1	3	19.27	19.34	19.00	
1.4	256QAM	1	5	19.16	19.10	19.16	
1.4	256QAM	3	0	19.38	19.03	19.07	
1.4	256QAM	3	1	19.32	18.98	19.10	
1.4	256QAM	3	3	19.03	18.92	19.01	
1.4	256QAM	6	0	19.27	19.16	19.08	20



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	17.25	17.23	17.22	17.4
20	QPSK	1	49	17.13	17.16	17.20	
20	QPSK	1	99	17.11	17.08	17.15	
20	QPSK	50	0	17.24	17.20	17.22	17.4
20	QPSK	50	24	17.18	17.16	17.21	
20	QPSK	50	50	17.12	17.16	17.19	
20	QPSK	100	0	17.21	17.18	17.20	
20	16QAM	1	0	17.22	17.18	17.16	17.4
20	16QAM	1	49	17.12	17.15	17.18	
20	16QAM	1	99	17.12	17.03	17.11	
20	16QAM	50	0	17.15	17.23	17.23	17.4
20	16QAM	50	24	17.20	17.21	17.24	
20	16QAM	50	50	17.16	17.15	17.24	
20	16QAM	100	0	17.17	17.20	17.22	
20	64QAM	1	0	17.19	17.19	17.04	17.4
20	64QAM	1	49	17.00	17.03	17.04	
20	64QAM	1	99	17.06	17.01	17.08	
20	64QAM	50	0	17.22	17.20	17.24	17.4
20	64QAM	50	24	17.23	17.22	17.23	
20	64QAM	50	50	17.17	17.16	17.23	
20	64QAM	100	0	17.18	17.21	17.23	
20	256QAM	1	0	17.04	17.05	16.86	17.4
20	256QAM	1	49	16.96	16.99	16.87	
20	256QAM	1	99	17.04	16.99	16.96	
20	256QAM	50	0	17.13	17.13	17.08	17.4
20	256QAM	50	24	17.22	17.11	17.15	
20	256QAM	50	50	17.05	17.02	17.16	
20	256QAM	100	0	17.04	17.00	17.10	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	17.24	17.18	17.06	17.4
15	QPSK	1	37	17.01	16.96	17.08	
15	QPSK	1	74	16.98	17.07	17.08	
15	QPSK	36	0	17.09	17.16	17.11	17.4
15	QPSK	36	20	17.17	17.08	17.14	
15	QPSK	36	39	17.06	17.11	17.07	
15	QPSK	75	0	17.15	17.05	17.01	
15	16QAM	1	0	17.11	17.08	17.10	17.4
15	16QAM	1	37	16.94	17.06	17.18	
15	16QAM	1	74	16.92	16.94	16.95	
15	16QAM	36	0	16.95	17.22	17.19	17.4
15	16QAM	36	20	17.19	17.18	17.23	
15	16QAM	36	39	17.09	17.09	17.12	
15	16QAM	75	0	17.16	17.15	17.17	
15	64QAM	1	0	17.14	17.18	16.95	17.4
15	64QAM	1	37	16.80	16.87	16.96	
15	64QAM	1	74	17.05	17.00	16.92	
15	64QAM	36	0	17.18	17.01	17.07	17.4
15	64QAM	36	20	17.05	17.10	17.07	
15	64QAM	36	39	17.03	16.99	17.12	
15	64QAM	75	0	17.09	17.10	17.08	
15	256QAM	1	0	16.88	16.89	16.67	17.4
15	256QAM	1	37	16.80	16.92	16.76	
15	256QAM	1	74	16.99	16.92	16.96	
15	256QAM	36	0	16.95	16.99	16.88	17.4
15	256QAM	36	20	17.17	17.08	17.10	



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15	256QAM	36	39	16.88	16.87	17.09	Tune-up limit (dBm)
15	256QAM	75	0	17.02	16.84	17.02	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	17.12	17.15	17.10	17.4
10	QPSK	1	25	17.00	17.14	17.10	
10	QPSK	1	49	17.11	17.04	17.05	
10	QPSK	25	0	17.06	17.04	17.05	17.4
10	QPSK	25	12	17.06	17.05	17.06	
10	QPSK	25	25	16.97	17.10	17.00	
10	QPSK	50	0	17.06	17.11	17.11	
10	16QAM	1	0	17.20	17.08	16.98	17.4
10	16QAM	1	25	16.96	16.97	17.12	
10	16QAM	1	49	17.01	17.00	17.05	
10	16QAM	25	0	17.00	17.23	17.19	17.4
10	16QAM	25	12	17.16	17.08	17.22	
10	16QAM	25	25	17.04	17.06	17.04	
10	16QAM	50	0	17.14	17.18	17.03	
10	64QAM	1	0	17.10	17.18	17.02	17.4
10	64QAM	1	25	16.80	17.00	16.95	
10	64QAM	1	49	16.86	16.96	16.98	
10	64QAM	25	0	17.03	17.13	17.19	17.4
10	64QAM	25	12	17.07	17.17	17.07	
10	64QAM	25	25	17.04	17.10	17.14	
10	64QAM	50	0	17.18	17.16	17.23	
10	256QAM	1	0	16.86	16.85	16.80	17.4
10	256QAM	1	25	16.84	16.99	16.81	
10	256QAM	1	49	16.90	16.96	16.82	
10	256QAM	25	0	17.11	17.07	16.92	17.4
10	256QAM	25	12	17.16	16.91	17.02	
10	256QAM	25	25	16.99	16.86	17.16	
10	256QAM	50	0	16.94	16.87	16.91	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	17.15	17.19	17.08	17.4
5	QPSK	1	12	17.08	16.98	17.07	
5	QPSK	1	24	16.93	16.89	16.97	
5	QPSK	12	0	17.11	17.15	17.08	17.4
5	QPSK	12	7	17.07	17.10	17.19	
5	QPSK	12	13	17.11	17.06	17.02	
5	QPSK	25	0	17.09	17.18	17.17	
5	16QAM	1	0	17.09	17.11	16.96	17.4
5	16QAM	1	12	17.01	17.01	17.00	
5	16QAM	1	24	17.05	16.84	16.97	
5	16QAM	12	0	16.96	17.21	17.06	17.4
5	16QAM	12	7	17.11	17.17	17.18	
5	16QAM	12	13	17.00	17.04	17.22	
5	16QAM	25	0	17.10	17.14	17.13	
5	64QAM	1	0	17.15	17.16	16.96	17.4
5	64QAM	1	12	16.97	16.86	16.89	
5	64QAM	1	24	16.89	16.87	17.07	
5	64QAM	12	0	17.03	17.08	17.06	17.4
5	64QAM	12	7	17.19	17.16	17.22	
5	64QAM	12	13	17.16	17.04	17.17	
5	64QAM	25	0	16.98	17.07	17.16	
5	256QAM	1	0	16.98	16.92	16.82	17.4
5	256QAM	1	12	16.78	16.94	16.68	
5	256QAM	1	24	16.92	16.79	16.89	
5	256QAM	12	0	17.12	16.93	16.95	17.4
5	256QAM	12	7	17.13	16.95	17.12	
5	256QAM	12	13	16.91	16.82	17.04	
5	256QAM	25	0	17.03	16.96	17.05	



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Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	17.12	17.05	17.14	17.4
3	QPSK	1	8	17.09	16.98	17.15	
3	QPSK	1	14	16.93	17.00	17.04	
3	QPSK	8	0	17.07	17.07	17.14	17.4
3	QPSK	8	4	17.12	17.13	17.09	
3	QPSK	8	7	17.00	17.10	17.17	
3	QPSK	15	0	17.03	17.12	17.07	
3	16QAM	1	0	17.03	16.99	17.02	17.4
3	16QAM	1	8	17.07	17.14	17.11	
3	16QAM	1	14	17.07	16.90	17.07	
3	16QAM	8	0	17.10	17.18	17.23	17.4
3	16QAM	8	4	17.16	17.17	17.19	
3	16QAM	8	7	17.11	17.03	17.05	
3	16QAM	15	0	17.00	17.11	17.02	
3	64QAM	1	0	17.02	17.13	16.89	17.4
3	64QAM	1	8	16.88	16.84	16.85	
3	64QAM	1	14	17.02	16.89	17.05	
3	64QAM	8	0	17.17	17.11	17.20	17.4
3	64QAM	8	4	17.13	17.19	17.18	
3	64QAM	8	7	17.16	16.98	17.08	
3	64QAM	15	0	17.10	17.12	17.04	
3	256QAM	1	0	16.85	16.93	16.78	17.4
3	256QAM	1	8	16.90	16.92	16.78	
3	256QAM	1	14	16.97	16.83	16.93	
3	256QAM	8	0	17.06	16.98	17.04	17.4
3	256QAM	8	4	17.21	17.03	17.08	
3	256QAM	8	7	16.93	17.01	16.99	
3	256QAM	15	0	16.99	16.90	17.07	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	17.12	17.08	17.10	17.4
1.4	QPSK	1	3	17.08	17.01	17.04	
1.4	QPSK	1	5	16.94	16.95	16.98	
1.4	QPSK	3	0	17.19	17.03	17.18	
1.4	QPSK	3	1	17.03	17.00	17.09	
1.4	QPSK	3	3	17.01	17.12	17.13	
1.4	QPSK	6	0	17.11	17.07	17.11	
1.4	16QAM	1	0	17.16	17.02	17.14	17.4
1.4	16QAM	1	3	17.02	17.10	17.02	
1.4	16QAM	1	5	17.11	16.83	17.03	
1.4	16QAM	3	0	17.04	17.07	17.15	
1.4	16QAM	3	1	17.14	17.10	17.11	
1.4	16QAM	3	3	17.08	17.00	17.16	
1.4	16QAM	6	0	17.03	17.13	17.13	17.4
1.4	64QAM	1	0	17.02	17.02	16.97	17.4
1.4	64QAM	1	3	16.91	16.93	17.04	
1.4	64QAM	1	5	17.01	16.98	16.91	
1.4	64QAM	3	0	17.14	17.02	17.15	
1.4	64QAM	3	1	17.18	17.09	17.23	
1.4	64QAM	3	3	17.08	16.98	17.18	
1.4	64QAM	6	0	17.16	17.16	17.18	17.4
1.4	256QAM	1	0	16.94	16.85	16.86	17.4
1.4	256QAM	1	3	16.92	16.93	16.76	
1.4	256QAM	1	5	16.89	16.86	16.88	
1.4	256QAM	3	0	17.00	17.13	17.04	
1.4	256QAM	3	1	17.16	17.07	17.03	
1.4	256QAM	3	3	16.99	17.00	17.15	
1.4	256QAM	6	0	17.02	16.80	16.92	17.4



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	16.96	16.97	17.01	17.4
20	QPSK	1	49	16.94	16.90	16.91	
20	QPSK	1	99	16.83	16.85	16.88	
20	QPSK	50	0	16.97	16.95	17.00	17.4
20	QPSK	50	24	16.93	16.92	16.98	
20	QPSK	50	50	16.88	16.87	16.91	
20	QPSK	100	0	16.90	16.92	16.95	
20	16QAM	1	0	16.88	16.72	16.69	17.4
20	16QAM	1	49	16.75	16.67	16.61	
20	16QAM	1	99	16.76	16.64	16.69	
20	16QAM	50	0	16.92	16.99	16.99	17.4
20	16QAM	50	24	16.94	16.94	16.95	
20	16QAM	50	50	16.93	16.90	16.92	
20	16QAM	100	0	16.92	16.92	16.95	
20	64QAM	1	0	16.85	16.67	16.62	17.4
20	64QAM	1	49	16.61	16.52	16.62	
20	64QAM	1	99	16.55	16.63	16.61	
20	64QAM	50	0	16.91	16.95	16.90	17.4
20	64QAM	50	24	16.97	16.93	16.95	
20	64QAM	50	50	16.93	16.91	16.94	
20	64QAM	100	0	16.93	16.92	16.95	
20	256QAM	1	0	16.79	16.91	16.78	17.4
20	256QAM	1	49	16.80	16.54	16.83	
20	256QAM	1	99	16.58	16.68	16.77	
20	256QAM	50	0	16.58	16.80	16.69	17.4
20	256QAM	50	24	16.66	16.55	16.74	
20	256QAM	50	50	16.73	16.55	16.59	
20	256QAM	100	0	16.63	16.58	16.71	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	16.76	16.78	16.96	17.4
15	QPSK	1	37	16.94	16.82	16.87	
15	QPSK	1	74	16.75	16.84	16.87	
15	QPSK	36	0	16.90	16.80	16.95	17.4
15	QPSK	36	20	16.77	16.73	16.81	
15	QPSK	36	39	16.82	16.83	16.80	
15	QPSK	75	0	16.87	16.83	16.75	
15	16QAM	1	0	16.75	16.64	16.50	17.4
15	16QAM	1	37	16.55	16.51	16.53	
15	16QAM	1	74	16.67	16.49	16.62	
15	16QAM	36	0	16.79	16.95	16.82	17.4
15	16QAM	36	20	16.92	16.91	16.94	
15	16QAM	36	39	16.80	16.72	16.72	
15	16QAM	75	0	16.74	16.84	16.94	
15	64QAM	1	0	16.71	16.52	16.53	17.4
15	64QAM	1	37	16.48	16.33	16.51	
15	64QAM	1	74	16.38	16.62	16.61	
15	64QAM	36	0	16.88	16.77	16.79	17.4
15	64QAM	36	20	16.90	16.82	16.95	
15	64QAM	36	39	16.87	16.72	16.84	
15	64QAM	75	0	16.80	16.83	16.87	
15	256QAM	1	0	16.59	16.77	16.59	17.4
15	256QAM	1	37	16.70	16.50	16.80	
15	256QAM	1	74	16.52	16.61	16.75	
15	256QAM	36	0	16.39	16.76	16.52	17.4
15	256QAM	36	20	16.53	16.44	16.70	



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15	256QAM	36	39	16.64	16.45	16.59	
15	256QAM	75	0	16.43	16.58	16.71	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	16.92	16.79	16.85	17.4
10	QPSK	1	25	16.93	16.90	16.79	
10	QPSK	1	49	16.64	16.75	16.86	
10	QPSK	25	0	16.94	16.88	16.93	17.4
10	QPSK	25	12	16.82	16.87	16.92	
10	QPSK	25	25	16.70	16.80	16.81	
10	QPSK	50	0	16.76	16.78	16.75	
10	16QAM	1	0	16.87	16.70	16.68	17.4
10	16QAM	1	25	16.71	16.48	16.46	
10	16QAM	1	49	16.70	16.57	16.65	
10	16QAM	25	0	16.78	16.90	16.97	17.4
10	16QAM	25	12	16.77	16.82	16.92	
10	16QAM	25	25	16.73	16.78	16.74	
10	16QAM	50	0	16.72	16.88	16.77	
10	64QAM	1	0	16.77	16.49	16.62	17.4
10	64QAM	1	25	16.47	16.36	16.62	
10	64QAM	1	49	16.37	16.58	16.48	
10	64QAM	25	0	16.85	16.78	16.84	17.4
10	64QAM	25	12	16.85	16.80	16.86	
10	64QAM	25	25	16.86	16.79	16.91	
10	64QAM	50	0	16.82	16.90	16.78	
10	256QAM	1	0	16.65	16.72	16.67	17.4
10	256QAM	1	25	16.75	16.53	16.82	
10	256QAM	1	49	16.45	16.66	16.63	
10	256QAM	25	0	16.54	16.65	16.52	17.4
10	256QAM	25	12	16.57	16.41	16.55	
10	256QAM	25	25	16.69	16.36	16.41	
10	256QAM	50	0	16.60	16.47	16.69	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	16.91	16.87	16.85	17.4
5	QPSK	1	12	16.89	16.71	16.80	
5	QPSK	1	24	16.79	16.68	16.76	
5	QPSK	12	0	16.97	16.86	16.89	17.4
5	QPSK	12	7	16.93	16.91	16.94	
5	QPSK	12	13	16.77	16.79	16.87	
5	QPSK	25	0	16.77	16.88	16.95	
5	16QAM	1	0	16.80	16.68	16.56	17.4
5	16QAM	1	12	16.69	16.49	16.46	
5	16QAM	1	24	16.71	16.59	16.61	
5	16QAM	12	0	16.85	16.99	16.89	17.4
5	16QAM	12	7	16.86	16.83	16.85	
5	16QAM	12	13	16.81	16.70	16.75	
5	16QAM	25	0	16.80	16.90	16.91	
5	64QAM	1	0	16.77	16.53	16.42	17.4
5	64QAM	1	12	16.41	16.37	16.60	
5	64QAM	1	24	16.35	16.48	16.52	
5	64QAM	12	0	16.75	16.86	16.75	17.4
5	64QAM	12	7	16.84	16.89	16.83	
5	64QAM	12	13	16.80	16.74	16.74	
5	64QAM	25	0	16.89	16.80	16.87	
5	256QAM	1	0	16.79	16.87	16.71	17.4
5	256QAM	1	12	16.71	16.49	16.80	
5	256QAM	1	24	16.53	16.66	16.72	
5	256QAM	12	0	16.45	16.74	16.63	17.4
5	256QAM	12	7	16.52	16.55	16.73	
5	256QAM	12	13	16.70	16.50	16.59	
5	256QAM	25	0	16.63	16.57	16.58	



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Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	16.86	16.88	16.88	17.4
3	QPSK	1	8	16.88	16.70	16.72	
3	QPSK	1	14	16.67	16.67	16.84	
3	QPSK	8	0	16.89	16.82	16.99	17.4
3	QPSK	8	4	16.92	16.92	16.81	
3	QPSK	8	7	16.79	16.80	16.74	
3	QPSK	15	0	16.83	16.90	16.90	
3	16QAM	1	0	16.72	16.70	16.69	17.4
3	16QAM	1	8	16.59	16.50	16.61	
3	16QAM	1	14	16.61	16.62	16.60	
3	16QAM	8	0	16.78	16.89	16.98	17.4
3	16QAM	8	4	16.78	16.82	16.81	
3	16QAM	8	7	16.88	16.74	16.87	
3	16QAM	15	0	16.76	16.87	16.92	
3	64QAM	1	0	16.73	16.63	16.43	17.4
3	64QAM	1	8	16.56	16.44	16.42	
3	64QAM	1	14	16.50	16.46	16.55	
3	64QAM	8	0	16.77	16.80	16.70	17.4
3	64QAM	8	4	16.84	16.81	16.87	
3	64QAM	8	7	16.79	16.88	16.76	
3	64QAM	15	0	16.85	16.87	16.83	
3	256QAM	1	0	16.67	16.90	16.72	17.4
3	256QAM	1	8	16.63	16.42	16.64	
3	256QAM	1	14	16.50	16.54	16.65	
3	256QAM	8	0	16.54	16.62	16.67	17.4
3	256QAM	8	4	16.61	16.48	16.74	
3	256QAM	8	7	16.71	16.49	16.43	
3	256QAM	15	0	16.63	16.51	16.60	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	16.79	16.88	16.95	17.4
1.4	QPSK	1	3	16.90	16.75	16.86	
1.4	QPSK	1	5	16.73	16.76	16.68	
1.4	QPSK	3	0	16.97	16.79	16.80	
1.4	QPSK	3	1	16.90	16.77	16.95	
1.4	QPSK	3	3	16.75	16.81	16.83	
1.4	QPSK	6	0	16.89	16.82	16.88	
1.4	16QAM	1	0	16.75	16.56	16.53	17.4
1.4	16QAM	1	3	16.74	16.64	16.52	
1.4	16QAM	1	5	16.72	16.49	16.61	
1.4	16QAM	3	0	16.74	16.84	16.93	
1.4	16QAM	3	1	16.83	16.94	16.91	
1.4	16QAM	3	3	16.85	16.70	16.90	
1.4	16QAM	6	0	16.74	16.86	16.88	17.4
1.4	64QAM	1	0	16.83	16.61	16.58	17.4
1.4	64QAM	1	3	16.58	16.47	16.49	
1.4	64QAM	1	5	16.36	16.62	16.57	
1.4	64QAM	3	0	16.72	16.89	16.74	
1.4	64QAM	3	1	16.88	16.81	16.77	
1.4	64QAM	3	3	16.82	16.73	16.75	
1.4	64QAM	6	0	16.80	16.91	16.95	17.4
1.4	256QAM	1	0	16.62	16.84	16.64	17.4
1.4	256QAM	1	3	16.70	16.48	16.71	
1.4	256QAM	1	5	16.57	16.56	16.65	
1.4	256QAM	3	0	16.42	16.73	16.57	
1.4	256QAM	3	1	16.59	16.44	16.65	
1.4	256QAM	3	3	16.60	16.39	16.54	
1.4	256QAM	6	0	16.50	16.42	16.58	17.4



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	19.46	19.45	19.43	
20	QPSK	1	49	19.44	19.28	19.30	20.1
20	QPSK	1	99	19.21	19.19	19.19	
20	QPSK	50	0	19.41	19.34	19.36	
20	QPSK	50	24	19.36	19.33	19.28	20.1
20	QPSK	50	50	19.22	19.31	19.34	
20	QPSK	100	0	19.35	19.31	19.28	
20	16QAM	1	0	19.41	19.24	19.36	20.1
20	16QAM	1	49	19.27	19.32	19.33	
20	16QAM	1	99	19.34	19.25	19.24	
20	16QAM	50	0	19.33	19.41	19.32	20.1
20	16QAM	50	24	19.23	19.30	19.31	
20	16QAM	50	50	19.25	19.24	19.35	
20	16QAM	100	0	19.16	19.30	19.28	20.1
20	64QAM	1	0	19.20	19.38	19.21	
20	64QAM	1	49	19.18	19.21	19.28	
20	64QAM	1	99	19.19	19.13	19.21	20.1
20	64QAM	50	0	19.35	19.31	19.25	
20	64QAM	50	24	19.30	19.29	19.31	
20	64QAM	50	50	19.16	19.28	19.21	20.1
20	64QAM	100	0	19.33	19.23	19.30	
20	256QAM	1	0	19.14	19.25	19.15	
20	256QAM	1	49	18.89	18.93	19.18	20.1
20	256QAM	1	99	19.17	19.19	18.85	
20	256QAM	50	0	18.96	19.25	18.91	
20	256QAM	50	24	19.12	19.06	18.94	20.1
20	256QAM	50	50	19.02	19.00	19.01	
20	256QAM	100	0	18.91	18.93	18.92	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	19.27	19.27	19.29	
15	QPSK	1	37	19.39	19.10	19.30	20.1
15	QPSK	1	74	19.10	19.15	19.17	
15	QPSK	36	0	19.28	19.30	19.25	
15	QPSK	36	20	19.28	19.25	19.13	20.1
15	QPSK	36	39	19.16	19.29	19.21	
15	QPSK	75	0	19.20	19.20	19.23	
15	16QAM	1	0	19.31	19.12	19.25	20.1
15	16QAM	1	37	19.29	19.15	19.32	
15	16QAM	1	74	19.33	19.26	19.14	
15	16QAM	36	0	19.19	19.36	19.20	20.1
15	16QAM	36	20	19.19	19.21	19.26	
15	16QAM	36	39	19.26	19.25	19.21	
15	16QAM	75	0	19.14	19.26	19.18	20.1
15	64QAM	1	0	19.12	19.38	19.14	
15	64QAM	1	37	19.17	19.11	19.24	
15	64QAM	1	74	19.17	19.29	19.19	20.1
15	64QAM	36	0	19.16	19.19	19.10	
15	64QAM	36	20	19.19	19.29	19.23	
15	64QAM	36	39	19.16	19.21	19.18	20.1
15	64QAM	75	0	19.19	19.16	19.18	
15	256QAM	1	0	19.09	19.16	19.07	
15	256QAM	1	37	18.88	18.82	19.16	20.1
15	256QAM	1	74	19.15	19.05	18.68	
15	256QAM	36	0	18.82	19.09	18.76	
15	256QAM	36	20	19.12	19.04	18.88	20.1



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15	256QAM	36	39	18.87	18.93	18.84	Tune-up limit (dBm)
15	256QAM	75	0	18.86	18.73	18.88	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	19.44	19.36	19.33	20.1
10	QPSK	1	25	19.40	19.19	19.10	
10	QPSK	1	49	19.29	19.18	19.12	
10	QPSK	25	0	19.38	19.29	19.33	20.1
10	QPSK	25	12	19.30	19.28	19.28	
10	QPSK	25	25	19.20	19.11	19.28	
10	QPSK	50	0	19.23	19.21	19.17	
10	16QAM	1	0	19.23	19.12	19.18	20.1
10	16QAM	1	25	19.21	19.16	19.18	
10	16QAM	1	49	19.31	19.12	19.26	
10	16QAM	25	0	19.17	19.39	19.27	20.1
10	16QAM	25	12	19.17	19.25	19.13	
10	16QAM	25	25	19.25	19.13	19.16	
10	16QAM	50	0	19.11	19.15	19.28	
10	64QAM	1	0	19.12	19.29	19.27	20.1
10	64QAM	1	25	19.18	19.15	19.24	
10	64QAM	1	49	19.17	19.29	19.27	
10	64QAM	25	0	19.33	19.18	19.10	20.1
10	64QAM	25	12	19.23	19.24	19.11	
10	64QAM	25	25	19.12	19.15	19.25	
10	64QAM	50	0	19.32	19.14	19.22	
10	256QAM	1	0	19.13	19.21	19.14	20.1
10	256QAM	1	25	18.89	18.74	19.11	
10	256QAM	1	49	19.07	19.01	18.68	
10	256QAM	25	0	18.89	19.10	18.79	20.1
10	256QAM	25	12	19.10	18.95	18.90	
10	256QAM	25	25	18.88	18.84	18.87	
10	256QAM	50	0	18.85	18.92	18.73	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	19.34	19.38	19.33	20.1
5	QPSK	1	12	19.44	19.15	19.27	
5	QPSK	1	24	19.21	19.21	19.17	
5	QPSK	12	0	19.34	19.15	19.33	20.1
5	QPSK	12	7	19.29	19.27	19.21	
5	QPSK	12	13	19.15	19.27	19.18	
5	QPSK	25	0	19.27	19.11	19.15	
5	16QAM	1	0	19.28	19.14	19.35	20.1
5	16QAM	1	12	19.12	19.17	19.15	
5	16QAM	1	24	19.22	19.17	19.27	
5	16QAM	12	0	19.16	19.22	19.19	20.1
5	16QAM	12	7	19.25	19.25	19.12	
5	16QAM	12	13	19.14	19.12	19.27	
5	16QAM	25	0	19.20	19.13	19.21	
5	64QAM	1	0	19.27	19.20	19.28	20.1
5	64QAM	1	12	19.28	19.21	19.29	
5	64QAM	1	24	19.26	19.28	19.15	
5	64QAM	12	0	19.31	19.30	19.27	20.1
5	64QAM	12	7	19.12	19.28	19.29	
5	64QAM	12	13	19.23	19.13	19.22	
5	64QAM	25	0	19.24	19.10	19.17	
5	256QAM	1	0	19.06	19.16	18.98	20.1
5	256QAM	1	12	18.74	18.82	19.17	
5	256QAM	1	24	19.02	19.04	18.81	
5	256QAM	12	0	18.76	19.20	18.85	20.1
5	256QAM	12	7	18.98	19.06	18.89	
5	256QAM	12	13	18.90	18.94	18.99	
5	256QAM	25	0	18.88	18.91	18.80	



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Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	19.31	19.33	19.24	20.1
3	QPSK	1	8	19.36	19.15	19.22	
3	QPSK	1	14	19.26	19.18	19.29	
3	QPSK	8	0	19.36	19.33	19.33	20.1
3	QPSK	8	4	19.25	19.22	19.10	
3	QPSK	8	7	19.29	19.23	19.27	
3	QPSK	15	0	19.25	19.14	19.17	
3	16QAM	1	0	19.31	19.20	19.16	20.1
3	16QAM	1	8	19.18	19.17	19.21	
3	16QAM	1	14	19.14	19.19	19.29	
3	16QAM	8	0	19.30	19.28	19.28	20.1
3	16QAM	8	4	19.25	19.22	19.31	
3	16QAM	8	7	19.16	19.26	19.30	
3	16QAM	15	0	19.13	19.20	19.25	
3	64QAM	1	0	19.21	19.20	19.19	20.1
3	64QAM	1	8	19.25	19.24	19.17	
3	64QAM	1	14	19.20	19.13	19.28	
3	64QAM	8	0	19.32	19.25	19.26	20.1
3	64QAM	8	4	19.22	19.13	19.26	
3	64QAM	8	7	19.25	19.27	19.23	
3	64QAM	15	0	19.26	19.23	19.18	
3	256QAM	1	0	19.10	19.23	19.05	20.1
3	256QAM	1	8	18.88	18.74	19.11	
3	256QAM	1	14	18.98	19.19	18.82	
3	256QAM	8	0	18.93	19.06	18.86	20.1
3	256QAM	8	4	19.02	19.05	18.93	
3	256QAM	8	7	18.85	18.87	18.96	
3	256QAM	15	0	18.87	18.83	18.82	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	19.40	19.40	19.34	20.1
1.4	QPSK	1	3	19.24	19.28	19.15	
1.4	QPSK	1	5	19.22	19.28	19.22	
1.4	QPSK	3	0	19.28	19.22	19.36	
1.4	QPSK	3	1	19.16	19.22	19.29	
1.4	QPSK	3	3	19.21	19.12	19.22	
1.4	QPSK	6	0	19.34	19.15	19.27	20.1
1.4	16QAM	1	0	19.25	19.13	19.19	20.1
1.4	16QAM	1	3	19.21	19.26	19.16	
1.4	16QAM	1	5	19.22	19.17	19.16	
1.4	16QAM	3	0	19.16	19.40	19.23	
1.4	16QAM	3	1	19.19	19.22	19.25	
1.4	16QAM	3	3	19.22	19.12	19.31	20.1
1.4	16QAM	6	0	19.10	19.23	19.22	
1.4	64QAM	1	0	19.17	19.23	19.26	20.1
1.4	64QAM	1	3	19.12	19.16	19.24	
1.4	64QAM	1	5	19.22	19.17	19.17	
1.4	64QAM	3	0	19.35	19.22	19.25	
1.4	64QAM	3	1	19.11	19.16	19.24	
1.4	64QAM	3	3	19.17	19.12	19.21	20.1
1.4	64QAM	6	0	19.24	19.17	19.13	
1.4	256QAM	1	0	19.01	19.15	18.98	20.1
1.4	256QAM	1	3	18.78	18.91	19.14	
1.4	256QAM	1	5	19.13	19.18	18.65	
1.4	256QAM	3	0	18.93	19.09	18.71	
1.4	256QAM	3	1	18.95	18.98	18.83	
1.4	256QAM	3	3	18.89	18.84	18.87	20.1
1.4	256QAM	6	0	18.78	18.92	18.77	



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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)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	21.85	21.81	21.76	
20	QPSK	1	49	21.61	21.63	21.61	22.3
20	QPSK	1	99	21.56	21.57	21.47	
20	QPSK	50	0	21.83	21.66	21.68	
20	QPSK	50	24	21.66	21.70	21.49	22.3
20	QPSK	50	50	21.76	21.78	21.53	
20	QPSK	100	0	21.79	21.72	21.52	
20	16QAM	1	0	21.84	21.76	21.72	22.3
20	16QAM	1	49	21.62	21.59	21.67	
20	16QAM	1	99	21.59	21.59	21.54	
20	16QAM	50	0	21.73	21.59	21.63	22.3
20	16QAM	50	24	21.77	21.77	21.58	
20	16QAM	50	50	21.81	21.64	21.45	
20	16QAM	100	0	21.72	21.64	21.73	22.3
20	64QAM	1	0	21.76	21.60	21.58	
20	64QAM	1	49	21.40	21.53	21.38	
20	64QAM	1	99	21.53	21.33	21.53	22
20	64QAM	50	0	20.90	20.76	20.84	
20	64QAM	50	24	20.89	20.81	20.76	
20	64QAM	50	50	20.77	20.71	20.72	20
20	64QAM	100	0	21.01	20.69	20.66	
20	256QAM	1	0	19.63	19.47	19.48	
20	256QAM	1	49	19.28	19.30	19.17	20
20	256QAM	1	99	19.30	19.20	19.33	
20	256QAM	50	0	19.37	19.23	19.22	
20	256QAM	50	24	19.42	19.34	19.15	20
20	256QAM	50	50	19.28	19.10	19.16	
20	256QAM	100	0	19.26	19.19	19.23	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	21.83	21.48	21.79	
15	QPSK	1	37	21.65	21.64	21.56	22.3
15	QPSK	1	74	21.68	21.38	21.56	
15	QPSK	36	0	21.59	21.62	21.56	22.3
15	QPSK	36	20	21.61	21.44	21.49	
15	QPSK	36	39	21.70	21.64	21.40	
15	QPSK	75	0	21.61	21.72	21.45	22.3
15	16QAM	1	0	21.77	21.63	21.51	
15	16QAM	1	37	21.48	21.51	21.61	
15	16QAM	1	74	21.53	21.56	21.50	22.3
15	16QAM	36	0	21.48	21.75	21.62	
15	16QAM	36	20	21.76	21.57	21.54	
15	16QAM	36	39	21.69	21.58	21.23	22.3
15	16QAM	75	0	21.68	21.57	21.49	
15	64QAM	1	0	21.83	21.39	21.54	
15	64QAM	1	37	21.40	21.49	21.45	22.3
15	64QAM	1	74	21.54	21.47	21.43	
15	64QAM	36	0	20.72	20.83	20.75	
15	64QAM	36	20	20.76	20.79	20.62	22
15	64QAM	36	39	20.61	20.68	20.55	
15	64QAM	75	0	20.81	20.68	20.64	
15	256QAM	1	0	19.52	19.44	19.42	20
15	256QAM	1	37	19.05	19.28	19.27	
15	256QAM	1	74	19.14	19.05	19.10	
15	256QAM	36	0	19.28	19.03	19.04	20
15	256QAM	36	20	19.28	19.06	19.15	



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15	256QAM	36	39	19.11	19.00	18.83	
15	256QAM	75	0	19.09	19.26	19.05	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	21.54	21.73	21.80	22.3
10	QPSK	1	25	21.53	21.56	21.39	
10	QPSK	1	49	21.48	21.41	21.52	
10	QPSK	25	0	21.59	21.55	21.41	22.3
10	QPSK	25	12	21.66	21.51	21.39	
10	QPSK	25	25	21.76	21.61	21.38	
10	QPSK	50	0	21.81	21.48	21.34	
10	16QAM	1	0	21.72	21.71	21.65	22.3
10	16QAM	1	25	21.45	21.55	21.46	
10	16QAM	1	49	21.61	21.46	21.58	
10	16QAM	25	0	21.67	21.46	21.70	22.3
10	16QAM	25	12	21.62	21.73	21.43	
10	16QAM	25	25	21.61	21.58	21.33	
10	16QAM	50	0	21.65	21.67	21.50	
10	64QAM	1	0	21.66	21.52	21.35	22.3
10	64QAM	1	25	21.26	21.28	21.50	
10	64QAM	1	49	21.33	21.40	21.46	
10	64QAM	25	0	20.89	20.77	20.77	22
10	64QAM	25	12	20.78	20.81	20.82	
10	64QAM	25	25	20.72	20.55	20.60	
10	64QAM	50	0	20.72	20.66	20.57	
10	256QAM	1	0	19.48	19.24	19.16	20
10	256QAM	1	25	19.10	19.35	19.17	
10	256QAM	1	49	19.23	19.02	19.21	
10	256QAM	25	0	19.29	18.97	18.89	20
10	256QAM	25	12	19.06	19.17	19.08	
10	256QAM	25	25	19.03	19.01	19.11	
10	256QAM	50	0	19.16	18.96	19.04	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	21.56	21.77	21.54	22.3
5	QPSK	1	12	21.68	21.52	21.37	
5	QPSK	1	24	21.40	21.34	21.38	
5	QPSK	12	0	21.72	21.69	21.59	22.3
5	QPSK	12	7	21.77	21.41	21.54	
5	QPSK	12	13	21.72	21.76	21.44	
5	QPSK	25	0	21.64	21.64	21.45	
5	16QAM	1	0	21.75	21.77	21.50	22.3
5	16QAM	1	12	21.52	21.49	21.59	
5	16QAM	1	24	21.58	21.41	21.38	
5	16QAM	12	0	21.69	21.68	21.44	22.3
5	16QAM	12	7	21.62	21.46	21.59	
5	16QAM	12	13	21.56	21.59	21.27	
5	16QAM	25	0	21.61	21.52	21.47	
5	64QAM	1	0	21.73	21.47	21.45	22.3
5	64QAM	1	12	21.49	21.45	21.37	
5	64QAM	1	24	21.50	21.42	21.42	
5	64QAM	12	0	20.95	20.71	20.67	22
5	64QAM	12	7	20.83	20.55	20.58	
5	64QAM	12	13	20.76	20.67	20.59	
5	64QAM	25	0	20.65	20.67	20.60	
5	256QAM	1	0	19.43	19.40	19.24	20
5	256QAM	1	12	19.26	19.24	19.28	
5	256QAM	1	24	19.20	18.99	19.21	
5	256QAM	12	0	19.23	19.11	19.11	20
5	256QAM	12	7	19.04	19.19	19.17	
5	256QAM	12	13	19.07	19.05	18.94	
5	256QAM	25	0	19.15	19.13	19.05	



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Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	21.57	21.66	21.56	22.3
3	QPSK	1	8	21.53	21.75	21.62	
3	QPSK	1	14	21.73	21.51	21.61	
3	QPSK	8	0	21.71	21.60	21.45	22.3
3	QPSK	8	4	21.68	21.68	21.57	
3	QPSK	8	7	21.74	21.75	21.36	
3	QPSK	15	0	21.79	21.59	21.54	
3	16QAM	1	0	21.73	21.59	21.76	22.3
3	16QAM	1	8	21.54	21.66	21.72	
3	16QAM	1	14	21.42	21.45	21.49	
3	16QAM	8	0	21.62	21.45	21.54	22.3
3	16QAM	8	4	21.57	21.63	21.53	
3	16QAM	8	7	21.58	21.54	21.40	
3	16QAM	15	0	21.67	21.57	21.66	
3	64QAM	1	0	21.77	21.52	21.44	22.3
3	64QAM	1	8	21.42	21.40	21.36	
3	64QAM	1	14	21.43	21.20	21.42	
3	64QAM	8	0	20.69	20.76	20.78	22
3	64QAM	8	4	20.85	20.61	20.50	
3	64QAM	8	7	20.71	20.64	20.66	
3	64QAM	15	0	20.76	20.76	20.69	
3	256QAM	1	0	19.55	19.14	19.21	20
3	256QAM	1	8	19.15	19.36	19.24	
3	256QAM	1	14	19.14	19.08	19.26	
3	256QAM	8	0	19.22	19.01	19.17	20
3	256QAM	8	4	19.38	19.20	19.04	
3	256QAM	8	7	19.13	19.01	18.93	
3	256QAM	15	0	19.32	18.91	19.06	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	21.68	21.69	21.49	22.3
1.4	QPSK	1	3	21.57	21.60	21.43	
1.4	QPSK	1	5	21.49	21.57	21.39	
1.4	QPSK	3	0	21.68	21.71	21.75	
1.4	QPSK	3	1	21.64	21.55	21.36	
1.4	QPSK	3	3	21.63	21.38	21.25	
1.4	QPSK	6	0	21.59	21.51	21.40	
1.4	16QAM	1	0	21.46	21.54	21.55	22.3
1.4	16QAM	1	3	21.58	21.62	21.55	
1.4	16QAM	1	5	21.70	21.62	21.53	
1.4	16QAM	3	0	21.76	21.77	21.75	
1.4	16QAM	3	1	21.74	21.77	21.81	
1.4	16QAM	3	3	21.80	21.63	21.68	
1.4	16QAM	6	0	21.23	21.21	21.04	22.3
1.4	64QAM	1	0	21.44	21.25	21.20	22.3
1.4	64QAM	1	3	21.44	21.27	21.09	
1.4	64QAM	1	5	21.31	21.41	21.11	
1.4	64QAM	3	0	21.75	21.36	21.54	
1.4	64QAM	3	1	21.47	21.31	21.45	
1.4	64QAM	3	3	21.46	21.38	21.42	
1.4	64QAM	6	0	20.91	20.79	20.73	
1.4	256QAM	1	0	19.38	19.27	19.21	20
1.4	256QAM	1	3	19.27	19.34	19.00	
1.4	256QAM	1	5	19.16	19.10	19.16	
1.4	256QAM	3	0	19.38	19.03	19.07	
1.4	256QAM	3	1	19.32	18.98	19.10	
1.4	256QAM	3	3	19.03	18.92	19.01	
1.4	256QAM	6	0	19.27	19.16	19.08	20



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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)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	24.67	24.73	24.69	
20	QPSK	1	49	24.58	24.61	24.55	25.6
20	QPSK	1	99	24.52	24.52	24.47	
20	QPSK	50	0	23.69	23.72	23.71	
20	QPSK	50	24	23.64	23.67	23.65	24.6
20	QPSK	50	50	23.57	23.62	23.59	
20	QPSK	100	0	23.60	23.68	23.63	
20	16QAM	1	0	23.94	24.00	24.06	24.6
20	16QAM	1	49	23.92	23.90	23.84	
20	16QAM	1	99	23.83	23.90	23.87	
20	16QAM	50	0	22.69	22.71	22.71	23.6
20	16QAM	50	24	22.61	22.66	22.66	
20	16QAM	50	50	22.60	22.62	22.60	
20	16QAM	100	0	22.65	22.67	22.64	23.6
20	64QAM	1	0	22.92	22.92	22.91	
20	64QAM	1	49	22.85	22.85	22.78	
20	64QAM	1	99	22.85	22.79	22.78	22.6
20	64QAM	50	0	21.69	21.69	21.68	
20	64QAM	50	24	21.66	21.66	21.67	
20	64QAM	50	50	21.56	21.63	21.60	20.6
20	64QAM	100	0	21.65	21.69	21.66	
20	256QAM	1	0	20.23	20.23	20.22	
20	256QAM	1	49	20.17	20.17	20.08	20.6
20	256QAM	1	99	20.12	20.11	20.07	
20	256QAM	50	0	20.02	20.01	19.99	
20	256QAM	50	24	19.96	19.99	20.00	20.6
20	256QAM	50	50	19.82	19.97	19.95	
20	256QAM	100	0	19.92	19.99	19.93	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	24.63	24.66	24.63	
15	QPSK	1	37	24.55	24.54	24.51	25.6
15	QPSK	1	74	24.51	24.50	24.42	
15	QPSK	36	0	23.69	23.72	23.69	24.6
15	QPSK	36	20	23.57	23.62	23.65	
15	QPSK	36	39	23.57	23.52	23.59	
15	QPSK	75	0	23.59	23.68	23.54	24.6
15	16QAM	1	0	23.84	23.90	23.97	
15	16QAM	1	37	23.90	23.82	23.80	
15	16QAM	1	74	23.81	23.87	23.80	23.6
15	16QAM	36	0	22.60	22.63	22.70	
15	16QAM	36	20	22.53	22.62	22.62	
15	16QAM	36	39	22.54	22.62	22.52	23.6
15	16QAM	75	0	22.56	22.66	22.56	
15	64QAM	1	0	22.91	22.88	22.86	
15	64QAM	1	37	22.78	22.80	22.78	22.6
15	64QAM	1	74	22.82	22.73	22.68	
15	64QAM	36	0	21.64	21.63	21.64	
15	64QAM	36	20	21.60	21.65	21.62	20.6
15	64QAM	36	39	21.55	21.63	21.56	
15	64QAM	75	0	21.59	21.69	21.61	
15	256QAM	1	0	20.19	20.16	20.17	20.6
15	256QAM	1	37	20.10	20.08	20.08	
15	256QAM	1	74	20.06	20.05	20.05	
15	256QAM	36	0	19.95	19.94	19.94	20.6
15	256QAM	36	20	19.89	19.98	19.94	



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15	256QAM	36	39	19.73	19.88	19.90	Tune-up limit (dBm)
15	256QAM	75	0	19.83	19.96	19.93	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	24.64	24.70	24.65	25.6
10	QPSK	1	25	24.49	24.54	24.49	
10	QPSK	1	49	24.49	24.42	24.45	
10	QPSK	25	0	23.68	23.69	23.61	24.6
10	QPSK	25	12	23.55	23.60	23.61	
10	QPSK	25	25	23.50	23.61	23.52	
10	QPSK	50	0	23.51	23.68	23.62	
10	16QAM	1	0	23.90	23.90	23.98	24.6
10	16QAM	1	25	23.85	23.82	23.79	
10	16QAM	1	49	23.77	23.82	23.83	
10	16QAM	25	0	22.63	22.66	22.68	23.6
10	16QAM	25	12	22.58	22.58	22.64	
10	16QAM	25	25	22.53	22.52	22.57	
10	16QAM	50	0	22.64	22.64	22.63	
10	64QAM	1	0	22.89	22.89	22.83	23.6
10	64QAM	1	25	22.84	22.79	22.70	
10	64QAM	1	49	22.80	22.73	22.78	
10	64QAM	25	0	21.62	21.62	21.65	22.6
10	64QAM	25	12	21.58	21.62	21.66	
10	64QAM	25	25	21.51	21.62	21.53	
10	64QAM	50	0	21.62	21.64	21.63	
10	256QAM	1	0	20.23	20.22	20.12	20.6
10	256QAM	1	25	20.15	20.09	20.00	
10	256QAM	1	49	20.07	20.06	19.99	
10	256QAM	25	0	19.96	20.00	19.94	20.6
10	256QAM	25	12	19.94	19.99	19.93	
10	256QAM	25	25	19.81	19.93	19.89	
10	256QAM	50	0	19.82	19.89	19.88	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	24.58	24.65	24.65	25.6
5	QPSK	1	12	24.52	24.52	24.52	
5	QPSK	1	24	24.47	24.45	24.42	
5	QPSK	12	0	23.69	23.66	23.69	24.6
5	QPSK	12	7	23.56	23.61	23.65	
5	QPSK	12	13	23.47	23.62	23.49	
5	QPSK	25	0	23.57	23.61	23.56	
5	16QAM	1	0	23.85	23.92	24.01	24.6
5	16QAM	1	12	23.83	23.82	23.81	
5	16QAM	1	24	23.83	23.83	23.81	
5	16QAM	12	0	22.65	22.65	22.66	23.6
5	16QAM	12	7	22.59	22.59	22.56	
5	16QAM	12	13	22.53	22.55	22.60	
5	16QAM	25	0	22.65	22.66	22.55	
5	64QAM	1	0	22.83	22.85	22.82	23.6
5	64QAM	1	12	22.75	22.81	22.71	
5	64QAM	1	24	22.81	22.73	22.69	
5	64QAM	12	0	21.67	21.61	21.66	22.6
5	64QAM	12	7	21.59	21.65	21.64	
5	64QAM	12	13	21.50	21.60	21.53	
5	64QAM	25	0	21.61	21.60	21.64	
5	256QAM	1	0	20.19	20.17	20.20	20.6
5	256QAM	1	12	20.08	20.07	20.05	
5	256QAM	1	24	20.07	20.02	20.00	
5	256QAM	12	0	19.93	19.96	19.93	20.6
5	256QAM	12	7	19.88	19.90	19.98	
5	256QAM	12	13	19.80	19.94	19.85	
5	256QAM	25	0	19.85	19.98	19.90	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	24.56	24.64	24.67	25.6
3	QPSK	1	8	24.53	24.52	24.54	
3	QPSK	1	14	24.43	24.47	24.37	
3	QPSK	8	0	23.59	23.67	23.64	24.6
3	QPSK	8	4	23.57	23.59	23.62	
3	QPSK	8	7	23.49	23.61	23.49	
3	QPSK	15	0	23.55	23.65	23.61	24.6
3	16QAM	1	0	23.84	23.96	24.04	
3	16QAM	1	8	23.87	23.89	23.81	
3	16QAM	1	14	23.78	23.82	23.81	23.6
3	16QAM	8	0	22.68	22.64	22.67	
3	16QAM	8	4	22.53	22.62	22.56	
3	16QAM	8	7	22.56	22.58	22.59	23.6
3	16QAM	15	0	22.58	22.63	22.57	
3	64QAM	1	0	22.92	22.83	22.84	
3	64QAM	1	8	22.79	22.76	22.77	23.6
3	64QAM	1	14	22.80	22.70	22.70	
3	64QAM	8	0	21.65	21.69	21.64	
3	64QAM	8	4	21.66	21.63	21.60	22.6
3	64QAM	8	7	21.48	21.63	21.51	
3	64QAM	15	0	21.57	21.63	21.60	
3	256QAM	1	0	20.20	20.18	20.14	20.6
3	256QAM	1	8	20.17	20.13	20.04	
3	256QAM	1	14	20.05	20.11	20.05	
3	256QAM	8	0	20.01	19.97	19.97	20.6
3	256QAM	8	4	19.91	19.99	19.93	
3	256QAM	8	7	19.79	19.89	19.88	
3	256QAM	15	0	19.86	19.92	19.84	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	24.55	24.68	24.66	25.6
1.4	QPSK	1	3	24.48	24.52	24.48	
1.4	QPSK	1	5	24.45	24.46	24.38	
1.4	QPSK	3	0	24.43	24.63	24.56	24.6
1.4	QPSK	3	1	24.38	24.58	24.57	
1.4	QPSK	3	3	24.45	24.51	24.49	
1.4	QPSK	6	0	23.51	23.64	23.63	24.6
1.4	16QAM	1	0	23.88	23.91	24.01	
1.4	16QAM	1	3	23.90	23.85	23.79	
1.4	16QAM	1	5	23.79	23.87	23.87	24.6
1.4	16QAM	3	0	23.85	23.95	23.98	
1.4	16QAM	3	1	23.82	23.81	23.78	
1.4	16QAM	3	3	23.75	23.86	23.80	23.6
1.4	16QAM	6	0	22.64	22.61	22.60	
1.4	64QAM	1	0	22.82	22.83	22.83	
1.4	64QAM	1	3	22.81	22.75	22.70	23.6
1.4	64QAM	1	5	22.80	22.69	22.77	
1.4	64QAM	3	0	22.85	22.84	22.84	
1.4	64QAM	3	1	22.83	22.77	22.78	22.6
1.4	64QAM	3	3	22.80	22.75	22.69	
1.4	64QAM	6	0	21.61	21.61	21.61	
1.4	256QAM	1	0	20.13	20.13	20.20	20.6
1.4	256QAM	1	3	20.11	20.12	20.03	
1.4	256QAM	1	5	20.03	20.08	20.06	
1.4	256QAM	3	0	20.20	20.17	20.18	20.6
1.4	256QAM	3	1	20.17	20.07	20.05	
1.4	256QAM	3	3	20.08	20.05	20.07	
1.4	256QAM	6	0	19.90	19.95	19.89	20.6



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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)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	17.43	17.55	17.50	
20	QPSK	1	49	17.32	17.51	17.49	17.7
20	QPSK	1	99	17.30	17.50	17.32	
20	QPSK	50	0	17.32	17.45	17.37	
20	QPSK	50	24	17.27	17.37	17.35	17.7
20	QPSK	50	50	17.30	17.44	17.31	
20	QPSK	100	0	17.33	17.44	17.43	
20	16QAM	1	0	17.39	17.37	17.46	17.7
20	16QAM	1	49	17.43	17.45	17.39	
20	16QAM	1	99	17.43	17.53	17.44	
20	16QAM	50	0	17.24	17.51	17.36	17.7
20	16QAM	50	24	17.24	17.51	17.42	
20	16QAM	50	50	17.35	17.48	17.50	
20	16QAM	100	0	17.35	17.52	17.36	17.7
20	64QAM	1	0	17.30	17.52	17.47	
20	64QAM	1	49	17.23	17.48	17.48	
20	64QAM	1	99	17.40	17.48	17.36	17.7
20	64QAM	50	0	17.38	17.40	17.39	
20	64QAM	50	24	17.32	17.36	17.47	
20	64QAM	50	50	17.37	17.53	17.38	17.7
20	64QAM	100	0	17.32	17.54	17.49	
20	256QAM	1	0	17.29	17.45	17.49	
20	256QAM	1	49	17.31	17.46	17.35	17.7
20	256QAM	1	99	17.39	17.49	17.35	
20	256QAM	50	0	17.30	17.36	17.46	
20	256QAM	50	24	17.23	17.47	17.33	17.7
20	256QAM	50	50	17.33	17.51	17.32	
20	256QAM	100	0	17.35	17.37	17.38	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	17.29	17.43	17.38	
15	QPSK	1	37	17.21	17.36	17.39	17.7
15	QPSK	1	74	17.25	17.32	17.20	
15	QPSK	36	0	17.25	17.27	17.22	
15	QPSK	36	20	17.20	17.30	17.15	17.7
15	QPSK	36	39	17.20	17.25	17.28	
15	QPSK	75	0	17.21	17.36	17.35	
15	16QAM	1	0	17.22	17.25	17.40	17.7
15	16QAM	1	37	17.24	17.29	17.24	
15	16QAM	1	74	17.33	17.36	17.32	
15	16QAM	36	0	17.14	17.49	17.20	17.7
15	16QAM	36	20	17.23	17.34	17.24	
15	16QAM	36	39	17.26	17.46	17.35	
15	16QAM	75	0	17.26	17.37	17.24	17.7
15	64QAM	1	0	17.22	17.34	17.47	
15	64QAM	1	37	17.07	17.35	17.36	
15	64QAM	1	74	17.26	17.37	17.30	17.7
15	64QAM	36	0	17.28	17.32	17.38	
15	64QAM	36	20	17.17	17.35	17.37	
15	64QAM	36	39	17.35	17.52	17.21	17.7
15	64QAM	75	0	17.28	17.36	17.35	
15	256QAM	1	0	17.13	17.44	17.35	
15	256QAM	1	37	17.18	17.39	17.34	17.7
15	256QAM	1	74	17.29	17.49	17.31	
15	256QAM	36	0	17.19	17.34	17.28	
15	256QAM	36	20	17.13	17.47	17.22	17.7



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15	256QAM	36	39	17.16	17.48	17.23	
15	256QAM	75	0	17.15	17.29	17.34	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	17.39	17.45	17.35	17.7
10	QPSK	1	25	17.23	17.45	17.49	
10	QPSK	1	49	17.29	17.37	17.13	
10	QPSK	25	0	17.16	17.40	17.20	17.7
10	QPSK	25	12	17.08	17.36	17.26	
10	QPSK	25	25	17.29	17.32	17.11	
10	QPSK	50	0	17.30	17.27	17.36	
10	16QAM	1	0	17.19	17.19	17.46	17.7
10	16QAM	1	25	17.36	17.27	17.31	
10	16QAM	1	49	17.35	17.52	17.34	
10	16QAM	25	0	17.08	17.44	17.16	
10	16QAM	25	12	17.10	17.37	17.34	17.7
10	16QAM	25	25	17.21	17.43	17.39	
10	16QAM	50	0	17.22	17.33	17.26	
10	64QAM	1	0	17.22	17.34	17.31	17.7
10	64QAM	1	25	17.23	17.46	17.41	
10	64QAM	1	49	17.30	17.47	17.35	
10	64QAM	25	0	17.19	17.38	17.24	17.7
10	64QAM	25	12	17.32	17.20	17.28	
10	64QAM	25	25	17.18	17.45	17.23	
10	64QAM	50	0	17.23	17.48	17.38	
10	256QAM	1	0	17.29	17.38	17.37	17.7
10	256QAM	1	25	17.26	17.39	17.21	
10	256QAM	1	49	17.25	17.43	17.29	
10	256QAM	25	0	17.18	17.36	17.34	
10	256QAM	25	12	17.12	17.41	17.30	17.7
10	256QAM	25	25	17.33	17.45	17.16	
10	256QAM	50	0	17.22	17.21	17.28	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	17.30	17.38	17.31	17.7
5	QPSK	1	12	17.28	17.49	17.46	
5	QPSK	1	24	17.17	17.47	17.32	
5	QPSK	12	0	17.12	17.38	17.34	17.7
5	QPSK	12	7	17.09	17.23	17.35	
5	QPSK	12	13	17.25	17.34	17.17	
5	QPSK	25	0	17.33	17.43	17.28	
5	16QAM	1	0	17.19	17.26	17.35	17.7
5	16QAM	1	12	17.27	17.35	17.33	
5	16QAM	1	24	17.33	17.33	17.42	
5	16QAM	12	0	17.22	17.35	17.29	17.7
5	16QAM	12	7	17.18	17.43	17.35	
5	16QAM	12	13	17.21	17.44	17.42	
5	16QAM	25	0	17.31	17.42	17.21	
5	64QAM	1	0	17.25	17.43	17.29	17.7
5	64QAM	1	12	17.23	17.42	17.29	
5	64QAM	1	24	17.25	17.41	17.31	
5	64QAM	12	0	17.30	17.39	17.28	17.7
5	64QAM	12	7	17.12	17.32	17.28	
5	64QAM	12	13	17.37	17.45	17.32	
5	64QAM	25	0	17.32	17.46	17.35	
5	256QAM	1	0	17.12	17.29	17.41	17.7
5	256QAM	1	12	17.31	17.28	17.29	
5	256QAM	1	24	17.23	17.37	17.23	
5	256QAM	12	0	17.22	17.20	17.40	17.7
5	256QAM	12	7	17.20	17.40	17.15	
5	256QAM	12	13	17.15	17.45	17.24	
5	256QAM	25	0	17.19	17.17	17.33	



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Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	17.37	17.54	17.38	17.7
3	QPSK	1	8	17.23	17.38	17.32	
3	QPSK	1	14	17.15	17.43	17.13	
3	QPSK	8	0	17.17	17.26	17.33	17.7
3	QPSK	8	4	17.18	17.19	17.34	
3	QPSK	8	7	17.28	17.31	17.31	
3	QPSK	15	0	17.18	17.43	17.31	17.7
3	16QAM	1	0	17.28	17.17	17.31	
3	16QAM	1	8	17.34	17.27	17.39	
3	16QAM	1	14	17.29	17.37	17.37	17.7
3	16QAM	8	0	17.18	17.44	17.35	
3	16QAM	8	4	17.20	17.37	17.42	
3	16QAM	8	7	17.26	17.30	17.44	17.7
3	16QAM	15	0	17.29	17.50	17.17	
3	64QAM	1	0	17.19	17.38	17.45	
3	64QAM	1	8	17.12	17.47	17.29	17.7
3	64QAM	1	14	17.29	17.40	17.26	
3	64QAM	8	0	17.26	17.35	17.22	
3	64QAM	8	4	17.25	17.19	17.43	17.7
3	64QAM	8	7	17.34	17.39	17.32	
3	64QAM	15	0	17.30	17.40	17.33	
3	256QAM	1	0	17.28	17.27	17.37	17.7
3	256QAM	1	8	17.24	17.42	17.15	
3	256QAM	1	14	17.20	17.47	17.17	
3	256QAM	8	0	17.19	17.23	17.26	17.7
3	256QAM	8	4	17.22	17.43	17.21	
3	256QAM	8	7	17.30	17.43	17.20	
3	256QAM	15	0	17.28	17.32	17.38	17.7
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	Tune-up limit (dBm)
1.4	QPSK	1	0	17.42	17.42	17.39	
1.4	QPSK	1	3	17.13	17.49	17.46	17.7
1.4	QPSK	1	5	17.13	17.47	17.32	
1.4	QPSK	3	0	17.12	17.40	17.19	
1.4	QPSK	3	1	17.21	17.37	17.27	17.7
1.4	QPSK	3	3	17.18	17.35	17.20	
1.4	QPSK	6	0	17.14	17.42	17.29	
1.4	16QAM	1	0	17.35	17.17	17.46	17.7
1.4	16QAM	1	3	17.23	17.30	17.27	
1.4	16QAM	1	5	17.25	17.38	17.32	
1.4	16QAM	3	0	17.11	17.34	17.26	17.7
1.4	16QAM	3	1	17.10	17.47	17.42	
1.4	16QAM	3	3	17.16	17.46	17.38	
1.4	16QAM	6	0	17.21	17.46	17.23	17.7
1.4	64QAM	1	0	17.21	17.34	17.30	
1.4	64QAM	1	3	17.08	17.47	17.43	
1.4	64QAM	1	5	17.21	17.46	17.19	17.7
1.4	64QAM	3	0	17.30	17.20	17.22	
1.4	64QAM	3	1	17.25	17.27	17.45	
1.4	64QAM	3	3	17.17	17.38	17.22	17.7
1.4	64QAM	6	0	17.20	17.35	17.43	
1.4	256QAM	1	0	17.12	17.35	17.47	
1.4	256QAM	1	3	17.21	17.26	17.26	17.7
1.4	256QAM	1	5	17.35	17.47	17.18	
1.4	256QAM	3	0	17.22	17.22	17.31	
1.4	256QAM	3	1	17.06	17.46	17.26	17.7
1.4	256QAM	3	3	17.21	17.42	17.16	
1.4	256QAM	6	0	17.26	17.24	17.18	



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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)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	24.59	24.34	24.32	
20	QPSK	1	49	24.26	24.21	24.16	25.6
20	QPSK	1	99	24.22	24.10	24.12	
20	QPSK	50	0	23.36	23.32	23.28	
20	QPSK	50	24	23.34	23.27	23.23	24.6
20	QPSK	50	50	23.23	23.21	23.18	
20	QPSK	100	0	23.28	23.31	23.23	
20	16QAM	1	0	23.62	23.61	23.53	24.6
20	16QAM	1	49	23.39	23.33	23.52	
20	16QAM	1	99	23.33	23.40	23.52	
20	16QAM	50	0	22.28	22.26	22.28	23.6
20	16QAM	50	24	22.24	22.23	22.24	
20	16QAM	50	50	22.17	22.21	22.21	
20	16QAM	100	0	22.24	22.27	22.24	23.6
20	64QAM	1	0	22.62	22.50	22.56	
20	64QAM	1	49	22.29	22.39	22.31	
20	64QAM	1	99	22.23	22.50	22.32	22.6
20	64QAM	50	0	21.19	21.29	21.22	
20	64QAM	50	24	21.14	21.22	21.23	
20	64QAM	50	50	21.21	21.15	21.23	20.6
20	64QAM	100	0	21.20	21.11	21.27	
20	256QAM	1	0	20.01	19.93	20.01	
20	256QAM	1	49	19.65	19.76	19.73	20.6
20	256QAM	1	99	19.68	19.85	19.67	
20	256QAM	50	0	19.60	19.66	19.59	
20	256QAM	50	24	19.53	19.63	19.67	20.6
20	256QAM	50	50	19.62	19.50	19.64	
20	256QAM	100	0	19.62	19.55	19.62	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	24.42	24.22	24.17	
15	QPSK	1	37	24.19	24.11	24.16	25.6
15	QPSK	1	74	24.10	23.92	24.07	
15	QPSK	36	0	23.34	23.12	23.09	
15	QPSK	36	20	23.26	23.10	23.21	24.6
15	QPSK	36	39	23.11	23.06	22.99	
15	QPSK	75	0	23.26	23.12	23.08	
15	16QAM	1	0	23.56	23.49	23.41	24.6
15	16QAM	1	37	23.32	23.33	23.32	
15	16QAM	1	74	23.30	23.30	23.51	
15	16QAM	36	0	22.25	22.24	22.23	23.6
15	16QAM	36	20	22.05	22.23	22.15	
15	16QAM	36	39	22.00	22.01	22.06	
15	16QAM	75	0	22.09	22.12	22.04	23.6
15	64QAM	1	0	22.60	22.42	22.37	
15	64QAM	1	37	22.28	22.35	22.14	
15	64QAM	1	74	22.06	22.33	22.22	22.6
15	64QAM	36	0	20.99	21.15	21.05	
15	64QAM	36	20	21.10	21.22	21.15	
15	64QAM	36	39	21.12	21.04	21.05	20.6
15	64QAM	75	0	21.02	21.02	21.27	
15	256QAM	1	0	19.86	19.82	20.00	
15	256QAM	1	37	19.49	19.58	19.66	20.6
15	256QAM	1	74	19.54	19.68	19.60	
15	256QAM	36	0	19.44	19.65	19.46	
15	256QAM	36	20	19.49	19.61	19.58	20.6



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15	256QAM	36	39	19.50	19.50	19.59	
15	256QAM	75	0	19.51	19.54	19.48	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	24.47	24.19	24.12	25.6
10	QPSK	1	25	24.10	24.21	23.98	
10	QPSK	1	49	24.15	23.97	24.08	
10	QPSK	25	0	23.35	23.30	23.27	24.6
10	QPSK	25	12	23.14	23.18	23.19	
10	QPSK	25	25	23.11	23.02	23.17	
10	QPSK	50	0	23.23	23.23	23.16	
10	16QAM	1	0	23.60	23.53	23.37	24.6
10	16QAM	1	25	23.26	23.22	23.50	
10	16QAM	1	49	23.27	23.20	23.46	
10	16QAM	25	0	22.16	22.25	22.23	23.6
10	16QAM	25	12	22.08	22.23	22.22	
10	16QAM	25	25	22.02	22.14	22.20	
10	16QAM	50	0	22.05	22.23	22.06	
10	64QAM	1	0	22.51	22.49	22.41	23.6
10	64QAM	1	25	22.13	22.30	22.18	
10	64QAM	1	49	22.12	22.37	22.16	
10	64QAM	25	0	20.99	21.20	21.12	22.6
10	64QAM	25	12	20.96	21.06	21.06	
10	64QAM	25	25	21.11	20.99	21.14	
10	64QAM	50	0	21.08	20.95	21.15	
10	256QAM	1	0	19.86	19.81	19.95	20.6
10	256QAM	1	25	19.60	19.75	19.62	
10	256QAM	1	49	19.66	19.79	19.54	
10	256QAM	25	0	19.50	19.58	19.47	20.6
10	256QAM	25	12	19.40	19.60	19.48	
10	256QAM	25	25	19.62	19.46	19.53	
10	256QAM	50	0	19.53	19.55	19.55	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	24.54	24.33	24.16	25.6
5	QPSK	1	12	24.10	24.05	24.01	
5	QPSK	1	24	24.12	23.95	24.02	
5	QPSK	12	0	23.21	23.12	23.22	24.6
5	QPSK	12	7	23.17	23.20	23.12	
5	QPSK	12	13	23.20	23.02	23.16	
5	QPSK	25	0	23.20	23.13	23.03	
5	16QAM	1	0	23.52	23.57	23.38	24.6
5	16QAM	1	12	23.34	23.33	23.32	
5	16QAM	1	24	23.14	23.33	23.48	
5	16QAM	12	0	22.19	22.22	22.24	23.6
5	16QAM	12	7	22.22	22.09	22.20	
5	16QAM	12	13	21.98	22.14	22.01	
5	16QAM	25	0	22.12	22.12	22.18	
5	64QAM	1	0	22.48	22.37	22.54	23.6
5	64QAM	1	12	22.17	22.36	22.18	
5	64QAM	1	24	22.13	22.35	22.28	
5	64QAM	12	0	21.02	21.15	21.04	22.6
5	64QAM	12	7	21.11	21.20	21.22	
5	64QAM	12	13	21.09	21.01	21.11	
5	64QAM	25	0	21.19	21.03	21.09	
5	256QAM	1	0	19.85	19.77	19.92	20.6
5	256QAM	1	12	19.54	19.70	19.53	
5	256QAM	1	24	19.48	19.69	19.51	
5	256QAM	12	0	19.50	19.48	19.56	20.6
5	256QAM	12	7	19.35	19.54	19.52	
5	256QAM	12	13	19.42	19.44	19.60	
5	256QAM	25	0	19.49	19.53	19.55	



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Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	24.52	24.21	24.15	25.6
3	QPSK	1	8	24.19	24.20	24.03	
3	QPSK	1	14	24.05	23.97	23.97	
3	QPSK	8	0	23.18	23.21	23.11	24.6
3	QPSK	8	4	23.26	23.27	23.14	
3	QPSK	8	7	23.03	23.11	23.05	
3	QPSK	15	0	23.16	23.17	23.21	
3	16QAM	1	0	23.53	23.60	23.43	24.6
3	16QAM	1	8	23.37	23.18	23.38	
3	16QAM	1	14	23.21	23.28	23.43	
3	16QAM	8	0	22.09	22.16	22.21	23.6
3	16QAM	8	4	22.06	22.11	22.10	
3	16QAM	8	7	22.09	22.02	22.11	
3	16QAM	15	0	22.23	22.27	22.16	
3	64QAM	1	0	22.60	22.35	22.41	23.6
3	64QAM	1	8	22.17	22.28	22.11	
3	64QAM	1	14	22.22	22.39	22.19	
3	64QAM	8	0	21.00	21.28	21.19	22.6
3	64QAM	8	4	21.14	21.02	21.23	
3	64QAM	8	7	21.11	21.01	21.06	
3	64QAM	15	0	21.03	21.07	21.26	
3	256QAM	1	0	19.82	19.93	19.98	20.6
3	256QAM	1	8	19.47	19.58	19.70	
3	256QAM	1	14	19.55	19.82	19.64	
3	256QAM	8	0	19.54	19.66	19.44	20.6
3	256QAM	8	4	19.46	19.56	19.67	
3	256QAM	8	7	19.57	19.41	19.53	
3	256QAM	15	0	19.48	19.42	19.55	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	24.57	24.17	24.14	25.6
1.4	QPSK	1	3	24.19	24.21	24.08	
1.4	QPSK	1	5	24.17	24.04	24.02	
1.4	QPSK	3	0	24.57	24.17	24.25	
1.4	QPSK	3	1	24.11	24.01	23.98	
1.4	QPSK	3	3	24.17	24.10	24.06	
1.4	QPSK	6	0	23.25	23.29	23.10	24.6
1.4	16QAM	1	0	23.25	23.11	23.05	24.6
1.4	16QAM	1	3	23.15	23.19	23.13	
1.4	16QAM	1	5	23.13	23.26	23.04	
1.4	16QAM	3	0	23.58	23.53	23.41	
1.4	16QAM	3	1	23.26	23.14	23.48	
1.4	16QAM	3	3	23.18	23.36	23.35	
1.4	16QAM	6	0	22.13	22.07	22.28	23.6
1.4	64QAM	1	0	22.05	22.14	22.04	23.6
1.4	64QAM	1	3	22.04	22.01	22.07	
1.4	64QAM	1	5	22.18	22.08	22.12	
1.4	64QAM	3	0	22.55	22.50	22.39	
1.4	64QAM	3	1	22.11	22.34	22.23	
1.4	64QAM	3	3	22.06	22.41	22.25	
1.4	64QAM	6	0	21.06	21.29	21.09	22.6
1.4	256QAM	1	0	19.85	19.78	19.87	20.6
1.4	256QAM	1	3	19.62	19.72	19.65	
1.4	256QAM	1	5	19.54	19.73	19.49	
1.4	256QAM	3	0	19.48	19.64	19.41	
1.4	256QAM	3	1	19.48	19.54	19.48	
1.4	256QAM	3	3	19.60	19.32	19.51	
1.4	256QAM	6	0	19.61	19.50	19.53	20.6



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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)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	24.15	24.20	24.15	
20	QPSK	1	49	23.95	24.00	23.99	25.6
20	QPSK	1	99	23.89	23.95	23.84	
20	QPSK	50	0	23.07	23.09	23.04	
20	QPSK	50	24	23.03	23.02	22.99	24.6
20	QPSK	50	50	22.95	22.98	22.90	
20	QPSK	100	0	23.05	23.07	22.98	
20	16QAM	1	0	23.39	23.47	23.40	24.6
20	16QAM	1	49	23.18	23.24	23.15	
20	16QAM	1	99	23.24	23.21	23.11	
20	16QAM	50	0	22.07	22.11	22.04	23.6
20	16QAM	50	24	22.03	22.06	21.99	
20	16QAM	50	50	21.96	22.03	22.00	
20	16QAM	100	0	22.03	22.09	22.05	23.6
20	64QAM	1	0	22.32	22.44	22.33	
20	64QAM	1	49	22.17	22.25	22.14	
20	64QAM	1	99	22.14	22.26	22.12	22.6
20	64QAM	50	0	21.15	21.13	21.10	
20	64QAM	50	24	21.06	21.10	21.05	
20	64QAM	50	50	21.03	21.03	20.98	20.6
20	64QAM	100	0	21.09	21.07	21.02	
20	256QAM	1	0	19.75	19.79	19.77	
20	256QAM	1	49	19.61	19.68	19.54	20.6
20	256QAM	1	99	19.59	19.61	19.50	
20	256QAM	50	0	19.59	19.49	19.54	
20	256QAM	50	24	19.44	19.52	19.40	20.6
20	256QAM	50	50	19.45	19.46	19.39	
20	256QAM	100	0	19.54	19.44	19.37	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	24.03	24.08	24.15	
15	QPSK	1	37	23.81	23.93	23.88	25.6
15	QPSK	1	74	23.88	23.95	23.77	
15	QPSK	36	0	22.92	22.93	22.84	
15	QPSK	36	20	22.95	23.00	22.80	24.6
15	QPSK	36	39	22.83	22.78	22.75	
15	QPSK	75	0	22.92	22.89	22.84	
15	16QAM	1	0	23.33	23.39	23.25	24.6
15	16QAM	1	37	23.11	23.16	23.12	
15	16QAM	1	74	23.24	23.16	23.02	
15	16QAM	36	0	22.03	22.09	22.03	23.6
15	16QAM	36	20	21.91	21.89	21.84	
15	16QAM	36	39	21.88	21.84	21.91	
15	16QAM	75	0	21.84	21.89	21.99	23.6
15	64QAM	1	0	22.25	22.33	22.22	
15	64QAM	1	37	22.01	22.05	22.06	
15	64QAM	1	74	22.06	22.17	22.09	22.6
15	64QAM	36	0	21.09	20.97	20.92	
15	64QAM	36	20	21.01	20.99	21.02	
15	64QAM	36	39	20.83	20.83	20.91	20.6
15	64QAM	75	0	20.97	20.99	20.99	
15	256QAM	1	0	19.55	19.61	19.62	
15	256QAM	1	37	19.58	19.68	19.43	20.6
15	256QAM	1	74	19.51	19.59	19.32	
15	256QAM	36	0	19.52	19.32	19.37	
15	256QAM	36	20	19.31	19.50	19.35	20.6



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15	256QAM	36	39	19.36	19.33	19.28	
15	256QAM	75	0	19.36	19.38	19.33	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	24.15	24.06	23.96	25.6
10	QPSK	1	25	23.90	23.91	23.98	
10	QPSK	1	49	23.85	23.77	23.80	
10	QPSK	25	0	23.03	23.01	22.91	24.6
10	QPSK	25	12	22.83	22.84	22.91	
10	QPSK	25	25	22.82	22.93	22.85	
10	QPSK	50	0	22.88	22.91	22.91	
10	16QAM	1	0	23.23	23.31	23.37	24.6
10	16QAM	1	25	23.10	23.12	23.10	
10	16QAM	1	49	23.06	23.14	22.91	
10	16QAM	25	0	21.96	22.02	21.94	23.6
10	16QAM	25	12	21.97	21.97	21.87	
10	16QAM	25	25	21.77	21.92	21.99	
10	16QAM	50	0	22.03	22.06	21.88	
10	64QAM	1	0	22.15	22.40	22.19	23.6
10	64QAM	1	25	22.08	22.15	22.01	
10	64QAM	1	49	22.00	22.24	22.11	
10	64QAM	25	0	20.95	21.01	21.05	22.6
10	64QAM	25	12	20.98	21.09	20.85	
10	64QAM	25	25	20.92	20.92	20.84	
10	64QAM	50	0	20.95	21.01	20.85	
10	256QAM	1	0	19.73	19.68	19.64	20.6
10	256QAM	1	25	19.46	19.68	19.46	
10	256QAM	1	49	19.55	19.59	19.38	
10	256QAM	25	0	19.45	19.37	19.35	20.6
10	256QAM	25	12	19.41	19.47	19.25	
10	256QAM	25	25	19.42	19.39	19.25	
10	256QAM	50	0	19.54	19.31	19.17	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	24.08	24.19	24.11	25.6
5	QPSK	1	12	23.78	23.90	23.99	
5	QPSK	1	24	23.77	23.90	23.71	
5	QPSK	12	0	23.07	22.90	23.04	24.6
5	QPSK	12	7	23.00	22.99	22.85	
5	QPSK	12	13	22.78	22.84	22.85	
5	QPSK	25	0	22.89	23.07	22.91	
5	16QAM	1	0	23.27	23.38	23.24	24.6
5	16QAM	1	12	23.05	23.12	23.14	
5	16QAM	1	24	23.12	23.05	22.96	
5	16QAM	12	0	21.88	21.98	22.03	23.6
5	16QAM	12	7	21.89	22.00	21.91	
5	16QAM	12	13	21.79	21.85	21.95	
5	16QAM	25	0	21.97	22.05	21.97	
5	64QAM	1	0	22.18	22.35	22.30	23.6
5	64QAM	1	12	21.99	22.12	21.96	
5	64QAM	1	24	22.11	22.18	21.94	
5	64QAM	12	0	21.02	21.11	20.91	22.6
5	64QAM	12	7	21.04	20.93	21.01	
5	64QAM	12	13	20.83	20.90	20.96	
5	64QAM	25	0	21.05	20.99	21.02	
5	256QAM	1	0	19.70	19.70	19.65	20.6
5	256QAM	1	12	19.58	19.62	19.38	
5	256QAM	1	24	19.48	19.56	19.33	
5	256QAM	12	0	19.45	19.49	19.46	20.6
5	256QAM	12	7	19.44	19.32	19.39	
5	256QAM	12	13	19.38	19.46	19.37	
5	256QAM	25	0	19.42	19.25	19.20	



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Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	24.09	24.01	24.14	25.6
3	QPSK	1	8	23.76	23.99	23.83	
3	QPSK	1	14	23.75	23.95	23.69	
3	QPSK	8	0	22.96	23.08	22.89	24.6
3	QPSK	8	4	23.00	22.85	22.79	
3	QPSK	8	7	22.77	22.94	22.71	
3	QPSK	15	0	23.02	22.93	22.92	24.6
3	16QAM	1	0	23.39	23.34	23.31	
3	16QAM	1	8	23.17	23.13	23.09	
3	16QAM	1	14	23.19	23.10	22.99	23.6
3	16QAM	8	0	21.99	21.93	21.89	
3	16QAM	8	4	21.90	21.89	21.96	
3	16QAM	8	7	21.90	21.90	21.99	23.6
3	16QAM	15	0	21.94	21.95	21.89	
3	64QAM	1	0	22.16	22.41	22.29	
3	64QAM	1	8	22.16	22.10	22.00	22.6
3	64QAM	1	14	21.94	22.07	21.94	
3	64QAM	8	0	21.09	21.07	20.92	
3	64QAM	8	4	21.00	20.95	20.91	20.6
3	64QAM	8	7	20.97	20.99	20.84	
3	64QAM	15	0	20.94	20.91	20.92	
3	256QAM	1	0	19.64	19.74	19.57	20.6
3	256QAM	1	8	19.47	19.54	19.51	
3	256QAM	1	14	19.50	19.47	19.48	
3	256QAM	8	0	19.54	19.42	19.35	20.6
3	256QAM	8	4	19.38	19.35	19.34	
3	256QAM	8	7	19.39	19.40	19.28	
3	256QAM	15	0	19.42	19.34	19.30	20.6
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	Tune-up limit (dBm)
1.4	QPSK	1	0	24.10	24.15	24.15	
1.4	QPSK	1	3	23.85	23.94	23.80	25.6
1.4	QPSK	1	5	23.87	23.91	23.65	
1.4	QPSK	3	0	24.15	24.03	24.14	
1.4	QPSK	3	1	23.84	23.81	23.96	24.6
1.4	QPSK	3	3	23.78	23.76	23.66	
1.4	QPSK	6	0	23.01	22.91	23.01	
1.4	16QAM	1	0	22.83	22.84	22.83	24.6
1.4	16QAM	1	3	22.84	22.90	22.85	
1.4	16QAM	1	5	22.98	23.02	22.89	
1.4	16QAM	3	0	23.29	23.28	23.32	23.6
1.4	16QAM	3	1	23.03	23.19	23.06	
1.4	16QAM	3	3	23.18	23.21	23.04	
1.4	16QAM	6	0	21.97	22.01	21.85	23.6
1.4	64QAM	1	0	21.92	21.98	21.84	
1.4	64QAM	1	3	21.88	22.03	21.83	
1.4	64QAM	1	5	21.83	22.09	21.85	23.6
1.4	64QAM	3	0	22.12	22.31	22.25	
1.4	64QAM	3	1	22.08	22.12	22.14	
1.4	64QAM	3	3	22.04	22.24	22.05	22.6
1.4	64QAM	6	0	20.97	21.03	20.95	
1.4	256QAM	1	0	19.66	19.72	19.72	
1.4	256QAM	1	3	19.44	19.57	19.42	20.6
1.4	256QAM	1	5	19.55	19.61	19.33	
1.4	256QAM	3	0	19.44	19.35	19.49	
1.4	256QAM	3	1	19.25	19.39	19.39	20.6
1.4	256QAM	3	3	19.40	19.38	19.38	
1.4	256QAM	6	0	19.37	19.35	19.21	

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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)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	19.06	19.07	19.05	19.2
20	QPSK	1	49	18.92	18.96	18.92	
20	QPSK	1	99	18.86	18.86	18.82	
20	QPSK	50	0	18.99	19.00	18.98	19.2
20	QPSK	50	24	18.94	18.97	18.91	
20	QPSK	50	50	18.89	18.91	18.87	
20	QPSK	100	0	18.92	18.93	18.88	
20	16QAM	1	0	18.92	18.98	18.96	19.2
20	16QAM	1	49	18.81	18.84	18.85	
20	16QAM	1	99	18.81	18.83	18.86	
20	16QAM	50	0	18.98	19.01	18.97	19.2
20	16QAM	50	24	18.94	18.97	18.95	
20	16QAM	50	50	18.88	18.91	18.89	
20	16QAM	100	0	18.95	18.97	18.92	
20	64QAM	1	0	18.89	18.91	18.95	19.2
20	64QAM	1	49	18.83	18.84	18.83	
20	64QAM	1	99	18.77	18.89	18.86	
20	64QAM	50	0	19.03	19.03	19.00	19.2
20	64QAM	50	24	18.97	19.02	18.98	
20	64QAM	50	50	18.90	18.92	18.91	
20	64QAM	100	0	18.94	18.97	18.94	
20	256QAM	1	0	18.76	18.79	18.90	19.2
20	256QAM	1	49	18.87	18.75	18.76	
20	256QAM	1	99	18.64	18.75	18.59	
20	256QAM	50	0	18.68	18.61	18.55	19.2
20	256QAM	50	24	18.53	18.66	18.70	
20	256QAM	50	50	18.34	18.53	18.54	
20	256QAM	100	0	18.51	18.55	18.52	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	18.99	18.97	18.90	19.2
15	QPSK	1	37	18.83	18.92	18.84	
15	QPSK	1	74	18.79	18.71	18.76	
15	QPSK	36	0	18.79	18.90	18.91	19.2
15	QPSK	36	20	18.81	18.95	18.80	
15	QPSK	36	39	18.81	18.72	18.67	
15	QPSK	75	0	18.86	18.92	18.77	
15	16QAM	1	0	18.78	18.81	18.93	19.2
15	16QAM	1	37	18.75	18.76	18.78	
15	16QAM	1	74	18.61	18.81	18.85	
15	16QAM	36	0	18.83	18.97	18.87	19.2
15	16QAM	36	20	18.94	18.95	18.79	
15	16QAM	36	39	18.80	18.86	18.79	
15	16QAM	75	0	18.91	18.77	18.81	
15	64QAM	1	0	18.69	18.82	18.91	19.2
15	64QAM	1	37	18.67	18.82	18.65	
15	64QAM	1	74	18.70	18.73	18.70	
15	64QAM	36	0	18.93	18.83	18.89	19.2
15	64QAM	36	20	18.90	18.86	18.90	
15	64QAM	36	39	18.78	18.81	18.71	
15	64QAM	75	0	18.90	18.92	18.80	
15	256QAM	1	0	18.68	18.76	18.70	19.2
15	256QAM	1	37	18.77	18.70	18.71	
15	256QAM	1	74	18.54	18.61	18.56	
15	256QAM	36	0	18.48	18.57	18.36	19.2
15	256QAM	36	20	18.44	18.51	18.70	



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15	256QAM	36	39	18.26	18.43	18.51	
15	256QAM	75	0	18.34	18.38	18.41	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	19.04	18.93	18.86	19.2
10	QPSK	1	25	18.92	18.94	18.90	
10	QPSK	1	49	18.76	18.68	18.68	
10	QPSK	25	0	18.81	18.87	18.90	19.2
10	QPSK	25	12	18.84	18.96	18.80	
10	QPSK	25	25	18.71	18.80	18.87	
10	QPSK	50	0	18.87	18.88	18.85	
10	16QAM	1	0	18.92	18.91	18.78	19.2
10	16QAM	1	25	18.74	18.83	18.73	
10	16QAM	1	49	18.81	18.66	18.74	
10	16QAM	25	0	18.85	19.01	18.95	19.2
10	16QAM	25	12	18.80	18.91	18.91	
10	16QAM	25	25	18.73	18.89	18.76	
10	16QAM	50	0	18.94	18.91	18.78	
10	64QAM	1	0	18.70	18.86	18.84	19.2
10	64QAM	1	25	18.71	18.67	18.76	
10	64QAM	1	49	18.57	18.72	18.80	
10	64QAM	25	0	18.95	19.01	18.83	19.2
10	64QAM	25	12	18.93	18.83	18.83	
10	64QAM	25	25	18.75	18.75	18.75	
10	64QAM	50	0	18.82	18.94	18.91	
10	256QAM	1	0	18.73	18.76	18.77	19.2
10	256QAM	1	25	18.69	18.65	18.76	
10	256QAM	1	49	18.59	18.62	18.40	
10	256QAM	25	0	18.63	18.53	18.35	19.2
10	256QAM	25	12	18.38	18.53	18.53	
10	256QAM	25	25	18.17	18.35	18.45	
10	256QAM	50	0	18.51	18.52	18.44	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	18.97	18.92	18.86	19.2
5	QPSK	1	12	18.72	18.91	18.78	
5	QPSK	1	24	18.66	18.70	18.82	
5	QPSK	12	0	18.96	18.89	18.81	19.2
5	QPSK	12	7	18.90	18.78	18.77	
5	QPSK	12	13	18.71	18.71	18.84	
5	QPSK	25	0	18.76	18.88	18.77	
5	16QAM	1	0	18.84	18.81	18.87	19.2
5	16QAM	1	12	18.67	18.70	18.78	
5	16QAM	1	24	18.68	18.76	18.81	
5	16QAM	12	0	18.83	18.90	18.79	19.2
5	16QAM	12	7	18.81	18.78	18.93	
5	16QAM	12	13	18.84	18.89	18.69	
5	16QAM	25	0	18.93	18.91	18.86	
5	64QAM	1	0	18.69	18.76	18.94	19.2
5	64QAM	1	12	18.64	18.76	18.75	
5	64QAM	1	24	18.62	18.76	18.85	
5	64QAM	12	0	18.93	18.86	18.92	19.2
5	64QAM	12	7	18.85	18.99	18.89	
5	64QAM	12	13	18.80	18.78	18.72	
5	64QAM	25	0	18.76	18.79	18.79	
5	256QAM	1	0	18.72	18.75	18.74	19.2
5	256QAM	1	12	18.85	18.72	18.68	
5	256QAM	1	24	18.59	18.58	18.44	
5	256QAM	12	0	18.54	18.61	18.38	19.2
5	256QAM	12	7	18.51	18.53	18.56	
5	256QAM	12	13	18.22	18.37	18.40	
5	256QAM	25	0	18.40	18.48	18.47	



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Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	18.87	18.90	18.95	19.2
3	QPSK	1	8	18.84	18.83	18.81	
3	QPSK	1	14	18.66	18.78	18.73	
3	QPSK	8	0	18.89	18.81	18.85	19.2
3	QPSK	8	4	18.84	18.81	18.79	
3	QPSK	8	7	18.72	18.88	18.67	
3	QPSK	15	0	18.89	18.80	18.76	
3	16QAM	1	0	18.79	18.84	18.84	19.2
3	16QAM	1	8	18.77	18.71	18.84	
3	16QAM	1	14	18.63	18.64	18.68	
3	16QAM	8	0	18.79	18.98	18.92	19.2
3	16QAM	8	4	18.83	18.83	18.76	
3	16QAM	8	7	18.77	18.81	18.81	
3	16QAM	15	0	18.83	18.97	18.90	
3	64QAM	1	0	18.74	18.87	18.75	19.2
3	64QAM	1	8	18.78	18.82	18.75	
3	64QAM	1	14	18.65	18.69	18.79	
3	64QAM	8	0	19.01	18.89	18.80	19.2
3	64QAM	8	4	18.87	18.86	18.96	
3	64QAM	8	7	18.87	18.82	18.76	
3	64QAM	15	0	18.81	18.83	18.78	
3	256QAM	1	0	18.62	18.69	18.80	19.2
3	256QAM	1	8	18.76	18.65	18.64	
3	256QAM	1	14	18.64	18.75	18.53	
3	256QAM	8	0	18.60	18.53	18.36	19.2
3	256QAM	8	4	18.51	18.47	18.54	
3	256QAM	8	7	18.32	18.50	18.48	
3	256QAM	15	0	18.49	18.37	18.40	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	18.96	18.91	18.90	19.2
1.4	QPSK	1	3	18.79	18.93	18.73	
1.4	QPSK	1	5	18.66	18.71	18.64	
1.4	QPSK	3	0	18.93	18.94	18.78	
1.4	QPSK	3	1	18.90	18.93	18.83	
1.4	QPSK	3	3	18.74	18.76	18.71	
1.4	QPSK	6	0	18.85	18.93	18.70	19.2
1.4	16QAM	1	0	18.82	18.86	18.83	19.2
1.4	16QAM	1	3	18.81	18.83	18.70	
1.4	16QAM	1	5	18.64	18.72	18.83	
1.4	16QAM	3	0	18.92	18.92	18.80	
1.4	16QAM	3	1	18.74	18.85	18.87	
1.4	16QAM	3	3	18.74	18.85	18.81	19.2
1.4	16QAM	6	0	18.86	18.90	18.80	
1.4	64QAM	1	0	18.81	18.74	18.90	19.2
1.4	64QAM	1	3	18.70	18.64	18.78	
1.4	64QAM	1	5	18.76	18.83	18.85	
1.4	64QAM	3	0	18.90	18.91	18.89	
1.4	64QAM	3	1	18.88	18.95	18.87	
1.4	64QAM	3	3	18.71	18.86	18.88	19.2
1.4	64QAM	6	0	18.75	18.91	18.90	
1.4	256QAM	1	0	18.58	18.77	18.72	19.2
1.4	256QAM	1	3	18.75	18.64	18.66	
1.4	256QAM	1	5	18.44	18.60	18.45	
1.4	256QAM	3	0	18.64	18.47	18.40	
1.4	256QAM	3	1	18.35	18.63	18.69	
1.4	256QAM	3	3	18.15	18.45	18.53	19.2
1.4	256QAM	6	0	18.47	18.48	18.51	



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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)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	16.09	16.16	16.10	
20	QPSK	1	49	16.03	16.02	16.07	16.9
20	QPSK	1	99	15.96	16.05	15.92	
20	QPSK	50	0	16.08	16.14	16.09	
20	QPSK	50	24	15.99	16.13	16.08	16.9
20	QPSK	50	50	15.98	16.06	16.02	
20	QPSK	100	0	15.98	16.08	16.02	
20	16QAM	1	0	15.97	16.07	16.14	16.9
20	16QAM	1	49	15.88	15.94	15.99	
20	16QAM	1	99	15.94	15.89	15.89	
20	16QAM	50	0	15.70	15.73	15.65	16.9
20	16QAM	50	24	15.59	15.70	15.61	
20	16QAM	50	50	15.62	15.65	15.63	
20	16QAM	100	0	15.63	15.74	15.65	16.9
20	64QAM	1	0	15.91	15.96	15.94	
20	64QAM	1	49	15.83	15.92	15.89	
20	64QAM	1	99	15.91	15.87	15.88	16.9
20	64QAM	50	0	15.70	15.79	15.70	
20	64QAM	50	24	15.69	15.72	15.69	
20	64QAM	50	50	15.63	15.63	15.65	16.9
20	64QAM	100	0	15.71	15.74	15.64	
20	256QAM	1	0	15.91	15.92	15.84	
20	256QAM	1	49	15.92	15.76	15.94	16.9
20	256QAM	1	99	15.90	15.90	15.69	
20	256QAM	50	0	15.58	15.78	15.69	
20	256QAM	50	24	15.71	15.64	15.62	16.9
20	256QAM	50	50	15.71	15.74	15.70	
20	256QAM	100	0	15.67	15.76	15.52	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	15.92	16.02	16.10	
15	QPSK	1	37	16.02	15.93	15.94	16.9
15	QPSK	1	74	15.78	15.77	15.92	
15	QPSK	36	0	15.84	16.08	15.96	16.9
15	QPSK	36	20	15.84	16.02	15.93	
15	QPSK	36	39	15.79	15.85	16.01	
15	QPSK	75	0	15.96	15.98	15.84	16.9
15	16QAM	1	0	15.83	16.03	15.98	
15	16QAM	1	37	15.92	15.78	15.92	
15	16QAM	1	74	15.87	15.69	15.67	16.9
15	16QAM	36	0	15.58	15.62	15.60	
15	16QAM	36	20	15.44	15.73	15.52	
15	16QAM	36	39	15.56	15.49	15.56	16.9
15	16QAM	75	0	15.62	15.68	15.63	
15	64QAM	1	0	15.93	15.97	15.72	
15	64QAM	1	37	15.80	15.69	15.78	16.9
15	64QAM	1	74	15.88	15.74	15.85	
15	64QAM	36	0	15.69	15.61	15.71	
15	64QAM	36	20	15.65	15.57	15.56	16.9
15	64QAM	36	39	15.54	15.56	15.59	
15	64QAM	75	0	15.70	15.49	15.62	
15	256QAM	1	0	15.71	15.85	15.67	16.9
15	256QAM	1	37	15.81	15.76	15.79	
15	256QAM	1	74	15.70	15.84	15.74	
15	256QAM	36	0	15.51	15.59	15.63	16.9
15	256QAM	36	20	15.56	15.60	15.48	



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15	256QAM	36	39	15.52	15.56	15.77	
15	256QAM	75	0	15.67	15.52	15.59	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	15.95	15.98	16.07	16.9
10	QPSK	1	25	15.97	16.01	15.89	
10	QPSK	1	49	15.93	15.89	15.81	
10	QPSK	25	0	15.90	16.06	15.98	16.9
10	QPSK	25	12	15.84	15.99	15.92	
10	QPSK	25	25	15.91	16.03	15.89	
10	QPSK	50	0	15.79	15.91	15.99	
10	16QAM	1	0	15.87	16.07	16.06	16.9
10	16QAM	1	25	15.72	15.80	15.76	
10	16QAM	1	49	15.93	15.72	15.65	
10	16QAM	25	0	15.46	15.63	15.52	16.9
10	16QAM	25	12	15.67	15.61	15.56	
10	16QAM	25	25	15.58	15.47	15.67	
10	16QAM	50	0	15.66	15.57	15.53	
10	64QAM	1	0	15.92	15.88	15.96	16.9
10	64QAM	1	25	15.65	15.73	15.86	
10	64QAM	1	49	15.69	15.64	15.66	
10	64QAM	25	0	15.55	15.59	15.52	16.9
10	64QAM	25	12	15.60	15.60	15.52	
10	64QAM	25	25	15.43	15.55	15.66	
10	64QAM	50	0	15.65	15.48	15.65	
10	256QAM	1	0	15.87	15.90	15.72	16.9
10	256QAM	1	25	15.87	15.73	15.84	
10	256QAM	1	49	15.67	15.74	15.73	
10	256QAM	25	0	15.60	15.59	15.56	16.9
10	256QAM	25	12	15.61	15.50	15.66	
10	256QAM	25	25	15.63	15.53	15.45	
10	256QAM	50	0	15.71	15.83	15.33	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	16.07	16.08	15.97	16.9
5	QPSK	1	12	16.03	15.93	15.88	
5	QPSK	1	24	15.76	16.00	15.91	
5	QPSK	12	0	15.99	16.01	15.97	16.9
5	QPSK	12	7	15.85	15.93	16.02	
5	QPSK	12	13	15.86	15.93	16.08	
5	QPSK	25	0	15.96	16.05	15.98	
5	16QAM	1	0	15.80	15.90	16.10	16.9
5	16QAM	1	12	15.75	15.99	15.82	
5	16QAM	1	24	15.79	15.89	15.85	
5	16QAM	12	0	15.64	15.64	15.56	16.9
5	16QAM	12	7	15.53	15.56	15.45	
5	16QAM	12	13	15.37	15.59	15.49	
5	16QAM	25	0	15.51	15.71	15.43	
5	64QAM	1	0	15.91	15.93	15.94	16.9
5	64QAM	1	12	15.82	15.71	15.72	
5	64QAM	1	24	15.85	15.70	15.67	
5	64QAM	12	0	15.59	15.61	15.50	16.9
5	64QAM	12	7	15.53	15.74	15.62	
5	64QAM	12	13	15.52	15.53	15.59	
5	64QAM	25	0	15.59	15.66	15.52	
5	256QAM	1	0	15.93	15.72	15.81	16.9
5	256QAM	1	12	15.90	15.77	15.80	
5	256QAM	1	24	15.69	15.72	15.70	
5	256QAM	12	0	15.51	15.64	15.66	16.9
5	256QAM	12	7	15.58	15.61	15.55	
5	256QAM	12	13	15.41	15.37	15.51	
5	256QAM	25	0	15.64	15.64	15.31	



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Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	16.00	16.14	15.95	16.9
3	QPSK	1	8	16.05	15.92	15.99	
3	QPSK	1	14	15.80	15.81	15.91	
3	QPSK	8	0	15.95	16.07	16.04	16.9
3	QPSK	8	4	15.98	16.04	15.97	
3	QPSK	8	7	15.86	15.90	16.04	
3	QPSK	15	0	15.94	16.03	16.06	
3	16QAM	1	0	15.85	15.93	16.04	16.9
3	16QAM	1	8	15.72	15.89	15.94	
3	16QAM	1	14	15.70	15.75	15.73	
3	16QAM	8	0	15.61	15.65	15.56	16.9
3	16QAM	8	4	15.54	15.65	15.61	
3	16QAM	8	7	15.49	15.54	15.63	
3	16QAM	15	0	15.52	15.60	15.50	
3	64QAM	1	0	15.74	15.79	15.82	16.9
3	64QAM	1	8	15.74	15.68	15.87	
3	64QAM	1	14	15.78	15.72	15.69	
3	64QAM	8	0	15.47	15.72	15.57	16.9
3	64QAM	8	4	15.59	15.65	15.58	
3	64QAM	8	7	15.62	15.59	15.58	
3	64QAM	15	0	15.54	15.51	15.71	
3	256QAM	1	0	15.81	15.88	15.68	16.9
3	256QAM	1	8	15.90	15.69	15.85	
3	256QAM	1	14	15.79	15.76	15.52	
3	256QAM	8	0	15.59	15.68	15.65	16.9
3	256QAM	8	4	15.61	15.46	15.55	
3	256QAM	8	7	15.54	15.70	15.48	
3	256QAM	15	0	15.68	15.81	15.56	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	16.08	15.95	16.05	16.9
1.4	QPSK	1	3	15.92	16.09	15.90	
1.4	QPSK	1	5	15.86	15.94	15.75	
1.4	QPSK	3	0	16.01	16.08	16.03	
1.4	QPSK	3	1	16.06	16.01	15.90	
1.4	QPSK	3	3	15.90	15.99	15.84	
1.4	QPSK	6	0	15.96	15.91	16.09	16.9
1.4	16QAM	1	0	15.88	15.91	16.01	16.9
1.4	16QAM	1	3	15.87	15.90	15.93	
1.4	16QAM	1	5	15.96	15.85	15.81	
1.4	16QAM	3	0	15.60	15.68	15.65	
1.4	16QAM	3	1	15.51	15.55	15.63	
1.4	16QAM	3	3	15.35	15.61	15.61	
1.4	16QAM	6	0	15.51	15.66	15.47	16.9
1.4	64QAM	1	0	15.82	15.97	15.93	16.9
1.4	64QAM	1	3	15.82	15.74	15.79	
1.4	64QAM	1	5	15.95	15.74	15.68	
1.4	64QAM	3	0	15.52	15.62	15.59	
1.4	64QAM	3	1	15.49	15.51	15.51	
1.4	64QAM	3	3	15.46	15.48	15.44	
1.4	64QAM	6	0	15.64	15.60	15.51	16.9
1.4	256QAM	1	0	15.83	15.74	15.81	16.9
1.4	256QAM	1	3	15.87	15.76	15.85	
1.4	256QAM	1	5	15.87	15.77	15.71	
1.4	256QAM	3	0	15.51	15.70	15.64	
1.4	256QAM	3	1	15.59	15.62	15.65	
1.4	256QAM	3	3	15.51	15.46	15.62	
1.4	256QAM	6	0	15.61	15.68	15.42	16.9



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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)
Channel				20050	20175	20300	19.4
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	19.17	19.21	19.20	
20	QPSK	1	49	19.06	19.10	19.03	19.4
20	QPSK	1	99	18.98	18.98	18.98	
20	QPSK	50	0	19.17	19.19	19.15	
20	QPSK	50	24	19.13	19.13	19.12	19.4
20	QPSK	50	50	19.08	19.09	19.03	
20	QPSK	100	0	19.14	19.16	19.11	
20	16QAM	1	0	19.14	19.05	19.15	19.4
20	16QAM	1	49	18.95	18.91	18.98	
20	16QAM	1	99	18.93	18.88	18.95	
20	16QAM	50	0	19.15	19.15	19.17	19.4
20	16QAM	50	24	19.10	19.11	19.13	
20	16QAM	50	50	19.06	19.07	19.09	
20	16QAM	100	0	19.15	19.12	19.10	19.4
20	64QAM	1	0	19.05	19.16	19.07	
20	64QAM	1	49	18.97	18.98	19.09	
20	64QAM	1	99	18.87	18.94	18.98	19.4
20	64QAM	50	0	19.19	19.15	19.17	
20	64QAM	50	24	19.12	19.11	19.13	
20	64QAM	50	50	19.06	19.07	19.09	19.4
20	64QAM	100	0	19.12	19.12	19.12	
20	256QAM	1	0	19.10	18.98	19.08	
20	256QAM	1	49	18.73	18.85	18.78	19.4
20	256QAM	1	99	18.76	18.82	18.76	
20	256QAM	50	0	18.65	18.61	18.51	
20	256QAM	50	24	18.49	18.65	18.76	19.4
20	256QAM	50	50	18.63	18.53	18.62	
20	256QAM	100	0	18.55	18.59	18.59	
Channel				20025	20175	20325	19.4
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	19.05	19.01	19.16	
15	QPSK	1	37	18.86	19.10	19.02	19.4
15	QPSK	1	74	18.86	18.79	18.82	
15	QPSK	36	0	19.14	19.10	19.13	
15	QPSK	36	20	19.02	19.08	18.92	19.4
15	QPSK	36	39	18.90	19.04	19.00	
15	QPSK	75	0	19.08	19.11	19.02	
15	16QAM	1	0	19.06	18.85	19.12	19.4
15	16QAM	1	37	18.94	18.72	18.79	
15	16QAM	1	74	18.91	18.74	18.89	
15	16QAM	36	0	19.14	18.99	19.13	19.4
15	16QAM	36	20	18.95	18.91	18.95	
15	16QAM	36	39	19.06	19.01	19.09	
15	16QAM	75	0	18.98	19.06	19.10	19.4
15	64QAM	1	0	18.95	18.97	18.88	
15	64QAM	1	37	18.90	18.81	18.99	
15	64QAM	1	74	18.73	18.87	18.78	19.4
15	64QAM	36	0	18.99	19.00	19.00	
15	64QAM	36	20	19.04	19.06	18.96	
15	64QAM	36	39	19.04	19.02	18.94	19.4
15	64QAM	75	0	18.97	19.10	18.99	
15	256QAM	1	0	19.00	18.98	19.08	
15	256QAM	1	37	18.69	18.75	18.78	19.4
15	256QAM	1	74	18.71	18.73	18.68	
15	256QAM	36	0	18.56	18.51	18.43	
15	256QAM	36	20	18.32	18.54	18.68	19.4



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15	256QAM	36	39	18.51	18.41	18.52	
15	256QAM	75	0	18.45	18.50	18.49	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	19.14	19.03	19.09	19.4
10	QPSK	1	25	18.98	18.90	19.03	
10	QPSK	1	49	18.90	18.90	18.98	
10	QPSK	25	0	19.09	19.02	19.03	19.4
10	QPSK	25	12	18.95	19.01	19.10	
10	QPSK	25	25	18.97	19.05	19.00	
10	QPSK	50	0	19.14	19.05	19.06	
10	16QAM	1	0	19.09	19.04	19.13	19.4
10	16QAM	1	25	18.92	18.79	18.89	
10	16QAM	1	49	18.75	18.72	18.76	
10	16QAM	25	0	19.04	19.04	19.09	19.4
10	16QAM	25	12	18.90	18.96	19.07	
10	16QAM	25	25	18.92	18.88	19.01	
10	16QAM	50	0	19.13	19.01	19.00	
10	64QAM	1	0	18.89	19.02	19.00	19.4
10	64QAM	1	25	18.84	18.87	18.98	
10	64QAM	1	49	18.82	18.88	18.78	
10	64QAM	25	0	19.17	18.95	19.16	19.4
10	64QAM	25	12	18.93	18.97	18.94	
10	64QAM	25	25	19.01	19.07	18.93	
10	64QAM	50	0	19.09	18.94	18.98	
10	256QAM	1	0	19.10	18.87	18.93	19.4
10	256QAM	1	25	18.64	18.85	18.76	
10	256QAM	1	49	18.70	18.67	18.74	
10	256QAM	25	0	18.60	18.61	18.36	19.4
10	256QAM	25	12	18.31	18.64	18.63	
10	256QAM	25	25	18.46	18.51	18.43	
10	256QAM	50	0	18.44	18.40	18.39	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	19.00	19.02	19.15	19.4
5	QPSK	1	12	19.06	19.03	18.98	
5	QPSK	1	24	18.92	18.81	18.90	
5	QPSK	12	0	19.06	19.10	19.07	19.4
5	QPSK	12	7	18.93	18.93	19.02	
5	QPSK	12	13	19.08	19.04	18.88	
5	QPSK	25	0	19.00	19.09	18.97	
5	16QAM	1	0	19.02	18.89	19.04	19.4
5	16QAM	1	12	18.93	18.80	18.84	
5	16QAM	1	24	18.78	18.81	18.80	
5	16QAM	12	0	19.13	19.14	19.08	19.4
5	16QAM	12	7	19.09	18.95	18.95	
5	16QAM	12	13	18.98	19.00	19.05	
5	16QAM	25	0	19.05	18.99	19.02	
5	64QAM	1	0	18.93	19.15	19.04	19.4
5	64QAM	1	12	18.85	18.82	19.05	
5	64QAM	1	24	18.78	18.84	18.90	
5	64QAM	12	0	19.01	19.05	18.99	19.4
5	64QAM	12	7	19.08	18.91	19.08	
5	64QAM	12	13	18.88	18.96	18.91	
5	64QAM	25	0	18.98	19.11	19.00	
5	256QAM	1	0	18.92	18.96	18.96	19.4
5	256QAM	1	12	18.53	18.78	18.62	
5	256QAM	1	24	18.57	18.71	18.65	
5	256QAM	12	0	18.54	18.57	18.38	19.4
5	256QAM	12	7	18.32	18.61	18.57	
5	256QAM	12	13	18.54	18.50	18.61	
5	256QAM	25	0	18.48	18.57	18.56	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	19.08	19.05	19.07	19.4
3	QPSK	1	8	18.88	18.93	19.01	
3	QPSK	1	14	18.92	18.98	18.80	
3	QPSK	8	0	19.02	19.17	19.14	19.4
3	QPSK	8	4	18.93	19.03	18.96	
3	QPSK	8	7	18.99	19.04	18.83	
3	QPSK	15	0	18.98	19.15	19.00	19.4
3	16QAM	1	0	19.11	19.03	18.97	
3	16QAM	1	8	18.81	18.91	18.83	
3	16QAM	1	14	18.82	18.85	18.79	19.4
3	16QAM	8	0	18.97	18.99	19.06	
3	16QAM	8	4	19.03	19.08	19.07	
3	16QAM	8	7	18.89	19.01	18.96	19.4
3	16QAM	15	0	19.04	19.04	18.95	
3	64QAM	1	0	18.88	18.98	19.06	
3	64QAM	1	8	18.86	18.82	18.93	19.4
3	64QAM	1	14	18.73	18.94	18.84	
3	64QAM	8	0	19.07	19.12	19.02	
3	64QAM	8	4	19.03	19.07	19.06	19.4
3	64QAM	8	7	18.97	19.01	19.04	
3	64QAM	15	0	18.99	18.94	19.06	
3	256QAM	1	0	19.00	18.78	19.03	19.4
3	256QAM	1	8	18.56	18.68	18.62	
3	256QAM	1	14	18.59	18.75	18.71	
3	256QAM	8	0	18.60	18.57	18.47	19.4
3	256QAM	8	4	18.42	18.65	18.67	
3	256QAM	8	7	18.54	18.39	18.55	
3	256QAM	15	0	18.50	18.39	18.59	Tune-up limit (dBm)
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	19.4
1.4	QPSK	1	0	19.04	19.17	19.15	
1.4	QPSK	1	3	18.86	19.01	18.97	
1.4	QPSK	1	5	18.88	18.87	18.83	
1.4	QPSK	3	0	19.06	19.11	18.99	
1.4	QPSK	3	1	19.00	19.07	19.09	
1.4	QPSK	3	3	18.91	18.90	18.97	
1.4	QPSK	6	0	18.99	19.07	19.01	19.4
1.4	16QAM	1	0	19.04	18.92	18.96	19.4
1.4	16QAM	1	3	18.95	18.71	18.79	
1.4	16QAM	1	5	18.78	18.88	18.79	
1.4	16QAM	3	0	19.00	19.05	19.08	
1.4	16QAM	3	1	18.92	18.94	19.05	
1.4	16QAM	3	3	18.99	18.98	19.00	19.4
1.4	16QAM	6	0	19.15	19.02	18.91	
1.4	64QAM	1	0	18.89	19.12	19.03	19.4
1.4	64QAM	1	3	18.95	18.94	18.93	
1.4	64QAM	1	5	18.75	18.79	18.83	
1.4	64QAM	3	0	19.09	19.01	18.98	
1.4	64QAM	3	1	19.10	19.05	18.98	
1.4	64QAM	3	3	18.92	18.87	19.08	19.4
1.4	64QAM	6	0	19.07	18.97	19.05	
1.4	256QAM	1	0	19.06	18.82	18.91	19.4
1.4	256QAM	1	3	18.69	18.83	18.67	
1.4	256QAM	1	5	18.69	18.64	18.69	
1.4	256QAM	3	0	18.56	18.60	18.36	
1.4	256QAM	3	1	18.32	18.49	18.67	
1.4	256QAM	3	3	18.54	18.35	18.54	19.4
1.4	256QAM	6	0	18.49	18.59	18.57	



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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)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	21.07	21.18	21.03	
20	QPSK	1	49	20.79	20.84	20.88	21.6
20	QPSK	1	99	20.76	20.88	20.71	
20	QPSK	50	0	21.01	21.02	20.93	
20	QPSK	50	24	20.92	20.91	20.93	21.6
20	QPSK	50	50	20.89	20.88	20.70	
20	QPSK	100	0	20.89	21.00	20.87	
20	16QAM	1	0	20.89	20.88	20.81	21.6
20	16QAM	1	49	20.66	20.60	20.51	
20	16QAM	1	99	20.65	20.70	20.45	
20	16QAM	50	0	20.88	20.99	20.82	21.6
20	16QAM	50	24	20.91	20.87	20.81	
20	16QAM	50	50	20.69	20.80	20.87	
20	16QAM	100	0	20.84	20.82	20.81	21.6
20	64QAM	1	0	21.07	21.15	21.09	
20	64QAM	1	49	20.99	21.00	20.87	
20	64QAM	1	99	20.85	21.15	21.02	21.6
20	64QAM	50	0	20.82	20.89	20.87	
20	64QAM	50	24	20.77	20.78	20.79	
20	64QAM	50	50	20.68	20.69	20.76	21.6
20	64QAM	100	0	20.78	20.70	20.66	
20	256QAM	1	0	19.71	19.81	19.80	
20	256QAM	1	49	19.59	19.76	19.63	20.6
20	256QAM	1	99	19.62	19.55	19.55	
20	256QAM	50	0	19.53	19.52	19.61	
20	256QAM	50	24	19.49	19.61	19.35	20.6
20	256QAM	50	50	19.51	19.38	19.31	
20	256QAM	100	0	19.46	19.49	19.44	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	20.85	20.94	20.97	
15	QPSK	1	37	20.73	20.92	20.88	21.6
15	QPSK	1	74	20.84	20.87	20.58	
15	QPSK	36	0	20.86	20.73	20.80	
15	QPSK	36	20	20.89	20.85	20.62	21.6
15	QPSK	36	39	20.65	20.74	20.60	
15	QPSK	75	0	20.92	20.89	20.76	
15	16QAM	1	0	20.82	20.70	20.58	21.6
15	16QAM	1	37	20.50	20.49	20.61	
15	16QAM	1	74	20.73	20.63	20.44	
15	16QAM	36	0	20.82	20.96	20.79	21.6
15	16QAM	36	20	20.73	20.61	20.67	
15	16QAM	36	39	20.77	20.55	20.78	
15	16QAM	75	0	20.64	20.62	20.81	21.6
15	64QAM	1	0	21.05	21.09	20.92	
15	64QAM	1	37	20.77	20.87	20.79	
15	64QAM	1	74	20.84	20.89	20.99	21.6
15	64QAM	36	0	20.79	20.64	20.54	
15	64QAM	36	20	20.66	20.76	20.75	
15	64QAM	36	39	20.47	20.54	20.53	21.6
15	64QAM	75	0	20.75	20.78	20.75	
15	256QAM	1	0	19.63	19.70	19.63	
15	256QAM	1	37	19.64	19.61	19.45	20.6
15	256QAM	1	74	19.51	19.63	19.42	
15	256QAM	36	0	19.52	19.34	19.47	
15	256QAM	36	20	19.33	19.56	19.28	20.6



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15	256QAM	36	39	19.32	19.28	19.26	Tune-up limit (dBm)
15	256QAM	75	0	19.43	19.45	19.41	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	20.98	20.92	20.96	21.6
10	QPSK	1	25	20.86	20.85	20.83	
10	QPSK	1	49	20.81	20.69	20.78	
10	QPSK	25	0	20.84	20.92	20.72	21.6
10	QPSK	25	12	20.79	20.80	20.72	
10	QPSK	25	25	20.80	20.85	20.70	
10	QPSK	50	0	20.86	20.76	20.80	
10	16QAM	1	0	20.57	20.63	20.68	21.6
10	16QAM	1	25	20.55	20.60	20.42	
10	16QAM	1	49	20.48	20.60	20.45	
10	16QAM	25	0	20.78	20.88	20.79	21.6
10	16QAM	25	12	20.78	20.84	20.69	
10	16QAM	25	25	20.65	20.64	20.77	
10	16QAM	50	0	20.85	20.78	20.73	
10	64QAM	1	0	21.00	21.13	20.92	21.6
10	64QAM	1	25	20.80	20.98	20.76	
10	64QAM	1	49	20.88	21.04	20.90	
10	64QAM	25	0	20.61	20.71	20.73	21.6
10	64QAM	25	12	20.73	20.82	20.51	
10	64QAM	25	25	20.69	20.60	20.58	
10	64QAM	50	0	20.59	20.75	20.58	
10	256QAM	1	0	19.76	19.61	19.67	20.6
10	256QAM	1	25	19.45	19.68	19.41	
10	256QAM	1	49	19.65	19.60	19.43	
10	256QAM	25	0	19.47	19.30	19.40	
10	256QAM	25	12	19.31	19.44	19.24	20.6
10	256QAM	25	25	19.40	19.38	19.25	
10	256QAM	50	0	19.64	19.40	19.10	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	21.00	21.03	21.07	21.6
5	QPSK	1	12	20.62	20.70	20.88	
5	QPSK	1	24	20.72	20.72	20.60	
5	QPSK	12	0	21.06	20.74	21.01	21.6
5	QPSK	12	7	20.91	20.85	20.68	
5	QPSK	12	13	20.64	20.84	20.82	
5	QPSK	25	0	20.69	20.89	20.73	
5	16QAM	1	0	20.58	20.74	20.61	21.6
5	16QAM	1	12	20.47	20.54	20.48	
5	16QAM	1	24	20.45	20.50	20.45	
5	16QAM	12	0	20.71	20.80	20.74	21.6
5	16QAM	12	7	20.74	20.73	20.79	
5	16QAM	12	13	20.64	20.70	20.72	
5	16QAM	25	0	20.87	20.83	20.84	
5	64QAM	1	0	20.90	21.14	21.02	21.6
5	64QAM	1	12	20.75	20.88	20.85	
5	64QAM	1	24	20.98	20.92	20.65	
5	64QAM	12	0	20.62	20.82	20.60	21.6
5	64QAM	12	7	20.66	20.72	20.64	
5	64QAM	12	13	20.59	20.53	20.65	
5	64QAM	25	0	20.84	20.60	20.64	
5	256QAM	1	0	19.77	19.78	19.68	20.6
5	256QAM	1	12	19.61	19.62	19.41	
5	256QAM	1	24	19.54	19.55	19.26	
5	256QAM	12	0	19.46	19.47	19.56	20.6
5	256QAM	12	7	19.49	19.31	19.38	
5	256QAM	12	13	19.37	19.42	19.32	
5	256QAM	25	0	19.42	19.16	19.12	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	21.03	20.82	20.95	21.6
3	QPSK	1	8	20.74	20.85	20.81	
3	QPSK	1	14	20.63	20.77	20.50	
3	QPSK	8	0	20.89	21.02	20.78	21.6
3	QPSK	8	4	20.96	20.78	20.62	
3	QPSK	8	7	20.57	20.79	20.71	
3	QPSK	15	0	21.00	20.81	20.80	21.6
3	16QAM	1	0	20.88	20.67	20.75	
3	16QAM	1	8	20.59	20.45	20.43	
3	16QAM	1	14	20.57	20.47	20.48	21.6
3	16QAM	8	0	20.81	20.64	20.69	
3	16QAM	8	4	20.66	20.74	20.85	
3	16QAM	8	7	20.71	20.61	20.71	21.6
3	16QAM	15	0	20.65	20.80	20.68	
3	64QAM	1	0	21.06	21.11	21.09	
3	64QAM	1	8	20.98	20.82	20.88	21.6
3	64QAM	1	14	20.68	20.84	20.78	
3	64QAM	8	0	20.76	20.67	20.58	
3	64QAM	8	4	20.76	20.74	20.58	21.6
3	64QAM	8	7	20.75	20.63	20.60	
3	64QAM	15	0	20.70	20.67	20.71	
3	256QAM	1	0	19.63	19.78	19.49	20.6
3	256QAM	1	8	19.49	19.49	19.59	
3	256QAM	1	14	19.47	19.43	19.38	
3	256QAM	8	0	19.55	19.32	19.27	20.6
3	256QAM	8	4	19.29	19.31	19.41	
3	256QAM	8	7	19.43	19.45	19.33	
3	256QAM	15	0	19.48	19.28	19.23	Tune-up limit (dBm)
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	21.6
1.4	QPSK	1	0	21.10	21.02	21.13	
1.4	QPSK	1	3	20.69	20.92	20.78	
1.4	QPSK	1	5	20.68	20.72	20.56	21.6
1.4	QPSK	3	0	21.13	20.89	20.94	
1.4	QPSK	3	1	20.82	20.68	20.89	
1.4	QPSK	3	3	20.77	20.71	20.47	21.6
1.4	QPSK	6	0	20.94	20.83	20.94	
1.4	16QAM	1	0	20.73	20.67	20.79	
1.4	16QAM	1	3	20.67	20.80	20.77	21.6
1.4	16QAM	1	5	20.87	20.88	20.83	
1.4	16QAM	3	0	20.84	20.68	20.83	
1.4	16QAM	3	1	20.63	20.65	20.64	21.6
1.4	16QAM	3	3	20.76	20.79	20.51	
1.4	16QAM	6	0	20.87	20.79	20.63	
1.4	64QAM	1	0	20.73	20.71	20.54	21.6
1.4	64QAM	1	3	20.61	20.91	20.64	
1.4	64QAM	1	5	20.58	20.80	20.71	
1.4	64QAM	3	0	20.96	21.03	21.03	21.6
1.4	64QAM	3	1	20.81	20.94	20.90	
1.4	64QAM	3	3	20.80	20.98	20.86	
1.4	64QAM	6	0	20.67	20.63	20.70	20.6
1.4	256QAM	1	0	19.60	19.67	19.66	
1.4	256QAM	1	3	19.53	19.60	19.48	
1.4	256QAM	1	5	19.54	19.67	19.24	20.6
1.4	256QAM	3	0	19.43	19.29	19.42	
1.4	256QAM	3	1	19.30	19.45	19.31	
1.4	256QAM	3	3	19.33	19.48	19.39	20.6
1.4	256QAM	6	0	19.46	19.39	19.31	



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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)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	19.06	19.07	19.05	20
20	QPSK	1	49	18.92	18.96	18.92	
20	QPSK	1	99	18.86	18.86	18.82	
20	QPSK	50	0	18.99	19.00	18.98	20
20	QPSK	50	24	18.94	18.97	18.91	
20	QPSK	50	50	18.89	18.91	18.87	
20	QPSK	100	0	18.92	18.93	18.88	
20	16QAM	1	0	18.92	18.98	18.96	20
20	16QAM	1	49	18.81	18.84	18.85	
20	16QAM	1	99	18.81	18.83	18.86	
20	16QAM	50	0	18.98	19.01	18.97	20
20	16QAM	50	24	18.94	18.97	18.95	
20	16QAM	50	50	18.88	18.91	18.89	
20	16QAM	100	0	18.95	18.97	18.92	
20	64QAM	1	0	18.89	18.91	18.95	20
20	64QAM	1	49	18.83	18.84	18.83	
20	64QAM	1	99	18.77	18.89	18.86	
20	64QAM	50	0	19.03	19.03	19.00	20
20	64QAM	50	24	18.97	19.02	18.98	
20	64QAM	50	50	18.90	18.92	18.91	
20	64QAM	100	0	18.94	18.97	18.94	
20	256QAM	1	0	18.76	18.79	18.90	20
20	256QAM	1	49	18.87	18.75	18.76	
20	256QAM	1	99	18.64	18.75	18.59	
20	256QAM	50	0	18.68	18.61	18.55	20
20	256QAM	50	24	18.53	18.66	18.70	
20	256QAM	50	50	18.34	18.53	18.54	
20	256QAM	100	0	18.51	18.55	18.52	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	18.99	18.97	18.90	20
15	QPSK	1	37	18.83	18.92	18.84	
15	QPSK	1	74	18.79	18.71	18.76	
15	QPSK	36	0	18.79	18.90	18.91	20
15	QPSK	36	20	18.81	18.95	18.80	
15	QPSK	36	39	18.81	18.72	18.67	
15	QPSK	75	0	18.86	18.92	18.77	
15	16QAM	1	0	18.78	18.81	18.93	20
15	16QAM	1	37	18.75	18.76	18.78	
15	16QAM	1	74	18.61	18.81	18.85	
15	16QAM	36	0	18.83	18.97	18.87	20
15	16QAM	36	20	18.94	18.95	18.79	
15	16QAM	36	39	18.80	18.86	18.79	
15	16QAM	75	0	18.91	18.77	18.81	
15	64QAM	1	0	18.69	18.82	18.91	20
15	64QAM	1	37	18.67	18.82	18.65	
15	64QAM	1	74	18.70	18.73	18.70	
15	64QAM	36	0	18.93	18.83	18.89	20
15	64QAM	36	20	18.90	18.86	18.90	
15	64QAM	36	39	18.78	18.81	18.71	
15	64QAM	75	0	18.90	18.92	18.80	
15	256QAM	1	0	18.68	18.76	18.70	20
15	256QAM	1	37	18.77	18.70	18.71	
15	256QAM	1	74	18.54	18.61	18.56	
15	256QAM	36	0	18.48	18.57	18.36	20
15	256QAM	36	20	18.44	18.51	18.70	



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15	256QAM	36	39	18.26	18.43	18.51	
15	256QAM	75	0	18.34	18.38	18.41	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	19.04	18.93	18.86	20
10	QPSK	1	25	18.92	18.94	18.90	
10	QPSK	1	49	18.76	18.68	18.68	
10	QPSK	25	0	18.81	18.87	18.90	20
10	QPSK	25	12	18.84	18.96	18.80	
10	QPSK	25	25	18.71	18.80	18.87	
10	QPSK	50	0	18.87	18.88	18.85	
10	16QAM	1	0	18.92	18.91	18.78	20
10	16QAM	1	25	18.74	18.83	18.73	
10	16QAM	1	49	18.81	18.66	18.74	
10	16QAM	25	0	18.85	19.01	18.95	20
10	16QAM	25	12	18.80	18.91	18.91	
10	16QAM	25	25	18.73	18.89	18.76	
10	16QAM	50	0	18.94	18.91	18.78	
10	64QAM	1	0	18.70	18.86	18.84	20
10	64QAM	1	25	18.71	18.67	18.76	
10	64QAM	1	49	18.57	18.72	18.80	
10	64QAM	25	0	18.95	19.01	18.83	20
10	64QAM	25	12	18.93	18.83	18.83	
10	64QAM	25	25	18.75	18.75	18.75	
10	64QAM	50	0	18.82	18.94	18.91	
10	256QAM	1	0	18.73	18.76	18.77	20
10	256QAM	1	25	18.69	18.65	18.76	
10	256QAM	1	49	18.59	18.62	18.40	
10	256QAM	25	0	18.63	18.53	18.35	20
10	256QAM	25	12	18.38	18.53	18.53	
10	256QAM	25	25	18.17	18.35	18.45	
10	256QAM	50	0	18.51	18.52	18.44	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	18.97	18.92	18.86	20
5	QPSK	1	12	18.72	18.91	18.78	
5	QPSK	1	24	18.66	18.70	18.82	
5	QPSK	12	0	18.96	18.89	18.81	20
5	QPSK	12	7	18.90	18.78	18.77	
5	QPSK	12	13	18.71	18.71	18.84	
5	QPSK	25	0	18.76	18.88	18.77	
5	16QAM	1	0	18.84	18.81	18.87	20
5	16QAM	1	12	18.67	18.70	18.78	
5	16QAM	1	24	18.68	18.76	18.81	
5	16QAM	12	0	18.83	18.90	18.79	20
5	16QAM	12	7	18.81	18.78	18.93	
5	16QAM	12	13	18.84	18.89	18.69	
5	16QAM	25	0	18.93	18.91	18.86	
5	64QAM	1	0	18.69	18.76	18.94	20
5	64QAM	1	12	18.64	18.76	18.75	
5	64QAM	1	24	18.62	18.76	18.85	
5	64QAM	12	0	18.93	18.86	18.92	20
5	64QAM	12	7	18.85	18.99	18.89	
5	64QAM	12	13	18.80	18.78	18.72	
5	64QAM	25	0	18.76	18.79	18.79	
5	256QAM	1	0	18.72	18.75	18.74	20
5	256QAM	1	12	18.85	18.72	18.68	
5	256QAM	1	24	18.59	18.58	18.44	
5	256QAM	12	0	18.54	18.61	18.38	20
5	256QAM	12	7	18.51	18.53	18.56	
5	256QAM	12	13	18.22	18.37	18.40	
5	256QAM	25	0	18.40	18.48	18.47	



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Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	18.87	18.90	18.95	20
3	QPSK	1	8	18.84	18.83	18.81	
3	QPSK	1	14	18.66	18.78	18.73	
3	QPSK	8	0	18.89	18.81	18.85	20
3	QPSK	8	4	18.84	18.81	18.79	
3	QPSK	8	7	18.72	18.88	18.67	
3	QPSK	15	0	18.89	18.80	18.76	
3	16QAM	1	0	18.79	18.84	18.84	20
3	16QAM	1	8	18.77	18.71	18.84	
3	16QAM	1	14	18.63	18.64	18.68	
3	16QAM	8	0	18.79	18.98	18.92	20
3	16QAM	8	4	18.83	18.83	18.76	
3	16QAM	8	7	18.77	18.81	18.81	
3	16QAM	15	0	18.83	18.97	18.90	
3	64QAM	1	0	18.74	18.87	18.75	20
3	64QAM	1	8	18.78	18.82	18.75	
3	64QAM	1	14	18.65	18.69	18.79	
3	64QAM	8	0	19.01	18.89	18.80	20
3	64QAM	8	4	18.87	18.86	18.96	
3	64QAM	8	7	18.87	18.82	18.76	
3	64QAM	15	0	18.81	18.83	18.78	
3	256QAM	1	0	18.62	18.69	18.80	20
3	256QAM	1	8	18.76	18.65	18.64	
3	256QAM	1	14	18.64	18.75	18.53	
3	256QAM	8	0	18.60	18.53	18.36	20
3	256QAM	8	4	18.51	18.47	18.54	
3	256QAM	8	7	18.32	18.50	18.48	
3	256QAM	15	0	18.49	18.37	18.40	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	18.96	18.91	18.90	20
1.4	QPSK	1	3	18.79	18.93	18.73	
1.4	QPSK	1	5	18.66	18.71	18.64	
1.4	QPSK	3	0	18.93	18.94	18.78	
1.4	QPSK	3	1	18.90	18.93	18.83	
1.4	QPSK	3	3	18.74	18.76	18.71	
1.4	QPSK	6	0	18.85	18.93	18.70	20
1.4	16QAM	1	0	18.82	18.86	18.83	20
1.4	16QAM	1	3	18.81	18.83	18.70	
1.4	16QAM	1	5	18.64	18.72	18.83	
1.4	16QAM	3	0	18.92	18.92	18.80	
1.4	16QAM	3	1	18.74	18.85	18.87	
1.4	16QAM	3	3	18.74	18.85	18.81	20
1.4	16QAM	6	0	18.86	18.90	18.80	
1.4	64QAM	1	0	18.81	18.74	18.90	20
1.4	64QAM	1	3	18.70	18.64	18.78	
1.4	64QAM	1	5	18.76	18.83	18.85	
1.4	64QAM	3	0	18.90	18.91	18.89	
1.4	64QAM	3	1	18.88	18.95	18.87	
1.4	64QAM	3	3	18.71	18.86	18.88	20
1.4	64QAM	6	0	18.75	18.91	18.90	
1.4	256QAM	1	0	18.58	18.77	18.72	20
1.4	256QAM	1	3	18.75	18.64	18.66	
1.4	256QAM	1	5	18.44	18.60	18.45	
1.4	256QAM	3	0	18.64	18.47	18.40	
1.4	256QAM	3	1	18.35	18.63	18.69	
1.4	256QAM	3	3	18.15	18.45	18.53	20
1.4	256QAM	6	0	18.47	18.48	18.51	



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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)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	22.05	22.11	22.10	
20	QPSK	1	49	22.02	22.02	22.01	23.1
20	QPSK	1	99	21.90	21.95	21.91	
20	QPSK	50	0	22.03	22.11	22.07	
20	QPSK	50	24	21.97	22.08	22.03	23.1
20	QPSK	50	50	21.92	22.02	21.98	
20	QPSK	100	0	21.98	22.04	22.03	
20	16QAM	1	0	21.94	22.03	22.06	23.1
20	16QAM	1	49	21.83	21.91	21.90	
20	16QAM	1	99	21.89	21.86	21.80	
20	16QAM	50	0	21.62	21.65	21.65	23.1
20	16QAM	50	24	21.57	21.66	21.61	
20	16QAM	50	50	21.52	21.60	21.59	
20	16QAM	100	0	21.59	21.66	21.61	23.1
20	64QAM	1	0	21.88	21.94	21.87	
20	64QAM	1	49	21.83	21.82	21.86	
20	64QAM	1	99	21.85	21.79	21.79	22.6
20	64QAM	50	0	21.65	21.69	21.67	
20	64QAM	50	24	21.60	21.65	21.64	
20	64QAM	50	50	21.56	21.59	21.58	20.6
20	64QAM	100	0	21.63	21.65	21.61	
20	256QAM	1	0	20.10	20.14	20.07	
20	256QAM	1	49	20.18	20.04	20.13	20.6
20	256QAM	1	99	20.06	20.11	19.90	
20	256QAM	50	0	19.85	19.96	19.94	
20	256QAM	50	24	19.93	19.83	19.86	20.6
20	256QAM	50	50	19.87	19.85	19.90	
20	256QAM	100	0	19.91	19.97	19.77	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	21.88	21.95	22.02	
15	QPSK	1	37	21.94	21.84	21.85	23.1
15	QPSK	1	74	21.73	21.75	21.86	
15	QPSK	36	0	21.83	22.04	21.93	
15	QPSK	36	20	21.83	21.96	21.84	23.1
15	QPSK	36	39	21.72	21.84	21.95	
15	QPSK	75	0	21.93	21.91	21.84	
15	16QAM	1	0	21.82	22.03	21.92	23.1
15	16QAM	1	37	21.82	21.73	21.83	
15	16QAM	1	74	21.77	21.66	21.66	
15	16QAM	36	0	21.58	21.55	21.55	23.1
15	16QAM	36	20	21.42	21.63	21.47	
15	16QAM	36	39	21.49	21.46	21.49	
15	16QAM	75	0	21.55	21.59	21.58	23.1
15	64QAM	1	0	21.84	21.94	21.72	
15	64QAM	1	37	21.78	21.65	21.70	
15	64QAM	1	74	21.82	21.66	21.77	22.6
15	64QAM	36	0	21.63	21.52	21.63	
15	64QAM	36	20	21.59	21.55	21.53	
15	64QAM	36	39	21.48	21.49	21.53	20.6
15	64QAM	75	0	21.62	21.47	21.60	
15	256QAM	1	0	19.91	20.12	19.91	
15	256QAM	1	37	20.01	19.88	19.97	20.6
15	256QAM	1	74	19.88	20.07	19.88	
15	256QAM	36	0	19.69	19.84	19.80	
15	256QAM	36	20	19.79	19.82	19.72	



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15	256QAM	36	39	19.72	19.70	19.90	Tune-up limit (dBm)
15	256QAM	75	0	19.84	19.78	19.74	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	21.94	21.92	22.03	23.1
10	QPSK	1	25	21.92	21.92	21.85	
10	QPSK	1	49	21.87	21.81	21.79	
10	QPSK	25	0	21.84	22.11	21.92	23.1
10	QPSK	25	12	21.84	21.97	21.91	
10	QPSK	25	25	21.86	21.93	21.88	
10	QPSK	50	0	21.79	21.91	21.96	
10	16QAM	1	0	21.81	21.98	22.01	23.1
10	16QAM	1	25	21.71	21.78	21.72	
10	16QAM	1	49	21.87	21.68	21.61	
10	16QAM	25	0	21.44	21.63	21.51	23.1
10	16QAM	25	12	21.57	21.53	21.53	
10	16QAM	25	25	21.51	21.46	21.57	
10	16QAM	50	0	21.57	21.55	21.48	
10	64QAM	1	0	21.84	21.78	21.87	23.1
10	64QAM	1	25	21.64	21.73	21.83	
10	64QAM	1	49	21.66	21.64	21.62	
10	64QAM	25	0	21.50	21.58	21.50	22.6
10	64QAM	25	12	21.57	21.59	21.50	
10	64QAM	25	25	21.38	21.54	21.56	
10	64QAM	50	0	21.58	21.47	21.60	
10	256QAM	1	0	20.09	20.11	19.89	20.6
10	256QAM	1	25	20.05	19.91	20.05	
10	256QAM	1	49	19.93	19.98	19.88	
10	256QAM	25	0	19.76	19.80	19.74	20.6
10	256QAM	25	12	19.89	19.77	19.85	
10	256QAM	25	25	19.78	19.83	19.71	
10	256QAM	50	0	19.81	19.94	19.58	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	22.02	22.05	21.91	23.1
5	QPSK	1	12	22.00	21.90	21.85	
5	QPSK	1	24	21.74	21.95	21.91	
5	QPSK	12	0	21.98	21.97	21.87	23.1
5	QPSK	12	7	21.81	21.89	22.01	
5	QPSK	12	13	21.83	21.85	21.98	
5	QPSK	25	0	21.92	21.99	21.98	
5	16QAM	1	0	21.77	21.87	22.05	23.1
5	16QAM	1	12	21.67	21.90	21.80	
5	16QAM	1	24	21.79	21.86	21.75	
5	16QAM	12	0	21.62	21.60	21.53	23.1
5	16QAM	12	7	21.46	21.56	21.45	
5	16QAM	12	13	21.36	21.53	21.41	
5	16QAM	25	0	21.42	21.64	21.43	
5	64QAM	1	0	21.87	21.87	21.87	23.1
5	64QAM	1	12	21.82	21.62	21.66	
5	64QAM	1	24	21.80	21.63	21.64	
5	64QAM	12	0	21.53	21.61	21.50	22.6
5	64QAM	12	7	21.50	21.65	21.60	
5	64QAM	12	13	21.50	21.46	21.54	
5	64QAM	25	0	21.58	21.60	21.43	
5	256QAM	1	0	20.09	20.01	20.01	20.6
5	256QAM	1	12	20.14	20.02	20.00	
5	256QAM	1	24	19.88	19.91	19.84	
5	256QAM	12	0	19.71	19.78	19.88	20.6
5	256QAM	12	7	19.81	19.77	19.73	
5	256QAM	12	13	19.68	19.66	19.73	
5	256QAM	25	0	19.77	19.82	19.59	



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Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	21.98	22.05	21.90	23.1
3	QPSK	1	8	21.99	21.82	21.89	
3	QPSK	1	14	21.70	21.75	21.89	
3	QPSK	8	0	21.89	22.06	21.96	23.1
3	QPSK	8	4	21.91	22.01	21.93	
3	QPSK	8	7	21.77	21.88	21.98	
3	QPSK	15	0	21.92	21.99	21.96	
3	16QAM	1	0	21.81	21.91	22.00	23.1
3	16QAM	1	8	21.68	21.81	21.87	
3	16QAM	1	14	21.70	21.69	21.63	
3	16QAM	8	0	21.54	21.63	21.56	23.1
3	16QAM	8	4	21.54	21.64	21.59	
3	16QAM	8	7	21.46	21.46	21.56	
3	16QAM	15	0	21.47	21.50	21.46	
3	64QAM	1	0	21.74	21.79	21.75	23.1
3	64QAM	1	8	21.66	21.63	21.82	
3	64QAM	1	14	21.69	21.72	21.64	
3	64QAM	8	0	21.45	21.64	21.50	22.6
3	64QAM	8	4	21.58	21.59	21.51	
3	64QAM	8	7	21.52	21.53	21.58	
3	64QAM	15	0	21.45	21.49	21.61	
3	256QAM	1	0	20.07	20.04	19.88	20.6
3	256QAM	1	8	20.05	19.91	20.04	
3	256QAM	1	14	19.94	19.91	19.79	
3	256QAM	8	0	19.74	19.83	19.84	20.6
3	256QAM	8	4	19.82	19.73	19.73	
3	256QAM	8	7	19.72	19.84	19.71	
3	256QAM	15	0	19.87	19.94	19.73	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	21.98	21.91	21.99	23.1
1.4	QPSK	1	3	21.82	22.01	21.81	
1.4	QPSK	1	5	21.80	21.87	21.72	
1.4	QPSK	3	0	22.00	22.03	22.02	
1.4	QPSK	3	1	21.96	21.93	21.86	
1.4	QPSK	3	3	21.88	21.98	21.82	
1.4	QPSK	6	0	21.86	21.89	22.03	23.1
1.4	16QAM	1	0	21.85	21.83	21.99	23.1
1.4	16QAM	1	3	21.79	21.87	21.87	
1.4	16QAM	1	5	21.89	21.77	21.77	
1.4	16QAM	3	0	21.52	21.65	21.55	
1.4	16QAM	3	1	21.50	21.52	21.60	
1.4	16QAM	3	3	21.33	21.56	21.56	
1.4	16QAM	6	0	21.51	21.66	21.41	23.1
1.4	64QAM	1	0	21.74	21.91	21.83	23.1
1.4	64QAM	1	3	21.78	21.69	21.73	
1.4	64QAM	1	5	21.85	21.69	21.65	
1.4	64QAM	3	0	21.52	21.53	21.53	
1.4	64QAM	3	1	21.47	21.47	21.44	
1.4	64QAM	3	3	21.37	21.44	21.44	
1.4	64QAM	6	0	21.62	21.52	21.44	22.6
1.4	256QAM	1	0	20.03	19.98	20.04	20.6
1.4	256QAM	1	3	20.00	19.96	20.03	
1.4	256QAM	1	5	20.05	19.97	19.84	
1.4	256QAM	3	0	19.66	19.94	19.77	
1.4	256QAM	3	1	19.79	19.82	19.81	
1.4	256QAM	3	3	19.77	19.67	19.86	
1.4	256QAM	6	0	19.81	19.80	19.61	20.6



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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)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	19.17	19.21	19.20	
20	QPSK	1	49	19.06	19.10	19.03	20.2
20	QPSK	1	99	18.98	18.98	18.98	
20	QPSK	50	0	19.17	19.19	19.15	
20	QPSK	50	24	19.13	19.13	19.12	20.2
20	QPSK	50	50	19.08	19.09	19.03	
20	QPSK	100	0	19.14	19.16	19.11	
20	16QAM	1	0	19.14	19.05	19.15	20.2
20	16QAM	1	49	18.95	18.91	18.98	
20	16QAM	1	99	18.93	18.88	18.95	
20	16QAM	50	0	19.15	19.15	19.17	20.2
20	16QAM	50	24	19.10	19.11	19.13	
20	16QAM	50	50	19.06	19.07	19.09	
20	16QAM	100	0	19.15	19.12	19.10	20.2
20	64QAM	1	0	19.05	19.16	19.07	
20	64QAM	1	49	18.97	18.98	19.09	
20	64QAM	1	99	18.87	18.94	18.98	20.2
20	64QAM	50	0	19.19	19.15	19.17	
20	64QAM	50	24	19.12	19.11	19.13	
20	64QAM	50	50	19.06	19.07	19.09	20.2
20	64QAM	100	0	19.12	19.12	19.12	
20	256QAM	1	0	19.10	18.98	19.08	
20	256QAM	1	49	18.73	18.85	18.78	20.2
20	256QAM	1	99	18.76	18.82	18.76	
20	256QAM	50	0	18.65	18.61	18.51	
20	256QAM	50	24	18.49	18.65	18.76	20.2
20	256QAM	50	50	18.63	18.53	18.62	
20	256QAM	100	0	18.55	18.59	18.59	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	19.05	19.01	19.16	
15	QPSK	1	37	18.86	19.10	19.02	20.2
15	QPSK	1	74	18.86	18.79	18.82	
15	QPSK	36	0	19.14	19.10	19.13	
15	QPSK	36	20	19.02	19.08	18.92	20.2
15	QPSK	36	39	18.90	19.04	19.00	
15	QPSK	75	0	19.08	19.11	19.02	
15	16QAM	1	0	19.06	18.85	19.12	20.2
15	16QAM	1	37	18.94	18.72	18.79	
15	16QAM	1	74	18.91	18.74	18.89	
15	16QAM	36	0	19.14	18.99	19.13	20.2
15	16QAM	36	20	18.95	18.91	18.95	
15	16QAM	36	39	19.06	19.01	19.09	
15	16QAM	75	0	18.98	19.06	19.10	20.2
15	64QAM	1	0	18.95	18.97	18.88	
15	64QAM	1	37	18.90	18.81	18.99	
15	64QAM	1	74	18.73	18.87	18.78	20.2
15	64QAM	36	0	18.99	19.00	19.00	
15	64QAM	36	20	19.04	19.06	18.96	
15	64QAM	36	39	19.04	19.02	18.94	20.2
15	64QAM	75	0	18.97	19.10	18.99	
15	256QAM	1	0	19.00	18.98	19.08	
15	256QAM	1	37	18.69	18.75	18.78	20.2
15	256QAM	1	74	18.71	18.73	18.68	
15	256QAM	36	0	18.56	18.51	18.43	
15	256QAM	36	20	18.32	18.54	18.68	20.2



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15	256QAM	36	39	18.51	18.41	18.52	Tune-up limit (dBm)
15	256QAM	75	0	18.45	18.50	18.49	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	19.14	19.03	19.09	20.2
10	QPSK	1	25	18.98	18.90	19.03	
10	QPSK	1	49	18.90	18.90	18.98	
10	QPSK	25	0	19.09	19.02	19.03	20.2
10	QPSK	25	12	18.95	19.01	19.10	
10	QPSK	25	25	18.97	19.05	19.00	
10	QPSK	50	0	19.14	19.05	19.06	
10	16QAM	1	0	19.09	19.04	19.13	20.2
10	16QAM	1	25	18.92	18.79	18.89	
10	16QAM	1	49	18.75	18.72	18.76	
10	16QAM	25	0	19.04	19.04	19.09	20.2
10	16QAM	25	12	18.90	18.96	19.07	
10	16QAM	25	25	18.92	18.88	19.01	
10	16QAM	50	0	19.13	19.01	19.00	
10	64QAM	1	0	18.89	19.02	19.00	20.2
10	64QAM	1	25	18.84	18.87	18.98	
10	64QAM	1	49	18.82	18.88	18.78	
10	64QAM	25	0	19.17	18.95	19.16	20.2
10	64QAM	25	12	18.93	18.97	18.94	
10	64QAM	25	25	19.01	19.07	18.93	
10	64QAM	50	0	19.09	18.94	18.98	
10	256QAM	1	0	19.10	18.87	18.93	20.2
10	256QAM	1	25	18.64	18.85	18.76	
10	256QAM	1	49	18.70	18.67	18.74	
10	256QAM	25	0	18.60	18.61	18.36	20.2
10	256QAM	25	12	18.31	18.64	18.63	
10	256QAM	25	25	18.46	18.51	18.43	
10	256QAM	50	0	18.44	18.40	18.39	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	19.00	19.02	19.15	20.2
5	QPSK	1	12	19.06	19.03	18.98	
5	QPSK	1	24	18.92	18.81	18.90	
5	QPSK	12	0	19.06	19.10	19.07	20.2
5	QPSK	12	7	18.93	18.93	19.02	
5	QPSK	12	13	19.08	19.04	18.88	
5	QPSK	25	0	19.00	19.09	18.97	
5	16QAM	1	0	19.02	18.89	19.04	20.2
5	16QAM	1	12	18.93	18.80	18.84	
5	16QAM	1	24	18.78	18.81	18.80	
5	16QAM	12	0	19.13	19.14	19.08	20.2
5	16QAM	12	7	19.09	18.95	18.95	
5	16QAM	12	13	18.98	19.00	19.05	
5	16QAM	25	0	19.05	18.99	19.02	
5	64QAM	1	0	18.93	19.15	19.04	20.2
5	64QAM	1	12	18.85	18.82	19.05	
5	64QAM	1	24	18.78	18.84	18.90	
5	64QAM	12	0	19.01	19.05	18.99	20.2
5	64QAM	12	7	19.08	18.91	19.08	
5	64QAM	12	13	18.88	18.96	18.91	
5	64QAM	25	0	18.98	19.11	19.00	
5	256QAM	1	0	18.92	18.96	18.96	20.2
5	256QAM	1	12	18.53	18.78	18.62	
5	256QAM	1	24	18.57	18.71	18.65	
5	256QAM	12	0	18.54	18.57	18.38	20.2
5	256QAM	12	7	18.32	18.61	18.57	
5	256QAM	12	13	18.54	18.50	18.61	
5	256QAM	25	0	18.48	18.57	18.56	



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Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	19.08	19.05	19.07	20.2
3	QPSK	1	8	18.88	18.93	19.01	
3	QPSK	1	14	18.92	18.98	18.80	
3	QPSK	8	0	19.02	19.17	19.14	20.2
3	QPSK	8	4	18.93	19.03	18.96	
3	QPSK	8	7	18.99	19.04	18.83	
3	QPSK	15	0	18.98	19.15	19.00	
3	16QAM	1	0	19.11	19.03	18.97	20.2
3	16QAM	1	8	18.81	18.91	18.83	
3	16QAM	1	14	18.82	18.85	18.79	
3	16QAM	8	0	18.97	18.99	19.06	20.2
3	16QAM	8	4	19.03	19.08	19.07	
3	16QAM	8	7	18.89	19.01	18.96	
3	16QAM	15	0	19.04	19.04	18.95	
3	64QAM	1	0	18.88	18.98	19.06	20.2
3	64QAM	1	8	18.86	18.82	18.93	
3	64QAM	1	14	18.73	18.94	18.84	
3	64QAM	8	0	19.07	19.12	19.02	20.2
3	64QAM	8	4	19.03	19.07	19.06	
3	64QAM	8	7	18.97	19.01	19.04	
3	64QAM	15	0	18.99	18.94	19.06	
3	256QAM	1	0	19.00	18.78	19.03	20.2
3	256QAM	1	8	18.56	18.68	18.62	
3	256QAM	1	14	18.59	18.75	18.71	
3	256QAM	8	0	18.60	18.57	18.47	20.2
3	256QAM	8	4	18.42	18.65	18.67	
3	256QAM	8	7	18.54	18.39	18.55	
3	256QAM	15	0	18.50	18.39	18.59	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	19.04	19.17	19.15	20.2
1.4	QPSK	1	3	18.86	19.01	18.97	
1.4	QPSK	1	5	18.88	18.87	18.83	
1.4	QPSK	3	0	19.06	19.11	18.99	
1.4	QPSK	3	1	19.00	19.07	19.09	
1.4	QPSK	3	3	18.91	18.90	18.97	
1.4	QPSK	6	0	18.99	19.07	19.01	
1.4	16QAM	1	0	19.04	18.92	18.96	20.2
1.4	16QAM	1	3	18.95	18.71	18.79	
1.4	16QAM	1	5	18.78	18.88	18.79	
1.4	16QAM	3	0	19.00	19.05	19.08	
1.4	16QAM	3	1	18.92	18.94	19.05	
1.4	16QAM	3	3	18.99	18.98	19.00	20.2
1.4	16QAM	6	0	19.15	19.02	18.91	
1.4	64QAM	1	0	18.89	19.12	19.03	20.2
1.4	64QAM	1	3	18.95	18.94	18.93	
1.4	64QAM	1	5	18.75	18.79	18.83	
1.4	64QAM	3	0	19.09	19.01	18.98	
1.4	64QAM	3	1	19.10	19.05	18.98	
1.4	64QAM	3	3	18.92	18.87	19.08	
1.4	64QAM	6	0	19.07	18.97	19.05	20.2
1.4	256QAM	1	0	19.06	18.82	18.91	20.2
1.4	256QAM	1	3	18.69	18.83	18.67	
1.4	256QAM	1	5	18.69	18.64	18.69	
1.4	256QAM	3	0	18.56	18.60	18.36	
1.4	256QAM	3	1	18.32	18.49	18.67	
1.4	256QAM	3	3	18.54	18.35	18.54	20.2
1.4	256QAM	6	0	18.49	18.59	18.57	



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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)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	21.07	21.18	21.03	
20	QPSK	1	49	20.79	20.84	20.88	22.4
20	QPSK	1	99	20.76	20.88	20.71	
20	QPSK	50	0	21.01	21.02	20.93	
20	QPSK	50	24	20.92	20.91	20.93	22.4
20	QPSK	50	50	20.89	20.88	20.70	
20	QPSK	100	0	20.89	21.00	20.87	
20	16QAM	1	0	20.89	20.88	20.81	22.4
20	16QAM	1	49	20.66	20.60	20.51	
20	16QAM	1	99	20.65	20.70	20.45	
20	16QAM	50	0	20.88	20.99	20.82	22.4
20	16QAM	50	24	20.91	20.87	20.81	
20	16QAM	50	50	20.69	20.80	20.87	
20	16QAM	100	0	20.84	20.82	20.81	22.4
20	64QAM	1	0	21.07	21.15	21.09	
20	64QAM	1	49	20.99	21.00	20.87	
20	64QAM	1	99	20.85	21.15	21.02	22.4
20	64QAM	50	0	20.82	20.89	20.87	
20	64QAM	50	24	20.77	20.78	20.79	
20	64QAM	50	50	20.68	20.69	20.76	20.6
20	64QAM	100	0	20.78	20.70	20.66	
20	256QAM	1	0	19.71	19.81	19.80	
20	256QAM	1	49	19.59	19.76	19.63	20.6
20	256QAM	1	99	19.62	19.55	19.55	
20	256QAM	50	0	19.53	19.52	19.61	
20	256QAM	50	24	19.49	19.61	19.35	20.6
20	256QAM	50	50	19.51	19.38	19.31	
20	256QAM	100	0	19.46	19.49	19.44	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	20.85	20.94	20.97	
15	QPSK	1	37	20.73	20.92	20.88	22.4
15	QPSK	1	74	20.84	20.87	20.58	
15	QPSK	36	0	20.86	20.73	20.80	
15	QPSK	36	20	20.89	20.85	20.62	22.4
15	QPSK	36	39	20.65	20.74	20.60	
15	QPSK	75	0	20.92	20.89	20.76	
15	16QAM	1	0	20.82	20.70	20.58	22.4
15	16QAM	1	37	20.50	20.49	20.61	
15	16QAM	1	74	20.73	20.63	20.44	
15	16QAM	36	0	20.82	20.96	20.79	22.4
15	16QAM	36	20	20.73	20.61	20.67	
15	16QAM	36	39	20.77	20.55	20.78	
15	16QAM	75	0	20.64	20.62	20.81	22.4
15	64QAM	1	0	21.05	21.09	20.92	
15	64QAM	1	37	20.77	20.87	20.79	
15	64QAM	1	74	20.84	20.89	20.99	22.4
15	64QAM	36	0	20.79	20.64	20.54	
15	64QAM	36	20	20.66	20.76	20.75	
15	64QAM	36	39	20.47	20.54	20.53	20.6
15	64QAM	75	0	20.75	20.78	20.75	
15	256QAM	1	0	19.63	19.70	19.63	
15	256QAM	1	37	19.64	19.61	19.45	20.6
15	256QAM	1	74	19.51	19.63	19.42	
15	256QAM	36	0	19.52	19.34	19.47	
15	256QAM	36	20	19.33	19.56	19.28	20.6



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15	256QAM	36	39	19.32	19.28	19.26	Tune-up limit (dBm)
15	256QAM	75	0	19.43	19.45	19.41	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	20.98	20.92	20.96	22.4
10	QPSK	1	25	20.86	20.85	20.83	
10	QPSK	1	49	20.81	20.69	20.78	
10	QPSK	25	0	20.84	20.92	20.72	22.4
10	QPSK	25	12	20.79	20.80	20.72	
10	QPSK	25	25	20.80	20.85	20.70	
10	QPSK	50	0	20.86	20.76	20.80	
10	16QAM	1	0	20.57	20.63	20.68	22.4
10	16QAM	1	25	20.55	20.60	20.42	
10	16QAM	1	49	20.48	20.60	20.45	
10	16QAM	25	0	20.78	20.88	20.79	22.4
10	16QAM	25	12	20.78	20.84	20.69	
10	16QAM	25	25	20.65	20.64	20.77	
10	16QAM	50	0	20.85	20.78	20.73	
10	64QAM	1	0	21.00	21.13	20.92	22.4
10	64QAM	1	25	20.80	20.98	20.76	
10	64QAM	1	49	20.88	21.04	20.90	
10	64QAM	25	0	20.61	20.71	20.73	22.4
10	64QAM	25	12	20.73	20.82	20.51	
10	64QAM	25	25	20.69	20.60	20.58	
10	64QAM	50	0	20.59	20.75	20.58	
10	256QAM	1	0	19.76	19.61	19.67	20.6
10	256QAM	1	25	19.45	19.68	19.41	
10	256QAM	1	49	19.65	19.60	19.43	
10	256QAM	25	0	19.47	19.30	19.40	20.6
10	256QAM	25	12	19.31	19.44	19.24	
10	256QAM	25	25	19.40	19.38	19.25	
10	256QAM	50	0	19.64	19.40	19.10	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	21.00	21.03	21.07	22.4
5	QPSK	1	12	20.62	20.70	20.88	
5	QPSK	1	24	20.72	20.72	20.60	
5	QPSK	12	0	21.06	20.74	21.01	22.4
5	QPSK	12	7	20.91	20.85	20.68	
5	QPSK	12	13	20.64	20.84	20.82	
5	QPSK	25	0	20.69	20.89	20.73	
5	16QAM	1	0	20.58	20.74	20.61	22.4
5	16QAM	1	12	20.47	20.54	20.48	
5	16QAM	1	24	20.45	20.50	20.45	
5	16QAM	12	0	20.71	20.80	20.74	22.4
5	16QAM	12	7	20.74	20.73	20.79	
5	16QAM	12	13	20.64	20.70	20.72	
5	16QAM	25	0	20.87	20.83	20.84	
5	64QAM	1	0	20.90	21.14	21.02	22.4
5	64QAM	1	12	20.75	20.88	20.85	
5	64QAM	1	24	20.98	20.92	20.65	
5	64QAM	12	0	20.62	20.82	20.60	22.4
5	64QAM	12	7	20.66	20.72	20.64	
5	64QAM	12	13	20.59	20.53	20.65	
5	64QAM	25	0	20.84	20.60	20.64	
5	256QAM	1	0	19.77	19.78	19.68	20.6
5	256QAM	1	12	19.61	19.62	19.41	
5	256QAM	1	24	19.54	19.55	19.26	
5	256QAM	12	0	19.46	19.47	19.56	20.6
5	256QAM	12	7	19.49	19.31	19.38	
5	256QAM	12	13	19.37	19.42	19.32	
5	256QAM	25	0	19.42	19.16	19.12	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	21.03	20.82	20.95	22.4
3	QPSK	1	8	20.74	20.85	20.81	
3	QPSK	1	14	20.63	20.77	20.50	
3	QPSK	8	0	20.89	21.02	20.78	22.4
3	QPSK	8	4	20.96	20.78	20.62	
3	QPSK	8	7	20.57	20.79	20.71	
3	QPSK	15	0	21.00	20.81	20.80	
3	16QAM	1	0	20.88	20.67	20.75	22.4
3	16QAM	1	8	20.59	20.45	20.43	
3	16QAM	1	14	20.57	20.47	20.48	
3	16QAM	8	0	20.81	20.64	20.69	22.4
3	16QAM	8	4	20.66	20.74	20.85	
3	16QAM	8	7	20.71	20.61	20.71	
3	16QAM	15	0	20.65	20.80	20.68	
3	64QAM	1	0	21.06	21.11	21.09	22.4
3	64QAM	1	8	20.98	20.82	20.88	
3	64QAM	1	14	20.68	20.84	20.78	
3	64QAM	8	0	20.76	20.67	20.58	22.4
3	64QAM	8	4	20.76	20.74	20.58	
3	64QAM	8	7	20.75	20.63	20.60	
3	64QAM	15	0	20.70	20.67	20.71	
3	256QAM	1	0	19.63	19.78	19.49	20.6
3	256QAM	1	8	19.49	19.49	19.59	
3	256QAM	1	14	19.47	19.43	19.38	
3	256QAM	8	0	19.55	19.32	19.27	20.6
3	256QAM	8	4	19.29	19.31	19.41	
3	256QAM	8	7	19.43	19.45	19.33	
3	256QAM	15	0	19.48	19.28	19.23	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	21.10	21.02	21.13	22.4
1.4	QPSK	1	3	20.69	20.92	20.78	
1.4	QPSK	1	5	20.68	20.72	20.56	
1.4	QPSK	3	0	21.13	20.89	20.94	
1.4	QPSK	3	1	20.82	20.68	20.89	
1.4	QPSK	3	3	20.77	20.71	20.47	
1.4	QPSK	6	0	20.94	20.83	20.94	
1.4	16QAM	1	0	20.73	20.67	20.79	22.4
1.4	16QAM	1	3	20.67	20.80	20.77	
1.4	16QAM	1	5	20.87	20.88	20.83	
1.4	16QAM	3	0	20.84	20.68	20.83	
1.4	16QAM	3	1	20.63	20.65	20.64	
1.4	16QAM	3	3	20.76	20.79	20.51	
1.4	16QAM	6	0	20.87	20.79	20.63	22.4
1.4	64QAM	1	0	20.73	20.71	20.54	22.4
1.4	64QAM	1	3	20.61	20.91	20.64	
1.4	64QAM	1	5	20.58	20.80	20.71	
1.4	64QAM	3	0	20.96	21.03	21.03	
1.4	64QAM	3	1	20.81	20.94	20.90	
1.4	64QAM	3	3	20.80	20.98	20.86	
1.4	64QAM	6	0	20.67	20.63	20.70	22.4
1.4	256QAM	1	0	19.60	19.67	19.66	20.6
1.4	256QAM	1	3	19.53	19.60	19.48	
1.4	256QAM	1	5	19.54	19.67	19.24	
1.4	256QAM	3	0	19.43	19.29	19.42	
1.4	256QAM	3	1	19.30	19.45	19.31	
1.4	256QAM	3	3	19.33	19.48	19.39	
1.4	256QAM	6	0	19.46	19.39	19.31	20.6



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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)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	19.06	19.07	19.05	19.2
20	QPSK	1	49	18.92	18.96	18.92	
20	QPSK	1	99	18.86	18.86	18.82	
20	QPSK	50	0	18.99	19.00	18.98	19.2
20	QPSK	50	24	18.94	18.97	18.91	
20	QPSK	50	50	18.89	18.91	18.87	
20	QPSK	100	0	18.92	18.93	18.88	
20	16QAM	1	0	18.92	18.98	18.96	19.2
20	16QAM	1	49	18.81	18.84	18.85	
20	16QAM	1	99	18.81	18.83	18.86	
20	16QAM	50	0	18.98	19.01	18.97	19.2
20	16QAM	50	24	18.94	18.97	18.95	
20	16QAM	50	50	18.88	18.91	18.89	
20	16QAM	100	0	18.95	18.97	18.92	
20	64QAM	1	0	18.89	18.91	18.95	19.2
20	64QAM	1	49	18.83	18.84	18.83	
20	64QAM	1	99	18.77	18.89	18.86	
20	64QAM	50	0	19.03	19.03	19.00	19.2
20	64QAM	50	24	18.97	19.02	18.98	
20	64QAM	50	50	18.90	18.92	18.91	
20	64QAM	100	0	18.94	18.97	18.94	
20	256QAM	1	0	18.76	18.79	18.90	19.2
20	256QAM	1	49	18.87	18.75	18.76	
20	256QAM	1	99	18.64	18.75	18.59	
20	256QAM	50	0	18.68	18.61	18.55	19.2
20	256QAM	50	24	18.53	18.66	18.70	
20	256QAM	50	50	18.34	18.53	18.54	
20	256QAM	100	0	18.51	18.55	18.52	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	18.99	18.97	18.90	19.2
15	QPSK	1	37	18.83	18.92	18.84	
15	QPSK	1	74	18.79	18.71	18.76	
15	QPSK	36	0	18.79	18.90	18.91	19.2
15	QPSK	36	20	18.81	18.95	18.80	
15	QPSK	36	39	18.81	18.72	18.67	
15	QPSK	75	0	18.86	18.92	18.77	
15	16QAM	1	0	18.78	18.81	18.93	19.2
15	16QAM	1	37	18.75	18.76	18.78	
15	16QAM	1	74	18.61	18.81	18.85	
15	16QAM	36	0	18.83	18.97	18.87	19.2
15	16QAM	36	20	18.94	18.95	18.79	
15	16QAM	36	39	18.80	18.86	18.79	
15	16QAM	75	0	18.91	18.77	18.81	
15	64QAM	1	0	18.69	18.82	18.91	19.2
15	64QAM	1	37	18.67	18.82	18.65	
15	64QAM	1	74	18.70	18.73	18.70	
15	64QAM	36	0	18.93	18.83	18.89	19.2
15	64QAM	36	20	18.90	18.86	18.90	
15	64QAM	36	39	18.78	18.81	18.71	
15	64QAM	75	0	18.90	18.92	18.80	
15	256QAM	1	0	18.68	18.76	18.70	19.2
15	256QAM	1	37	18.77	18.70	18.71	
15	256QAM	1	74	18.54	18.61	18.56	
15	256QAM	36	0	18.48	18.57	18.36	19.2
15	256QAM	36	20	18.44	18.51	18.70	



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15	256QAM	36	39	18.26	18.43	18.51	
15	256QAM	75	0	18.34	18.38	18.41	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	19.04	18.93	18.86	19.2
10	QPSK	1	25	18.92	18.94	18.90	
10	QPSK	1	49	18.76	18.68	18.68	
10	QPSK	25	0	18.81	18.87	18.90	19.2
10	QPSK	25	12	18.84	18.96	18.80	
10	QPSK	25	25	18.71	18.80	18.87	
10	QPSK	50	0	18.87	18.88	18.85	
10	16QAM	1	0	18.92	18.91	18.78	19.2
10	16QAM	1	25	18.74	18.83	18.73	
10	16QAM	1	49	18.81	18.66	18.74	
10	16QAM	25	0	18.85	19.01	18.95	19.2
10	16QAM	25	12	18.80	18.91	18.91	
10	16QAM	25	25	18.73	18.89	18.76	
10	16QAM	50	0	18.94	18.91	18.78	
10	64QAM	1	0	18.70	18.86	18.84	19.2
10	64QAM	1	25	18.71	18.67	18.76	
10	64QAM	1	49	18.57	18.72	18.80	
10	64QAM	25	0	18.95	19.01	18.83	19.2
10	64QAM	25	12	18.93	18.83	18.83	
10	64QAM	25	25	18.75	18.75	18.75	
10	64QAM	50	0	18.82	18.94	18.91	
10	256QAM	1	0	18.73	18.76	18.77	19.2
10	256QAM	1	25	18.69	18.65	18.76	
10	256QAM	1	49	18.59	18.62	18.40	
10	256QAM	25	0	18.63	18.53	18.35	19.2
10	256QAM	25	12	18.38	18.53	18.53	
10	256QAM	25	25	18.17	18.35	18.45	
10	256QAM	50	0	18.51	18.52	18.44	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	18.97	18.92	18.86	19.2
5	QPSK	1	12	18.72	18.91	18.78	
5	QPSK	1	24	18.66	18.70	18.82	
5	QPSK	12	0	18.96	18.89	18.81	19.2
5	QPSK	12	7	18.90	18.78	18.77	
5	QPSK	12	13	18.71	18.71	18.84	
5	QPSK	25	0	18.76	18.88	18.77	
5	16QAM	1	0	18.84	18.81	18.87	19.2
5	16QAM	1	12	18.67	18.70	18.78	
5	16QAM	1	24	18.68	18.76	18.81	
5	16QAM	12	0	18.83	18.90	18.79	19.2
5	16QAM	12	7	18.81	18.78	18.93	
5	16QAM	12	13	18.84	18.89	18.69	
5	16QAM	25	0	18.93	18.91	18.86	
5	64QAM	1	0	18.69	18.76	18.94	19.2
5	64QAM	1	12	18.64	18.76	18.75	
5	64QAM	1	24	18.62	18.76	18.85	
5	64QAM	12	0	18.93	18.86	18.92	19.2
5	64QAM	12	7	18.85	18.99	18.89	
5	64QAM	12	13	18.80	18.78	18.72	
5	64QAM	25	0	18.76	18.79	18.79	
5	256QAM	1	0	18.72	18.75	18.74	19.2
5	256QAM	1	12	18.85	18.72	18.68	
5	256QAM	1	24	18.59	18.58	18.44	
5	256QAM	12	0	18.54	18.61	18.38	19.2
5	256QAM	12	7	18.51	18.53	18.56	
5	256QAM	12	13	18.22	18.37	18.40	
5	256QAM	25	0	18.40	18.48	18.47	



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Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	18.87	18.90	18.95	19.2
3	QPSK	1	8	18.84	18.83	18.81	
3	QPSK	1	14	18.66	18.78	18.73	
3	QPSK	8	0	18.89	18.81	18.85	19.2
3	QPSK	8	4	18.84	18.81	18.79	
3	QPSK	8	7	18.72	18.88	18.67	
3	QPSK	15	0	18.89	18.80	18.76	19.2
3	16QAM	1	0	18.79	18.84	18.84	
3	16QAM	1	8	18.77	18.71	18.84	
3	16QAM	1	14	18.63	18.64	18.68	19.2
3	16QAM	8	0	18.79	18.98	18.92	
3	16QAM	8	4	18.83	18.83	18.76	
3	16QAM	8	7	18.77	18.81	18.81	19.2
3	16QAM	15	0	18.83	18.97	18.90	
3	64QAM	1	0	18.74	18.87	18.75	
3	64QAM	1	8	18.78	18.82	18.75	19.2
3	64QAM	1	14	18.65	18.69	18.79	
3	64QAM	8	0	19.01	18.89	18.80	
3	64QAM	8	4	18.87	18.86	18.96	19.2
3	64QAM	8	7	18.87	18.82	18.76	
3	64QAM	15	0	18.81	18.83	18.78	
3	256QAM	1	0	18.62	18.69	18.80	19.2
3	256QAM	1	8	18.76	18.65	18.64	
3	256QAM	1	14	18.64	18.75	18.53	
3	256QAM	8	0	18.60	18.53	18.36	19.2
3	256QAM	8	4	18.51	18.47	18.54	
3	256QAM	8	7	18.32	18.50	18.48	
3	256QAM	15	0	18.49	18.37	18.40	19.2
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	Tune-up limit (dBm)
1.4	QPSK	1	0	18.96	18.91	18.90	
1.4	QPSK	1	3	18.79	18.93	18.73	19.2
1.4	QPSK	1	5	18.66	18.71	18.64	
1.4	QPSK	3	0	18.93	18.94	18.78	
1.4	QPSK	3	1	18.90	18.93	18.83	19.2
1.4	QPSK	3	3	18.74	18.76	18.71	
1.4	QPSK	6	0	18.85	18.93	18.70	
1.4	16QAM	1	0	18.82	18.86	18.83	19.2
1.4	16QAM	1	3	18.81	18.83	18.70	
1.4	16QAM	1	5	18.64	18.72	18.83	
1.4	16QAM	3	0	18.92	18.92	18.80	19.2
1.4	16QAM	3	1	18.74	18.85	18.87	
1.4	16QAM	3	3	18.74	18.85	18.81	
1.4	16QAM	6	0	18.86	18.90	18.80	19.2
1.4	64QAM	1	0	18.81	18.74	18.90	
1.4	64QAM	1	3	18.70	18.64	18.78	
1.4	64QAM	1	5	18.76	18.83	18.85	19.2
1.4	64QAM	3	0	18.90	18.91	18.89	
1.4	64QAM	3	1	18.88	18.95	18.87	
1.4	64QAM	3	3	18.71	18.86	18.88	19.2
1.4	64QAM	6	0	18.75	18.91	18.90	
1.4	256QAM	1	0	18.58	18.77	18.72	
1.4	256QAM	1	3	18.75	18.64	18.66	19.2
1.4	256QAM	1	5	18.44	18.60	18.45	
1.4	256QAM	3	0	18.64	18.47	18.40	
1.4	256QAM	3	1	18.35	18.63	18.69	19.2
1.4	256QAM	3	3	18.15	18.45	18.53	
1.4	256QAM	6	0	18.47	18.48	18.51	



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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)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	19.05	19.11	19.10	
20	QPSK	1	49	19.02	19.02	19.01	19.4
20	QPSK	1	99	18.90	18.95	18.91	
20	QPSK	50	0	19.03	19.11	19.07	
20	QPSK	50	24	18.97	19.08	19.03	19.4
20	QPSK	50	50	18.92	19.02	18.98	
20	QPSK	100	0	18.98	19.04	19.03	
20	16QAM	1	0	18.94	19.03	19.06	19.4
20	16QAM	1	49	18.83	18.91	18.90	
20	16QAM	1	99	18.89	18.86	18.80	
20	16QAM	50	0	18.62	18.65	18.65	19.4
20	16QAM	50	24	18.57	18.66	18.61	
20	16QAM	50	50	18.52	18.60	18.59	
20	16QAM	100	0	18.59	18.66	18.61	19.4
20	64QAM	1	0	18.88	18.94	18.87	
20	64QAM	1	49	18.83	18.82	18.86	
20	64QAM	1	99	18.85	18.79	18.79	19.4
20	64QAM	50	0	18.65	18.69	18.67	
20	64QAM	50	24	18.60	18.65	18.64	
20	64QAM	50	50	18.56	18.59	18.58	19.4
20	64QAM	100	0	18.63	18.65	18.61	
20	256QAM	1	0	18.84	18.87	18.83	
20	256QAM	1	49	18.90	18.74	18.91	19.4
20	256QAM	1	99	18.81	18.86	18.60	
20	256QAM	50	0	18.56	18.71	18.69	
20	256QAM	50	24	18.64	18.56	18.62	19.4
20	256QAM	50	50	18.65	18.64	18.69	
20	256QAM	100	0	18.66	18.74	18.48	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	18.88	18.95	19.02	
15	QPSK	1	37	18.94	18.84	18.85	19.4
15	QPSK	1	74	18.73	18.75	18.86	
15	QPSK	36	0	18.83	19.04	18.93	
15	QPSK	36	20	18.83	18.96	18.84	19.4
15	QPSK	36	39	18.72	18.84	18.95	
15	QPSK	75	0	18.93	18.91	18.84	
15	16QAM	1	0	18.82	19.03	18.92	19.4
15	16QAM	1	37	18.82	18.73	18.83	
15	16QAM	1	74	18.77	18.66	18.66	
15	16QAM	36	0	18.58	18.55	18.55	19.4
15	16QAM	36	20	18.42	18.63	18.47	
15	16QAM	36	39	18.49	18.46	18.49	
15	16QAM	75	0	18.55	18.59	18.58	19.4
15	64QAM	1	0	18.84	18.94	18.72	
15	64QAM	1	37	18.78	18.65	18.70	
15	64QAM	1	74	18.82	18.66	18.77	19.4
15	64QAM	36	0	18.63	18.52	18.63	
15	64QAM	36	20	18.59	18.55	18.53	
15	64QAM	36	39	18.48	18.49	18.53	19.4
15	64QAM	75	0	18.62	18.47	18.60	
15	256QAM	1	0	18.68	18.84	18.62	
15	256QAM	1	37	18.72	18.68	18.75	19.4
15	256QAM	1	74	18.63	18.82	18.66	
15	256QAM	36	0	18.49	18.58	18.58	
15	256QAM	36	20	18.56	18.52	18.44	19.4



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15	256QAM	36	39	18.52	18.48	18.67	
15	256QAM	75	0	18.60	18.48	18.50	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	18.94	18.92	19.03	19.4
10	QPSK	1	25	18.92	18.92	18.85	
10	QPSK	1	49	18.87	18.81	18.79	
10	QPSK	25	0	18.84	19.10	18.92	19.4
10	QPSK	25	12	18.84	18.97	18.91	
10	QPSK	25	25	18.86	18.93	18.88	
10	QPSK	50	0	18.79	18.91	18.96	
10	16QAM	1	0	18.81	18.98	19.01	19.4
10	16QAM	1	25	18.71	18.78	18.72	
10	16QAM	1	49	18.87	18.68	18.61	
10	16QAM	25	0	18.44	18.63	18.51	19.4
10	16QAM	25	12	18.57	18.53	18.53	
10	16QAM	25	25	18.51	18.46	18.57	
10	16QAM	50	0	18.57	18.55	18.48	
10	64QAM	1	0	18.84	18.78	18.87	19.4
10	64QAM	1	25	18.64	18.73	18.83	
10	64QAM	1	49	18.66	18.64	18.62	
10	64QAM	25	0	18.50	18.58	18.50	19.4
10	64QAM	25	12	18.57	18.59	18.50	
10	64QAM	25	25	18.38	18.54	18.56	
10	64QAM	50	0	18.58	18.47	18.60	
10	256QAM	1	0	18.87	18.89	18.64	19.4
10	256QAM	1	25	18.78	18.66	18.80	
10	256QAM	1	49	18.63	18.68	18.68	
10	256QAM	25	0	18.54	18.50	18.53	19.4
10	256QAM	25	12	18.61	18.49	18.65	
10	256QAM	25	25	18.56	18.53	18.41	
10	256QAM	50	0	18.61	18.73	18.29	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	19.02	19.05	18.91	19.4
5	QPSK	1	12	19.00	18.90	18.85	
5	QPSK	1	24	18.74	18.95	18.91	
5	QPSK	12	0	18.98	18.97	18.87	19.4
5	QPSK	12	7	18.81	18.89	19.01	
5	QPSK	12	13	18.83	18.85	18.98	
5	QPSK	25	0	18.92	18.99	18.98	
5	16QAM	1	0	18.77	18.87	19.05	19.4
5	16QAM	1	12	18.67	18.90	18.80	
5	16QAM	1	24	18.79	18.86	18.75	
5	16QAM	12	0	18.62	18.60	18.53	19.4
5	16QAM	12	7	18.46	18.56	18.45	
5	16QAM	12	13	18.36	18.53	18.41	
5	16QAM	25	0	18.42	18.64	18.43	
5	64QAM	1	0	18.87	18.87	18.87	19.4
5	64QAM	1	12	18.82	18.62	18.66	
5	64QAM	1	24	18.80	18.63	18.64	
5	64QAM	12	0	18.53	18.61	18.50	19.4
5	64QAM	12	7	18.50	18.65	18.60	
5	64QAM	12	13	18.50	18.46	18.54	
5	64QAM	25	0	18.58	18.60	18.43	
5	256QAM	1	0	18.89	18.72	18.80	19.4
5	256QAM	1	12	18.89	18.77	18.80	
5	256QAM	1	24	18.60	18.70	18.60	
5	256QAM	12	0	18.43	18.54	18.63	19.4
5	256QAM	12	7	18.54	18.57	18.47	
5	256QAM	12	13	18.39	18.36	18.48	
5	256QAM	25	0	18.56	18.58	18.31	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	18.98	19.05	18.90	19.4
3	QPSK	1	8	18.99	18.82	18.89	
3	QPSK	1	14	18.70	18.75	18.89	
3	QPSK	8	0	18.89	19.06	18.96	19.4
3	QPSK	8	4	18.91	19.01	18.93	
3	QPSK	8	7	18.77	18.88	18.98	
3	QPSK	15	0	18.92	18.99	18.96	
3	16QAM	1	0	18.81	18.91	19.00	19.4
3	16QAM	1	8	18.68	18.81	18.87	
3	16QAM	1	14	18.70	18.69	18.63	
3	16QAM	8	0	18.54	18.63	18.56	19.4
3	16QAM	8	4	18.54	18.64	18.59	
3	16QAM	8	7	18.46	18.46	18.56	
3	16QAM	15	0	18.47	18.50	18.46	
3	64QAM	1	0	18.74	18.79	18.75	19.4
3	64QAM	1	8	18.66	18.63	18.82	
3	64QAM	1	14	18.69	18.72	18.64	
3	64QAM	8	0	18.45	18.64	18.50	19.4
3	64QAM	8	4	18.58	18.59	18.51	
3	64QAM	8	7	18.52	18.53	18.58	
3	64QAM	15	0	18.45	18.49	18.61	
3	256QAM	1	0	18.77	18.83	18.60	19.4
3	256QAM	1	8	18.82	18.61	18.80	
3	256QAM	1	14	18.74	18.66	18.51	
3	256QAM	8	0	18.51	18.60	18.63	19.4
3	256QAM	8	4	18.61	18.45	18.49	
3	256QAM	8	7	18.47	18.63	18.41	
3	256QAM	15	0	18.61	18.72	18.49	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	18.98	18.91	18.99	19.4
1.4	QPSK	1	3	18.82	19.01	18.81	
1.4	QPSK	1	5	18.80	18.87	18.72	
1.4	QPSK	3	0	19.00	19.03	19.02	
1.4	QPSK	3	1	18.96	18.93	18.86	
1.4	QPSK	3	3	18.88	18.98	18.82	
1.4	QPSK	6	0	18.86	18.89	19.03	
1.4	16QAM	1	0	18.85	18.83	18.99	19.4
1.4	16QAM	1	3	18.79	18.87	18.87	
1.4	16QAM	1	5	18.89	18.77	18.77	
1.4	16QAM	3	0	18.52	18.65	18.55	
1.4	16QAM	3	1	18.50	18.52	18.60	
1.4	16QAM	3	3	18.33	18.56	18.56	
1.4	16QAM	6	0	18.51	18.66	18.41	19.4
1.4	64QAM	1	0	18.74	18.91	18.83	19.4
1.4	64QAM	1	3	18.78	18.69	18.73	
1.4	64QAM	1	5	18.85	18.69	18.65	
1.4	64QAM	3	0	18.52	18.53	18.53	
1.4	64QAM	3	1	18.47	18.47	18.44	
1.4	64QAM	3	3	18.37	18.44	18.44	
1.4	64QAM	6	0	18.62	18.52	18.44	19.4
1.4	256QAM	1	0	18.83	18.73	18.78	19.4
1.4	256QAM	1	3	18.80	18.69	18.79	
1.4	256QAM	1	5	18.78	18.73	18.61	
1.4	256QAM	3	0	18.42	18.67	18.54	
1.4	256QAM	3	1	18.52	18.58	18.57	
1.4	256QAM	3	3	18.51	18.40	18.58	
1.4	256QAM	6	0	18.51	18.58	18.32	19.4



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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)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	19.17	19.21	19.20	
20	QPSK	1	49	19.06	19.10	19.03	19.4
20	QPSK	1	99	18.98	18.98	18.98	
20	QPSK	50	0	19.17	19.19	19.15	
20	QPSK	50	24	19.13	19.13	19.12	19.4
20	QPSK	50	50	19.08	19.09	19.03	
20	QPSK	100	0	19.14	19.16	19.11	
20	16QAM	1	0	19.14	19.05	19.15	19.4
20	16QAM	1	49	18.95	18.91	18.98	
20	16QAM	1	99	18.93	18.88	18.95	
20	16QAM	50	0	19.15	19.15	19.17	19.4
20	16QAM	50	24	19.10	19.11	19.13	
20	16QAM	50	50	19.06	19.07	19.09	
20	16QAM	100	0	19.15	19.12	19.10	19.4
20	64QAM	1	0	19.05	19.16	19.07	
20	64QAM	1	49	18.97	18.98	19.09	
20	64QAM	1	99	18.87	18.94	18.98	19.4
20	64QAM	50	0	19.19	19.15	19.17	
20	64QAM	50	24	19.12	19.11	19.13	
20	64QAM	50	50	19.06	19.07	19.09	19.4
20	64QAM	100	0	19.12	19.12	19.12	
20	256QAM	1	0	19.10	18.98	19.08	
20	256QAM	1	49	18.73	18.85	18.78	19.4
20	256QAM	1	99	18.76	18.82	18.76	
20	256QAM	50	0	18.65	18.61	18.51	
20	256QAM	50	24	18.49	18.65	18.76	19.4
20	256QAM	50	50	18.63	18.53	18.62	
20	256QAM	100	0	18.55	18.59	18.59	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	19.05	19.01	19.16	
15	QPSK	1	37	18.86	19.10	19.02	19.4
15	QPSK	1	74	18.86	18.79	18.82	
15	QPSK	36	0	19.14	19.10	19.13	
15	QPSK	36	20	19.02	19.08	18.92	19.4
15	QPSK	36	39	18.90	19.04	19.00	
15	QPSK	75	0	19.08	19.11	19.02	
15	16QAM	1	0	19.06	18.85	19.12	19.4
15	16QAM	1	37	18.94	18.72	18.79	
15	16QAM	1	74	18.91	18.74	18.89	
15	16QAM	36	0	19.14	18.99	19.13	19.4
15	16QAM	36	20	18.95	18.91	18.95	
15	16QAM	36	39	19.06	19.01	19.09	
15	16QAM	75	0	18.98	19.06	19.10	19.4
15	64QAM	1	0	18.95	18.97	18.88	
15	64QAM	1	37	18.90	18.81	18.99	
15	64QAM	1	74	18.73	18.87	18.78	19.4
15	64QAM	36	0	18.99	19.00	19.00	
15	64QAM	36	20	19.04	19.06	18.96	
15	64QAM	36	39	19.04	19.02	18.94	19.4
15	64QAM	75	0	18.97	19.10	18.99	
15	256QAM	1	0	19.00	18.98	19.08	
15	256QAM	1	37	18.69	18.75	18.78	19.4
15	256QAM	1	74	18.71	18.73	18.68	
15	256QAM	36	0	18.56	18.51	18.43	
15	256QAM	36	20	18.32	18.54	18.68	19.4



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15	256QAM	36	39	18.51	18.41	18.52	
15	256QAM	75	0	18.45	18.50	18.49	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	19.14	19.03	19.09	19.4
10	QPSK	1	25	18.98	18.90	19.03	
10	QPSK	1	49	18.90	18.90	18.98	
10	QPSK	25	0	19.09	19.02	19.03	19.4
10	QPSK	25	12	18.95	19.01	19.10	
10	QPSK	25	25	18.97	19.05	19.00	
10	QPSK	50	0	19.14	19.05	19.06	
10	16QAM	1	0	19.09	19.04	19.13	19.4
10	16QAM	1	25	18.92	18.79	18.89	
10	16QAM	1	49	18.75	18.72	18.76	
10	16QAM	25	0	19.04	19.04	19.09	19.4
10	16QAM	25	12	18.90	18.96	19.07	
10	16QAM	25	25	18.92	18.88	19.01	
10	16QAM	50	0	19.13	19.01	19.00	
10	64QAM	1	0	18.89	19.02	19.00	19.4
10	64QAM	1	25	18.84	18.87	18.98	
10	64QAM	1	49	18.82	18.88	18.78	
10	64QAM	25	0	19.17	18.95	19.16	19.4
10	64QAM	25	12	18.93	18.97	18.94	
10	64QAM	25	25	19.01	19.07	18.93	
10	64QAM	50	0	19.09	18.94	18.98	
10	256QAM	1	0	19.10	18.87	18.93	19.4
10	256QAM	1	25	18.64	18.85	18.76	
10	256QAM	1	49	18.70	18.67	18.74	
10	256QAM	25	0	18.60	18.61	18.36	19.4
10	256QAM	25	12	18.31	18.64	18.63	
10	256QAM	25	25	18.46	18.51	18.43	
10	256QAM	50	0	18.44	18.40	18.39	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	19.00	19.02	19.15	19.4
5	QPSK	1	12	19.06	19.03	18.98	
5	QPSK	1	24	18.92	18.81	18.90	
5	QPSK	12	0	19.06	19.10	19.07	19.4
5	QPSK	12	7	18.93	18.93	19.02	
5	QPSK	12	13	19.08	19.04	18.88	
5	QPSK	25	0	19.00	19.09	18.97	
5	16QAM	1	0	19.02	18.89	19.04	19.4
5	16QAM	1	12	18.93	18.80	18.84	
5	16QAM	1	24	18.78	18.81	18.80	
5	16QAM	12	0	19.13	19.14	19.08	19.4
5	16QAM	12	7	19.09	18.95	18.95	
5	16QAM	12	13	18.98	19.00	19.05	
5	16QAM	25	0	19.05	18.99	19.02	
5	64QAM	1	0	18.93	19.15	19.04	19.4
5	64QAM	1	12	18.85	18.82	19.05	
5	64QAM	1	24	18.78	18.84	18.90	
5	64QAM	12	0	19.01	19.05	18.99	19.4
5	64QAM	12	7	19.08	18.91	19.08	
5	64QAM	12	13	18.88	18.96	18.91	
5	64QAM	25	0	18.98	19.11	19.00	
5	256QAM	1	0	18.92	18.96	18.96	19.4
5	256QAM	1	12	18.53	18.78	18.62	
5	256QAM	1	24	18.57	18.71	18.65	
5	256QAM	12	0	18.54	18.57	18.38	19.4
5	256QAM	12	7	18.32	18.61	18.57	
5	256QAM	12	13	18.54	18.50	18.61	
5	256QAM	25	0	18.48	18.57	18.56	
Channel				19965	20175	20385	Tune-up limit



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Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	19.08	19.05	19.07	19.4
3	QPSK	1	8	18.88	18.93	19.01	
3	QPSK	1	14	18.92	18.98	18.80	
3	QPSK	8	0	19.02	19.17	19.14	19.4
3	QPSK	8	4	18.93	19.03	18.96	
3	QPSK	8	7	18.99	19.04	18.83	
3	QPSK	15	0	18.98	19.15	19.00	
3	16QAM	1	0	19.11	19.03	18.97	19.4
3	16QAM	1	8	18.81	18.91	18.83	
3	16QAM	1	14	18.82	18.85	18.79	
3	16QAM	8	0	18.97	18.99	19.06	19.4
3	16QAM	8	4	19.03	19.08	19.07	
3	16QAM	8	7	18.89	19.01	18.96	
3	16QAM	15	0	19.04	19.04	18.95	
3	64QAM	1	0	18.88	18.98	19.06	19.4
3	64QAM	1	8	18.86	18.82	18.93	
3	64QAM	1	14	18.73	18.94	18.84	
3	64QAM	8	0	19.07	19.12	19.02	19.4
3	64QAM	8	4	19.03	19.07	19.06	
3	64QAM	8	7	18.97	19.01	19.04	
3	64QAM	15	0	18.99	18.94	19.06	
3	256QAM	1	0	19.00	18.78	19.03	19.4
3	256QAM	1	8	18.56	18.68	18.62	
3	256QAM	1	14	18.59	18.75	18.71	
3	256QAM	8	0	18.60	18.57	18.47	19.4
3	256QAM	8	4	18.42	18.65	18.67	
3	256QAM	8	7	18.54	18.39	18.55	
3	256QAM	15	0	18.50	18.39	18.59	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	19.04	19.17	19.15	19.4
1.4	QPSK	1	3	18.86	19.01	18.97	
1.4	QPSK	1	5	18.88	18.87	18.83	
1.4	QPSK	3	0	19.06	19.11	18.99	
1.4	QPSK	3	1	19.00	19.07	19.09	
1.4	QPSK	3	3	18.91	18.90	18.97	
1.4	QPSK	6	0	18.99	19.07	19.01	
1.4	16QAM	1	0	19.04	18.92	18.96	19.4
1.4	16QAM	1	3	18.95	18.71	18.79	
1.4	16QAM	1	5	18.78	18.88	18.79	
1.4	16QAM	3	0	19.00	19.05	19.08	
1.4	16QAM	3	1	18.92	18.94	19.05	
1.4	16QAM	3	3	18.99	18.98	19.00	
1.4	16QAM	6	0	19.15	19.02	18.91	19.4
1.4	64QAM	1	0	18.89	19.12	19.03	19.4
1.4	64QAM	1	3	18.95	18.94	18.93	
1.4	64QAM	1	5	18.75	18.79	18.83	
1.4	64QAM	3	0	19.09	19.01	18.98	
1.4	64QAM	3	1	19.10	19.05	18.98	
1.4	64QAM	3	3	18.92	18.87	19.08	
1.4	64QAM	6	0	19.07	18.97	19.05	19.4
1.4	256QAM	1	0	19.06	18.82	18.91	19.4
1.4	256QAM	1	3	18.69	18.83	18.67	
1.4	256QAM	1	5	18.69	18.64	18.69	
1.4	256QAM	3	0	18.56	18.60	18.36	
1.4	256QAM	3	1	18.32	18.49	18.67	
1.4	256QAM	3	3	18.54	18.35	18.54	
1.4	256QAM	6	0	18.49	18.59	18.57	19.4



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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)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	21.07	21.18	21.03	
20	QPSK	1	49	20.79	20.84	20.88	21.6
20	QPSK	1	99	20.76	20.88	20.71	
20	QPSK	50	0	21.01	21.02	20.93	
20	QPSK	50	24	20.92	20.91	20.93	21.6
20	QPSK	50	50	20.89	20.88	20.70	
20	QPSK	100	0	20.89	21.00	20.87	
20	16QAM	1	0	20.89	20.88	20.81	21.6
20	16QAM	1	49	20.66	20.60	20.51	
20	16QAM	1	99	20.65	20.70	20.45	
20	16QAM	50	0	20.88	20.99	20.82	21.6
20	16QAM	50	24	20.91	20.87	20.81	
20	16QAM	50	50	20.69	20.80	20.87	
20	16QAM	100	0	20.84	20.82	20.81	21.6
20	64QAM	1	0	21.07	21.15	21.09	
20	64QAM	1	49	20.99	21.00	20.87	
20	64QAM	1	99	20.85	21.15	21.02	21.6
20	64QAM	50	0	20.82	20.89	20.87	
20	64QAM	50	24	20.77	20.78	20.79	
20	64QAM	50	50	20.68	20.69	20.76	20.6
20	64QAM	100	0	20.78	20.70	20.66	
20	256QAM	1	0	19.71	19.81	19.80	
20	256QAM	1	49	19.59	19.76	19.63	20.6
20	256QAM	1	99	19.62	19.55	19.55	
20	256QAM	50	0	19.53	19.52	19.61	
20	256QAM	50	24	19.49	19.61	19.35	20.6
20	256QAM	50	50	19.51	19.38	19.31	
20	256QAM	100	0	19.46	19.49	19.44	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	20.85	20.94	20.97	
15	QPSK	1	37	20.73	20.92	20.88	21.6
15	QPSK	1	74	20.84	20.87	20.58	
15	QPSK	36	0	20.86	20.73	20.80	
15	QPSK	36	20	20.89	20.85	20.62	21.6
15	QPSK	36	39	20.65	20.74	20.60	
15	QPSK	75	0	20.92	20.89	20.76	
15	16QAM	1	0	20.82	20.70	20.58	21.6
15	16QAM	1	37	20.50	20.49	20.61	
15	16QAM	1	74	20.73	20.63	20.44	
15	16QAM	36	0	20.82	20.96	20.79	21.6
15	16QAM	36	20	20.73	20.61	20.67	
15	16QAM	36	39	20.77	20.55	20.78	
15	16QAM	75	0	20.64	20.62	20.81	21.6
15	64QAM	1	0	21.05	21.09	20.92	
15	64QAM	1	37	20.77	20.87	20.79	
15	64QAM	1	74	20.84	20.89	20.99	21.6
15	64QAM	36	0	20.79	20.64	20.54	
15	64QAM	36	20	20.66	20.76	20.75	
15	64QAM	36	39	20.47	20.54	20.53	20.6
15	64QAM	75	0	20.75	20.78	20.75	
15	256QAM	1	0	19.63	19.70	19.63	
15	256QAM	1	37	19.64	19.61	19.45	20.6
15	256QAM	1	74	19.51	19.63	19.42	
15	256QAM	36	0	19.52	19.34	19.47	
15	256QAM	36	20	19.33	19.56	19.28	20.6



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15	256QAM	36	39	19.32	19.28	19.26	Tune-up limit (dBm)
15	256QAM	75	0	19.43	19.45	19.41	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	20.98	20.92	20.96	21.6
10	QPSK	1	25	20.86	20.85	20.83	
10	QPSK	1	49	20.81	20.69	20.78	
10	QPSK	25	0	20.84	20.92	20.72	21.6
10	QPSK	25	12	20.79	20.80	20.72	
10	QPSK	25	25	20.80	20.85	20.70	
10	QPSK	50	0	20.86	20.76	20.80	
10	16QAM	1	0	20.57	20.63	20.68	21.6
10	16QAM	1	25	20.55	20.60	20.42	
10	16QAM	1	49	20.48	20.60	20.45	
10	16QAM	25	0	20.78	20.88	20.79	21.6
10	16QAM	25	12	20.78	20.84	20.69	
10	16QAM	25	25	20.65	20.64	20.77	
10	16QAM	50	0	20.85	20.78	20.73	
10	64QAM	1	0	21.00	21.13	20.92	21.6
10	64QAM	1	25	20.80	20.98	20.76	
10	64QAM	1	49	20.88	21.04	20.90	
10	64QAM	25	0	20.61	20.71	20.73	21.6
10	64QAM	25	12	20.73	20.82	20.51	
10	64QAM	25	25	20.69	20.60	20.58	
10	64QAM	50	0	20.59	20.75	20.58	
10	256QAM	1	0	19.76	19.61	19.67	20.6
10	256QAM	1	25	19.45	19.68	19.41	
10	256QAM	1	49	19.65	19.60	19.43	
10	256QAM	25	0	19.47	19.30	19.40	
10	256QAM	25	12	19.31	19.44	19.24	20.6
10	256QAM	25	25	19.40	19.38	19.25	
10	256QAM	50	0	19.64	19.40	19.10	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	21.00	21.03	21.07	21.6
5	QPSK	1	12	20.62	20.70	20.88	
5	QPSK	1	24	20.72	20.72	20.60	
5	QPSK	12	0	21.06	20.74	21.01	21.6
5	QPSK	12	7	20.91	20.85	20.68	
5	QPSK	12	13	20.64	20.84	20.82	
5	QPSK	25	0	20.69	20.89	20.73	
5	16QAM	1	0	20.58	20.74	20.61	21.6
5	16QAM	1	12	20.47	20.54	20.48	
5	16QAM	1	24	20.45	20.50	20.45	
5	16QAM	12	0	20.71	20.80	20.74	21.6
5	16QAM	12	7	20.74	20.73	20.79	
5	16QAM	12	13	20.64	20.70	20.72	
5	16QAM	25	0	20.87	20.83	20.84	
5	64QAM	1	0	20.90	21.14	21.02	21.6
5	64QAM	1	12	20.75	20.88	20.85	
5	64QAM	1	24	20.98	20.92	20.65	
5	64QAM	12	0	20.62	20.82	20.60	21.6
5	64QAM	12	7	20.66	20.72	20.64	
5	64QAM	12	13	20.59	20.53	20.65	
5	64QAM	25	0	20.84	20.60	20.64	
5	256QAM	1	0	19.77	19.78	19.68	20.6
5	256QAM	1	12	19.61	19.62	19.41	
5	256QAM	1	24	19.54	19.55	19.26	
5	256QAM	12	0	19.46	19.47	19.56	20.6
5	256QAM	12	7	19.49	19.31	19.38	
5	256QAM	12	13	19.37	19.42	19.32	
5	256QAM	25	0	19.42	19.16	19.12	
Channel				19965	20175	20385	Tune-up limit



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Report No. : FA3D2001D

Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	21.03	20.82	20.95	21.6
3	QPSK	1	8	20.74	20.85	20.81	
3	QPSK	1	14	20.63	20.77	20.50	
3	QPSK	8	0	20.89	21.02	20.78	21.6
3	QPSK	8	4	20.96	20.78	20.62	
3	QPSK	8	7	20.57	20.79	20.71	
3	QPSK	15	0	21.00	20.81	20.80	21.6
3	16QAM	1	0	20.88	20.67	20.75	
3	16QAM	1	8	20.59	20.45	20.43	
3	16QAM	1	14	20.57	20.47	20.48	21.6
3	16QAM	8	0	20.81	20.64	20.69	
3	16QAM	8	4	20.66	20.74	20.85	
3	16QAM	8	7	20.71	20.61	20.71	21.6
3	16QAM	15	0	20.65	20.80	20.68	
3	64QAM	1	0	21.06	21.11	21.09	
3	64QAM	1	8	20.98	20.82	20.88	21.6
3	64QAM	1	14	20.68	20.84	20.78	
3	64QAM	8	0	20.76	20.67	20.58	
3	64QAM	8	4	20.76	20.74	20.58	21.6
3	64QAM	8	7	20.75	20.63	20.60	
3	64QAM	15	0	20.70	20.67	20.71	
3	256QAM	1	0	19.63	19.78	19.49	20.6
3	256QAM	1	8	19.49	19.49	19.59	
3	256QAM	1	14	19.47	19.43	19.38	
3	256QAM	8	0	19.55	19.32	19.27	20.6
3	256QAM	8	4	19.29	19.31	19.41	
3	256QAM	8	7	19.43	19.45	19.33	
3	256QAM	15	0	19.48	19.28	19.23	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	21.10	21.02	21.13	21.6
1.4	QPSK	1	3	20.69	20.92	20.78	
1.4	QPSK	1	5	20.68	20.72	20.56	
1.4	QPSK	3	0	21.13	20.89	20.94	21.6
1.4	QPSK	3	1	20.82	20.68	20.89	
1.4	QPSK	3	3	20.77	20.71	20.47	
1.4	QPSK	6	0	20.94	20.83	20.94	21.6
1.4	16QAM	1	0	20.73	20.67	20.79	21.6
1.4	16QAM	1	3	20.67	20.80	20.77	
1.4	16QAM	1	5	20.87	20.88	20.83	
1.4	16QAM	3	0	20.84	20.68	20.83	21.6
1.4	16QAM	3	1	20.63	20.65	20.64	
1.4	16QAM	3	3	20.76	20.79	20.51	
1.4	16QAM	6	0	20.87	20.79	20.63	21.6
1.4	64QAM	1	0	20.73	20.71	20.54	21.6
1.4	64QAM	1	3	20.61	20.91	20.64	
1.4	64QAM	1	5	20.58	20.80	20.71	
1.4	64QAM	3	0	20.96	21.03	21.03	21.6
1.4	64QAM	3	1	20.81	20.94	20.90	
1.4	64QAM	3	3	20.80	20.98	20.86	
1.4	64QAM	6	0	20.67	20.63	20.70	21.6
1.4	256QAM	1	0	19.60	19.67	19.66	20.6
1.4	256QAM	1	3	19.53	19.60	19.48	
1.4	256QAM	1	5	19.54	19.67	19.24	
1.4	256QAM	3	0	19.43	19.29	19.42	20.6
1.4	256QAM	3	1	19.30	19.45	19.31	
1.4	256QAM	3	3	19.33	19.48	19.39	
1.4	256QAM	6	0	19.46	19.39	19.31	20.6



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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)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	24.41	24.42	24.36	
10	QPSK	1	25	24.26	24.30	24.22	25.7
10	QPSK	1	49	24.26	24.31	24.22	
10	QPSK	25	0	23.46	23.51	23.42	
10	QPSK	25	12	23.42	23.49	23.35	24.7
10	QPSK	25	25	23.42	23.45	23.36	
10	QPSK	50	0	23.45	23.48	23.38	
10	16QAM	1	0	23.63	23.64	23.71	24.7
10	16QAM	1	25	23.55	23.59	23.57	
10	16QAM	1	49	23.46	23.62	23.47	
10	16QAM	25	0	22.43	22.49	22.42	23.7
10	16QAM	25	12	22.44	22.46	22.37	
10	16QAM	25	25	22.42	22.42	22.39	
10	16QAM	50	0	22.41	22.46	22.40	23.7
10	64QAM	1	0	22.59	22.62	22.62	
10	64QAM	1	25	22.51	22.57	22.54	
10	64QAM	1	49	22.50	22.61	22.41	22.7
10	64QAM	25	0	21.42	21.45	21.42	
10	64QAM	25	12	21.42	21.45	21.41	
10	64QAM	25	25	21.40	21.41	21.35	20.7
10	64QAM	50	0	21.41	21.45	21.43	
10	256QAM	1	0	19.87	19.95	19.89	
10	256QAM	1	25	19.82	19.88	19.83	20.7
10	256QAM	1	49	19.78	19.88	19.66	
10	256QAM	25	0	19.75	19.79	19.76	
10	256QAM	25	12	19.73	19.70	19.68	20.7
10	256QAM	25	25	19.72	19.74	19.68	
10	256QAM	50	0	19.70	19.80	19.71	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	24.36	24.35	24.31	
5	QPSK	1	12	24.22	24.22	24.13	25.7
5	QPSK	1	24	24.18	24.28	24.20	
5	QPSK	12	0	23.41	23.49	23.34	24.7
5	QPSK	12	7	23.41	23.46	23.28	
5	QPSK	12	13	23.39	23.42	23.26	
5	QPSK	25	0	23.45	23.43	23.31	24.7
5	16QAM	1	0	23.56	23.54	23.62	
5	16QAM	1	12	23.51	23.57	23.57	
5	16QAM	1	24	23.45	23.56	23.38	23.7
5	16QAM	12	0	22.43	22.44	22.37	
5	16QAM	12	7	22.38	22.37	22.34	
5	16QAM	12	13	22.42	22.33	22.36	23.7
5	16QAM	25	0	22.39	22.45	22.33	
5	64QAM	1	0	22.51	22.55	22.62	
5	64QAM	1	12	22.45	22.47	22.45	23.7
5	64QAM	1	24	22.45	22.53	22.40	
5	64QAM	12	0	21.33	21.43	21.38	
5	64QAM	12	7	21.38	21.41	21.35	22.7
5	64QAM	12	13	21.37	21.37	21.25	
5	64QAM	25	0	21.36	21.41	21.38	
5	256QAM	1	0	19.87	19.88	19.82	20.7
5	256QAM	1	12	19.81	19.78	19.82	
5	256QAM	1	24	19.76	19.86	19.65	
5	256QAM	12	0	19.70	19.78	19.73	20.7
5	256QAM	12	7	19.68	19.61	19.59	
5	256QAM	12	13	19.66	19.67	19.63	



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Report No. : FA3D2001D

5	256QAM	25	0	19.68	19.78	19.71	Tune-up limit (dBm)
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.38	24.35	24.25	25.7
3	QPSK	1	8	24.23	24.30	24.17	
3	QPSK	1	14	24.26	24.31	24.19	
3	QPSK	8	0	23.44	23.49	23.37	24.7
3	QPSK	8	4	23.38	23.40	23.34	
3	QPSK	8	7	23.35	23.36	23.30	
3	QPSK	15	0	23.38	23.40	23.32	24.7
3	16QAM	1	0	23.57	23.58	23.61	
3	16QAM	1	8	23.53	23.49	23.54	
3	16QAM	1	14	23.42	23.59	23.42	23.7
3	16QAM	8	0	22.33	22.43	22.41	
3	16QAM	8	4	22.39	22.42	22.34	
3	16QAM	8	7	22.41	22.42	22.39	23.7
3	16QAM	15	0	22.36	22.44	22.36	
3	64QAM	1	0	22.57	22.57	22.58	
3	64QAM	1	8	22.50	22.53	22.44	23.7
3	64QAM	1	14	22.47	22.61	22.33	
3	64QAM	8	0	21.40	21.41	21.42	22.7
3	64QAM	8	4	21.40	21.35	21.37	
3	64QAM	8	7	21.33	21.34	21.27	
3	64QAM	15	0	21.39	21.39	21.33	20.7
3	256QAM	1	0	19.77	19.95	19.85	
3	256QAM	1	8	19.78	19.87	19.74	
3	256QAM	1	14	19.74	19.85	19.59	20.7
3	256QAM	8	0	19.65	19.74	19.66	
3	256QAM	8	4	19.67	19.66	19.68	
3	256QAM	8	7	19.71	19.64	19.64	20.7
3	256QAM	15	0	19.70	19.75	19.67	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	24.29	24.39	24.25	25.7
1.4	QPSK	1	3	24.24	24.26	24.13	
1.4	QPSK	1	5	24.17	24.30	24.13	
1.4	QPSK	3	0	24.21	24.34	24.21	24.7
1.4	QPSK	3	1	24.22	24.29	24.17	
1.4	QPSK	3	3	24.13	24.20	24.15	
1.4	QPSK	6	0	23.40	23.45	23.32	24.7
1.4	16QAM	1	0	23.57	23.62	23.69	
1.4	16QAM	1	3	23.49	23.58	23.51	
1.4	16QAM	1	5	23.46	23.60	23.47	23.7
1.4	16QAM	3	0	23.35	23.45	23.35	
1.4	16QAM	3	1	23.40	23.42	23.32	
1.4	16QAM	3	3	23.38	23.48	23.35	23.7
1.4	16QAM	6	0	22.39	22.40	22.39	
1.4	64QAM	1	0	22.59	22.55	22.61	
1.4	64QAM	1	3	22.47	22.57	22.52	23.7
1.4	64QAM	1	5	22.40	22.60	22.38	
1.4	64QAM	3	0	22.42	22.46	22.40	
1.4	64QAM	3	1	22.35	22.41	22.32	22.7
1.4	64QAM	3	3	22.37	22.39	22.31	
1.4	64QAM	6	0	21.40	21.44	21.37	
1.4	256QAM	1	0	19.78	19.89	19.80	20.7
1.4	256QAM	1	3	19.73	19.81	19.82	
1.4	256QAM	1	5	19.76	19.82	19.62	
1.4	256QAM	3	0	19.68	19.76	19.76	20.7
1.4	256QAM	3	1	19.67	19.68	19.62	
1.4	256QAM	3	3	19.64	19.70	19.62	
1.4	256QAM	6	0	19.65	19.73	19.69	20.7



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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)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.24	23.32	23.15	
10	QPSK	1	25	23.12	23.25	23.10	23.5
10	QPSK	1	49	23.13	23.26	23.06	
10	QPSK	25	0	22.88	22.91	22.84	
10	QPSK	25	12	22.81	22.86	22.71	23.5
10	QPSK	25	25	22.84	22.90	22.76	
10	QPSK	50	0	22.85	22.86	22.81	
10	16QAM	1	0	22.94	23.03	23.02	23.5
10	16QAM	1	25	22.87	22.99	22.99	
10	16QAM	1	49	22.81	22.90	22.84	
10	16QAM	25	0	22.77	22.92	22.76	23.5
10	16QAM	25	12	22.85	22.82	22.77	
10	16QAM	25	25	22.86	22.78	22.69	
10	16QAM	50	0	22.85	22.83	22.77	23.5
10	64QAM	1	0	22.94	22.99	22.87	
10	64QAM	1	25	22.84	22.86	22.83	
10	64QAM	1	49	22.88	22.83	22.72	22.7
10	64QAM	25	0	21.85	21.83	21.80	
10	64QAM	25	12	21.83	21.89	21.82	
10	64QAM	25	25	21.81	21.87	21.77	20.7
10	64QAM	50	0	21.80	21.84	21.79	
10	256QAM	1	0	20.27	20.27	20.11	
10	256QAM	1	25	20.17	20.12	20.06	20.7
10	256QAM	1	49	20.11	20.05	19.97	
10	256QAM	25	0	20.15	20.12	20.07	
10	256QAM	25	12	19.99	20.10	19.99	20.7
10	256QAM	25	25	20.09	20.06	20.05	
10	256QAM	50	0	19.96	20.15	20.09	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	23.09	23.13	22.97	
5	QPSK	1	12	22.95	23.21	22.98	23.5
5	QPSK	1	24	23.12	23.25	23.06	
5	QPSK	12	0	22.72	22.87	22.65	
5	QPSK	12	7	22.68	22.79	22.57	23.5
5	QPSK	12	13	22.64	22.82	22.61	
5	QPSK	25	0	22.74	22.68	22.76	
5	16QAM	1	0	22.92	22.86	22.98	23.5
5	16QAM	1	12	22.78	22.94	22.96	
5	16QAM	1	24	22.65	22.79	22.84	
5	16QAM	12	0	22.61	22.84	22.63	23.5
5	16QAM	12	7	22.78	22.82	22.64	
5	16QAM	12	13	22.81	22.78	22.55	
5	16QAM	25	0	22.84	22.83	22.59	23.5
5	64QAM	1	0	22.85	22.90	22.73	
5	64QAM	1	12	22.79	22.69	22.67	
5	64QAM	1	24	22.78	22.77	22.72	22.7
5	64QAM	12	0	21.71	21.69	21.79	
5	64QAM	12	7	21.66	21.72	21.71	
5	64QAM	12	13	21.72	21.69	21.72	20.7
5	64QAM	25	0	21.70	21.74	21.76	
5	256QAM	1	0	20.14	20.14	20.08	
5	256QAM	1	12	20.02	20.12	20.00	20.7
5	256QAM	1	24	19.95	19.92	19.92	
5	256QAM	12	0	20.09	20.00	19.89	
5	256QAM	12	7	19.98	19.98	19.87	20.7
5	256QAM	12	13	19.99	19.94	19.89	



FCC SAR TEST REPORT

Report No. : FA3D2001D

5	256QAM	25	0	19.89	20.13	20.01	Tune-up limit (dBm)
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	23.24	23.16	23.06	23.5
3	QPSK	1	8	23.07	23.08	22.94	
3	QPSK	1	14	22.96	23.14	23.05	
3	QPSK	8	0	22.78	22.80	22.79	23.5
3	QPSK	8	4	22.68	22.82	22.71	
3	QPSK	8	7	22.70	22.82	22.70	
3	QPSK	15	0	22.71	22.84	22.76	23.5
3	16QAM	1	0	22.78	22.89	22.83	
3	16QAM	1	8	22.85	22.96	22.92	
3	16QAM	1	14	22.63	22.71	22.71	23.5
3	16QAM	8	0	22.69	22.80	22.60	
3	16QAM	8	4	22.82	22.69	22.61	
3	16QAM	8	7	22.86	22.69	22.58	23.5
3	16QAM	15	0	22.72	22.65	22.75	
3	64QAM	1	0	22.88	22.93	22.68	
3	64QAM	1	8	22.83	22.75	22.65	23.5
3	64QAM	1	14	22.77	22.83	22.66	
3	64QAM	8	0	21.69	21.81	21.73	22.7
3	64QAM	8	4	21.75	21.84	21.68	
3	64QAM	8	7	21.61	21.83	21.77	
3	64QAM	15	0	21.69	21.69	21.69	20.7
3	256QAM	1	0	20.17	20.14	20.05	
3	256QAM	1	8	20.13	20.06	19.90	
3	256QAM	1	14	20.04	20.05	19.95	20.7
3	256QAM	8	0	20.14	19.94	20.06	
3	256QAM	8	4	19.83	19.91	19.80	
3	256QAM	8	7	19.98	19.86	20.00	20.7
3	256QAM	15	0	19.85	19.98	19.89	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	23.09	23.15	23.11	23.5
1.4	QPSK	1	3	23.03	23.17	22.98	
1.4	QPSK	1	5	23.12	23.21	23.04	
1.4	QPSK	3	0	23.08	23.22	23.11	23.5
1.4	QPSK	3	1	22.95	23.20	22.93	
1.4	QPSK	3	3	23.05	23.12	22.92	
1.4	QPSK	6	0	22.73	22.78	22.73	23.5
1.4	16QAM	1	0	22.73	22.70	22.57	
1.4	16QAM	1	3	22.84	22.86	22.64	
1.4	16QAM	1	5	22.80	22.78	22.64	23.5
1.4	16QAM	3	0	22.93	22.85	22.91	
1.4	16QAM	3	1	22.69	22.91	22.96	
1.4	16QAM	3	3	22.77	22.89	22.64	23.5
1.4	16QAM	6	0	22.77	22.85	22.63	
1.4	64QAM	1	0	22.76	22.74	22.74	
1.4	64QAM	1	3	22.78	22.64	22.58	23.5
1.4	64QAM	1	5	22.69	22.78	22.75	
1.4	64QAM	3	0	22.94	22.95	22.72	
1.4	64QAM	3	1	22.84	22.68	22.68	22.7
1.4	64QAM	3	3	22.87	22.78	22.72	
1.4	64QAM	6	0	21.67	21.83	21.77	
1.4	256QAM	1	0	20.23	20.27	19.96	20.7
1.4	256QAM	1	3	20.08	20.00	19.88	
1.4	256QAM	1	5	20.08	20.02	19.90	
1.4	256QAM	3	0	20.06	20.07	20.05	20.7
1.4	256QAM	3	1	19.85	19.94	19.98	
1.4	256QAM	3	3	20.08	20.05	19.98	
1.4	256QAM	6	0	19.87	20.02	20.09	20.7

**<LTE Band 5_Ant 0_Index 9>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	24.41	24.42	24.36	
10	QPSK	1	25	24.26	24.30	24.22	25.7
10	QPSK	1	49	24.26	24.31	24.22	
10	QPSK	25	0	23.46	23.51	23.42	
10	QPSK	25	12	23.42	23.49	23.35	24.7
10	QPSK	25	25	23.42	23.45	23.36	
10	QPSK	50	0	23.45	23.48	23.38	
10	16QAM	1	0	23.63	23.64	23.71	24.7
10	16QAM	1	25	23.55	23.59	23.57	
10	16QAM	1	49	23.46	23.62	23.47	
10	16QAM	25	0	22.43	22.49	22.42	23.7
10	16QAM	25	12	22.44	22.46	22.37	
10	16QAM	25	25	22.42	22.42	22.39	
10	16QAM	50	0	22.41	22.46	22.40	23.7
10	64QAM	1	0	22.59	22.62	22.62	
10	64QAM	1	25	22.51	22.57	22.54	
10	64QAM	1	49	22.50	22.61	22.41	22.7
10	64QAM	25	0	21.42	21.45	21.42	
10	64QAM	25	12	21.42	21.45	21.41	
10	64QAM	25	25	21.40	21.41	21.35	20.7
10	64QAM	50	0	21.41	21.45	21.43	
10	256QAM	1	0	19.87	19.95	19.89	
10	256QAM	1	25	19.82	19.88	19.83	20.7
10	256QAM	1	49	19.78	19.88	19.66	
10	256QAM	25	0	19.75	19.79	19.76	
10	256QAM	25	12	19.73	19.70	19.68	20.7
10	256QAM	25	25	19.72	19.74	19.68	
10	256QAM	50	0	19.70	19.80	19.71	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	24.36	24.35	24.31	
5	QPSK	1	12	24.22	24.22	24.13	25.7
5	QPSK	1	24	24.18	24.28	24.20	
5	QPSK	12	0	23.41	23.49	23.34	24.7
5	QPSK	12	7	23.41	23.46	23.28	
5	QPSK	12	13	23.39	23.42	23.26	
5	QPSK	25	0	23.45	23.43	23.31	24.7
5	16QAM	1	0	23.56	23.54	23.62	
5	16QAM	1	12	23.51	23.57	23.57	
5	16QAM	1	24	23.45	23.56	23.38	23.7
5	16QAM	12	0	22.43	22.44	22.37	
5	16QAM	12	7	22.38	22.37	22.34	
5	16QAM	12	13	22.42	22.33	22.36	23.7
5	16QAM	25	0	22.39	22.45	22.33	
5	64QAM	1	0	22.51	22.55	22.62	
5	64QAM	1	12	22.45	22.47	22.45	23.7
5	64QAM	1	24	22.45	22.53	22.40	
5	64QAM	12	0	21.33	21.43	21.38	
5	64QAM	12	7	21.38	21.41	21.35	22.7
5	64QAM	12	13	21.37	21.37	21.25	
5	64QAM	25	0	21.36	21.41	21.38	
5	256QAM	1	0	19.87	19.88	19.82	20.7
5	256QAM	1	12	19.81	19.78	19.82	
5	256QAM	1	24	19.76	19.86	19.65	
5	256QAM	12	0	19.70	19.78	19.73	20.7
5	256QAM	12	7	19.68	19.61	19.59	
5	256QAM	12	13	19.66	19.67	19.63	



FCC SAR TEST REPORT

Report No. : FA3D2001D

5	256QAM	25	0	19.68	19.78	19.71	Tune-up limit (dBm)
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.38	24.35	24.25	25.7
3	QPSK	1	8	24.23	24.30	24.17	
3	QPSK	1	14	24.26	24.31	24.19	
3	QPSK	8	0	23.44	23.49	23.37	24.7
3	QPSK	8	4	23.38	23.40	23.34	
3	QPSK	8	7	23.35	23.36	23.30	
3	QPSK	15	0	23.38	23.40	23.32	24.7
3	16QAM	1	0	23.57	23.58	23.61	
3	16QAM	1	8	23.53	23.49	23.54	
3	16QAM	1	14	23.42	23.59	23.42	23.7
3	16QAM	8	0	22.33	22.43	22.41	
3	16QAM	8	4	22.39	22.42	22.34	
3	16QAM	8	7	22.41	22.42	22.39	23.7
3	16QAM	15	0	22.36	22.44	22.36	
3	64QAM	1	0	22.57	22.57	22.58	
3	64QAM	1	8	22.50	22.53	22.44	23.7
3	64QAM	1	14	22.47	22.61	22.33	
3	64QAM	8	0	21.40	21.41	21.42	22.7
3	64QAM	8	4	21.40	21.35	21.37	
3	64QAM	8	7	21.33	21.34	21.27	
3	64QAM	15	0	21.39	21.39	21.33	20.7
3	256QAM	1	0	19.77	19.95	19.85	
3	256QAM	1	8	19.78	19.87	19.74	
3	256QAM	1	14	19.74	19.85	19.59	20.7
3	256QAM	8	0	19.65	19.74	19.66	
3	256QAM	8	4	19.67	19.66	19.68	
3	256QAM	8	7	19.71	19.64	19.64	20.7
3	256QAM	15	0	19.70	19.75	19.67	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	24.29	24.39	24.25	25.7
1.4	QPSK	1	3	24.24	24.26	24.13	
1.4	QPSK	1	5	24.17	24.30	24.13	
1.4	QPSK	3	0	24.21	24.34	24.21	24.7
1.4	QPSK	3	1	24.22	24.29	24.17	
1.4	QPSK	3	3	24.13	24.20	24.15	
1.4	QPSK	6	0	23.40	23.45	23.32	24.7
1.4	16QAM	1	0	23.57	23.62	23.69	
1.4	16QAM	1	3	23.49	23.58	23.51	
1.4	16QAM	1	5	23.46	23.60	23.47	23.7
1.4	16QAM	3	0	23.35	23.45	23.35	
1.4	16QAM	3	1	23.40	23.42	23.32	
1.4	16QAM	3	3	23.38	23.48	23.35	23.7
1.4	16QAM	6	0	22.39	22.40	22.39	
1.4	64QAM	1	0	22.59	22.55	22.61	
1.4	64QAM	1	3	22.47	22.57	22.52	23.7
1.4	64QAM	1	5	22.40	22.60	22.38	
1.4	64QAM	3	0	22.42	22.46	22.40	
1.4	64QAM	3	1	22.35	22.41	22.32	22.7
1.4	64QAM	3	3	22.37	22.39	22.31	
1.4	64QAM	6	0	21.40	21.44	21.37	
1.4	256QAM	1	0	19.78	19.89	19.80	20.7
1.4	256QAM	1	3	19.73	19.81	19.82	
1.4	256QAM	1	5	19.76	19.82	19.62	
1.4	256QAM	3	0	19.68	19.76	19.76	20.7
1.4	256QAM	3	1	19.67	19.68	19.62	
1.4	256QAM	3	3	19.64	19.70	19.62	
1.4	256QAM	6	0	19.65	19.73	19.69	20.7



<LTE Band 5_Ant 1_Index 9>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	25.10	25.15	25.10	
10	QPSK	1	25	24.97	24.99	24.92	25.7
10	QPSK	1	49	25.02	25.04	24.97	
10	QPSK	25	0	24.20	24.27	24.14	
10	QPSK	25	12	24.17	24.19	24.11	24.7
10	QPSK	25	25	24.17	24.21	24.10	
10	QPSK	50	0	24.18	24.21	24.13	
10	16QAM	1	0	24.33	24.37	24.35	24.7
10	16QAM	1	25	24.20	24.29	24.30	
10	16QAM	1	49	24.19	24.23	24.18	
10	16QAM	25	0	23.17	23.22	23.16	23.7
10	16QAM	25	12	23.18	23.21	23.09	
10	16QAM	25	25	23.16	23.17	23.08	
10	16QAM	50	0	23.17	23.20	23.08	23.7
10	64QAM	1	0	23.34	23.35	23.23	
10	64QAM	1	25	23.21	23.20	23.13	
10	64QAM	1	49	23.18	23.18	23.07	22.7
10	64QAM	25	0	22.19	22.23	22.16	
10	64QAM	25	12	22.16	22.21	22.12	
10	64QAM	25	25	22.13	22.17	22.10	20.7
10	64QAM	50	0	22.15	22.18	22.17	
10	256QAM	1	0	20.60	20.65	20.46	
10	256QAM	1	25	20.50	20.48	20.40	20.7
10	256QAM	1	49	20.41	20.45	20.30	
10	256QAM	25	0	20.45	20.50	20.43	
10	256QAM	25	12	20.39	20.44	20.37	20.7
10	256QAM	25	25	20.39	20.40	20.39	
10	256QAM	50	0	20.35	20.47	20.39	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	24.90	25.01	25.10	
5	QPSK	1	12	24.93	24.93	24.72	25.7
5	QPSK	1	24	24.88	24.86	24.85	
5	QPSK	12	0	24.16	24.22	24.01	24.7
5	QPSK	12	7	24.05	24.02	23.93	
5	QPSK	12	13	24.06	24.08	23.92	
5	QPSK	25	0	24.11	24.08	23.95	24.7
5	16QAM	1	0	24.15	24.37	24.24	
5	16QAM	1	12	24.00	24.26	24.23	
5	16QAM	1	24	23.99	24.13	24.12	23.7
5	16QAM	12	0	23.12	23.21	23.01	
5	16QAM	12	7	23.11	23.10	22.92	
5	16QAM	12	13	22.96	23.04	23.07	23.7
5	16QAM	25	0	23.16	23.03	22.94	
5	64QAM	1	0	23.29	23.26	23.06	
5	64QAM	1	12	23.16	23.15	23.12	23.7
5	64QAM	1	24	22.98	23.07	23.04	
5	64QAM	12	0	22.11	22.04	22.04	
5	64QAM	12	7	22.01	22.16	21.95	22.7
5	64QAM	12	13	22.02	21.97	22.02	
5	64QAM	25	0	22.05	22.13	21.97	
5	256QAM	1	0	20.58	20.49	20.45	20.7
5	256QAM	1	12	20.36	20.37	20.29	
5	256QAM	1	24	20.26	20.28	20.29	
5	256QAM	12	0	20.33	20.35	20.41	20.7
5	256QAM	12	7	20.34	20.37	20.26	
5	256QAM	12	13	20.21	20.25	20.28	



FCC SAR TEST REPORT

Report No. : FA3D2001D

5	256QAM	25	0	20.24	20.33	20.39	Tune-up limit (dBm)
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.95	25.13	25.09	25.7
3	QPSK	1	8	24.97	24.80	24.87	
3	QPSK	1	14	25.00	24.86	24.92	
3	QPSK	8	0	24.16	24.14	24.08	24.7
3	QPSK	8	4	24.10	24.03	24.02	
3	QPSK	8	7	24.15	24.16	23.92	
3	QPSK	15	0	24.18	24.13	23.95	24.7
3	16QAM	1	0	24.15	24.29	24.34	
3	16QAM	1	8	24.04	24.28	24.10	
3	16QAM	1	14	24.00	24.09	24.17	23.7
3	16QAM	8	0	23.03	23.19	23.13	
3	16QAM	8	4	23.01	23.08	23.05	
3	16QAM	8	7	23.15	23.15	22.96	23.7
3	16QAM	15	0	23.14	23.01	23.03	
3	64QAM	1	0	23.23	23.26	23.20	
3	64QAM	1	8	23.02	23.01	23.03	23.7
3	64QAM	1	14	23.07	23.04	22.92	
3	64QAM	8	0	22.10	22.10	22.08	22.7
3	64QAM	8	4	22.09	22.11	22.02	
3	64QAM	8	7	22.02	22.17	22.09	
3	64QAM	15	0	21.99	22.10	22.08	20.7
3	256QAM	1	0	20.58	20.45	20.46	
3	256QAM	1	8	20.30	20.28	20.34	
3	256QAM	1	14	20.34	20.35	20.24	20.7
3	256QAM	8	0	20.31	20.31	20.27	
3	256QAM	8	4	20.35	20.24	20.33	
3	256QAM	8	7	20.21	20.33	20.30	20.7
3	256QAM	15	0	20.24	20.37	20.29	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	25.03	25.04	25.09	25.7
1.4	QPSK	1	3	24.85	24.82	24.84	
1.4	QPSK	1	5	24.89	24.85	24.96	
1.4	QPSK	3	0	24.04	24.15	24.02	24.7
1.4	QPSK	3	1	24.12	24.05	24.01	
1.4	QPSK	3	3	24.14	24.14	24.06	
1.4	QPSK	6	0	24.07	24.16	23.94	24.7
1.4	16QAM	1	0	24.23	24.23	24.15	
1.4	16QAM	1	3	24.05	24.20	24.13	
1.4	16QAM	1	5	24.00	24.18	24.15	23.7
1.4	16QAM	3	0	23.03	23.21	23.02	
1.4	16QAM	3	1	23.05	23.20	22.94	
1.4	16QAM	3	3	23.14	23.16	22.98	23.7
1.4	16QAM	6	0	23.15	23.00	23.03	
1.4	64QAM	1	0	23.21	23.24	23.18	
1.4	64QAM	1	3	23.04	23.16	23.05	22.7
1.4	64QAM	1	5	23.08	23.16	22.87	
1.4	64QAM	3	0	22.12	22.06	22.14	
1.4	64QAM	3	1	22.00	22.13	22.11	20.7
1.4	64QAM	3	3	22.01	22.01	21.98	
1.4	64QAM	6	0	22.01	22.09	22.12	
1.4	256QAM	1	0	20.53	20.54	20.34	20.7
1.4	256QAM	1	3	20.48	20.32	20.36	
1.4	256QAM	1	5	20.28	20.28	20.20	
1.4	256QAM	3	0	20.43	20.48	20.26	20.7
1.4	256QAM	3	1	20.34	20.33	20.27	
1.4	256QAM	3	3	20.39	20.32	20.27	
1.4	256QAM	6	0	20.22	20.38	20.37	20.7



<LTE Band 5_Ant 0_Index 10>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	24.41	24.42	24.36	
10	QPSK	1	25	24.26	24.30	24.22	25.7
10	QPSK	1	49	24.26	24.31	24.22	
10	QPSK	25	0	23.46	23.51	23.42	
10	QPSK	25	12	23.42	23.49	23.35	24.7
10	QPSK	25	25	23.42	23.45	23.36	
10	QPSK	50	0	23.45	23.48	23.38	
10	16QAM	1	0	23.63	23.64	23.71	24.7
10	16QAM	1	25	23.55	23.59	23.57	
10	16QAM	1	49	23.46	23.62	23.47	
10	16QAM	25	0	22.43	22.49	22.42	23.7
10	16QAM	25	12	22.44	22.46	22.37	
10	16QAM	25	25	22.42	22.42	22.39	
10	16QAM	50	0	22.41	22.46	22.40	23.7
10	64QAM	1	0	22.59	22.62	22.62	
10	64QAM	1	25	22.51	22.57	22.54	
10	64QAM	1	49	22.50	22.61	22.41	22.7
10	64QAM	25	0	21.42	21.45	21.42	
10	64QAM	25	12	21.42	21.45	21.41	
10	64QAM	25	25	21.40	21.41	21.35	20.7
10	64QAM	50	0	21.41	21.45	21.43	
10	256QAM	1	0	19.87	19.95	19.89	
10	256QAM	1	25	19.82	19.88	19.83	20.7
10	256QAM	1	49	19.78	19.88	19.66	
10	256QAM	25	0	19.75	19.79	19.76	
10	256QAM	25	12	19.73	19.70	19.68	20.7
10	256QAM	25	25	19.72	19.74	19.68	
10	256QAM	50	0	19.70	19.80	19.71	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	24.36	24.35	24.31	
5	QPSK	1	12	24.22	24.22	24.13	25.7
5	QPSK	1	24	24.18	24.28	24.20	
5	QPSK	12	0	23.41	23.49	23.34	24.7
5	QPSK	12	7	23.41	23.46	23.28	
5	QPSK	12	13	23.39	23.42	23.26	
5	QPSK	25	0	23.45	23.43	23.31	24.7
5	16QAM	1	0	23.56	23.54	23.62	
5	16QAM	1	12	23.51	23.57	23.57	
5	16QAM	1	24	23.45	23.56	23.38	23.7
5	16QAM	12	0	22.43	22.44	22.37	
5	16QAM	12	7	22.38	22.37	22.34	
5	16QAM	12	13	22.42	22.33	22.36	23.7
5	16QAM	25	0	22.39	22.45	22.33	
5	64QAM	1	0	22.51	22.55	22.62	
5	64QAM	1	12	22.45	22.47	22.45	23.7
5	64QAM	1	24	22.45	22.53	22.40	
5	64QAM	12	0	21.33	21.43	21.38	
5	64QAM	12	7	21.38	21.41	21.35	22.7
5	64QAM	12	13	21.37	21.37	21.25	
5	64QAM	25	0	21.36	21.41	21.38	
5	256QAM	1	0	19.87	19.88	19.82	20.7
5	256QAM	1	12	19.81	19.78	19.82	
5	256QAM	1	24	19.76	19.86	19.65	
5	256QAM	12	0	19.70	19.78	19.73	20.7
5	256QAM	12	7	19.68	19.61	19.59	
5	256QAM	12	13	19.66	19.67	19.63	



FCC SAR TEST REPORT

Report No. : FA3D2001D

5	256QAM	25	0	19.68	19.78	19.71	Tune-up limit (dBm)
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.38	24.35	24.25	25.7
3	QPSK	1	8	24.23	24.30	24.17	
3	QPSK	1	14	24.26	24.31	24.19	
3	QPSK	8	0	23.44	23.49	23.37	24.7
3	QPSK	8	4	23.38	23.40	23.34	
3	QPSK	8	7	23.35	23.36	23.30	
3	QPSK	15	0	23.38	23.40	23.32	24.7
3	16QAM	1	0	23.57	23.58	23.61	
3	16QAM	1	8	23.53	23.49	23.54	
3	16QAM	1	14	23.42	23.59	23.42	23.7
3	16QAM	8	0	22.33	22.43	22.41	
3	16QAM	8	4	22.39	22.42	22.34	
3	16QAM	8	7	22.41	22.42	22.39	23.7
3	16QAM	15	0	22.36	22.44	22.36	
3	64QAM	1	0	22.57	22.57	22.58	
3	64QAM	1	8	22.50	22.53	22.44	23.7
3	64QAM	1	14	22.47	22.61	22.33	
3	64QAM	8	0	21.40	21.41	21.42	22.7
3	64QAM	8	4	21.40	21.35	21.37	
3	64QAM	8	7	21.33	21.34	21.27	
3	64QAM	15	0	21.39	21.39	21.33	20.7
3	256QAM	1	0	19.77	19.95	19.85	
3	256QAM	1	8	19.78	19.87	19.74	
3	256QAM	1	14	19.74	19.85	19.59	20.7
3	256QAM	8	0	19.65	19.74	19.66	
3	256QAM	8	4	19.67	19.66	19.68	
3	256QAM	8	7	19.71	19.64	19.64	20.7
3	256QAM	15	0	19.70	19.75	19.67	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	24.29	24.39	24.25	25.7
1.4	QPSK	1	3	24.24	24.26	24.13	
1.4	QPSK	1	5	24.17	24.30	24.13	
1.4	QPSK	3	0	24.21	24.34	24.21	24.7
1.4	QPSK	3	1	24.22	24.29	24.17	
1.4	QPSK	3	3	24.13	24.20	24.15	
1.4	QPSK	6	0	23.40	23.45	23.32	24.7
1.4	16QAM	1	0	23.57	23.62	23.69	
1.4	16QAM	1	3	23.49	23.58	23.51	
1.4	16QAM	1	5	23.46	23.60	23.47	23.7
1.4	16QAM	3	0	23.35	23.45	23.35	
1.4	16QAM	3	1	23.40	23.42	23.32	
1.4	16QAM	3	3	23.38	23.48	23.35	23.7
1.4	16QAM	6	0	22.39	22.40	22.39	
1.4	64QAM	1	0	22.59	22.55	22.61	
1.4	64QAM	1	3	22.47	22.57	22.52	23.7
1.4	64QAM	1	5	22.40	22.60	22.38	
1.4	64QAM	3	0	22.42	22.46	22.40	
1.4	64QAM	3	1	22.35	22.41	22.32	22.7
1.4	64QAM	3	3	22.37	22.39	22.31	
1.4	64QAM	6	0	21.40	21.44	21.37	
1.4	256QAM	1	0	19.78	19.89	19.80	20.7
1.4	256QAM	1	3	19.73	19.81	19.82	
1.4	256QAM	1	5	19.76	19.82	19.62	
1.4	256QAM	3	0	19.68	19.76	19.76	20.7
1.4	256QAM	3	1	19.67	19.68	19.62	
1.4	256QAM	3	3	19.64	19.70	19.62	
1.4	256QAM	6	0	19.65	19.73	19.69	20.7



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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)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	25.10	25.15	25.10	
10	QPSK	1	25	24.97	24.99	24.92	25.7
10	QPSK	1	49	25.02	25.04	24.97	
10	QPSK	25	0	24.20	24.27	24.14	
10	QPSK	25	12	24.17	24.19	24.11	24.7
10	QPSK	25	25	24.17	24.21	24.10	
10	QPSK	50	0	24.18	24.21	24.13	
10	16QAM	1	0	24.33	24.37	24.35	24.7
10	16QAM	1	25	24.20	24.29	24.30	
10	16QAM	1	49	24.19	24.23	24.18	
10	16QAM	25	0	23.17	23.22	23.16	23.7
10	16QAM	25	12	23.18	23.21	23.09	
10	16QAM	25	25	23.16	23.17	23.08	
10	16QAM	50	0	23.17	23.20	23.08	23.7
10	64QAM	1	0	23.34	23.35	23.23	
10	64QAM	1	25	23.21	23.20	23.13	
10	64QAM	1	49	23.18	23.18	23.07	22.7
10	64QAM	25	0	22.19	22.23	22.16	
10	64QAM	25	12	22.16	22.21	22.12	
10	64QAM	25	25	22.13	22.17	22.10	20.7
10	64QAM	50	0	22.15	22.18	22.17	
10	256QAM	1	0	20.60	20.65	20.46	
10	256QAM	1	25	20.50	20.48	20.40	20.7
10	256QAM	1	49	20.41	20.45	20.30	
10	256QAM	25	0	20.45	20.50	20.43	
10	256QAM	25	12	20.39	20.44	20.37	20.7
10	256QAM	25	25	20.39	20.40	20.39	
10	256QAM	50	0	20.35	20.47	20.39	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	24.90	25.01	25.10	
5	QPSK	1	12	24.93	24.93	24.72	25.7
5	QPSK	1	24	24.88	24.86	24.85	
5	QPSK	12	0	24.16	24.22	24.01	24.7
5	QPSK	12	7	24.05	24.02	23.93	
5	QPSK	12	13	24.06	24.08	23.92	
5	QPSK	25	0	24.11	24.08	23.95	24.7
5	16QAM	1	0	24.15	24.37	24.24	
5	16QAM	1	12	24.00	24.26	24.23	
5	16QAM	1	24	23.99	24.13	24.12	23.7
5	16QAM	12	0	23.12	23.21	23.01	
5	16QAM	12	7	23.11	23.10	22.92	
5	16QAM	12	13	22.96	23.04	23.07	23.7
5	16QAM	25	0	23.16	23.03	22.94	
5	64QAM	1	0	23.29	23.26	23.06	
5	64QAM	1	12	23.16	23.15	23.12	23.7
5	64QAM	1	24	22.98	23.07	23.04	
5	64QAM	12	0	22.11	22.04	22.04	
5	64QAM	12	7	22.01	22.16	21.95	22.7
5	64QAM	12	13	22.02	21.97	22.02	
5	64QAM	25	0	22.05	22.13	21.97	
5	256QAM	1	0	20.58	20.49	20.45	20.7
5	256QAM	1	12	20.36	20.37	20.29	
5	256QAM	1	24	20.26	20.28	20.29	
5	256QAM	12	0	20.33	20.35	20.41	20.7
5	256QAM	12	7	20.34	20.37	20.26	
5	256QAM	12	13	20.21	20.25	20.28	



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Report No. : FA3D2001D

5	256QAM	25	0	20.24	20.33	20.39	Tune-up limit (dBm)
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.95	25.13	25.09	25.7
3	QPSK	1	8	24.97	24.80	24.87	
3	QPSK	1	14	25.00	24.86	24.92	
3	QPSK	8	0	24.16	24.14	24.08	24.7
3	QPSK	8	4	24.10	24.03	24.02	
3	QPSK	8	7	24.15	24.16	23.92	
3	QPSK	15	0	24.18	24.13	23.95	24.7
3	16QAM	1	0	24.15	24.29	24.34	
3	16QAM	1	8	24.04	24.28	24.10	
3	16QAM	1	14	24.00	24.09	24.17	23.7
3	16QAM	8	0	23.03	23.19	23.13	
3	16QAM	8	4	23.01	23.08	23.05	
3	16QAM	8	7	23.15	23.15	22.96	23.7
3	16QAM	15	0	23.14	23.01	23.03	
3	64QAM	1	0	23.23	23.26	23.20	
3	64QAM	1	8	23.02	23.01	23.03	23.7
3	64QAM	1	14	23.07	23.04	22.92	
3	64QAM	8	0	22.10	22.10	22.08	22.7
3	64QAM	8	4	22.09	22.11	22.02	
3	64QAM	8	7	22.02	22.17	22.09	
3	64QAM	15	0	21.99	22.10	22.08	20.7
3	256QAM	1	0	20.58	20.45	20.46	
3	256QAM	1	8	20.30	20.28	20.34	
3	256QAM	1	14	20.34	20.35	20.24	20.7
3	256QAM	8	0	20.31	20.31	20.27	
3	256QAM	8	4	20.35	20.24	20.33	
3	256QAM	8	7	20.21	20.33	20.30	20.7
3	256QAM	15	0	20.24	20.37	20.29	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	25.03	25.04	25.09	25.7
1.4	QPSK	1	3	24.85	24.82	24.84	
1.4	QPSK	1	5	24.89	24.85	24.96	
1.4	QPSK	3	0	24.04	24.15	24.02	24.7
1.4	QPSK	3	1	24.12	24.05	24.01	
1.4	QPSK	3	3	24.14	24.14	24.06	
1.4	QPSK	6	0	24.07	24.16	23.94	24.7
1.4	16QAM	1	0	24.23	24.23	24.15	
1.4	16QAM	1	3	24.05	24.20	24.13	
1.4	16QAM	1	5	24.00	24.18	24.15	23.7
1.4	16QAM	3	0	23.03	23.21	23.02	
1.4	16QAM	3	1	23.05	23.20	22.94	
1.4	16QAM	3	3	23.14	23.16	22.98	23.7
1.4	16QAM	6	0	23.15	23.00	23.03	
1.4	64QAM	1	0	23.21	23.24	23.18	
1.4	64QAM	1	3	23.04	23.16	23.05	22.7
1.4	64QAM	1	5	23.08	23.16	22.87	
1.4	64QAM	3	0	22.12	22.06	22.14	
1.4	64QAM	3	1	22.00	22.13	22.11	20.7
1.4	64QAM	3	3	22.01	22.01	21.98	
1.4	64QAM	6	0	22.01	22.09	22.12	
1.4	256QAM	1	0	20.53	20.54	20.34	20.7
1.4	256QAM	1	3	20.48	20.32	20.36	
1.4	256QAM	1	5	20.28	20.28	20.20	
1.4	256QAM	3	0	20.43	20.48	20.26	20.7
1.4	256QAM	3	1	20.34	20.33	20.27	
1.4	256QAM	3	3	20.39	20.32	20.27	
1.4	256QAM	6	0	20.22	20.38	20.37	20.7



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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)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	24.41	24.42	24.36	
10	QPSK	1	25	24.26	24.30	24.22	25.7
10	QPSK	1	49	24.26	24.31	24.22	
10	QPSK	25	0	23.46	23.51	23.42	
10	QPSK	25	12	23.42	23.49	23.35	24.7
10	QPSK	25	25	23.42	23.45	23.36	
10	QPSK	50	0	23.45	23.48	23.38	
10	16QAM	1	0	23.63	23.64	23.71	24.7
10	16QAM	1	25	23.55	23.59	23.57	
10	16QAM	1	49	23.46	23.62	23.47	
10	16QAM	25	0	22.43	22.49	22.42	23.7
10	16QAM	25	12	22.44	22.46	22.37	
10	16QAM	25	25	22.42	22.42	22.39	
10	16QAM	50	0	22.41	22.46	22.40	23.7
10	64QAM	1	0	22.59	22.62	22.62	
10	64QAM	1	25	22.51	22.57	22.54	
10	64QAM	1	49	22.50	22.61	22.41	22.7
10	64QAM	25	0	21.42	21.45	21.42	
10	64QAM	25	12	21.42	21.45	21.41	
10	64QAM	25	25	21.40	21.41	21.35	20.7
10	64QAM	50	0	21.41	21.45	21.43	
10	256QAM	1	0	19.87	19.95	19.89	
10	256QAM	1	25	19.82	19.88	19.83	20.7
10	256QAM	1	49	19.78	19.88	19.66	
10	256QAM	25	0	19.75	19.79	19.76	
10	256QAM	25	12	19.73	19.70	19.68	20.7
10	256QAM	25	25	19.72	19.74	19.68	
10	256QAM	50	0	19.70	19.80	19.71	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	24.36	24.35	24.31	
5	QPSK	1	12	24.22	24.22	24.13	25.7
5	QPSK	1	24	24.18	24.28	24.20	
5	QPSK	12	0	23.41	23.49	23.34	24.7
5	QPSK	12	7	23.41	23.46	23.28	
5	QPSK	12	13	23.39	23.42	23.26	
5	QPSK	25	0	23.45	23.43	23.31	24.7
5	16QAM	1	0	23.56	23.54	23.62	
5	16QAM	1	12	23.51	23.57	23.57	
5	16QAM	1	24	23.45	23.56	23.38	23.7
5	16QAM	12	0	22.43	22.44	22.37	
5	16QAM	12	7	22.38	22.37	22.34	
5	16QAM	12	13	22.42	22.33	22.36	23.7
5	16QAM	25	0	22.39	22.45	22.33	
5	64QAM	1	0	22.51	22.55	22.62	
5	64QAM	1	12	22.45	22.47	22.45	23.7
5	64QAM	1	24	22.45	22.53	22.40	
5	64QAM	12	0	21.33	21.43	21.38	
5	64QAM	12	7	21.38	21.41	21.35	22.7
5	64QAM	12	13	21.37	21.37	21.25	
5	64QAM	25	0	21.36	21.41	21.38	
5	256QAM	1	0	19.87	19.88	19.82	20.7
5	256QAM	1	12	19.81	19.78	19.82	
5	256QAM	1	24	19.76	19.86	19.65	
5	256QAM	12	0	19.70	19.78	19.73	20.7
5	256QAM	12	7	19.68	19.61	19.59	
5	256QAM	12	13	19.66	19.67	19.63	



FCC SAR TEST REPORT

Report No. : FA3D2001D

5	256QAM	25	0	19.68	19.78	19.71	Tune-up limit (dBm)
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.38	24.35	24.25	25.7
3	QPSK	1	8	24.23	24.30	24.17	
3	QPSK	1	14	24.26	24.31	24.19	
3	QPSK	8	0	23.44	23.49	23.37	24.7
3	QPSK	8	4	23.38	23.40	23.34	
3	QPSK	8	7	23.35	23.36	23.30	
3	QPSK	15	0	23.38	23.40	23.32	24.7
3	16QAM	1	0	23.57	23.58	23.61	
3	16QAM	1	8	23.53	23.49	23.54	
3	16QAM	1	14	23.42	23.59	23.42	23.7
3	16QAM	8	0	22.33	22.43	22.41	
3	16QAM	8	4	22.39	22.42	22.34	
3	16QAM	8	7	22.41	22.42	22.39	23.7
3	16QAM	15	0	22.36	22.44	22.36	
3	64QAM	1	0	22.57	22.57	22.58	
3	64QAM	1	8	22.50	22.53	22.44	23.7
3	64QAM	1	14	22.47	22.61	22.33	
3	64QAM	8	0	21.40	21.41	21.42	22.7
3	64QAM	8	4	21.40	21.35	21.37	
3	64QAM	8	7	21.33	21.34	21.27	
3	64QAM	15	0	21.39	21.39	21.33	20.7
3	256QAM	1	0	19.77	19.95	19.85	
3	256QAM	1	8	19.78	19.87	19.74	
3	256QAM	1	14	19.74	19.85	19.59	20.7
3	256QAM	8	0	19.65	19.74	19.66	
3	256QAM	8	4	19.67	19.66	19.68	
3	256QAM	8	7	19.71	19.64	19.64	20.7
3	256QAM	15	0	19.70	19.75	19.67	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	24.29	24.39	24.25	25.7
1.4	QPSK	1	3	24.24	24.26	24.13	
1.4	QPSK	1	5	24.17	24.30	24.13	
1.4	QPSK	3	0	24.21	24.34	24.21	24.7
1.4	QPSK	3	1	24.22	24.29	24.17	
1.4	QPSK	3	3	24.13	24.20	24.15	
1.4	QPSK	6	0	23.40	23.45	23.32	24.7
1.4	16QAM	1	0	23.57	23.62	23.69	
1.4	16QAM	1	3	23.49	23.58	23.51	
1.4	16QAM	1	5	23.46	23.60	23.47	23.7
1.4	16QAM	3	0	23.35	23.45	23.35	
1.4	16QAM	3	1	23.40	23.42	23.32	
1.4	16QAM	3	3	23.38	23.48	23.35	23.7
1.4	16QAM	6	0	22.39	22.40	22.39	
1.4	64QAM	1	0	22.59	22.55	22.61	
1.4	64QAM	1	3	22.47	22.57	22.52	23.7
1.4	64QAM	1	5	22.40	22.60	22.38	
1.4	64QAM	3	0	22.42	22.46	22.40	
1.4	64QAM	3	1	22.35	22.41	22.32	22.7
1.4	64QAM	3	3	22.37	22.39	22.31	
1.4	64QAM	6	0	21.40	21.44	21.37	
1.4	256QAM	1	0	19.78	19.89	19.80	20.7
1.4	256QAM	1	3	19.73	19.81	19.82	
1.4	256QAM	1	5	19.76	19.82	19.62	
1.4	256QAM	3	0	19.68	19.76	19.76	20.7
1.4	256QAM	3	1	19.67	19.68	19.62	
1.4	256QAM	3	3	19.64	19.70	19.62	
1.4	256QAM	6	0	19.65	19.73	19.69	20.7



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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)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	25.10	25.15	25.10	
10	QPSK	1	25	24.97	24.99	24.92	25.7
10	QPSK	1	49	25.02	25.04	24.97	
10	QPSK	25	0	24.20	24.27	24.14	
10	QPSK	25	12	24.17	24.19	24.11	24.7
10	QPSK	25	25	24.17	24.21	24.10	
10	QPSK	50	0	24.18	24.21	24.13	
10	16QAM	1	0	24.33	24.37	24.35	24.7
10	16QAM	1	25	24.20	24.29	24.30	
10	16QAM	1	49	24.19	24.23	24.18	
10	16QAM	25	0	23.17	23.22	23.16	23.7
10	16QAM	25	12	23.18	23.21	23.09	
10	16QAM	25	25	23.16	23.17	23.08	
10	16QAM	50	0	23.17	23.20	23.08	23.7
10	64QAM	1	0	23.34	23.35	23.23	
10	64QAM	1	25	23.21	23.20	23.13	
10	64QAM	1	49	23.18	23.18	23.07	22.7
10	64QAM	25	0	22.19	22.23	22.16	
10	64QAM	25	12	22.16	22.21	22.12	
10	64QAM	25	25	22.13	22.17	22.10	20.7
10	64QAM	50	0	22.15	22.18	22.17	
10	256QAM	1	0	20.60	20.65	20.46	
10	256QAM	1	25	20.50	20.48	20.40	20.7
10	256QAM	1	49	20.41	20.45	20.30	
10	256QAM	25	0	20.45	20.50	20.43	
10	256QAM	25	12	20.39	20.44	20.37	20.7
10	256QAM	25	25	20.39	20.40	20.39	
10	256QAM	50	0	20.35	20.47	20.39	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	24.90	25.01	25.10	
5	QPSK	1	12	24.93	24.93	24.72	25.7
5	QPSK	1	24	24.88	24.86	24.85	
5	QPSK	12	0	24.16	24.22	24.01	24.7
5	QPSK	12	7	24.05	24.02	23.93	
5	QPSK	12	13	24.06	24.08	23.92	
5	QPSK	25	0	24.11	24.08	23.95	24.7
5	16QAM	1	0	24.15	24.37	24.24	
5	16QAM	1	12	24.00	24.26	24.23	
5	16QAM	1	24	23.99	24.13	24.12	23.7
5	16QAM	12	0	23.12	23.21	23.01	
5	16QAM	12	7	23.11	23.10	22.92	
5	16QAM	12	13	22.96	23.04	23.07	23.7
5	16QAM	25	0	23.16	23.03	22.94	
5	64QAM	1	0	23.29	23.26	23.06	
5	64QAM	1	12	23.16	23.15	23.12	23.7
5	64QAM	1	24	22.98	23.07	23.04	
5	64QAM	12	0	22.11	22.04	22.04	
5	64QAM	12	7	22.01	22.16	21.95	22.7
5	64QAM	12	13	22.02	21.97	22.02	
5	64QAM	25	0	22.05	22.13	21.97	
5	256QAM	1	0	20.58	20.49	20.45	20.7
5	256QAM	1	12	20.36	20.37	20.29	
5	256QAM	1	24	20.26	20.28	20.29	
5	256QAM	12	0	20.33	20.35	20.41	20.7
5	256QAM	12	7	20.34	20.37	20.26	
5	256QAM	12	13	20.21	20.25	20.28	



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5	256QAM	25	0	20.24	20.33	20.39	Tune-up limit (dBm)
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.95	25.13	25.09	25.7
3	QPSK	1	8	24.97	24.80	24.87	
3	QPSK	1	14	25.00	24.86	24.92	
3	QPSK	8	0	24.16	24.14	24.08	24.7
3	QPSK	8	4	24.10	24.03	24.02	
3	QPSK	8	7	24.15	24.16	23.92	
3	QPSK	15	0	24.18	24.13	23.95	24.7
3	16QAM	1	0	24.15	24.29	24.34	
3	16QAM	1	8	24.04	24.28	24.10	
3	16QAM	1	14	24.00	24.09	24.17	23.7
3	16QAM	8	0	23.03	23.19	23.13	
3	16QAM	8	4	23.01	23.08	23.05	
3	16QAM	8	7	23.15	23.15	22.96	23.7
3	16QAM	15	0	23.14	23.01	23.03	
3	64QAM	1	0	23.23	23.26	23.20	
3	64QAM	1	8	23.02	23.01	23.03	23.7
3	64QAM	1	14	23.07	23.04	22.92	
3	64QAM	8	0	22.10	22.10	22.08	22.7
3	64QAM	8	4	22.09	22.11	22.02	
3	64QAM	8	7	22.02	22.17	22.09	
3	64QAM	15	0	21.99	22.10	22.08	20.7
3	256QAM	1	0	20.58	20.45	20.46	
3	256QAM	1	8	20.30	20.28	20.34	
3	256QAM	1	14	20.34	20.35	20.24	20.7
3	256QAM	8	0	20.31	20.31	20.27	
3	256QAM	8	4	20.35	20.24	20.33	
3	256QAM	8	7	20.21	20.33	20.30	20.7
3	256QAM	15	0	20.24	20.37	20.29	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	25.03	25.04	25.09	25.7
1.4	QPSK	1	3	24.85	24.82	24.84	
1.4	QPSK	1	5	24.89	24.85	24.96	
1.4	QPSK	3	0	24.04	24.15	24.02	24.7
1.4	QPSK	3	1	24.12	24.05	24.01	
1.4	QPSK	3	3	24.14	24.14	24.06	
1.4	QPSK	6	0	24.07	24.16	23.94	24.7
1.4	16QAM	1	0	24.23	24.23	24.15	
1.4	16QAM	1	3	24.05	24.20	24.13	
1.4	16QAM	1	5	24.00	24.18	24.15	23.7
1.4	16QAM	3	0	23.03	23.21	23.02	
1.4	16QAM	3	1	23.05	23.20	22.94	
1.4	16QAM	3	3	23.14	23.16	22.98	23.7
1.4	16QAM	6	0	23.15	23.00	23.03	
1.4	64QAM	1	0	23.21	23.24	23.18	
1.4	64QAM	1	3	23.04	23.16	23.05	22.7
1.4	64QAM	1	5	23.08	23.16	22.87	
1.4	64QAM	3	0	22.12	22.06	22.14	
1.4	64QAM	3	1	22.00	22.13	22.11	20.7
1.4	64QAM	3	3	22.01	22.01	21.98	
1.4	64QAM	6	0	22.01	22.09	22.12	
1.4	256QAM	1	0	20.53	20.54	20.34	20.7
1.4	256QAM	1	3	20.48	20.32	20.36	
1.4	256QAM	1	5	20.28	20.28	20.20	
1.4	256QAM	3	0	20.43	20.48	20.26	20.7
1.4	256QAM	3	1	20.34	20.33	20.27	
1.4	256QAM	3	3	20.39	20.32	20.27	
1.4	256QAM	6	0	20.22	20.38	20.37	20.7



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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)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	23.91	23.88	23.90	
20	QPSK	1	49	23.86	23.86	23.87	25
20	QPSK	1	99	23.85	23.84	23.86	
20	QPSK	50	0	22.98	22.92	22.97	
20	QPSK	50	24	22.95	22.90	22.96	24
20	QPSK	50	50	22.96	22.91	22.95	
20	QPSK	100	0	22.97	22.90	22.95	
20	16QAM	1	0	23.11	23.07	23.15	24
20	16QAM	1	49	23.15	23.19	23.21	
20	16QAM	1	99	23.33	23.18	23.28	
20	16QAM	50	0	21.92	21.90	21.94	23
20	16QAM	50	24	21.93	21.91	21.95	
20	16QAM	50	50	21.95	21.95	22.00	
20	16QAM	100	0	21.94	21.92	21.98	23
20	64QAM	1	0	21.96	22.00	22.06	
20	64QAM	1	49	21.98	22.02	22.08	
20	64QAM	1	99	22.14	22.07	22.15	22
20	64QAM	50	0	20.89	20.92	20.97	
20	64QAM	50	24	20.94	20.93	20.96	
20	64QAM	50	50	20.96	20.97	20.98	20
20	64QAM	100	0	20.92	20.96	20.98	
20	256QAM	1	0	19.29	19.32	19.38	
20	256QAM	1	49	19.28	19.33	19.39	20
20	256QAM	1	99	19.42	19.37	19.42	
20	256QAM	50	0	19.17	19.17	19.26	
20	256QAM	50	24	19.25	19.25	19.21	20
20	256QAM	50	50	19.28	19.31	19.27	
20	256QAM	100	0	19.20	19.24	19.32	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	23.84	23.85	23.82	
15	QPSK	1	37	23.86	23.79	23.85	25
15	QPSK	1	74	23.79	23.73	23.83	
15	QPSK	36	0	22.94	22.86	22.97	24
15	QPSK	36	20	22.88	22.82	22.93	
15	QPSK	36	39	22.88	22.90	22.94	
15	QPSK	75	0	22.94	22.83	22.95	24
15	16QAM	1	0	23.07	23.06	23.05	
15	16QAM	1	37	23.09	23.14	23.20	
15	16QAM	1	74	23.27	23.13	23.22	23
15	16QAM	36	0	21.89	21.82	21.92	
15	16QAM	36	20	21.92	21.88	21.89	
15	16QAM	36	39	21.93	21.92	21.96	23
15	16QAM	75	0	21.86	21.83	21.93	
15	64QAM	1	0	21.89	21.95	22.00	
15	64QAM	1	37	21.94	21.97	22.08	23
15	64QAM	1	74	22.05	22.04	22.13	
15	64QAM	36	0	20.84	20.82	20.97	
15	64QAM	36	20	20.89	20.93	20.94	22
15	64QAM	36	39	20.96	20.87	20.89	
15	64QAM	75	0	20.82	20.95	20.89	
15	256QAM	1	0	19.26	19.27	19.32	20
15	256QAM	1	37	19.18	19.26	19.37	
15	256QAM	1	74	19.34	19.29	19.42	
15	256QAM	36	0	19.16	19.07	19.20	20
15	256QAM	36	20	19.16	19.17	19.18	
15	256QAM	36	39	19.19	19.28	19.26	



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15	256QAM	75	0	19.18	19.20	19.31	Tune-up limit (dBm)
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	23.82	23.81	23.79	25
10	QPSK	1	25	23.81	23.73	23.86	
10	QPSK	1	49	23.76	23.76	23.83	
10	QPSK	25	0	22.97	22.83	22.92	24
10	QPSK	25	12	22.87	22.87	22.96	
10	QPSK	25	25	22.94	22.84	22.94	
10	QPSK	50	0	22.96	22.83	22.91	24
10	16QAM	1	0	23.04	23.03	23.08	
10	16QAM	1	25	23.05	23.16	23.17	
10	16QAM	1	49	23.31	23.16	23.20	23
10	16QAM	25	0	21.85	21.80	21.86	
10	16QAM	25	12	21.92	21.82	21.91	
10	16QAM	25	25	21.88	21.92	21.99	23
10	16QAM	50	0	21.85	21.88	21.88	
10	64QAM	1	0	21.88	21.98	22.04	
10	64QAM	1	25	21.91	21.96	22.05	23
10	64QAM	1	49	22.11	22.06	22.06	
10	64QAM	25	0	20.87	20.92	20.97	
10	64QAM	25	12	20.89	20.91	20.96	22
10	64QAM	25	25	20.90	20.95	20.96	
10	64QAM	50	0	20.88	20.95	20.88	
10	256QAM	1	0	19.23	19.30	19.33	20
10	256QAM	1	25	19.18	19.32	19.34	
10	256QAM	1	49	19.41	19.29	19.35	
10	256QAM	25	0	19.16	19.08	19.17	20
10	256QAM	25	12	19.22	19.21	19.19	
10	256QAM	25	25	19.20	19.21	19.20	
10	256QAM	50	0	19.17	19.14	19.30	Tune-up limit (dBm)
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	23.86	23.85	23.83	25
5	QPSK	1	12	23.85	23.75	23.85	
5	QPSK	1	24	23.84	23.76	23.77	
5	QPSK	12	0	22.89	22.92	22.89	24
5	QPSK	12	7	22.95	22.86	22.93	
5	QPSK	12	13	22.88	22.83	22.87	
5	QPSK	25	0	22.94	22.83	22.85	24
5	16QAM	1	0	23.08	23.03	23.11	
5	16QAM	1	12	23.13	23.09	23.15	
5	16QAM	1	24	23.25	23.13	23.25	23
5	16QAM	12	0	21.92	21.90	21.94	
5	16QAM	12	7	21.90	21.84	21.91	
5	16QAM	12	13	21.91	21.88	21.98	23
5	16QAM	25	0	21.84	21.87	21.92	
5	64QAM	1	0	21.88	21.91	21.96	
5	64QAM	1	12	21.89	22.02	21.98	23
5	64QAM	1	24	22.10	21.98	22.05	
5	64QAM	12	0	20.87	20.86	20.88	
5	64QAM	12	7	20.84	20.91	20.90	22
5	64QAM	12	13	20.92	20.92	20.90	
5	64QAM	25	0	20.85	20.96	20.97	
5	256QAM	1	0	19.29	19.27	19.34	20
5	256QAM	1	12	19.21	19.27	19.33	
5	256QAM	1	24	19.37	19.33	19.41	
5	256QAM	12	0	19.07	19.13	19.23	20
5	256QAM	12	7	19.20	19.17	19.19	
5	256QAM	12	13	19.28	19.24	19.24	
5	256QAM	25	0	19.17	19.18	19.31	



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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)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	17.85	17.86	17.82	
20	QPSK	1	49	17.85	17.80	17.80	18.5
20	QPSK	1	99	17.82	17.72	17.67	
20	QPSK	50	0	17.78	17.80	17.75	
20	QPSK	50	24	17.76	17.76	17.72	18.5
20	QPSK	50	50	17.69	17.77	17.63	
20	QPSK	100	0	17.70	17.78	17.78	
20	16QAM	1	0	17.84	17.74	17.73	18.5
20	16QAM	1	49	17.85	17.84	17.65	
20	16QAM	1	99	17.83	17.76	17.79	
20	16QAM	50	0	17.72	17.82	17.75	18.5
20	16QAM	50	24	17.84	17.67	17.77	
20	16QAM	50	50	17.79	17.84	17.74	
20	16QAM	100	0	17.85	17.71	17.81	18.5
20	64QAM	1	0	17.80	17.78	17.74	
20	64QAM	1	49	17.76	17.77	17.62	
20	64QAM	1	99	17.83	17.77	17.77	18.5
20	64QAM	50	0	17.82	17.81	17.68	
20	64QAM	50	24	17.72	17.78	17.72	
20	64QAM	50	50	17.74	17.76	17.65	18.5
20	64QAM	100	0	17.79	17.72	17.82	
20	256QAM	1	0	17.76	17.67	17.72	
20	256QAM	1	49	17.70	17.69	17.66	18.5
20	256QAM	1	99	17.73	17.84	17.68	
20	256QAM	50	0	17.78	17.85	17.64	
20	256QAM	50	24	17.79	17.78	17.75	18.5
20	256QAM	50	50	17.80	17.73	17.69	
20	256QAM	100	0	17.78	17.79	17.74	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	17.75	17.79	17.78	
15	QPSK	1	37	17.66	17.65	17.62	18.5
15	QPSK	1	74	17.68	17.60	17.67	
15	QPSK	36	0	17.72	17.74	17.71	18.5
15	QPSK	36	20	17.75	17.60	17.69	
15	QPSK	36	39	17.49	17.66	17.44	
15	QPSK	75	0	17.54	17.61	17.65	18.5
15	16QAM	1	0	17.72	17.64	17.64	
15	16QAM	1	37	17.78	17.82	17.51	
15	16QAM	1	74	17.66	17.61	17.76	18.5
15	16QAM	36	0	17.64	17.71	17.65	
15	16QAM	36	20	17.74	17.49	17.59	
15	16QAM	36	39	17.76	17.80	17.65	18.5
15	16QAM	75	0	17.65	17.71	17.64	
15	64QAM	1	0	17.67	17.76	17.72	
15	64QAM	1	37	17.72	17.72	17.54	18.5
15	64QAM	1	74	17.76	17.71	17.77	
15	64QAM	36	0	17.71	17.80	17.52	
15	64QAM	36	20	17.68	17.71	17.60	18.5
15	64QAM	36	39	17.64	17.63	17.46	
15	64QAM	75	0	17.69	17.66	17.75	
15	256QAM	1	0	17.73	17.59	17.54	18.5
15	256QAM	1	37	17.50	17.64	17.56	
15	256QAM	1	74	17.69	17.64	17.62	
15	256QAM	36	0	17.63	17.73	17.45	18.5
15	256QAM	36	20	17.59	17.74	17.69	
15	256QAM	36	39	17.66	17.57	17.66	



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15	256QAM	75	0	17.72	17.74	17.67	Tune-up limit (dBm)
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	17.76	17.85	17.77	18.5
10	QPSK	1	25	17.67	17.67	17.77	
10	QPSK	1	49	17.78	17.62	17.65	
10	QPSK	25	0	17.63	17.64	17.74	18.5
10	QPSK	25	12	17.68	17.63	17.69	
10	QPSK	25	25	17.52	17.65	17.47	
10	QPSK	50	0	17.69	17.78	17.63	18.5
10	16QAM	1	0	17.75	17.65	17.72	
10	16QAM	1	25	17.75	17.67	17.60	
10	16QAM	1	49	17.68	17.62	17.77	18.5
10	16QAM	25	0	17.69	17.65	17.68	
10	16QAM	25	12	17.81	17.50	17.57	
10	16QAM	25	25	17.63	17.70	17.68	18.5
10	16QAM	50	0	17.71	17.52	17.73	
10	64QAM	1	0	17.78	17.71	17.72	
10	64QAM	1	25	17.73	17.61	17.45	18.5
10	64QAM	1	49	17.72	17.75	17.77	
10	64QAM	25	0	17.72	17.74	17.63	
10	64QAM	25	12	17.69	17.61	17.59	18.5
10	64QAM	25	25	17.74	17.67	17.48	
10	64QAM	50	0	17.73	17.54	17.69	
10	256QAM	1	0	17.76	17.66	17.69	18.5
10	256QAM	1	25	17.50	17.60	17.60	
10	256QAM	1	49	17.72	17.79	17.54	
10	256QAM	25	0	17.72	17.74	17.60	18.5
10	256QAM	25	12	17.63	17.70	17.68	
10	256QAM	25	25	17.62	17.69	17.54	
10	256QAM	50	0	17.65	17.77	17.67	Tune-up limit (dBm)
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	17.73	17.83	17.82	18.5
5	QPSK	1	12	17.81	17.74	17.62	
5	QPSK	1	24	17.82	17.64	17.52	
5	QPSK	12	0	17.58	17.72	17.71	18.5
5	QPSK	12	7	17.69	17.60	17.70	
5	QPSK	12	13	17.57	17.75	17.47	
5	QPSK	25	0	17.69	17.65	17.62	18.5
5	16QAM	1	0	17.79	17.58	17.66	
5	16QAM	1	12	17.71	17.77	17.59	
5	16QAM	1	24	17.75	17.62	17.74	18.5
5	16QAM	12	0	17.69	17.79	17.69	
5	16QAM	12	7	17.83	17.61	17.63	
5	16QAM	12	13	17.72	17.77	17.61	18.5
5	16QAM	25	0	17.78	17.67	17.74	
5	64QAM	1	0	17.76	17.65	17.61	
5	64QAM	1	12	17.70	17.63	17.47	18.5
5	64QAM	1	24	17.70	17.71	17.68	
5	64QAM	12	0	17.73	17.61	17.58	
5	64QAM	12	7	17.62	17.59	17.71	18.5
5	64QAM	12	13	17.67	17.71	17.58	
5	64QAM	25	0	17.64	17.70	17.77	
5	256QAM	1	0	17.61	17.57	17.59	18.5
5	256QAM	1	12	17.61	17.52	17.65	
5	256QAM	1	24	17.63	17.68	17.64	
5	256QAM	12	0	17.61	17.83	17.53	18.5
5	256QAM	12	7	17.79	17.69	17.65	
5	256QAM	12	13	17.73	17.65	17.69	
5	256QAM	25	0	17.64	17.74	17.59	



<LTE Band 7_Ant 2_Index 9>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	18.40	18.33	18.39	
20	QPSK	1	49	18.27	18.30	18.38	19
20	QPSK	1	99	18.31	18.29	18.34	
20	QPSK	50	0	18.39	18.37	18.38	
20	QPSK	50	24	18.32	18.31	18.37	19
20	QPSK	50	50	18.35	18.33	18.31	
20	QPSK	100	0	18.31	18.31	18.36	
20	16QAM	1	0	18.17	18.24	18.34	19
20	16QAM	1	49	18.27	18.19	18.23	
20	16QAM	1	99	18.38	18.24	18.34	
20	16QAM	50	0	18.28	18.28	18.29	19
20	16QAM	50	24	18.31	18.34	18.33	
20	16QAM	50	50	18.32	18.33	18.37	
20	16QAM	100	0	18.26	18.29	18.31	19
20	64QAM	1	0	18.28	18.24	18.33	
20	64QAM	1	49	18.37	18.31	18.25	
20	64QAM	1	99	18.29	18.22	18.31	19
20	64QAM	50	0	18.27	18.28	18.31	
20	64QAM	50	24	18.31	18.32	18.35	
20	64QAM	50	50	18.32	18.33	18.35	19
20	64QAM	100	0	18.27	18.28	18.32	
20	256QAM	1	0	18.25	18.14	18.24	
20	256QAM	1	49	18.31	18.25	18.16	19
20	256QAM	1	99	18.20	18.17	18.29	
20	256QAM	50	0	18.20	18.23	18.29	
20	256QAM	50	24	18.23	18.22	18.35	19
20	256QAM	50	50	18.25	18.30	18.26	
20	256QAM	100	0	18.27	18.22	18.25	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	18.32	18.15	18.24	
15	QPSK	1	37	18.08	18.30	18.23	19
15	QPSK	1	74	18.25	18.22	18.15	
15	QPSK	36	0	18.38	18.37	18.34	
15	QPSK	36	20	18.26	18.11	18.21	19
15	QPSK	36	39	18.35	18.25	18.18	
15	QPSK	75	0	18.17	18.11	18.33	
15	16QAM	1	0	18.03	18.13	18.16	19
15	16QAM	1	37	18.16	18.13	18.07	
15	16QAM	1	74	18.36	18.12	18.34	
15	16QAM	36	0	18.23	18.16	18.24	19
15	16QAM	36	20	18.12	18.27	18.32	
15	16QAM	36	39	18.30	18.19	18.19	
15	16QAM	75	0	18.26	18.26	18.28	19
15	64QAM	1	0	18.24	18.08	18.20	
15	64QAM	1	37	18.19	18.18	18.11	
15	64QAM	1	74	18.13	18.12	18.28	19
15	64QAM	36	0	18.14	18.28	18.17	
15	64QAM	36	20	18.28	18.20	18.23	
15	64QAM	36	39	18.21	18.27	18.30	19
15	64QAM	75	0	18.22	18.24	18.23	
15	256QAM	1	0	18.17	18.08	18.05	
15	256QAM	1	37	18.30	18.14	17.97	19
15	256QAM	1	74	18.11	17.99	18.19	
15	256QAM	36	0	18.04	18.07	18.15	
15	256QAM	36	20	18.06	18.19	18.18	19
15	256QAM	36	39	18.25	18.13	18.22	



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Report No. : FA3D2001D

15	256QAM	75	0	18.20	18.04	18.15	Tune-up limit (dBm)
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	18.32	18.21	18.23	19
10	QPSK	1	25	18.14	18.14	18.20	
10	QPSK	1	49	18.30	18.09	18.32	
10	QPSK	25	0	18.26	18.27	18.35	19
10	QPSK	25	12	18.32	18.19	18.23	
10	QPSK	25	25	18.18	18.32	18.12	
10	QPSK	50	0	18.18	18.26	18.21	19
10	16QAM	1	0	18.08	18.13	18.19	
10	16QAM	1	25	18.23	18.10	18.12	
10	16QAM	1	49	18.21	18.13	18.32	19
10	16QAM	25	0	18.23	18.27	18.19	
10	16QAM	25	12	18.28	18.31	18.28	
10	16QAM	25	25	18.14	18.30	18.32	19
10	16QAM	50	0	18.07	18.23	18.14	
10	64QAM	1	0	18.25	18.15	18.19	
10	64QAM	1	25	18.37	18.25	18.23	19
10	64QAM	1	49	18.22	18.21	18.17	
10	64QAM	25	0	18.09	18.16	18.25	
10	64QAM	25	12	18.27	18.25	18.31	19
10	64QAM	25	25	18.31	18.14	18.30	
10	64QAM	50	0	18.20	18.18	18.18	
10	256QAM	1	0	18.21	18.02	18.18	19
10	256QAM	1	25	18.23	18.05	18.11	
10	256QAM	1	49	18.14	17.99	18.20	
10	256QAM	25	0	18.16	18.09	18.21	19
10	256QAM	25	12	18.21	18.07	18.28	
10	256QAM	25	25	18.09	18.27	18.24	
10	256QAM	50	0	18.09	18.11	18.19	Tune-up limit (dBm)
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	18.37	18.16	18.24	19
5	QPSK	1	12	18.08	18.22	18.23	
5	QPSK	1	24	18.17	18.27	18.24	
5	QPSK	12	0	18.36	18.23	18.24	19
5	QPSK	12	7	18.23	18.13	18.29	
5	QPSK	12	13	18.18	18.18	18.29	
5	QPSK	25	0	18.23	18.17	18.17	19
5	16QAM	1	0	18.14	18.09	18.15	
5	16QAM	1	12	18.16	18.07	18.20	
5	16QAM	1	24	18.32	18.12	18.17	19
5	16QAM	12	0	18.26	18.22	18.12	
5	16QAM	12	7	18.26	18.34	18.29	
5	16QAM	12	13	18.26	18.20	18.36	19
5	16QAM	25	0	18.11	18.13	18.13	
5	64QAM	1	0	18.11	18.17	18.29	
5	64QAM	1	12	18.20	18.21	18.20	19
5	64QAM	1	24	18.24	18.04	18.13	
5	64QAM	12	0	18.14	18.11	18.16	
5	64QAM	12	7	18.23	18.29	18.32	19
5	64QAM	12	13	18.23	18.24	18.21	
5	64QAM	25	0	18.27	18.08	18.13	
5	256QAM	1	0	18.18	18.07	18.05	19
5	256QAM	1	12	18.14	18.12	18.14	
5	256QAM	1	24	18.20	18.04	18.24	
5	256QAM	12	0	18.00	18.06	18.21	19
5	256QAM	12	7	18.12	18.18	18.16	
5	256QAM	12	13	18.24	18.16	18.19	
5	256QAM	25	0	18.08	18.04	18.12	



<LTE Band 7_Ant 1_Index 9>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	18.71	18.70	18.76	
20	QPSK	1	49	18.63	18.67	18.72	19
20	QPSK	1	99	18.68	18.65	18.67	
20	QPSK	50	0	18.70	18.66	18.74	
20	QPSK	50	24	18.65	18.66	18.69	19
20	QPSK	50	50	18.69	18.61	18.68	
20	QPSK	100	0	18.67	18.67	18.73	
20	16QAM	1	0	18.54	18.47	18.54	19
20	16QAM	1	49	18.57	18.54	18.65	
20	16QAM	1	99	18.75	18.41	18.63	
20	16QAM	50	0	18.67	18.56	18.58	19
20	16QAM	50	24	18.58	18.60	18.53	
20	16QAM	50	50	18.73	18.54	18.60	
20	16QAM	100	0	18.64	18.51	18.49	19
20	64QAM	1	0	18.61	18.72	18.67	
20	64QAM	1	49	18.72	18.70	18.71	
20	64QAM	1	99	18.67	18.70	18.69	19
20	64QAM	50	0	18.57	18.59	18.61	
20	64QAM	50	24	18.75	18.55	18.69	
20	64QAM	50	50	18.73	18.42	18.47	19
20	64QAM	100	0	18.68	18.52	18.51	
20	256QAM	1	0	18.32	18.49	18.45	
20	256QAM	1	49	18.35	18.22	18.56	19
20	256QAM	1	99	18.46	18.42	18.34	
20	256QAM	50	0	18.44	18.13	18.28	
20	256QAM	50	24	18.38	18.36	18.24	19
20	256QAM	50	50	18.33	18.35	18.37	
20	256QAM	100	0	18.45	18.15	18.24	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	18.58	18.54	18.56	
15	QPSK	1	37	18.58	18.58	18.56	19
15	QPSK	1	74	18.55	18.57	18.46	
15	QPSK	36	0	18.72	18.58	18.59	
15	QPSK	36	20	18.66	18.56	18.68	19
15	QPSK	36	39	18.62	18.61	18.58	
15	QPSK	75	0	18.57	18.56	18.67	
15	16QAM	1	0	18.52	18.46	18.50	19
15	16QAM	1	37	18.45	18.50	18.56	
15	16QAM	1	74	18.51	18.28	18.50	
15	16QAM	36	0	18.65	18.51	18.47	19
15	16QAM	36	20	18.51	18.36	18.54	
15	16QAM	36	39	18.50	18.41	18.36	
15	16QAM	75	0	18.59	18.39	18.58	19
15	64QAM	1	0	18.65	18.67	18.73	
15	64QAM	1	37	18.66	18.72	18.70	
15	64QAM	1	74	18.66	18.44	18.74	19
15	64QAM	36	0	18.52	18.55	18.44	
15	64QAM	36	20	18.58	18.35	18.58	
15	64QAM	36	39	18.51	18.48	18.46	19
15	64QAM	75	0	18.47	18.57	18.65	
15	256QAM	1	0	18.20	18.40	18.35	
15	256QAM	1	37	18.38	18.22	18.47	19
15	256QAM	1	74	18.52	18.24	18.29	
15	256QAM	36	0	18.28	18.02	18.23	
15	256QAM	36	20	18.17	18.24	18.16	19
15	256QAM	36	39	18.27	18.30	18.33	



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Report No. : FA3D2001D

15	256QAM	75	0	18.29	18.11	18.18	Tune-up limit (dBm)
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	18.68	18.66	18.68	19
10	QPSK	1	25	18.59	18.48	18.64	
10	QPSK	1	49	18.52	18.49	18.64	
10	QPSK	25	0	18.61	18.59	18.69	19
10	QPSK	25	12	18.49	18.42	18.58	
10	QPSK	25	25	18.51	18.48	18.63	
10	QPSK	50	0	18.65	18.72	18.67	19
10	16QAM	1	0	18.42	18.46	18.40	
10	16QAM	1	25	18.48	18.32	18.51	
10	16QAM	1	49	18.64	18.18	18.48	19
10	16QAM	25	0	18.45	18.46	18.42	
10	16QAM	25	12	18.51	18.47	18.48	
10	16QAM	25	25	18.50	18.62	18.45	19
10	16QAM	50	0	18.61	18.45	18.58	
10	64QAM	1	0	18.67	18.58	18.65	
10	64QAM	1	25	18.70	18.51	18.66	19
10	64QAM	1	49	18.68	18.56	18.71	
10	64QAM	25	0	18.54	18.54	18.57	
10	64QAM	25	12	18.38	18.43	18.53	19
10	64QAM	25	25	18.47	18.56	18.43	
10	64QAM	50	0	18.60	18.53	18.35	
10	256QAM	1	0	18.25	18.39	18.42	19
10	256QAM	1	25	18.15	18.27	18.41	
10	256QAM	1	49	18.36	18.41	18.26	
10	256QAM	25	0	18.26	17.97	18.31	19
10	256QAM	25	12	18.36	18.21	18.20	
10	256QAM	25	25	18.24	18.35	18.30	
10	256QAM	50	0	18.39	17.97	18.17	Tune-up limit (dBm)
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	18.68	18.69	18.74	19
5	QPSK	1	12	18.58	18.65	18.58	
5	QPSK	1	24	18.64	18.56	18.55	
5	QPSK	12	0	18.62	18.66	18.56	19
5	QPSK	12	7	18.54	18.56	18.65	
5	QPSK	12	13	18.59	18.63	18.68	
5	QPSK	25	0	18.56	18.58	18.64	19
5	16QAM	1	0	18.44	18.29	18.55	
5	16QAM	1	12	18.42	18.43	18.53	
5	16QAM	1	24	18.71	18.28	18.64	19
5	16QAM	12	0	18.44	18.61	18.42	
5	16QAM	12	7	18.71	18.44	18.47	
5	16QAM	12	13	18.47	18.64	18.46	19
5	16QAM	25	0	18.59	18.49	18.38	
5	64QAM	1	0	18.70	18.66	18.68	
5	64QAM	1	12	18.71	18.73	18.69	19
5	64QAM	1	24	18.68	18.51	18.65	
5	64QAM	12	0	18.27	18.48	18.42	
5	64QAM	12	7	18.59	18.43	18.60	19
5	64QAM	12	13	18.53	18.36	18.44	
5	64QAM	25	0	18.59	18.41	18.53	
5	256QAM	1	0	18.31	18.38	18.25	19
5	256QAM	1	12	18.16	18.22	18.32	
5	256QAM	1	24	18.42	18.35	18.31	
5	256QAM	12	0	18.30	18.02	18.19	19
5	256QAM	12	7	18.26	18.24	18.21	
5	256QAM	12	13	18.22	18.24	18.31	
5	256QAM	25	0	18.34	18.08	18.18	



<LTE Band 7_Ant 2_Index 10>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	18.85	18.82	18.84	
20	QPSK	1	49	18.76	18.78	18.83	20.6
20	QPSK	1	99	18.79	18.76	18.80	
20	QPSK	50	0	18.80	18.75	18.79	
20	QPSK	50	24	18.75	18.72	18.75	20.6
20	QPSK	50	50	18.76	18.75	18.78	
20	QPSK	100	0	18.78	18.78	18.75	
20	16QAM	1	0	18.70	18.77	18.83	20.6
20	16QAM	1	49	18.73	18.76	18.71	
20	16QAM	1	99	18.76	18.80	18.83	
20	16QAM	50	0	18.73	18.72	18.81	20.6
20	16QAM	50	24	18.80	18.75	18.82	
20	16QAM	50	50	18.81	18.80	18.83	
20	16QAM	100	0	18.77	18.76	18.83	20.6
20	64QAM	1	0	18.69	18.64	18.63	
20	64QAM	1	49	18.63	18.66	18.80	
20	64QAM	1	99	18.76	18.71	18.75	20.6
20	64QAM	50	0	18.78	18.74	18.81	
20	64QAM	50	24	18.78	18.78	18.83	
20	64QAM	50	50	18.82	18.81	18.82	20.6
20	64QAM	100	0	18.79	18.75	18.82	
20	256QAM	1	0	18.63	18.68	18.69	20
20	256QAM	1	49	18.67	18.61	18.64	
20	256QAM	1	99	18.69	18.62	18.68	
20	256QAM	50	0	18.68	18.67	18.63	20
20	256QAM	50	24	18.68	18.68	18.81	
20	256QAM	50	50	18.82	18.64	18.77	
20	256QAM	100	0	18.64	18.62	18.78	Tune-up limit (dBm)
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	18.83	18.79	18.72	20.6
15	QPSK	1	37	18.64	18.66	18.66	
15	QPSK	1	74	18.77	18.65	18.78	
15	QPSK	36	0	18.72	18.60	18.61	20.6
15	QPSK	36	20	18.65	18.67	18.67	
15	QPSK	36	39	18.75	18.63	18.70	
15	QPSK	75	0	18.66	18.60	18.67	20.6
15	16QAM	1	0	18.66	18.68	18.73	
15	16QAM	1	37	18.63	18.66	18.62	
15	16QAM	1	74	18.65	18.73	18.64	20.6
15	16QAM	36	0	18.72	18.72	18.73	
15	16QAM	36	20	18.80	18.63	18.64	
15	16QAM	36	39	18.66	18.77	18.83	20.6
15	16QAM	75	0	18.69	18.69	18.77	
15	64QAM	1	0	18.60	18.62	18.60	
15	64QAM	1	37	18.68	18.67	18.67	20.6
15	64QAM	1	74	18.71	18.65	18.60	
15	64QAM	36	0	18.76	18.74	18.71	
15	64QAM	36	20	18.78	18.75	18.77	20.6
15	64QAM	36	39	18.69	18.77	18.70	
15	64QAM	75	0	18.78	18.70	18.69	
15	256QAM	1	0	18.61	18.64	18.64	20
15	256QAM	1	37	18.69	18.61	18.63	
15	256QAM	1	74	18.63	18.62	18.69	
15	256QAM	36	0	18.63	18.66	18.61	20
15	256QAM	36	20	18.67	18.65	18.67	
15	256QAM	36	39	18.75	18.67	18.77	



FCC SAR TEST REPORT

Report No. : FA3D2001D

15	256QAM	75	0	18.69	18.61	18.75	Tune-up limit (dBm)
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	18.80	18.76	18.65	20.6
10	QPSK	1	25	18.72	18.66	18.68	
10	QPSK	1	49	18.61	18.75	18.66	
10	QPSK	25	0	18.64	18.63	18.61	20.6
10	QPSK	25	12	18.65	18.65	18.65	
10	QPSK	25	25	18.68	18.75	18.69	
10	QPSK	50	0	18.72	18.60	18.69	20.6
10	16QAM	1	0	18.63	18.62	18.71	
10	16QAM	1	25	18.69	18.71	18.68	
10	16QAM	1	49	18.60	18.80	18.75	20.6
10	16QAM	25	0	18.65	18.66	18.70	
10	16QAM	25	12	18.70	18.68	18.62	
10	16QAM	25	25	18.64	18.79	18.79	20.6
10	16QAM	50	0	18.67	18.62	18.82	
10	64QAM	1	0	18.65	18.65	18.60	
10	64QAM	1	25	18.67	18.68	18.79	20.6
10	64QAM	1	49	18.66	18.67	18.60	
10	64QAM	25	0	18.75	18.65	18.77	
10	64QAM	25	12	18.69	18.65	18.71	20.6
10	64QAM	25	25	18.63	18.65	18.81	
10	64QAM	50	0	18.60	18.69	18.64	
10	256QAM	1	0	18.68	18.62	18.66	20
10	256QAM	1	25	18.64	18.60	18.65	
10	256QAM	1	49	18.65	18.61	18.61	
10	256QAM	25	0	18.63	18.61	18.63	20
10	256QAM	25	12	18.66	18.67	18.61	
10	256QAM	25	25	18.67	18.68	18.60	
10	256QAM	50	0	18.78	18.66	18.70	Tune-up limit (dBm)
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	18.84	18.70	18.65	20.6
5	QPSK	1	12	18.72	18.61	18.82	
5	QPSK	1	24	18.72	18.64	18.79	
5	QPSK	12	0	18.78	18.72	18.63	20.6
5	QPSK	12	7	18.66	18.66	18.75	
5	QPSK	12	13	18.69	18.66	18.75	
5	QPSK	25	0	18.78	18.68	18.64	20.6
5	16QAM	1	0	18.66	18.67	18.71	
5	16QAM	1	12	18.66	18.71	18.68	
5	16QAM	1	24	18.63	18.61	18.82	20.6
5	16QAM	12	0	18.63	18.62	18.63	
5	16QAM	12	7	18.74	18.72	18.62	
5	16QAM	12	13	18.81	18.66	18.72	20.6
5	16QAM	25	0	18.68	18.70	18.77	
5	64QAM	1	0	18.65	18.69	18.69	
5	64QAM	1	12	18.63	18.64	18.66	20.6
5	64QAM	1	24	18.66	18.65	18.68	
5	64QAM	12	0	18.63	18.63	18.75	
5	64QAM	12	7	18.63	18.74	18.83	20.6
5	64QAM	12	13	18.70	18.72	18.68	
5	64QAM	25	0	18.66	18.74	18.72	
5	256QAM	1	0	18.68	18.64	18.66	20
5	256QAM	1	12	18.66	18.66	18.63	
5	256QAM	1	24	18.64	18.63	18.65	
5	256QAM	12	0	18.63	18.69	18.63	20
5	256QAM	12	7	18.69	18.62	18.67	
5	256QAM	12	13	18.76	18.66	18.60	
5	256QAM	25	0	18.68	18.64	18.70	Tune-up limit (dBm)
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	



<LTE Band 7_Ant 1_Index 10>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	19.67	19.67	19.72	
20	QPSK	1	49	19.62	19.64	19.63	20.9
20	QPSK	1	99	19.65	19.58	19.62	
20	QPSK	50	0	19.67	19.62	19.68	
20	QPSK	50	24	19.66	19.60	19.66	20.9
20	QPSK	50	50	19.65	19.61	19.65	
20	QPSK	100	0	19.65	19.63	19.66	
20	16QAM	1	0	19.52	19.45	19.54	20.9
20	16QAM	1	49	19.47	19.47	19.59	
20	16QAM	1	99	19.68	19.33	19.62	
20	16QAM	50	0	19.60	19.55	19.58	20.9
20	16QAM	50	24	19.55	19.51	19.53	
20	16QAM	50	50	19.70	19.54	19.55	
20	16QAM	100	0	19.59	19.46	19.45	20.9
20	64QAM	1	0	19.60	19.67	19.62	
20	64QAM	1	49	19.64	19.69	19.67	
20	64QAM	1	99	19.64	19.65	19.68	20.9
20	64QAM	50	0	19.51	19.53	19.58	
20	64QAM	50	24	19.66	19.52	19.63	
20	64QAM	50	50	19.64	19.42	19.46	20.9
20	64QAM	100	0	19.60	19.43	19.42	
20	256QAM	1	0	19.32	19.39	19.37	
20	256QAM	1	49	19.32	19.19	19.46	20
20	256QAM	1	99	19.42	19.33	19.29	
20	256QAM	50	0	19.36	19.12	19.28	
20	256QAM	50	24	19.31	19.28	19.19	20
20	256QAM	50	50	19.26	19.33	19.30	
20	256QAM	100	0	19.36	19.05	19.18	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	19.54	19.49	19.55	
15	QPSK	1	37	19.48	19.58	19.50	20.9
15	QPSK	1	74	19.50	19.47	19.45	
15	QPSK	36	0	19.62	19.53	19.50	20.9
15	QPSK	36	20	19.59	19.49	19.60	
15	QPSK	36	39	19.58	19.51	19.50	
15	QPSK	75	0	19.52	19.51	19.64	20.9
15	16QAM	1	0	19.44	19.44	19.47	
15	16QAM	1	37	19.43	19.43	19.46	
15	16QAM	1	74	19.48	19.24	19.45	20.9
15	16QAM	36	0	19.55	19.44	19.41	
15	16QAM	36	20	19.45	19.32	19.54	
15	16QAM	36	39	19.47	19.33	19.28	20.9
15	16QAM	75	0	19.50	19.30	19.49	
15	64QAM	1	0	19.63	19.67	19.69	
15	64QAM	1	37	19.68	19.62	19.63	20.9
15	64QAM	1	74	19.62	19.41	19.65	
15	64QAM	36	0	19.46	19.47	19.41	
15	64QAM	36	20	19.50	19.35	19.52	20.9
15	64QAM	36	39	19.45	19.39	19.38	
15	64QAM	75	0	19.40	19.49	19.55	
15	256QAM	1	0	19.15	19.32	19.33	20
15	256QAM	1	37	19.31	19.17	19.46	
15	256QAM	1	74	19.42	19.15	19.22	
15	256QAM	36	0	19.18	19.00	19.18	20
15	256QAM	36	20	19.16	19.16	19.08	
15	256QAM	36	39	19.19	19.25	19.29	



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Report No. : FA3D2001D

15	256QAM	75	0	19.25	19.04	19.09	Tune-up limit (dBm)
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	19.70	19.59	19.61	20.9
10	QPSK	1	25	19.50	19.48	19.56	
10	QPSK	1	49	19.52	19.46	19.58	
10	QPSK	25	0	19.53	19.56	19.60	20.9
10	QPSK	25	12	19.49	19.40	19.55	
10	QPSK	25	25	19.46	19.46	19.56	
10	QPSK	50	0	19.63	19.62	19.58	20.9
10	16QAM	1	0	19.35	19.42	19.35	
10	16QAM	1	25	19.39	19.29	19.44	
10	16QAM	1	49	19.56	19.14	19.48	20.9
10	16QAM	25	0	19.38	19.37	19.36	
10	16QAM	25	12	19.48	19.41	19.48	
10	16QAM	25	25	19.50	19.57	19.36	20.9
10	16QAM	50	0	19.52	19.36	19.53	
10	64QAM	1	0	19.65	19.52	19.55	
10	64QAM	1	25	19.62	19.50	19.66	20.9
10	64QAM	1	49	19.64	19.47	19.67	
10	64QAM	25	0	19.45	19.52	19.55	
10	64QAM	25	12	19.37	19.34	19.46	20.9
10	64QAM	25	25	19.42	19.49	19.37	
10	64QAM	50	0	19.59	19.45	19.33	
10	256QAM	1	0	19.19	19.37	19.35	20
10	256QAM	1	25	19.13	19.18	19.33	
10	256QAM	1	49	19.26	19.32	19.19	
10	256QAM	25	0	19.24	18.97	19.28	20
10	256QAM	25	12	19.30	19.11	19.10	
10	256QAM	25	25	19.21	19.27	19.21	
10	256QAM	50	0	19.34	18.90	19.15	Tune-up limit (dBm)
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	19.68	19.62	19.70	20.9
5	QPSK	1	12	19.51	19.61	19.53	
5	QPSK	1	24	19.60	19.51	19.53	
5	QPSK	12	0	19.54	19.57	19.56	20.9
5	QPSK	12	7	19.54	19.53	19.59	
5	QPSK	12	13	19.54	19.54	19.59	
5	QPSK	25	0	19.56	19.55	19.64	20.9
5	16QAM	1	0	19.37	19.27	19.46	
5	16QAM	1	12	19.42	19.33	19.48	
5	16QAM	1	24	19.63	19.22	19.55	20.9
5	16QAM	12	0	19.44	19.51	19.40	
5	16QAM	12	7	19.64	19.44	19.39	
5	16QAM	12	13	19.41	19.54	19.41	20.9
5	16QAM	25	0	19.53	19.45	19.29	
5	64QAM	1	0	19.65	19.63	19.67	
5	64QAM	1	12	19.66	19.65	19.63	20.9
5	64QAM	1	24	19.63	19.45	19.65	
5	64QAM	12	0	19.25	19.46	19.40	
5	64QAM	12	7	19.52	19.43	19.55	20.9
5	64QAM	12	13	19.52	19.26	19.37	
5	64QAM	25	0	19.58	19.33	19.50	
5	256QAM	1	0	19.30	19.37	19.19	20
5	256QAM	1	12	19.15	19.15	19.32	
5	256QAM	1	24	19.32	19.29	19.22	
5	256QAM	12	0	19.25	18.95	19.15	20
5	256QAM	12	7	19.22	19.14	19.17	
5	256QAM	12	13	19.20	19.14	19.21	
5	256QAM	25	0	19.24	18.98	19.14	



<LTE Band 7_Ant 2_Index 11>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	18.85	18.82	18.84	
20	QPSK	1	49	18.76	18.78	18.83	19.8
20	QPSK	1	99	18.79	18.76	18.80	
20	QPSK	50	0	18.80	18.75	18.79	
20	QPSK	50	24	18.75	18.72	18.75	19.8
20	QPSK	50	50	18.76	18.75	18.78	
20	QPSK	100	0	18.78	18.78	18.75	
20	16QAM	1	0	18.70	18.77	18.83	19.8
20	16QAM	1	49	18.73	18.76	18.71	
20	16QAM	1	99	18.76	18.80	18.83	
20	16QAM	50	0	18.73	18.72	18.81	19.8
20	16QAM	50	24	18.80	18.75	18.82	
20	16QAM	50	50	18.81	18.80	18.83	
20	16QAM	100	0	18.77	18.76	18.83	19.8
20	64QAM	1	0	18.69	18.64	18.63	
20	64QAM	1	49	18.63	18.66	18.80	
20	64QAM	1	99	18.76	18.71	18.75	19.8
20	64QAM	50	0	18.78	18.74	18.81	
20	64QAM	50	24	18.78	18.78	18.83	
20	64QAM	50	50	18.82	18.81	18.82	19.8
20	64QAM	100	0	18.79	18.75	18.82	
20	256QAM	1	0	18.63	18.68	18.69	
20	256QAM	1	49	18.67	18.61	18.64	19.8
20	256QAM	1	99	18.69	18.62	18.68	
20	256QAM	50	0	18.68	18.67	18.63	
20	256QAM	50	24	18.68	18.68	18.81	19.8
20	256QAM	50	50	18.82	18.64	18.77	
20	256QAM	100	0	18.64	18.62	18.78	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	18.83	18.79	18.72	
15	QPSK	1	37	18.64	18.66	18.66	19.8
15	QPSK	1	74	18.77	18.65	18.78	
15	QPSK	36	0	18.72	18.60	18.61	
15	QPSK	36	20	18.65	18.67	18.67	19.8
15	QPSK	36	39	18.75	18.63	18.70	
15	QPSK	75	0	18.66	18.60	18.67	
15	16QAM	1	0	18.66	18.68	18.73	19.8
15	16QAM	1	37	18.63	18.66	18.62	
15	16QAM	1	74	18.65	18.73	18.64	
15	16QAM	36	0	18.72	18.72	18.73	19.8
15	16QAM	36	20	18.80	18.63	18.64	
15	16QAM	36	39	18.66	18.77	18.83	
15	16QAM	75	0	18.69	18.69	18.77	19.8
15	64QAM	1	0	18.60	18.62	18.60	
15	64QAM	1	37	18.68	18.67	18.67	
15	64QAM	1	74	18.71	18.65	18.60	19.8
15	64QAM	36	0	18.76	18.74	18.71	
15	64QAM	36	20	18.78	18.75	18.77	
15	64QAM	36	39	18.69	18.77	18.70	19.8
15	64QAM	75	0	18.78	18.70	18.69	
15	256QAM	1	0	18.61	18.64	18.64	
15	256QAM	1	37	18.69	18.61	18.63	19.8
15	256QAM	1	74	18.63	18.62	18.69	
15	256QAM	36	0	18.63	18.66	18.61	
15	256QAM	36	20	18.67	18.65	18.67	19.8
15	256QAM	36	39	18.75	18.67	18.77	



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Report No. : FA3D2001D

15	256QAM	75	0	18.69	18.61	18.75	Tune-up limit (dBm)
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	18.80	18.76	18.65	19.8
10	QPSK	1	25	18.72	18.66	18.68	
10	QPSK	1	49	18.61	18.75	18.66	
10	QPSK	25	0	18.64	18.63	18.61	19.8
10	QPSK	25	12	18.65	18.65	18.65	
10	QPSK	25	25	18.68	18.75	18.69	
10	QPSK	50	0	18.72	18.60	18.69	19.8
10	16QAM	1	0	18.63	18.62	18.71	
10	16QAM	1	25	18.69	18.71	18.68	
10	16QAM	1	49	18.60	18.80	18.75	19.8
10	16QAM	25	0	18.65	18.66	18.70	
10	16QAM	25	12	18.70	18.68	18.62	
10	16QAM	25	25	18.64	18.79	18.79	19.8
10	16QAM	50	0	18.67	18.62	18.82	
10	64QAM	1	0	18.65	18.65	18.60	
10	64QAM	1	25	18.67	18.68	18.79	19.8
10	64QAM	1	49	18.66	18.67	18.60	
10	64QAM	25	0	18.75	18.65	18.77	
10	64QAM	25	12	18.69	18.65	18.71	19.8
10	64QAM	25	25	18.63	18.65	18.81	
10	64QAM	50	0	18.60	18.69	18.64	
10	256QAM	1	0	18.68	18.62	18.66	19.8
10	256QAM	1	25	18.64	18.60	18.65	
10	256QAM	1	49	18.65	18.61	18.61	
10	256QAM	25	0	18.63	18.61	18.63	19.8
10	256QAM	25	12	18.66	18.67	18.61	
10	256QAM	25	25	18.67	18.68	18.60	
10	256QAM	50	0	18.78	18.66	18.70	Tune-up limit (dBm)
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	18.84	18.70	18.65	19.8
5	QPSK	1	12	18.72	18.61	18.82	
5	QPSK	1	24	18.72	18.64	18.79	
5	QPSK	12	0	18.78	18.72	18.63	19.8
5	QPSK	12	7	18.66	18.66	18.75	
5	QPSK	12	13	18.69	18.66	18.75	
5	QPSK	25	0	18.78	18.68	18.64	19.8
5	16QAM	1	0	18.66	18.67	18.71	
5	16QAM	1	12	18.66	18.71	18.68	
5	16QAM	1	24	18.63	18.61	18.82	19.8
5	16QAM	12	0	18.63	18.62	18.63	
5	16QAM	12	7	18.74	18.72	18.62	
5	16QAM	12	13	18.81	18.66	18.72	19.8
5	16QAM	25	0	18.68	18.70	18.77	
5	64QAM	1	0	18.65	18.69	18.69	
5	64QAM	1	12	18.63	18.64	18.66	19.8
5	64QAM	1	24	18.66	18.65	18.68	
5	64QAM	12	0	18.63	18.63	18.75	
5	64QAM	12	7	18.63	18.74	18.83	19.8
5	64QAM	12	13	18.70	18.72	18.68	
5	64QAM	25	0	18.66	18.74	18.72	
5	256QAM	1	0	18.68	18.64	18.66	19.8
5	256QAM	1	12	18.66	18.66	18.63	
5	256QAM	1	24	18.64	18.63	18.65	
5	256QAM	12	0	18.63	18.69	18.63	19.8
5	256QAM	12	7	18.69	18.62	18.67	
5	256QAM	12	13	18.76	18.66	18.60	
5	256QAM	25	0	18.68	18.64	18.70	19.8



<LTE Band 7_Ant 1_Index 11>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	19.67	19.67	19.72	
20	QPSK	1	49	19.62	19.64	19.63	20.1
20	QPSK	1	99	19.65	19.58	19.62	
20	QPSK	50	0	19.67	19.62	19.68	
20	QPSK	50	24	19.66	19.60	19.66	20.1
20	QPSK	50	50	19.65	19.61	19.65	
20	QPSK	100	0	19.65	19.63	19.66	
20	16QAM	1	0	19.52	19.45	19.54	20.1
20	16QAM	1	49	19.47	19.47	19.59	
20	16QAM	1	99	19.68	19.33	19.62	
20	16QAM	50	0	19.60	19.55	19.58	20.1
20	16QAM	50	24	19.55	19.51	19.53	
20	16QAM	50	50	19.70	19.54	19.55	
20	16QAM	100	0	19.59	19.46	19.45	20.1
20	64QAM	1	0	19.60	19.67	19.62	
20	64QAM	1	49	19.64	19.69	19.67	
20	64QAM	1	99	19.64	19.65	19.68	20.1
20	64QAM	50	0	19.51	19.53	19.58	
20	64QAM	50	24	19.66	19.52	19.63	
20	64QAM	50	50	19.64	19.42	19.46	20.1
20	64QAM	100	0	19.60	19.43	19.42	
20	256QAM	1	0	19.32	19.39	19.37	
20	256QAM	1	49	19.32	19.19	19.46	20
20	256QAM	1	99	19.42	19.33	19.29	
20	256QAM	50	0	19.36	19.12	19.28	
20	256QAM	50	24	19.31	19.28	19.19	20
20	256QAM	50	50	19.26	19.33	19.30	
20	256QAM	100	0	19.36	19.05	19.18	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	19.54	19.49	19.55	
15	QPSK	1	37	19.48	19.58	19.50	20.1
15	QPSK	1	74	19.50	19.47	19.45	
15	QPSK	36	0	19.62	19.53	19.50	20.1
15	QPSK	36	20	19.59	19.49	19.60	
15	QPSK	36	39	19.58	19.51	19.50	
15	QPSK	75	0	19.52	19.51	19.64	20.1
15	16QAM	1	0	19.44	19.44	19.47	
15	16QAM	1	37	19.43	19.43	19.46	
15	16QAM	1	74	19.48	19.24	19.45	20.1
15	16QAM	36	0	19.55	19.44	19.41	
15	16QAM	36	20	19.45	19.32	19.54	
15	16QAM	36	39	19.47	19.33	19.28	20.1
15	16QAM	75	0	19.50	19.30	19.49	
15	64QAM	1	0	19.63	19.67	19.69	
15	64QAM	1	37	19.68	19.62	19.63	20.1
15	64QAM	1	74	19.62	19.41	19.65	
15	64QAM	36	0	19.46	19.47	19.41	
15	64QAM	36	20	19.50	19.35	19.52	20.1
15	64QAM	36	39	19.45	19.39	19.38	
15	64QAM	75	0	19.40	19.49	19.55	
15	256QAM	1	0	19.15	19.32	19.33	20
15	256QAM	1	37	19.31	19.17	19.46	
15	256QAM	1	74	19.42	19.15	19.22	
15	256QAM	36	0	19.18	19.00	19.18	20
15	256QAM	36	20	19.16	19.16	19.08	
15	256QAM	36	39	19.19	19.25	19.29	



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Report No. : FA3D2001D

15	256QAM	75	0	19.25	19.04	19.09	Tune-up limit (dBm)
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	19.70	19.59	19.61	20.1
10	QPSK	1	25	19.50	19.48	19.56	
10	QPSK	1	49	19.52	19.46	19.58	
10	QPSK	25	0	19.53	19.56	19.60	20.1
10	QPSK	25	12	19.49	19.40	19.55	
10	QPSK	25	25	19.46	19.46	19.56	
10	QPSK	50	0	19.63	19.62	19.58	20.1
10	16QAM	1	0	19.35	19.42	19.35	
10	16QAM	1	25	19.39	19.29	19.44	
10	16QAM	1	49	19.56	19.14	19.48	20.1
10	16QAM	25	0	19.38	19.37	19.36	
10	16QAM	25	12	19.48	19.41	19.48	
10	16QAM	25	25	19.50	19.57	19.36	20.1
10	16QAM	50	0	19.52	19.36	19.53	
10	64QAM	1	0	19.65	19.52	19.55	
10	64QAM	1	25	19.62	19.50	19.66	20.1
10	64QAM	1	49	19.64	19.47	19.67	
10	64QAM	25	0	19.45	19.52	19.55	
10	64QAM	25	12	19.37	19.34	19.46	20.1
10	64QAM	25	25	19.42	19.49	19.37	
10	64QAM	50	0	19.59	19.45	19.33	
10	256QAM	1	0	19.19	19.37	19.35	20
10	256QAM	1	25	19.13	19.18	19.33	
10	256QAM	1	49	19.26	19.32	19.19	
10	256QAM	25	0	19.24	18.97	19.28	20
10	256QAM	25	12	19.30	19.11	19.10	
10	256QAM	25	25	19.21	19.27	19.21	
10	256QAM	50	0	19.34	18.90	19.15	Tune-up limit (dBm)
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	19.68	19.62	19.70	20.1
5	QPSK	1	12	19.51	19.61	19.53	
5	QPSK	1	24	19.60	19.51	19.53	
5	QPSK	12	0	19.54	19.57	19.56	20.1
5	QPSK	12	7	19.54	19.53	19.59	
5	QPSK	12	13	19.54	19.54	19.59	
5	QPSK	25	0	19.56	19.55	19.64	20.1
5	16QAM	1	0	19.37	19.27	19.46	
5	16QAM	1	12	19.42	19.33	19.48	
5	16QAM	1	24	19.63	19.22	19.55	20.1
5	16QAM	12	0	19.44	19.51	19.40	
5	16QAM	12	7	19.64	19.44	19.39	
5	16QAM	12	13	19.41	19.54	19.41	20.1
5	16QAM	25	0	19.53	19.45	19.29	
5	64QAM	1	0	19.65	19.63	19.67	
5	64QAM	1	12	19.66	19.65	19.63	20.1
5	64QAM	1	24	19.63	19.45	19.65	
5	64QAM	12	0	19.25	19.46	19.40	
5	64QAM	12	7	19.52	19.43	19.55	20.1
5	64QAM	12	13	19.52	19.26	19.37	
5	64QAM	25	0	19.58	19.33	19.50	
5	256QAM	1	0	19.30	19.37	19.19	20
5	256QAM	1	12	19.15	19.15	19.32	
5	256QAM	1	24	19.32	19.29	19.22	
5	256QAM	12	0	19.25	18.95	19.15	20
5	256QAM	12	7	19.22	19.14	19.17	
5	256QAM	12	13	19.20	19.14	19.21	
5	256QAM	25	0	19.24	18.98	19.14	



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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)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	24.10	24.11	24.08	
10	QPSK	1	25	24.04	23.95	24.00	25.7
10	QPSK	1	49	24.06	24.08	24.03	
10	QPSK	25	0	23.14	23.20	23.18	
10	QPSK	25	12	23.11	23.13	23.18	24.7
10	QPSK	25	25	23.13	23.18	23.15	
10	QPSK	50	0	23.11	23.16	23.14	
10	16QAM	1	0	23.47	23.47	23.52	24.7
10	16QAM	1	25	23.51	23.42	23.35	
10	16QAM	1	49	23.42	23.43	23.43	
10	16QAM	25	0	22.18	22.14	22.20	23.7
10	16QAM	25	12	22.15	22.14	22.21	
10	16QAM	25	25	22.18	22.17	22.21	
10	16QAM	50	0	22.17	22.12	22.16	23.7
10	64QAM	1	0	22.34	22.34	22.38	
10	64QAM	1	25	22.35	22.24	22.28	
10	64QAM	1	49	22.36	22.30	22.39	22.7
10	64QAM	25	0	21.16	21.13	21.15	
10	64QAM	25	12	21.17	21.14	21.19	
10	64QAM	25	25	21.17	21.15	21.19	20.7
10	64QAM	50	0	21.20	21.16	21.18	
10	256QAM	1	0	19.68	19.59	19.65	
10	256QAM	1	25	19.69	19.59	19.63	20.7
10	256QAM	1	49	19.64	19.65	19.69	
10	256QAM	25	0	19.42	19.48	19.44	
10	256QAM	25	12	19.43	19.40	19.48	20.7
10	256QAM	25	25	19.48	19.42	19.46	
10	256QAM	50	0	19.51	19.41	19.44	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	24.03	24.00	24.01	
5	QPSK	1	12	23.95	23.94	23.99	25.7
5	QPSK	1	24	24.03	24.05	23.97	
5	QPSK	12	0	23.14	23.15	23.10	
5	QPSK	12	7	23.06	23.04	23.11	24.7
5	QPSK	12	13	23.09	23.09	23.09	
5	QPSK	25	0	23.05	23.07	23.10	
5	16QAM	1	0	23.46	23.38	23.44	24.7
5	16QAM	1	12	23.50	23.42	23.30	
5	16QAM	1	24	23.40	23.41	23.33	
5	16QAM	12	0	22.14	22.12	22.18	23.7
5	16QAM	12	7	22.06	22.05	22.20	
5	16QAM	12	13	22.16	22.08	22.13	
5	16QAM	25	0	22.17	22.11	22.16	23.7
5	64QAM	1	0	22.33	22.33	22.37	
5	64QAM	1	12	22.35	22.24	22.24	
5	64QAM	1	24	22.36	22.25	22.33	22.7
5	64QAM	12	0	21.11	21.08	21.07	
5	64QAM	12	7	21.14	21.12	21.11	
5	64QAM	12	13	21.13	21.11	21.18	20.7
5	64QAM	25	0	21.19	21.16	21.13	
5	256QAM	1	0	19.65	19.49	19.56	
5	256QAM	1	12	19.63	19.54	19.62	20.7
5	256QAM	1	24	19.55	19.61	19.64	
5	256QAM	12	0	19.42	19.48	19.43	
5	256QAM	12	7	19.42	19.35	19.45	20.7
5	256QAM	12	13	19.39	19.37	19.43	



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5	256QAM	25	0	19.44	19.37	19.44	Tune-up limit (dBm)
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	24.01	24.03	24.06	25.7
3	QPSK	1	8	24.04	23.90	23.90	
3	QPSK	1	14	23.96	24.02	23.94	
3	QPSK	8	0	23.14	23.14	23.16	24.7
3	QPSK	8	4	23.07	23.07	23.15	
3	QPSK	8	7	23.12	23.12	23.13	
3	QPSK	15	0	23.05	23.14	23.10	24.7
3	16QAM	1	0	23.38	23.39	23.45	
3	16QAM	1	8	23.42	23.38	23.30	
3	16QAM	1	14	23.37	23.34	23.36	23.7
3	16QAM	8	0	22.15	22.06	22.11	
3	16QAM	8	4	22.13	22.07	22.20	
3	16QAM	8	7	22.16	22.14	22.17	23.7
3	16QAM	15	0	22.17	22.08	22.06	
3	64QAM	1	0	22.30	22.27	22.36	
3	64QAM	1	8	22.29	22.19	22.25	23.7
3	64QAM	1	14	22.32	22.28	22.35	
3	64QAM	8	0	21.15	21.08	21.07	22.7
3	64QAM	8	4	21.10	21.11	21.10	
3	64QAM	8	7	21.10	21.15	21.10	
3	64QAM	15	0	21.11	21.07	21.13	20.7
3	256QAM	1	0	19.61	19.51	19.61	
3	256QAM	1	8	19.62	19.50	19.58	
3	256QAM	1	14	19.64	19.62	19.63	20.7
3	256QAM	8	0	19.37	19.46	19.37	
3	256QAM	8	4	19.34	19.34	19.46	
3	256QAM	8	7	19.45	19.35	19.36	20.7
3	256QAM	15	0	19.44	19.40	19.42	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	24.01	24.04	24.02	25.7
1.4	QPSK	1	3	24.01	23.94	23.99	
1.4	QPSK	1	5	24.01	24.03	24.01	
1.4	QPSK	3	0	23.96	23.91	23.95	24.7
1.4	QPSK	3	1	23.96	23.96	23.94	
1.4	QPSK	3	3	23.94	23.91	23.96	
1.4	QPSK	6	0	23.02	23.06	23.08	24.7
1.4	16QAM	1	0	23.39	23.38	23.43	
1.4	16QAM	1	3	23.49	23.42	23.29	
1.4	16QAM	1	5	23.39	23.34	23.33	23.7
1.4	16QAM	3	0	23.46	23.42	23.44	
1.4	16QAM	3	1	23.47	23.35	23.31	
1.4	16QAM	3	3	23.36	23.43	23.34	23.7
1.4	16QAM	6	0	22.15	22.04	22.08	
1.4	64QAM	1	0	22.34	22.27	22.34	
1.4	64QAM	1	3	22.31	22.18	22.23	22.7
1.4	64QAM	1	5	22.36	22.28	22.31	
1.4	64QAM	3	0	22.25	22.24	22.32	
1.4	64QAM	3	1	22.25	22.19	22.25	20.7
1.4	64QAM	3	3	22.33	22.21	22.35	
1.4	64QAM	6	0	21.11	21.06	21.10	
1.4	256QAM	1	0	19.68	19.49	19.60	20.7
1.4	256QAM	1	3	19.67	19.56	19.54	
1.4	256QAM	1	5	19.58	19.64	19.64	
1.4	256QAM	3	0	19.62	19.58	19.61	20.7
1.4	256QAM	3	1	19.62	19.55	19.60	
1.4	256QAM	3	3	19.64	19.60	19.68	
1.4	256QAM	6	0	19.45	19.38	19.42	20.7



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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)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	22.76	22.82	22.74	
10	QPSK	1	25	22.62	22.75	22.59	23.3
10	QPSK	1	49	22.73	22.79	22.59	
10	QPSK	25	0	22.69	22.78	22.60	
10	QPSK	25	12	22.56	22.68	22.55	23.3
10	QPSK	25	25	22.65	22.72	22.60	
10	QPSK	50	0	22.57	22.75	22.63	
10	16QAM	1	0	22.69	22.69	22.54	23.3
10	16QAM	1	25	22.71	22.69	22.59	
10	16QAM	1	49	22.64	22.64	22.59	
10	16QAM	25	0	22.58	22.59	22.65	23.3
10	16QAM	25	12	22.53	22.66	22.61	
10	16QAM	25	25	22.72	22.56	22.74	
10	16QAM	50	0	22.52	22.63	22.64	23.3
10	64QAM	1	0	22.80	22.78	22.78	
10	64QAM	1	25	22.69	22.56	22.75	
10	64QAM	1	49	22.76	22.72	22.57	22.7
10	64QAM	25	0	21.65	21.63	21.57	
10	64QAM	25	12	21.73	21.63	21.59	
10	64QAM	25	25	21.51	21.67	21.70	20.7
10	64QAM	50	0	21.70	21.50	21.69	
10	256QAM	1	0	20.22	20.20	20.30	
10	256QAM	1	25	20.11	20.04	20.20	20.7
10	256QAM	1	49	20.27	20.13	20.07	
10	256QAM	25	0	20.01	20.02	20.19	
10	256QAM	25	12	20.23	19.97	20.03	20.7
10	256QAM	25	25	19.94	20.13	20.01	
10	256QAM	50	0	20.21	19.96	19.98	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	22.75	22.71	22.67	
5	QPSK	1	12	22.43	22.64	22.51	23.3
5	QPSK	1	24	22.67	22.74	22.58	
5	QPSK	12	0	22.61	22.66	22.45	
5	QPSK	12	7	22.45	22.68	22.55	23.3
5	QPSK	12	13	22.46	22.65	22.43	
5	QPSK	25	0	22.51	22.63	22.52	
5	16QAM	1	0	22.58	22.63	22.47	23.3
5	16QAM	1	12	22.54	22.63	22.59	
5	16QAM	1	24	22.58	22.64	22.43	
5	16QAM	12	0	22.54	22.52	22.55	23.3
5	16QAM	12	7	22.40	22.60	22.59	
5	16QAM	12	13	22.71	22.49	22.68	
5	16QAM	25	0	22.52	22.48	22.58	23.3
5	64QAM	1	0	22.79	22.59	22.76	
5	64QAM	1	12	22.64	22.38	22.65	
5	64QAM	1	24	22.63	22.67	22.40	22.7
5	64QAM	12	0	21.59	21.62	21.43	
5	64QAM	12	7	21.72	21.49	21.57	
5	64QAM	12	13	21.51	21.48	21.63	20.7
5	64QAM	25	0	21.69	21.35	21.59	
5	256QAM	1	0	20.04	20.01	20.18	
5	256QAM	1	12	20.09	19.93	20.00	20.7
5	256QAM	1	24	20.21	20.13	20.05	
5	256QAM	12	0	19.86	19.88	20.03	
5	256QAM	12	7	20.08	19.97	20.01	20.7
5	256QAM	12	13	19.77	20.13	19.86	



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5	256QAM	25	0	20.15	19.81	19.92	Tune-up limit (dBm)
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	22.64	22.80	22.73	23.3
3	QPSK	1	8	22.61	22.66	22.54	
3	QPSK	1	14	22.58	22.69	22.59	
3	QPSK	8	0	22.55	22.65	22.48	23.3
3	QPSK	8	4	22.38	22.54	22.45	
3	QPSK	8	7	22.45	22.65	22.54	
3	QPSK	15	0	22.50	22.65	22.56	23.3
3	16QAM	1	0	22.63	22.64	22.45	
3	16QAM	1	8	22.59	22.54	22.40	
3	16QAM	1	14	22.57	22.64	22.48	23.3
3	16QAM	8	0	22.58	22.59	22.62	
3	16QAM	8	4	22.47	22.50	22.48	
3	16QAM	8	7	22.58	22.41	22.67	23.3
3	16QAM	15	0	22.40	22.55	22.48	
3	64QAM	1	0	22.66	22.68	22.65	
3	64QAM	1	8	22.63	22.51	22.55	23.3
3	64QAM	1	14	22.74	22.59	22.42	
3	64QAM	8	0	21.55	21.53	21.40	22.7
3	64QAM	8	4	21.66	21.62	21.41	
3	64QAM	8	7	21.34	21.62	21.70	
3	64QAM	15	0	21.63	21.37	21.54	20.7
3	256QAM	1	0	20.14	20.01	20.28	
3	256QAM	1	8	20.11	19.84	20.10	
3	256QAM	1	14	20.25	20.05	19.97	20.7
3	256QAM	8	0	19.94	19.90	20.13	
3	256QAM	8	4	20.16	19.87	19.87	
3	256QAM	8	7	19.82	20.09	20.01	20.7
3	256QAM	15	0	20.12	19.92	19.95	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	22.74	22.64	22.72	23.3
1.4	QPSK	1	3	22.52	22.56	22.52	
1.4	QPSK	1	5	22.62	22.67	22.44	
1.4	QPSK	3	0	22.64	22.72	22.70	23.3
1.4	QPSK	3	1	22.48	22.68	22.55	
1.4	QPSK	3	3	22.71	22.76	22.47	
1.4	QPSK	6	0	22.66	22.74	22.54	23.3
1.4	16QAM	1	0	22.37	22.53	22.35	
1.4	16QAM	1	3	22.55	22.69	22.50	
1.4	16QAM	1	5	22.51	22.70	22.49	23.3
1.4	16QAM	3	0	22.61	22.64	22.43	
1.4	16QAM	3	1	22.71	22.61	22.43	
1.4	16QAM	3	3	22.59	22.47	22.43	23.3
1.4	16QAM	6	0	22.55	22.39	22.64	
1.4	64QAM	1	0	22.42	22.53	22.43	
1.4	64QAM	1	3	22.55	22.50	22.58	23.3
1.4	64QAM	1	5	22.50	22.48	22.56	
1.4	64QAM	3	0	22.60	22.61	22.72	
1.4	64QAM	3	1	22.66	22.40	22.68	22.7
1.4	64QAM	3	3	22.64	22.69	22.57	
1.4	64QAM	6	0	21.65	21.46	21.61	
1.4	256QAM	1	0	20.19	20.02	20.14	20.7
1.4	256QAM	1	3	20.03	19.89	20.04	
1.4	256QAM	1	5	20.13	20.05	19.92	
1.4	256QAM	3	0	19.97	20.02	20.15	20.7
1.4	256QAM	3	1	20.14	19.85	19.84	
1.4	256QAM	3	3	19.85	19.97	19.98	
1.4	256QAM	6	0	20.19	19.92	19.91	20.7



<LTE Band 12_Ant 0_Index 9>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	24.10	24.11	24.08	
10	QPSK	1	25	24.04	23.95	24.00	25.7
10	QPSK	1	49	24.06	24.08	24.03	
10	QPSK	25	0	23.14	23.20	23.18	
10	QPSK	25	12	23.11	23.13	23.18	24.7
10	QPSK	25	25	23.13	23.18	23.15	
10	QPSK	50	0	23.11	23.16	23.14	
10	16QAM	1	0	23.47	23.47	23.52	24.7
10	16QAM	1	25	23.51	23.42	23.35	
10	16QAM	1	49	23.42	23.43	23.43	
10	16QAM	25	0	22.18	22.14	22.20	23.7
10	16QAM	25	12	22.15	22.14	22.21	
10	16QAM	25	25	22.18	22.17	22.21	
10	16QAM	50	0	22.17	22.12	22.16	23.7
10	64QAM	1	0	22.34	22.34	22.38	
10	64QAM	1	25	22.35	22.24	22.28	
10	64QAM	1	49	22.36	22.30	22.39	22.7
10	64QAM	25	0	21.16	21.13	21.15	
10	64QAM	25	12	21.17	21.14	21.19	
10	64QAM	25	25	21.17	21.15	21.19	20.7
10	64QAM	50	0	21.20	21.16	21.18	
10	256QAM	1	0	19.68	19.59	19.65	
10	256QAM	1	25	19.69	19.59	19.63	20.7
10	256QAM	1	49	19.64	19.65	19.69	
10	256QAM	25	0	19.42	19.48	19.44	
10	256QAM	25	12	19.43	19.40	19.48	20.7
10	256QAM	25	25	19.48	19.42	19.46	
10	256QAM	50	0	19.51	19.41	19.44	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	24.03	24.00	24.01	
5	QPSK	1	12	23.95	23.94	23.99	25.7
5	QPSK	1	24	24.03	24.05	23.97	
5	QPSK	12	0	23.14	23.15	23.10	
5	QPSK	12	7	23.06	23.04	23.11	24.7
5	QPSK	12	13	23.09	23.09	23.09	
5	QPSK	25	0	23.05	23.07	23.10	
5	16QAM	1	0	23.46	23.38	23.44	24.7
5	16QAM	1	12	23.50	23.42	23.30	
5	16QAM	1	24	23.40	23.41	23.33	
5	16QAM	12	0	22.14	22.12	22.18	23.7
5	16QAM	12	7	22.06	22.05	22.20	
5	16QAM	12	13	22.16	22.08	22.13	
5	16QAM	25	0	22.17	22.11	22.16	23.7
5	64QAM	1	0	22.33	22.33	22.37	
5	64QAM	1	12	22.35	22.24	22.24	
5	64QAM	1	24	22.36	22.25	22.33	22.7
5	64QAM	12	0	21.11	21.08	21.07	
5	64QAM	12	7	21.14	21.12	21.11	
5	64QAM	12	13	21.13	21.11	21.18	20.7
5	64QAM	25	0	21.19	21.16	21.13	
5	256QAM	1	0	19.65	19.49	19.56	
5	256QAM	1	12	19.63	19.54	19.62	20.7
5	256QAM	1	24	19.55	19.61	19.64	
5	256QAM	12	0	19.42	19.48	19.43	
5	256QAM	12	7	19.42	19.35	19.45	20.7
5	256QAM	12	13	19.39	19.37	19.43	



FCC SAR TEST REPORT

Report No. : FA3D2001D

5	256QAM	25	0	19.44	19.37	19.44	Tune-up limit (dBm)
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	24.01	24.03	24.06	25.7
3	QPSK	1	8	24.04	23.90	23.90	
3	QPSK	1	14	23.96	24.02	23.94	
3	QPSK	8	0	23.14	23.14	23.16	24.7
3	QPSK	8	4	23.07	23.07	23.15	
3	QPSK	8	7	23.12	23.12	23.13	
3	QPSK	15	0	23.05	23.14	23.10	24.7
3	16QAM	1	0	23.38	23.39	23.45	
3	16QAM	1	8	23.42	23.38	23.30	
3	16QAM	1	14	23.37	23.34	23.36	23.7
3	16QAM	8	0	22.15	22.06	22.11	
3	16QAM	8	4	22.13	22.07	22.20	
3	16QAM	8	7	22.16	22.14	22.17	23.7
3	16QAM	15	0	22.17	22.08	22.06	
3	64QAM	1	0	22.30	22.27	22.36	
3	64QAM	1	8	22.29	22.19	22.25	23.7
3	64QAM	1	14	22.32	22.28	22.35	
3	64QAM	8	0	21.15	21.08	21.07	22.7
3	64QAM	8	4	21.10	21.11	21.10	
3	64QAM	8	7	21.10	21.15	21.10	
3	64QAM	15	0	21.11	21.07	21.13	20.7
3	256QAM	1	0	19.61	19.51	19.61	
3	256QAM	1	8	19.62	19.50	19.58	
3	256QAM	1	14	19.64	19.62	19.63	20.7
3	256QAM	8	0	19.37	19.46	19.37	
3	256QAM	8	4	19.34	19.34	19.46	
3	256QAM	8	7	19.45	19.35	19.36	20.7
3	256QAM	15	0	19.44	19.40	19.42	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	24.01	24.04	24.02	25.7
1.4	QPSK	1	3	24.01	23.94	23.99	
1.4	QPSK	1	5	24.01	24.03	24.01	
1.4	QPSK	3	0	23.96	23.91	23.95	24.7
1.4	QPSK	3	1	23.96	23.96	23.94	
1.4	QPSK	3	3	23.94	23.91	23.96	
1.4	QPSK	6	0	23.02	23.06	23.08	24.7
1.4	16QAM	1	0	23.39	23.38	23.43	
1.4	16QAM	1	3	23.49	23.42	23.29	
1.4	16QAM	1	5	23.39	23.34	23.33	23.7
1.4	16QAM	3	0	23.46	23.42	23.44	
1.4	16QAM	3	1	23.47	23.35	23.31	
1.4	16QAM	3	3	23.36	23.43	23.34	23.7
1.4	16QAM	6	0	22.15	22.04	22.08	
1.4	64QAM	1	0	22.34	22.27	22.34	
1.4	64QAM	1	3	22.31	22.18	22.23	22.7
1.4	64QAM	1	5	22.36	22.28	22.31	
1.4	64QAM	3	0	22.25	22.24	22.32	
1.4	64QAM	3	1	22.25	22.19	22.25	20.7
1.4	64QAM	3	3	22.33	22.21	22.35	
1.4	64QAM	6	0	21.11	21.06	21.10	
1.4	256QAM	1	0	19.68	19.49	19.60	20.7
1.4	256QAM	1	3	19.67	19.56	19.54	
1.4	256QAM	1	5	19.58	19.64	19.64	
1.4	256QAM	3	0	19.62	19.58	19.61	20.7
1.4	256QAM	3	1	19.62	19.55	19.60	
1.4	256QAM	3	3	19.64	19.60	19.68	
1.4	256QAM	6	0	19.45	19.38	19.42	20.7



<LTE Band 12_Ant 1_Index 9>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	24.64	24.67	24.65	
10	QPSK	1	25	24.56	24.51	24.58	25.7
10	QPSK	1	49	24.58	24.62	24.62	
10	QPSK	25	0	23.70	23.75	23.70	
10	QPSK	25	12	23.69	23.69	23.70	24.7
10	QPSK	25	25	23.65	23.67	23.69	
10	QPSK	50	0	23.65	23.67	23.64	
10	16QAM	1	0	23.99	24.08	23.97	24.7
10	16QAM	1	25	23.96	24.04	23.98	
10	16QAM	1	49	23.91	24.06	24.01	
10	16QAM	25	0	22.73	22.73	22.76	23.7
10	16QAM	25	12	22.73	22.71	22.75	
10	16QAM	25	25	22.72	22.70	22.76	
10	16QAM	50	0	22.72	22.64	22.73	23.7
10	64QAM	1	0	22.89	22.89	22.88	
10	64QAM	1	25	22.75	22.71	22.82	
10	64QAM	1	49	22.91	22.82	22.77	22.7
10	64QAM	25	0	21.72	21.68	21.75	
10	64QAM	25	12	21.74	21.68	21.74	
10	64QAM	25	25	21.70	21.67	21.73	20.7
10	64QAM	50	0	21.73	21.67	21.72	
10	256QAM	1	0	20.30	20.34	20.30	
10	256QAM	1	25	20.16	20.16	20.23	20.7
10	256QAM	1	49	20.40	20.32	20.23	
10	256QAM	25	0	20.17	20.13	20.19	
10	256QAM	25	12	20.24	20.09	20.22	20.7
10	256QAM	25	25	20.14	20.16	20.15	
10	256QAM	50	0	20.22	20.11	20.18	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	24.56	24.66	24.52	
5	QPSK	1	12	24.41	24.51	24.53	25.7
5	QPSK	1	24	24.48	24.48	24.44	
5	QPSK	12	0	23.60	23.59	23.54	24.7
5	QPSK	12	7	23.57	23.56	23.54	
5	QPSK	12	13	23.47	23.57	23.66	
5	QPSK	25	0	23.60	23.65	23.60	24.7
5	16QAM	1	0	23.79	24.01	23.82	
5	16QAM	1	12	23.95	23.93	23.78	
5	16QAM	1	24	23.85	23.93	23.95	23.7
5	16QAM	12	0	22.71	22.73	22.66	
5	16QAM	12	7	22.58	22.65	22.60	
5	16QAM	12	13	22.57	22.64	22.63	23.7
5	16QAM	25	0	22.54	22.45	22.69	
5	64QAM	1	0	22.77	22.80	22.70	
5	64QAM	1	12	22.74	22.52	22.65	23.7
5	64QAM	1	24	22.82	22.69	22.63	
5	64QAM	12	0	21.56	21.55	21.73	
5	64QAM	12	7	21.56	21.54	21.69	22.7
5	64QAM	12	13	21.59	21.56	21.71	
5	64QAM	25	0	21.63	21.60	21.66	
5	256QAM	1	0	20.15	20.31	20.28	20.7
5	256QAM	1	12	20.00	20.03	20.05	
5	256QAM	1	24	20.25	20.28	20.09	
5	256QAM	12	0	19.99	20.13	20.17	20.7
5	256QAM	12	7	20.13	20.00	20.08	
5	256QAM	12	13	19.94	20.14	20.06	



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Report No. : FA3D2001D

5	256QAM	25	0	20.17	20.05	20.03	Tune-up limit (dBm)
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	24.62	24.55	24.46	25.7
3	QPSK	1	8	24.56	24.35	24.57	
3	QPSK	1	14	24.51	24.51	24.49	
3	QPSK	8	0	23.60	23.63	23.69	24.7
3	QPSK	8	4	23.56	23.55	23.56	
3	QPSK	8	7	23.51	23.50	23.57	
3	QPSK	15	0	23.59	23.49	23.59	24.7
3	16QAM	1	0	23.99	24.03	23.85	
3	16QAM	1	8	23.76	23.91	23.85	
3	16QAM	1	14	23.85	23.88	23.91	23.7
3	16QAM	8	0	22.56	22.58	22.75	
3	16QAM	8	4	22.72	22.71	22.55	
3	16QAM	8	7	22.60	22.67	22.56	23.7
3	16QAM	15	0	22.60	22.62	22.70	
3	64QAM	1	0	22.76	22.79	22.79	
3	64QAM	1	8	22.55	22.58	22.77	23.7
3	64QAM	1	14	22.73	22.69	22.76	
3	64QAM	8	0	21.55	21.67	21.65	22.7
3	64QAM	8	4	21.63	21.62	21.66	
3	64QAM	8	7	21.66	21.54	21.69	
3	64QAM	15	0	21.62	21.64	21.72	20.7
3	256QAM	1	0	20.23	20.19	20.14	
3	256QAM	1	8	20.13	20.00	20.04	
3	256QAM	1	14	20.23	20.21	20.18	20.7
3	256QAM	8	0	20.03	20.02	20.02	
3	256QAM	8	4	20.18	19.92	20.03	
3	256QAM	8	7	20.12	20.00	20.10	20.7
3	256QAM	15	0	20.10	19.91	20.00	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	24.55	24.49	24.63	25.7
1.4	QPSK	1	3	24.48	24.38	24.53	
1.4	QPSK	1	5	24.43	24.60	24.49	
1.4	QPSK	3	0	24.45	24.50	24.49	24.7
1.4	QPSK	3	1	24.46	24.44	24.44	
1.4	QPSK	3	3	24.54	24.53	24.44	
1.4	QPSK	6	0	23.52	23.75	23.57	24.7
1.4	16QAM	1	0	23.53	23.65	23.61	
1.4	16QAM	1	3	23.57	23.51	23.55	
1.4	16QAM	1	5	23.53	23.58	23.64	23.7
1.4	16QAM	3	0	23.79	23.88	23.79	
1.4	16QAM	3	1	23.96	23.88	23.93	
1.4	16QAM	3	3	23.90	23.90	24.00	23.7
1.4	16QAM	6	0	22.58	22.58	22.64	
1.4	64QAM	1	0	22.62	22.69	22.56	
1.4	64QAM	1	3	22.60	22.57	22.56	23.7
1.4	64QAM	1	5	22.55	22.54	22.67	
1.4	64QAM	3	0	22.71	22.81	22.73	
1.4	64QAM	3	1	22.65	22.63	22.63	22.7
1.4	64QAM	3	3	22.82	22.72	22.68	
1.4	64QAM	6	0	21.52	21.62	21.75	
1.4	256QAM	1	0	20.11	20.26	20.30	20.7
1.4	256QAM	1	3	20.13	20.06	20.12	
1.4	256QAM	1	5	20.30	20.31	20.17	
1.4	256QAM	3	0	19.97	20.07	20.08	20.7
1.4	256QAM	3	1	20.23	20.06	20.09	
1.4	256QAM	3	3	20.12	20.03	20.02	
1.4	256QAM	6	0	20.07	19.95	20.01	20.7



<LTE Band 12_Ant 0_Index 10>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	24.10	24.11	24.08	
10	QPSK	1	25	24.04	23.95	24.00	25.7
10	QPSK	1	49	24.06	24.08	24.03	
10	QPSK	25	0	23.14	23.20	23.18	
10	QPSK	25	12	23.11	23.13	23.18	24.7
10	QPSK	25	25	23.13	23.18	23.15	
10	QPSK	50	0	23.11	23.16	23.14	
10	16QAM	1	0	23.47	23.47	23.52	24.7
10	16QAM	1	25	23.51	23.42	23.35	
10	16QAM	1	49	23.42	23.43	23.43	
10	16QAM	25	0	22.18	22.14	22.20	23.7
10	16QAM	25	12	22.15	22.14	22.21	
10	16QAM	25	25	22.18	22.17	22.21	
10	16QAM	50	0	22.17	22.12	22.16	23.7
10	64QAM	1	0	22.34	22.34	22.38	
10	64QAM	1	25	22.35	22.24	22.28	
10	64QAM	1	49	22.36	22.30	22.39	22.7
10	64QAM	25	0	21.16	21.13	21.15	
10	64QAM	25	12	21.17	21.14	21.19	
10	64QAM	25	25	21.17	21.15	21.19	20.7
10	64QAM	50	0	21.20	21.16	21.18	
10	256QAM	1	0	19.68	19.59	19.65	
10	256QAM	1	25	19.69	19.59	19.63	20.7
10	256QAM	1	49	19.64	19.65	19.69	
10	256QAM	25	0	19.42	19.48	19.44	
10	256QAM	25	12	19.43	19.40	19.48	20.7
10	256QAM	25	25	19.48	19.42	19.46	
10	256QAM	50	0	19.51	19.41	19.44	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	24.03	24.00	24.01	
5	QPSK	1	12	23.95	23.94	23.99	25.7
5	QPSK	1	24	24.03	24.05	23.97	
5	QPSK	12	0	23.14	23.15	23.10	
5	QPSK	12	7	23.06	23.04	23.11	24.7
5	QPSK	12	13	23.09	23.09	23.09	
5	QPSK	25	0	23.05	23.07	23.10	
5	16QAM	1	0	23.46	23.38	23.44	24.7
5	16QAM	1	12	23.50	23.42	23.30	
5	16QAM	1	24	23.40	23.41	23.33	
5	16QAM	12	0	22.14	22.12	22.18	23.7
5	16QAM	12	7	22.06	22.05	22.20	
5	16QAM	12	13	22.16	22.08	22.13	
5	16QAM	25	0	22.17	22.11	22.16	23.7
5	64QAM	1	0	22.33	22.33	22.37	
5	64QAM	1	12	22.35	22.24	22.24	
5	64QAM	1	24	22.36	22.25	22.33	22.7
5	64QAM	12	0	21.11	21.08	21.07	
5	64QAM	12	7	21.14	21.12	21.11	
5	64QAM	12	13	21.13	21.11	21.18	20.7
5	64QAM	25	0	21.19	21.16	21.13	
5	256QAM	1	0	19.65	19.49	19.56	
5	256QAM	1	12	19.63	19.54	19.62	20.7
5	256QAM	1	24	19.55	19.61	19.64	
5	256QAM	12	0	19.42	19.48	19.43	
5	256QAM	12	7	19.42	19.35	19.45	20.7
5	256QAM	12	13	19.39	19.37	19.43	



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Report No. : FA3D2001D

5	256QAM	25	0	19.44	19.37	19.44	Tune-up limit (dBm)
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	24.01	24.03	24.06	25.7
3	QPSK	1	8	24.04	23.90	23.90	
3	QPSK	1	14	23.96	24.02	23.94	
3	QPSK	8	0	23.14	23.14	23.16	24.7
3	QPSK	8	4	23.07	23.07	23.15	
3	QPSK	8	7	23.12	23.12	23.13	
3	QPSK	15	0	23.05	23.14	23.10	24.7
3	16QAM	1	0	23.38	23.39	23.45	
3	16QAM	1	8	23.42	23.38	23.30	
3	16QAM	1	14	23.37	23.34	23.36	23.7
3	16QAM	8	0	22.15	22.06	22.11	
3	16QAM	8	4	22.13	22.07	22.20	
3	16QAM	8	7	22.16	22.14	22.17	23.7
3	16QAM	15	0	22.17	22.08	22.06	
3	64QAM	1	0	22.30	22.27	22.36	
3	64QAM	1	8	22.29	22.19	22.25	23.7
3	64QAM	1	14	22.32	22.28	22.35	
3	64QAM	8	0	21.15	21.08	21.07	22.7
3	64QAM	8	4	21.10	21.11	21.10	
3	64QAM	8	7	21.10	21.15	21.10	
3	64QAM	15	0	21.11	21.07	21.13	20.7
3	256QAM	1	0	19.61	19.51	19.61	
3	256QAM	1	8	19.62	19.50	19.58	
3	256QAM	1	14	19.64	19.62	19.63	20.7
3	256QAM	8	0	19.37	19.46	19.37	
3	256QAM	8	4	19.34	19.34	19.46	
3	256QAM	8	7	19.45	19.35	19.36	20.7
3	256QAM	15	0	19.44	19.40	19.42	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	24.01	24.04	24.02	25.7
1.4	QPSK	1	3	24.01	23.94	23.99	
1.4	QPSK	1	5	24.01	24.03	24.01	
1.4	QPSK	3	0	23.96	23.91	23.95	24.7
1.4	QPSK	3	1	23.96	23.96	23.94	
1.4	QPSK	3	3	23.94	23.91	23.96	
1.4	QPSK	6	0	23.02	23.06	23.08	24.7
1.4	16QAM	1	0	23.39	23.38	23.43	
1.4	16QAM	1	3	23.49	23.42	23.29	
1.4	16QAM	1	5	23.39	23.34	23.33	23.7
1.4	16QAM	3	0	23.46	23.42	23.44	
1.4	16QAM	3	1	23.47	23.35	23.31	
1.4	16QAM	3	3	23.36	23.43	23.34	23.7
1.4	16QAM	6	0	22.15	22.04	22.08	
1.4	64QAM	1	0	22.34	22.27	22.34	
1.4	64QAM	1	3	22.31	22.18	22.23	22.7
1.4	64QAM	1	5	22.36	22.28	22.31	
1.4	64QAM	3	0	22.25	22.24	22.32	
1.4	64QAM	3	1	22.25	22.19	22.25	20.7
1.4	64QAM	3	3	22.33	22.21	22.35	
1.4	64QAM	6	0	21.11	21.06	21.10	
1.4	256QAM	1	0	19.68	19.49	19.60	20.7
1.4	256QAM	1	3	19.67	19.56	19.54	
1.4	256QAM	1	5	19.58	19.64	19.64	
1.4	256QAM	3	0	19.62	19.58	19.61	20.7
1.4	256QAM	3	1	19.62	19.55	19.60	
1.4	256QAM	3	3	19.64	19.60	19.68	
1.4	256QAM	6	0	19.45	19.38	19.42	20.7



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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)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	24.64	24.67	24.65	
10	QPSK	1	25	24.56	24.51	24.58	25.7
10	QPSK	1	49	24.58	24.62	24.62	
10	QPSK	25	0	23.70	23.75	23.70	
10	QPSK	25	12	23.69	23.69	23.70	24.7
10	QPSK	25	25	23.65	23.67	23.69	
10	QPSK	50	0	23.65	23.67	23.64	
10	16QAM	1	0	23.99	24.08	23.97	24.7
10	16QAM	1	25	23.96	24.04	23.98	
10	16QAM	1	49	23.91	24.06	24.01	
10	16QAM	25	0	22.73	22.73	22.76	23.7
10	16QAM	25	12	22.73	22.71	22.75	
10	16QAM	25	25	22.72	22.70	22.76	
10	16QAM	50	0	22.72	22.64	22.73	23.7
10	64QAM	1	0	22.89	22.89	22.88	
10	64QAM	1	25	22.75	22.71	22.82	
10	64QAM	1	49	22.91	22.82	22.77	22.7
10	64QAM	25	0	21.72	21.68	21.75	
10	64QAM	25	12	21.74	21.68	21.74	
10	64QAM	25	25	21.70	21.67	21.73	20.7
10	64QAM	50	0	21.73	21.67	21.72	
10	256QAM	1	0	20.30	20.34	20.30	
10	256QAM	1	25	20.16	20.16	20.23	20.7
10	256QAM	1	49	20.40	20.32	20.23	
10	256QAM	25	0	20.17	20.13	20.19	
10	256QAM	25	12	20.24	20.09	20.22	20.7
10	256QAM	25	25	20.14	20.16	20.15	
10	256QAM	50	0	20.22	20.11	20.18	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	24.56	24.66	24.52	
5	QPSK	1	12	24.41	24.51	24.53	25.7
5	QPSK	1	24	24.48	24.48	24.44	
5	QPSK	12	0	23.60	23.59	23.54	24.7
5	QPSK	12	7	23.57	23.56	23.54	
5	QPSK	12	13	23.47	23.57	23.66	
5	QPSK	25	0	23.60	23.65	23.60	24.7
5	16QAM	1	0	23.79	24.01	23.82	
5	16QAM	1	12	23.95	23.93	23.78	
5	16QAM	1	24	23.85	23.93	23.95	23.7
5	16QAM	12	0	22.71	22.73	22.66	
5	16QAM	12	7	22.58	22.65	22.60	
5	16QAM	12	13	22.57	22.64	22.63	23.7
5	16QAM	25	0	22.54	22.45	22.69	
5	64QAM	1	0	22.77	22.80	22.70	
5	64QAM	1	12	22.74	22.52	22.65	23.7
5	64QAM	1	24	22.82	22.69	22.63	
5	64QAM	12	0	21.56	21.55	21.73	
5	64QAM	12	7	21.56	21.54	21.69	22.7
5	64QAM	12	13	21.59	21.56	21.71	
5	64QAM	25	0	21.63	21.60	21.66	
5	256QAM	1	0	20.15	20.31	20.28	20.7
5	256QAM	1	12	20.00	20.03	20.05	
5	256QAM	1	24	20.25	20.28	20.09	
5	256QAM	12	0	19.99	20.13	20.17	20.7
5	256QAM	12	7	20.13	20.00	20.08	
5	256QAM	12	13	19.94	20.14	20.06	



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Report No. : FA3D2001D

5	256QAM	25	0	20.17	20.05	20.03	Tune-up limit (dBm)
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	24.62	24.55	24.46	25.7
3	QPSK	1	8	24.56	24.35	24.57	
3	QPSK	1	14	24.51	24.51	24.49	
3	QPSK	8	0	23.60	23.63	23.69	24.7
3	QPSK	8	4	23.56	23.55	23.56	
3	QPSK	8	7	23.51	23.50	23.57	
3	QPSK	15	0	23.59	23.49	23.59	24.7
3	16QAM	1	0	23.99	24.03	23.85	
3	16QAM	1	8	23.76	23.91	23.85	
3	16QAM	1	14	23.85	23.88	23.91	23.7
3	16QAM	8	0	22.56	22.58	22.75	
3	16QAM	8	4	22.72	22.71	22.55	
3	16QAM	8	7	22.60	22.67	22.56	23.7
3	16QAM	15	0	22.60	22.62	22.70	
3	64QAM	1	0	22.76	22.79	22.79	
3	64QAM	1	8	22.55	22.58	22.77	23.7
3	64QAM	1	14	22.73	22.69	22.76	
3	64QAM	8	0	21.55	21.67	21.65	22.7
3	64QAM	8	4	21.63	21.62	21.66	
3	64QAM	8	7	21.66	21.54	21.69	
3	64QAM	15	0	21.62	21.64	21.72	20.7
3	256QAM	1	0	20.23	20.19	20.14	
3	256QAM	1	8	20.13	20.00	20.04	
3	256QAM	1	14	20.23	20.21	20.18	20.7
3	256QAM	8	0	20.03	20.02	20.02	
3	256QAM	8	4	20.18	19.92	20.03	
3	256QAM	8	7	20.12	20.00	20.10	20.7
3	256QAM	15	0	20.10	19.91	20.00	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	24.55	24.49	24.63	25.7
1.4	QPSK	1	3	24.48	24.38	24.53	
1.4	QPSK	1	5	24.43	24.60	24.49	
1.4	QPSK	3	0	24.45	24.50	24.49	24.7
1.4	QPSK	3	1	24.46	24.44	24.44	
1.4	QPSK	3	3	24.54	24.53	24.44	
1.4	QPSK	6	0	23.52	23.75	23.57	24.7
1.4	16QAM	1	0	23.53	23.65	23.61	
1.4	16QAM	1	3	23.57	23.51	23.55	
1.4	16QAM	1	5	23.53	23.58	23.64	23.7
1.4	16QAM	3	0	23.79	23.88	23.79	
1.4	16QAM	3	1	23.96	23.88	23.93	
1.4	16QAM	3	3	23.90	23.90	24.00	23.7
1.4	16QAM	6	0	22.58	22.58	22.64	
1.4	64QAM	1	0	22.62	22.69	22.56	
1.4	64QAM	1	3	22.60	22.57	22.56	23.7
1.4	64QAM	1	5	22.55	22.54	22.67	
1.4	64QAM	3	0	22.71	22.81	22.73	
1.4	64QAM	3	1	22.65	22.63	22.63	22.7
1.4	64QAM	3	3	22.82	22.72	22.68	
1.4	64QAM	6	0	21.52	21.62	21.75	
1.4	256QAM	1	0	20.11	20.26	20.30	20.7
1.4	256QAM	1	3	20.13	20.06	20.12	
1.4	256QAM	1	5	20.30	20.31	20.17	
1.4	256QAM	3	0	19.97	20.07	20.08	20.7
1.4	256QAM	3	1	20.23	20.06	20.09	
1.4	256QAM	3	3	20.12	20.03	20.02	
1.4	256QAM	6	0	20.07	19.95	20.01	20.7



<LTE Band 12_Ant 0_Index 11>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	24.10	24.11	24.08	
10	QPSK	1	25	24.04	23.95	24.00	25.7
10	QPSK	1	49	24.06	24.08	24.03	
10	QPSK	25	0	23.14	23.20	23.18	
10	QPSK	25	12	23.11	23.13	23.18	24.7
10	QPSK	25	25	23.13	23.18	23.15	
10	QPSK	50	0	23.11	23.16	23.14	
10	16QAM	1	0	23.47	23.47	23.52	24.7
10	16QAM	1	25	23.51	23.42	23.35	
10	16QAM	1	49	23.42	23.43	23.43	
10	16QAM	25	0	22.18	22.14	22.20	23.7
10	16QAM	25	12	22.15	22.14	22.21	
10	16QAM	25	25	22.18	22.17	22.21	
10	16QAM	50	0	22.17	22.12	22.16	23.7
10	64QAM	1	0	22.34	22.34	22.38	
10	64QAM	1	25	22.35	22.24	22.28	
10	64QAM	1	49	22.36	22.30	22.39	22.7
10	64QAM	25	0	21.16	21.13	21.15	
10	64QAM	25	12	21.17	21.14	21.19	
10	64QAM	25	25	21.17	21.15	21.19	20.7
10	64QAM	50	0	21.20	21.16	21.18	
10	256QAM	1	0	19.68	19.59	19.65	
10	256QAM	1	25	19.69	19.59	19.63	20.7
10	256QAM	1	49	19.64	19.65	19.69	
10	256QAM	25	0	19.42	19.48	19.44	
10	256QAM	25	12	19.43	19.40	19.48	20.7
10	256QAM	25	25	19.48	19.42	19.46	
10	256QAM	50	0	19.51	19.41	19.44	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	24.03	24.00	24.01	
5	QPSK	1	12	23.95	23.94	23.99	25.7
5	QPSK	1	24	24.03	24.05	23.97	
5	QPSK	12	0	23.14	23.15	23.10	
5	QPSK	12	7	23.06	23.04	23.11	24.7
5	QPSK	12	13	23.09	23.09	23.09	
5	QPSK	25	0	23.05	23.07	23.10	
5	16QAM	1	0	23.46	23.38	23.44	24.7
5	16QAM	1	12	23.50	23.42	23.30	
5	16QAM	1	24	23.40	23.41	23.33	
5	16QAM	12	0	22.14	22.12	22.18	23.7
5	16QAM	12	7	22.06	22.05	22.20	
5	16QAM	12	13	22.16	22.08	22.13	
5	16QAM	25	0	22.17	22.11	22.16	23.7
5	64QAM	1	0	22.33	22.33	22.37	
5	64QAM	1	12	22.35	22.24	22.24	
5	64QAM	1	24	22.36	22.25	22.33	22.7
5	64QAM	12	0	21.11	21.08	21.07	
5	64QAM	12	7	21.14	21.12	21.11	
5	64QAM	12	13	21.13	21.11	21.18	20.7
5	64QAM	25	0	21.19	21.16	21.13	
5	256QAM	1	0	19.65	19.49	19.56	
5	256QAM	1	12	19.63	19.54	19.62	20.7
5	256QAM	1	24	19.55	19.61	19.64	
5	256QAM	12	0	19.42	19.48	19.43	
5	256QAM	12	7	19.42	19.35	19.45	20.7
5	256QAM	12	13	19.39	19.37	19.43	



FCC SAR TEST REPORT

Report No. : FA3D2001D

5	256QAM	25	0	19.44	19.37	19.44	Tune-up limit (dBm)
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	24.01	24.03	24.06	25.7
3	QPSK	1	8	24.04	23.90	23.90	
3	QPSK	1	14	23.96	24.02	23.94	
3	QPSK	8	0	23.14	23.14	23.16	24.7
3	QPSK	8	4	23.07	23.07	23.15	
3	QPSK	8	7	23.12	23.12	23.13	
3	QPSK	15	0	23.05	23.14	23.10	24.7
3	16QAM	1	0	23.38	23.39	23.45	
3	16QAM	1	8	23.42	23.38	23.30	
3	16QAM	1	14	23.37	23.34	23.36	23.7
3	16QAM	8	0	22.15	22.06	22.11	
3	16QAM	8	4	22.13	22.07	22.20	
3	16QAM	8	7	22.16	22.14	22.17	23.7
3	16QAM	15	0	22.17	22.08	22.06	
3	64QAM	1	0	22.30	22.27	22.36	
3	64QAM	1	8	22.29	22.19	22.25	23.7
3	64QAM	1	14	22.32	22.28	22.35	
3	64QAM	8	0	21.15	21.08	21.07	22.7
3	64QAM	8	4	21.10	21.11	21.10	
3	64QAM	8	7	21.10	21.15	21.10	
3	64QAM	15	0	21.11	21.07	21.13	20.7
3	256QAM	1	0	19.61	19.51	19.61	
3	256QAM	1	8	19.62	19.50	19.58	
3	256QAM	1	14	19.64	19.62	19.63	20.7
3	256QAM	8	0	19.37	19.46	19.37	
3	256QAM	8	4	19.34	19.34	19.46	
3	256QAM	8	7	19.45	19.35	19.36	20.7
3	256QAM	15	0	19.44	19.40	19.42	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	24.01	24.04	24.02	25.7
1.4	QPSK	1	3	24.01	23.94	23.99	
1.4	QPSK	1	5	24.01	24.03	24.01	
1.4	QPSK	3	0	23.96	23.91	23.95	24.7
1.4	QPSK	3	1	23.96	23.96	23.94	
1.4	QPSK	3	3	23.94	23.91	23.96	
1.4	QPSK	6	0	23.02	23.06	23.08	24.7
1.4	16QAM	1	0	23.39	23.38	23.43	
1.4	16QAM	1	3	23.49	23.42	23.29	
1.4	16QAM	1	5	23.39	23.34	23.33	23.7
1.4	16QAM	3	0	23.46	23.42	23.44	
1.4	16QAM	3	1	23.47	23.35	23.31	
1.4	16QAM	3	3	23.36	23.43	23.34	23.7
1.4	16QAM	6	0	22.15	22.04	22.08	
1.4	64QAM	1	0	22.34	22.27	22.34	
1.4	64QAM	1	3	22.31	22.18	22.23	22.7
1.4	64QAM	1	5	22.36	22.28	22.31	
1.4	64QAM	3	0	22.25	22.24	22.32	
1.4	64QAM	3	1	22.25	22.19	22.25	20.7
1.4	64QAM	3	3	22.33	22.21	22.35	
1.4	64QAM	6	0	21.11	21.06	21.10	
1.4	256QAM	1	0	19.68	19.49	19.60	20.7
1.4	256QAM	1	3	19.67	19.56	19.54	
1.4	256QAM	1	5	19.58	19.64	19.64	
1.4	256QAM	3	0	19.62	19.58	19.61	20.7
1.4	256QAM	3	1	19.62	19.55	19.60	
1.4	256QAM	3	3	19.64	19.60	19.68	
1.4	256QAM	6	0	19.45	19.38	19.42	20.7



<LTE Band 12_Ant 1_Index 11>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	24.64	24.67	24.65	
10	QPSK	1	25	24.56	24.51	24.58	25.7
10	QPSK	1	49	24.58	24.62	24.62	
10	QPSK	25	0	23.70	23.75	23.70	
10	QPSK	25	12	23.69	23.69	23.70	24.7
10	QPSK	25	25	23.65	23.67	23.69	
10	QPSK	50	0	23.65	23.67	23.64	
10	16QAM	1	0	23.99	24.08	23.97	24.7
10	16QAM	1	25	23.96	24.04	23.98	
10	16QAM	1	49	23.91	24.06	24.01	
10	16QAM	25	0	22.73	22.73	22.76	23.7
10	16QAM	25	12	22.73	22.71	22.75	
10	16QAM	25	25	22.72	22.70	22.76	
10	16QAM	50	0	22.72	22.64	22.73	23.7
10	64QAM	1	0	22.89	22.89	22.88	
10	64QAM	1	25	22.75	22.71	22.82	
10	64QAM	1	49	22.91	22.82	22.77	22.7
10	64QAM	25	0	21.72	21.68	21.75	
10	64QAM	25	12	21.74	21.68	21.74	
10	64QAM	25	25	21.70	21.67	21.73	20.7
10	64QAM	50	0	21.73	21.67	21.72	
10	256QAM	1	0	20.30	20.34	20.30	
10	256QAM	1	25	20.16	20.16	20.23	20.7
10	256QAM	1	49	20.40	20.32	20.23	
10	256QAM	25	0	20.17	20.13	20.19	
10	256QAM	25	12	20.24	20.09	20.22	20.7
10	256QAM	25	25	20.14	20.16	20.15	
10	256QAM	50	0	20.22	20.11	20.18	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	24.56	24.66	24.52	
5	QPSK	1	12	24.41	24.51	24.53	25.7
5	QPSK	1	24	24.48	24.48	24.44	
5	QPSK	12	0	23.60	23.59	23.54	24.7
5	QPSK	12	7	23.57	23.56	23.54	
5	QPSK	12	13	23.47	23.57	23.66	
5	QPSK	25	0	23.60	23.65	23.60	24.7
5	16QAM	1	0	23.79	24.01	23.82	
5	16QAM	1	12	23.95	23.93	23.78	
5	16QAM	1	24	23.85	23.93	23.95	23.7
5	16QAM	12	0	22.71	22.73	22.66	
5	16QAM	12	7	22.58	22.65	22.60	
5	16QAM	12	13	22.57	22.64	22.63	23.7
5	16QAM	25	0	22.54	22.45	22.69	
5	64QAM	1	0	22.77	22.80	22.70	
5	64QAM	1	12	22.74	22.52	22.65	23.7
5	64QAM	1	24	22.82	22.69	22.63	
5	64QAM	12	0	21.56	21.55	21.73	
5	64QAM	12	7	21.56	21.54	21.69	22.7
5	64QAM	12	13	21.59	21.56	21.71	
5	64QAM	25	0	21.63	21.60	21.66	
5	256QAM	1	0	20.15	20.31	20.28	20.7
5	256QAM	1	12	20.00	20.03	20.05	
5	256QAM	1	24	20.25	20.28	20.09	
5	256QAM	12	0	19.99	20.13	20.17	20.7
5	256QAM	12	7	20.13	20.00	20.08	
5	256QAM	12	13	19.94	20.14	20.06	



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5	256QAM	25	0	20.17	20.05	20.03	Tune-up limit (dBm)
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	24.62	24.55	24.46	25.7
3	QPSK	1	8	24.56	24.35	24.57	
3	QPSK	1	14	24.51	24.51	24.49	
3	QPSK	8	0	23.60	23.63	23.69	24.7
3	QPSK	8	4	23.56	23.55	23.56	
3	QPSK	8	7	23.51	23.50	23.57	
3	QPSK	15	0	23.59	23.49	23.59	24.7
3	16QAM	1	0	23.99	24.03	23.85	
3	16QAM	1	8	23.76	23.91	23.85	
3	16QAM	1	14	23.85	23.88	23.91	23.7
3	16QAM	8	0	22.56	22.58	22.75	
3	16QAM	8	4	22.72	22.71	22.55	
3	16QAM	8	7	22.60	22.67	22.56	23.7
3	16QAM	15	0	22.60	22.62	22.70	
3	64QAM	1	0	22.76	22.79	22.79	
3	64QAM	1	8	22.55	22.58	22.77	23.7
3	64QAM	1	14	22.73	22.69	22.76	
3	64QAM	8	0	21.55	21.67	21.65	22.7
3	64QAM	8	4	21.63	21.62	21.66	
3	64QAM	8	7	21.66	21.54	21.69	
3	64QAM	15	0	21.62	21.64	21.72	20.7
3	256QAM	1	0	20.23	20.19	20.14	
3	256QAM	1	8	20.13	20.00	20.04	
3	256QAM	1	14	20.23	20.21	20.18	20.7
3	256QAM	8	0	20.03	20.02	20.02	
3	256QAM	8	4	20.18	19.92	20.03	
3	256QAM	8	7	20.12	20.00	20.10	20.7
3	256QAM	15	0	20.10	19.91	20.00	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	24.55	24.49	24.63	25.7
1.4	QPSK	1	3	24.48	24.38	24.53	
1.4	QPSK	1	5	24.43	24.60	24.49	
1.4	QPSK	3	0	24.45	24.50	24.49	24.7
1.4	QPSK	3	1	24.46	24.44	24.44	
1.4	QPSK	3	3	24.54	24.53	24.44	
1.4	QPSK	6	0	23.52	23.75	23.57	24.7
1.4	16QAM	1	0	23.53	23.65	23.61	
1.4	16QAM	1	3	23.57	23.51	23.55	
1.4	16QAM	1	5	23.53	23.58	23.64	23.7
1.4	16QAM	3	0	23.79	23.88	23.79	
1.4	16QAM	3	1	23.96	23.88	23.93	
1.4	16QAM	3	3	23.90	23.90	24.00	23.7
1.4	16QAM	6	0	22.58	22.58	22.64	
1.4	64QAM	1	0	22.62	22.69	22.56	
1.4	64QAM	1	3	22.60	22.57	22.56	23.7
1.4	64QAM	1	5	22.55	22.54	22.67	
1.4	64QAM	3	0	22.71	22.81	22.73	
1.4	64QAM	3	1	22.65	22.63	22.63	22.7
1.4	64QAM	3	3	22.82	22.72	22.68	
1.4	64QAM	6	0	21.52	21.62	21.75	
1.4	256QAM	1	0	20.11	20.26	20.30	20.7
1.4	256QAM	1	3	20.13	20.06	20.12	
1.4	256QAM	1	5	20.30	20.31	20.17	
1.4	256QAM	3	0	19.97	20.07	20.08	20.7
1.4	256QAM	3	1	20.23	20.06	20.09	
1.4	256QAM	3	3	20.12	20.03	20.02	
1.4	256QAM	6	0	20.07	19.95	20.01	20.7



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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)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0		24.20		25.7
10	QPSK	1	25		24.03		
10	QPSK	1	49		24.14		
10	QPSK	25	0		23.35		24.7
10	QPSK	25	12		23.33		
10	QPSK	25	25		23.31		
10	QPSK	50	0		23.29		24.7
10	16QAM	1	0		23.53		
10	16QAM	1	25		23.37		
10	16QAM	1	49		23.54		23.7
10	16QAM	25	0		22.25		
10	16QAM	25	12		22.29		
10	16QAM	25	25		22.29		23.7
10	16QAM	50	0		22.26		
10	64QAM	1	0		22.42		
10	64QAM	1	25		22.25		23.7
10	64QAM	1	49		22.38		
10	64QAM	25	0		21.27		
10	64QAM	25	12		21.28		22.7
10	64QAM	25	25		21.26		
10	64QAM	50	0		21.32		
10	256QAM	1	0		19.77		20.7
10	256QAM	1	25		19.55		
10	256QAM	1	49		19.66		
10	256QAM	25	0		19.53		20.7
10	256QAM	25	12		19.61		
10	256QAM	25	25		19.55		
10	256QAM	50	0		19.58		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	24.10	24.08	24.10	25.7
5	QPSK	1	12	24.03	23.99	24.01	
5	QPSK	1	24	24.10	24.08	24.05	
5	QPSK	12	0	23.27	23.28	23.26	24.7
5	QPSK	12	7	23.25	23.24	23.24	
5	QPSK	12	13	23.30	23.29	23.29	
5	QPSK	25	0	23.19	23.27	23.23	24.7
5	16QAM	1	0	23.51	23.48	23.49	
5	16QAM	1	12	23.31	23.29	23.31	
5	16QAM	1	24	23.51	23.47	23.52	23.7
5	16QAM	12	0	22.22	22.19	22.24	
5	16QAM	12	7	22.27	22.24	22.28	
5	16QAM	12	13	22.20	22.27	22.22	23.7
5	16QAM	25	0	22.21	22.21	22.17	
5	64QAM	1	0	22.34	22.33	22.35	
5	64QAM	1	12	22.20	22.25	22.17	23.7
5	64QAM	1	24	22.30	22.30	22.31	
5	64QAM	12	0	21.20	21.23	21.18	
5	64QAM	12	7	21.18	21.23	21.22	22.7
5	64QAM	12	13	21.20	21.21	21.20	
5	64QAM	25	0	21.24	21.26	21.28	
5	256QAM	1	0	19.74	19.70	19.68	20.7
5	256QAM	1	12	19.51	19.47	19.51	
5	256QAM	1	24	19.63	19.60	19.60	
5	256QAM	12	0	19.48	19.51	19.53	20.7
5	256QAM	12	7	19.56	19.51	19.55	
5	256QAM	12	13	19.54	19.46	19.52	
5	256QAM	25	0	19.49	19.53	19.53	



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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)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0		23.71		24.2
10	QPSK	1	25		23.56		
10	QPSK	1	49		23.58		
10	QPSK	25	0		23.65		24.2
10	QPSK	25	12		23.51		
10	QPSK	25	25		23.50		
10	QPSK	50	0		23.62		24.2
10	16QAM	1	0		23.40		
10	16QAM	1	25		23.35		
10	16QAM	1	49		23.31		23.7
10	16QAM	25	0		23.14		
10	16QAM	25	12		23.24		
10	16QAM	25	25		22.96		23.7
10	16QAM	50	0		23.25		
10	64QAM	1	0		23.06		
10	64QAM	1	25		23.03		22.7
10	64QAM	1	49		23.27		
10	64QAM	25	0		22.25		
10	64QAM	25	12		21.97		20.7
10	64QAM	25	25		22.14		
10	64QAM	50	0		21.98		
10	256QAM	1	0		20.36		20.7
10	256QAM	1	25		20.28		
10	256QAM	1	49		20.58		
10	256QAM	25	0		20.32		20.7
10	256QAM	25	12		20.38		
10	256QAM	25	25		20.30		
10	256QAM	50	0		20.30		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	23.58	23.69	23.51	
5	QPSK	1	12	23.41	23.36	23.55	24.2
5	QPSK	1	24	23.50	23.51	23.55	
5	QPSK	12	0	23.56	23.65	23.63	
5	QPSK	12	7	23.44	23.48	23.41	24.2
5	QPSK	12	13	23.30	23.47	23.50	
5	QPSK	25	0	23.57	23.47	23.42	
5	16QAM	1	0	23.40	23.21	23.37	24.2
5	16QAM	1	12	23.22	23.17	23.35	
5	16QAM	1	24	23.24	23.20	23.22	
5	16QAM	12	0	23.05	23.10	23.06	23.7
5	16QAM	12	7	23.08	23.20	23.05	
5	16QAM	12	13	22.82	22.93	22.83	
5	16QAM	25	0	23.22	23.11	23.14	23.7
5	64QAM	1	0	23.06	22.96	22.95	
5	64QAM	1	12	22.93	22.84	23.00	
5	64QAM	1	24	23.18	23.18	23.11	22.7
5	64QAM	12	0	22.14	22.18	22.22	
5	64QAM	12	7	21.95	21.82	21.93	
5	64QAM	12	13	22.10	22.10	22.03	20.7
5	64QAM	25	0	21.79	21.93	21.78	
5	256QAM	1	0	20.24	20.36	20.25	
5	256QAM	1	12	20.27	20.20	20.11	20.7
5	256QAM	1	24	20.46	20.52	20.40	
5	256QAM	12	0	20.32	20.28	20.13	
5	256QAM	12	7	20.35	20.25	20.18	20.7
5	256QAM	12	13	20.16	20.28	20.10	
5	256QAM	25	0	20.12	20.11	20.24	



<LTE Band 13_Ant 0_Index 9>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0		24.20		25.7
10	QPSK	1	25		24.03		
10	QPSK	1	49		24.14		
10	QPSK	25	0		23.35		24.7
10	QPSK	25	12		23.33		
10	QPSK	25	25		23.31		
10	QPSK	50	0		23.29		24.7
10	16QAM	1	0		23.53		
10	16QAM	1	25		23.37		
10	16QAM	1	49		23.54		23.7
10	16QAM	25	0		22.25		
10	16QAM	25	12		22.29		
10	16QAM	25	25		22.29		23.7
10	16QAM	50	0		22.26		
10	64QAM	1	0		22.42		
10	64QAM	1	25		22.25		23.7
10	64QAM	1	49		22.38		
10	64QAM	25	0		21.27		
10	64QAM	25	12		21.28		22.7
10	64QAM	25	25		21.26		
10	64QAM	50	0		21.32		
10	256QAM	1	0		19.77		20.7
10	256QAM	1	25		19.55		
10	256QAM	1	49		19.66		
10	256QAM	25	0		19.53		20.7
10	256QAM	25	12		19.61		
10	256QAM	25	25		19.55		
10	256QAM	50	0		19.58		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	24.10	24.08	24.10	25.7
5	QPSK	1	12	24.03	23.99	24.01	
5	QPSK	1	24	24.10	24.08	24.05	
5	QPSK	12	0	23.27	23.28	23.26	24.7
5	QPSK	12	7	23.25	23.24	23.24	
5	QPSK	12	13	23.30	23.29	23.29	
5	QPSK	25	0	23.19	23.27	23.23	24.7
5	16QAM	1	0	23.51	23.48	23.49	
5	16QAM	1	12	23.31	23.29	23.31	
5	16QAM	1	24	23.51	23.47	23.52	23.7
5	16QAM	12	0	22.22	22.19	22.24	
5	16QAM	12	7	22.27	22.24	22.28	
5	16QAM	12	13	22.20	22.27	22.22	23.7
5	16QAM	25	0	22.21	22.21	22.17	
5	64QAM	1	0	22.34	22.33	22.35	
5	64QAM	1	12	22.20	22.25	22.17	23.7
5	64QAM	1	24	22.30	22.30	22.31	
5	64QAM	12	0	21.20	21.23	21.18	22.7
5	64QAM	12	7	21.18	21.23	21.22	
5	64QAM	12	13	21.20	21.21	21.20	
5	64QAM	25	0	21.24	21.26	21.28	20.7
5	256QAM	1	0	19.74	19.70	19.68	
5	256QAM	1	12	19.51	19.47	19.51	
5	256QAM	1	24	19.63	19.60	19.60	20.7
5	256QAM	12	0	19.48	19.51	19.53	
5	256QAM	12	7	19.56	19.51	19.55	
5	256QAM	12	13	19.54	19.46	19.52	20.7
5	256QAM	25	0	19.49	19.53	19.53	



<LTE Band 13_Ant 1_Index 9>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0		24.96		25.7
10	QPSK	1	25		24.81		
10	QPSK	1	49		24.92		
10	QPSK	25	0		24.12		24.7
10	QPSK	25	12		24.10		
10	QPSK	25	25		24.08		
10	QPSK	50	0		24.11		24.7
10	16QAM	1	0		24.38		
10	16QAM	1	25		24.20		
10	16QAM	1	49		24.20		24.7
10	16QAM	25	0		23.05		
10	16QAM	25	12		23.05		
10	16QAM	25	25		23.05		23.7
10	16QAM	50	0		23.05		
10	64QAM	1	0		23.15		
10	64QAM	1	25		23.02		23.7
10	64QAM	1	49		23.12		
10	64QAM	25	0		22.05		
10	64QAM	25	12		22.08		22.7
10	64QAM	25	25		22.05		
10	64QAM	50	0		22.09		
10	256QAM	1	0		20.36		20.7
10	256QAM	1	25		20.26		
10	256QAM	1	49		20.41		
10	256QAM	25	0		20.29		20.7
10	256QAM	25	12		20.33		
10	256QAM	25	25		20.25		
10	256QAM	50	0		20.35		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	24.89	24.92	24.82	25.7
5	QPSK	1	12	24.80	24.63	24.62	
5	QPSK	1	24	24.82	24.84	24.89	
5	QPSK	12	0	24.10	23.99	24.07	24.7
5	QPSK	12	7	23.91	24.07	24.06	
5	QPSK	12	13	24.01	24.04	23.97	
5	QPSK	25	0	24.00	24.04	24.11	24.7
5	16QAM	1	0	24.22	24.38	24.36	
5	16QAM	1	12	24.06	24.06	24.01	
5	16QAM	1	24	24.10	24.18	24.00	23.7
5	16QAM	12	0	23.03	23.02	22.90	
5	16QAM	12	7	23.02	22.87	22.92	
5	16QAM	12	13	22.90	22.95	22.94	23.7
5	16QAM	25	0	22.92	22.90	22.92	
5	64QAM	1	0	23.08	23.07	22.96	
5	64QAM	1	12	22.82	22.83	22.85	23.7
5	64QAM	1	24	23.05	22.92	22.92	
5	64QAM	12	0	21.87	21.90	21.92	
5	64QAM	12	7	22.04	21.90	22.01	22.7
5	64QAM	12	13	22.03	21.90	21.91	
5	64QAM	25	0	21.98	22.01	21.98	
5	256QAM	1	0	20.34	20.17	20.29	20.7
5	256QAM	1	12	20.16	20.08	20.26	
5	256QAM	1	24	20.28	20.23	20.35	
5	256QAM	12	0	20.14	20.29	20.15	20.7
5	256QAM	12	7	20.21	20.20	20.23	
5	256QAM	12	13	20.21	20.21	20.24	
5	256QAM	25	0	20.25	20.19	20.15	



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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)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0		24.20		25.7
10	QPSK	1	25		24.03		
10	QPSK	1	49		24.14		
10	QPSK	25	0		23.35		24.7
10	QPSK	25	12		23.33		
10	QPSK	25	25		23.31		
10	QPSK	50	0		23.29		24.7
10	16QAM	1	0		23.53		
10	16QAM	1	25		23.37		
10	16QAM	1	49		23.54		23.7
10	16QAM	25	0		22.25		
10	16QAM	25	12		22.29		
10	16QAM	25	25		22.29		23.7
10	16QAM	50	0		22.26		
10	64QAM	1	0		22.42		
10	64QAM	1	25		22.25		23.7
10	64QAM	1	49		22.38		
10	64QAM	25	0		21.27		
10	64QAM	25	12		21.28		22.7
10	64QAM	25	25		21.26		
10	64QAM	50	0		21.32		
10	256QAM	1	0		19.77		20.7
10	256QAM	1	25		19.55		
10	256QAM	1	49		19.66		
10	256QAM	25	0		19.53		20.7
10	256QAM	25	12		19.61		
10	256QAM	25	25		19.55		
10	256QAM	50	0		19.58		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	24.10	24.08	24.10	25.7
5	QPSK	1	12	24.03	23.99	24.01	
5	QPSK	1	24	24.10	24.08	24.05	
5	QPSK	12	0	23.27	23.28	23.26	24.7
5	QPSK	12	7	23.25	23.24	23.24	
5	QPSK	12	13	23.30	23.29	23.29	
5	QPSK	25	0	23.19	23.27	23.23	24.7
5	16QAM	1	0	23.51	23.48	23.49	
5	16QAM	1	12	23.31	23.29	23.31	
5	16QAM	1	24	23.51	23.47	23.52	23.7
5	16QAM	12	0	22.22	22.19	22.24	
5	16QAM	12	7	22.27	22.24	22.28	
5	16QAM	12	13	22.20	22.27	22.22	23.7
5	16QAM	25	0	22.21	22.21	22.17	
5	64QAM	1	0	22.34	22.33	22.35	
5	64QAM	1	12	22.20	22.25	22.17	23.7
5	64QAM	1	24	22.30	22.30	22.31	
5	64QAM	12	0	21.20	21.23	21.18	
5	64QAM	12	7	21.18	21.23	21.22	22.7
5	64QAM	12	13	21.20	21.21	21.20	
5	64QAM	25	0	21.24	21.26	21.28	
5	256QAM	1	0	19.74	19.70	19.68	20.7
5	256QAM	1	12	19.51	19.47	19.51	
5	256QAM	1	24	19.63	19.60	19.60	
5	256QAM	12	0	19.48	19.51	19.53	20.7
5	256QAM	12	7	19.56	19.51	19.55	
5	256QAM	12	13	19.54	19.46	19.52	
5	256QAM	25	0	19.49	19.53	19.53	



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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)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0		24.96		25.7
10	QPSK	1	25		24.81		
10	QPSK	1	49		24.92		
10	QPSK	25	0		24.12		24.7
10	QPSK	25	12		24.10		
10	QPSK	25	25		24.08		
10	QPSK	50	0		24.11		24.7
10	16QAM	1	0		24.38		
10	16QAM	1	25		24.20		
10	16QAM	1	49		24.20		23.7
10	16QAM	25	0		23.05		
10	16QAM	25	12		23.05		
10	16QAM	25	25		23.05		23.7
10	16QAM	50	0		23.05		
10	64QAM	1	0		23.15		
10	64QAM	1	25		23.02		22.7
10	64QAM	1	49		23.12		
10	64QAM	25	0		22.05		
10	64QAM	25	12		22.08		20.7
10	64QAM	25	25		22.05		
10	64QAM	50	0		22.09		
10	256QAM	1	0		20.36		20.7
10	256QAM	1	25		20.26		
10	256QAM	1	49		20.41		
10	256QAM	25	0		20.29		20.7
10	256QAM	25	12		20.33		
10	256QAM	25	25		20.25		
10	256QAM	50	0		20.35		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	24.89	24.92	24.82	
5	QPSK	1	12	24.80	24.63	24.62	25.7
5	QPSK	1	24	24.82	24.84	24.89	
5	QPSK	12	0	24.10	23.99	24.07	
5	QPSK	12	7	23.91	24.07	24.06	24.7
5	QPSK	12	13	24.01	24.04	23.97	
5	QPSK	25	0	24.00	24.04	24.11	
5	16QAM	1	0	24.22	24.38	24.36	24.7
5	16QAM	1	12	24.06	24.06	24.01	
5	16QAM	1	24	24.10	24.18	24.00	
5	16QAM	12	0	23.03	23.02	22.90	23.7
5	16QAM	12	7	23.02	22.87	22.92	
5	16QAM	12	13	22.90	22.95	22.94	
5	16QAM	25	0	22.92	22.90	22.92	23.7
5	64QAM	1	0	23.08	23.07	22.96	
5	64QAM	1	12	22.82	22.83	22.85	
5	64QAM	1	24	23.05	22.92	22.92	22.7
5	64QAM	12	0	21.87	21.90	21.92	
5	64QAM	12	7	22.04	21.90	22.01	
5	64QAM	12	13	22.03	21.90	21.91	20.7
5	64QAM	25	0	21.98	22.01	21.98	
5	256QAM	1	0	20.34	20.17	20.29	
5	256QAM	1	12	20.16	20.08	20.26	20.7
5	256QAM	1	24	20.28	20.23	20.35	
5	256QAM	12	0	20.14	20.29	20.15	
5	256QAM	12	7	20.21	20.20	20.23	20.7
5	256QAM	12	13	20.21	20.21	20.24	
5	256QAM	25	0	20.25	20.19	20.15	



<LTE Band 13_Ant 0_Index 11>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0		24.20		25.7
10	QPSK	1	25		24.03		
10	QPSK	1	49		24.14		
10	QPSK	25	0		23.35		24.7
10	QPSK	25	12		23.33		
10	QPSK	25	25		23.31		
10	QPSK	50	0		23.29		24.7
10	16QAM	1	0		23.53		
10	16QAM	1	25		23.37		
10	16QAM	1	49		23.54		23.7
10	16QAM	25	0		22.25		
10	16QAM	25	12		22.29		
10	16QAM	25	25		22.29		23.7
10	16QAM	50	0		22.26		
10	64QAM	1	0		22.42		
10	64QAM	1	25		22.25		23.7
10	64QAM	1	49		22.38		
10	64QAM	25	0		21.27		
10	64QAM	25	12		21.28		22.7
10	64QAM	25	25		21.26		
10	64QAM	50	0		21.32		
10	256QAM	1	0		19.77		20.7
10	256QAM	1	25		19.55		
10	256QAM	1	49		19.66		
10	256QAM	25	0		19.53		20.7
10	256QAM	25	12		19.61		
10	256QAM	25	25		19.55		
10	256QAM	50	0		19.58		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	24.10	24.08	24.10	25.7
5	QPSK	1	12	24.03	23.99	24.01	
5	QPSK	1	24	24.10	24.08	24.05	
5	QPSK	12	0	23.27	23.28	23.26	24.7
5	QPSK	12	7	23.25	23.24	23.24	
5	QPSK	12	13	23.30	23.29	23.29	
5	QPSK	25	0	23.19	23.27	23.23	24.7
5	16QAM	1	0	23.51	23.48	23.49	
5	16QAM	1	12	23.31	23.29	23.31	
5	16QAM	1	24	23.51	23.47	23.52	23.7
5	16QAM	12	0	22.22	22.19	22.24	
5	16QAM	12	7	22.27	22.24	22.28	
5	16QAM	12	13	22.20	22.27	22.22	23.7
5	16QAM	25	0	22.21	22.21	22.17	
5	64QAM	1	0	22.34	22.33	22.35	
5	64QAM	1	12	22.20	22.25	22.17	23.7
5	64QAM	1	24	22.30	22.30	22.31	
5	64QAM	12	0	21.20	21.23	21.18	
5	64QAM	12	7	21.18	21.23	21.22	22.7
5	64QAM	12	13	21.20	21.21	21.20	
5	64QAM	25	0	21.24	21.26	21.28	
5	256QAM	1	0	19.74	19.70	19.68	20.7
5	256QAM	1	12	19.51	19.47	19.51	
5	256QAM	1	24	19.63	19.60	19.60	
5	256QAM	12	0	19.48	19.51	19.53	20.7
5	256QAM	12	7	19.56	19.51	19.55	
5	256QAM	12	13	19.54	19.46	19.52	
5	256QAM	25	0	19.49	19.53	19.53	



<LTE Band 13_Ant 1_Index 11>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0		24.96		25.7
10	QPSK	1	25		24.81		
10	QPSK	1	49		24.92		
10	QPSK	25	0		24.12		24.7
10	QPSK	25	12		24.10		
10	QPSK	25	25		24.08		
10	QPSK	50	0		24.11		24.7
10	16QAM	1	0		24.38		
10	16QAM	1	25		24.20		
10	16QAM	1	49		24.20		23.7
10	16QAM	25	0		23.05		
10	16QAM	25	12		23.05		
10	16QAM	25	25		23.05		23.7
10	16QAM	50	0		23.05		
10	64QAM	1	0		23.15		
10	64QAM	1	25		23.02		23.7
10	64QAM	1	49		23.12		
10	64QAM	25	0		22.05		
10	64QAM	25	12		22.08		22.7
10	64QAM	25	25		22.05		
10	64QAM	50	0		22.09		
10	256QAM	1	0		20.36		20.7
10	256QAM	1	25		20.26		
10	256QAM	1	49		20.41		
10	256QAM	25	0		20.29		20.7
10	256QAM	25	12		20.33		
10	256QAM	25	25		20.25		
10	256QAM	50	0		20.35		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	24.89	24.92	24.82	25.7
5	QPSK	1	12	24.80	24.63	24.62	
5	QPSK	1	24	24.82	24.84	24.89	
5	QPSK	12	0	24.10	23.99	24.07	24.7
5	QPSK	12	7	23.91	24.07	24.06	
5	QPSK	12	13	24.01	24.04	23.97	
5	QPSK	25	0	24.00	24.04	24.11	24.7
5	16QAM	1	0	24.22	24.38	24.36	
5	16QAM	1	12	24.06	24.06	24.01	
5	16QAM	1	24	24.10	24.18	24.00	23.7
5	16QAM	12	0	23.03	23.02	22.90	
5	16QAM	12	7	23.02	22.87	22.92	
5	16QAM	12	13	22.90	22.95	22.94	23.7
5	16QAM	25	0	22.92	22.90	22.92	
5	64QAM	1	0	23.08	23.07	22.96	
5	64QAM	1	12	22.82	22.83	22.85	23.7
5	64QAM	1	24	23.05	22.92	22.92	
5	64QAM	12	0	21.87	21.90	21.92	
5	64QAM	12	7	22.04	21.90	22.01	22.7
5	64QAM	12	13	22.03	21.90	21.91	
5	64QAM	25	0	21.98	22.01	21.98	
5	256QAM	1	0	20.34	20.17	20.29	20.7
5	256QAM	1	12	20.16	20.08	20.26	
5	256QAM	1	24	20.28	20.23	20.35	
5	256QAM	12	0	20.14	20.29	20.15	20.7
5	256QAM	12	7	20.21	20.20	20.23	
5	256QAM	12	13	20.21	20.21	20.24	
5	256QAM	25	0	20.25	20.19	20.15	



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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)
Channel				23330			
Frequency (MHz)				793			
10	QPSK	1	0		24.33		25.7
10	QPSK	1	25		24.18		
10	QPSK	1	49		24.23		
10	QPSK	25	0		23.40		24.7
10	QPSK	25	12		23.33		
10	QPSK	25	25		23.29		
10	QPSK	50	0		23.37		24.7
10	16QAM	1	0		23.57		
10	16QAM	1	25		23.65		
10	16QAM	1	49		23.56		23.7
10	16QAM	25	0		22.41		
10	16QAM	25	12		22.38		
10	16QAM	25	25		22.33		23.7
10	16QAM	50	0		22.32		
10	64QAM	1	0		22.46		
10	64QAM	1	25		22.56		23.7
10	64QAM	1	49		22.46		
10	64QAM	25	0		21.40		
10	64QAM	25	12		21.37		22.7
10	64QAM	25	25		21.37		
10	64QAM	50	0		21.37		
10	256QAM	1	0		19.75		20.7
10	256QAM	1	25		19.81		
10	256QAM	1	49		19.75		
10	256QAM	25	0		19.65		20.7
10	256QAM	25	12		19.70		
10	256QAM	25	25		19.63		
10	256QAM	50	0		19.72		
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	24.21	24.29	24.22	25.7
5	QPSK	1	12	24.13	24.11	24.18	
5	QPSK	1	24	24.13	24.20	24.23	
5	QPSK	12	0	23.30	23.38	23.37	24.7
5	QPSK	12	7	23.32	23.24	23.32	
5	QPSK	12	13	23.24	23.23	23.21	
5	QPSK	25	0	23.29	23.33	23.35	24.7
5	16QAM	1	0	23.57	23.48	23.49	
5	16QAM	1	12	23.61	23.65	23.62	
5	16QAM	1	24	23.55	23.55	23.56	23.7
5	16QAM	12	0	22.38	22.37	22.37	
5	16QAM	12	7	22.33	22.29	22.32	
5	16QAM	12	13	22.26	22.30	22.23	23.7
5	16QAM	25	0	22.27	22.31	22.28	
5	64QAM	1	0	22.45	22.38	22.36	
5	64QAM	1	12	22.55	22.46	22.48	23.7
5	64QAM	1	24	22.37	22.40	22.38	
5	64QAM	12	0	21.38	21.32	21.31	
5	64QAM	12	7	21.36	21.30	21.35	22.7
5	64QAM	12	13	21.31	21.31	21.27	
5	64QAM	25	0	21.27	21.27	21.30	
5	256QAM	1	0	19.72	19.74	19.73	20.7
5	256QAM	1	12	19.73	19.79	19.75	
5	256QAM	1	24	19.65	19.70	19.69	
5	256QAM	12	0	19.60	19.56	19.61	20.7
5	256QAM	12	7	19.67	19.61	19.67	
5	256QAM	12	13	19.59	19.55	19.54	
5	256QAM	25	0	19.72	19.71	19.71	



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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)
Channel				23330			
Frequency (MHz)				793			
10	QPSK	1	0		23.81		24.3
10	QPSK	1	25		23.74		
10	QPSK	1	49		23.65		
10	QPSK	25	0		23.72		24.3
10	QPSK	25	12		23.68		
10	QPSK	25	25		23.69		
10	QPSK	50	0		23.67		24.3
10	16QAM	1	0		23.60		
10	16QAM	1	25		23.45		
10	16QAM	1	49		23.54		23.7
10	16QAM	25	0		23.33		
10	16QAM	25	12		23.21		
10	16QAM	25	25		22.96		23.7
10	16QAM	50	0		23.11		
10	64QAM	1	0		23.41		
10	64QAM	1	25		23.30		23.7
10	64QAM	1	49		23.09		
10	64QAM	25	0		22.18		
10	64QAM	25	12		22.17		22.7
10	64QAM	25	25		22.28		
10	64QAM	50	0		21.95		
10	256QAM	1	0		20.70		20.7
10	256QAM	1	25		20.54		
10	256QAM	1	49		20.55		
10	256QAM	25	0		20.35		20.7
10	256QAM	25	12		20.56		
10	256QAM	25	25		20.46		
10	256QAM	50	0		20.52		
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	23.81	23.68	23.78	24.3
5	QPSK	1	12	23.61	23.70	23.66	
5	QPSK	1	24	23.45	23.60	23.54	
5	QPSK	12	0	23.62	23.57	23.60	24.3
5	QPSK	12	7	23.67	23.51	23.51	
5	QPSK	12	13	23.67	23.62	23.54	
5	QPSK	25	0	23.48	23.57	23.51	24.3
5	16QAM	1	0	23.46	23.51	23.46	
5	16QAM	1	12	23.39	23.45	23.44	
5	16QAM	1	24	23.45	23.50	23.47	23.7
5	16QAM	12	0	23.33	23.27	23.18	
5	16QAM	12	7	23.12	23.19	23.07	
5	16QAM	12	13	22.89	22.89	22.91	23.7
5	16QAM	25	0	22.95	23.05	23.11	
5	64QAM	1	0	23.24	23.22	23.32	
5	64QAM	1	12	23.19	23.16	23.11	23.7
5	64QAM	1	24	22.93	23.03	23.02	
5	64QAM	12	0	22.04	22.02	22.16	
5	64QAM	12	7	22.01	22.06	22.14	22.7
5	64QAM	12	13	22.15	22.27	22.24	
5	64QAM	25	0	21.90	21.90	21.84	
5	256QAM	1	0	20.68	20.68	20.69	20.7
5	256QAM	1	12	20.39	20.47	20.50	
5	256QAM	1	24	20.47	20.35	20.51	
5	256QAM	12	0	20.23	20.29	20.26	20.7
5	256QAM	12	7	20.55	20.45	20.52	
5	256QAM	12	13	20.28	20.32	20.43	
5	256QAM	25	0	20.37	20.48	20.39	



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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)
Channel				23330			
Frequency (MHz)				793			
10	QPSK	1	0		24.33		25.7
10	QPSK	1	25		24.18		
10	QPSK	1	49		24.23		
10	QPSK	25	0		23.40		24.7
10	QPSK	25	12		23.33		
10	QPSK	25	25		23.29		
10	QPSK	50	0		23.37		24.7
10	16QAM	1	0		23.57		
10	16QAM	1	25		23.65		
10	16QAM	1	49		23.56		23.7
10	16QAM	25	0		22.41		
10	16QAM	25	12		22.38		
10	16QAM	25	25		22.33		23.7
10	16QAM	50	0		22.32		
10	64QAM	1	0		22.46		
10	64QAM	1	25		22.56		23.7
10	64QAM	1	49		22.46		
10	64QAM	25	0		21.40		
10	64QAM	25	12		21.37		22.7
10	64QAM	25	25		21.37		
10	64QAM	50	0		21.37		
10	256QAM	1	0		19.75		20.7
10	256QAM	1	25		19.81		
10	256QAM	1	49		19.75		
10	256QAM	25	0		19.65		20.7
10	256QAM	25	12		19.70		
10	256QAM	25	25		19.63		
10	256QAM	50	0		19.72		
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	24.21	24.29	24.22	25.7
5	QPSK	1	12	24.13	24.11	24.18	
5	QPSK	1	24	24.13	24.20	24.23	
5	QPSK	12	0	23.30	23.38	23.37	24.7
5	QPSK	12	7	23.32	23.24	23.32	
5	QPSK	12	13	23.24	23.23	23.21	
5	QPSK	25	0	23.29	23.33	23.35	24.7
5	16QAM	1	0	23.57	23.48	23.49	
5	16QAM	1	12	23.61	23.65	23.62	
5	16QAM	1	24	23.55	23.55	23.56	23.7
5	16QAM	12	0	22.38	22.37	22.37	
5	16QAM	12	7	22.33	22.29	22.32	
5	16QAM	12	13	22.26	22.30	22.23	23.7
5	16QAM	25	0	22.27	22.31	22.28	
5	64QAM	1	0	22.45	22.38	22.36	
5	64QAM	1	12	22.55	22.46	22.48	23.7
5	64QAM	1	24	22.37	22.40	22.38	
5	64QAM	12	0	21.38	21.32	21.31	
5	64QAM	12	7	21.36	21.30	21.35	22.7
5	64QAM	12	13	21.31	21.31	21.27	
5	64QAM	25	0	21.27	21.27	21.30	
5	256QAM	1	0	19.72	19.74	19.73	20.7
5	256QAM	1	12	19.73	19.79	19.75	
5	256QAM	1	24	19.65	19.70	19.69	
5	256QAM	12	0	19.60	19.56	19.61	20.7
5	256QAM	12	7	19.67	19.61	19.67	
5	256QAM	12	13	19.59	19.55	19.54	
5	256QAM	25	0	19.72	19.71	19.71	



<LTE Band 14_Ant 1_Index 9>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23330			
Frequency (MHz)				793			
10	QPSK	1	0		25.09		25.7
10	QPSK	1	25		24.90		
10	QPSK	1	49		25.02		
10	QPSK	25	0		24.14		24.7
10	QPSK	25	12		24.13		
10	QPSK	25	25		24.13		
10	QPSK	50	0		24.12		24.7
10	16QAM	1	0		24.41		
10	16QAM	1	25		24.26		
10	16QAM	1	49		24.30		23.7
10	16QAM	25	0		23.14		
10	16QAM	25	12		23.09		
10	16QAM	25	25		23.10		23.7
10	16QAM	50	0		23.11		
10	64QAM	1	0		23.26		
10	64QAM	1	25		23.14		23.7
10	64QAM	1	49		23.11		
10	64QAM	25	0		22.15		
10	64QAM	25	12		22.15		22.7
10	64QAM	25	25		22.12		
10	64QAM	50	0		22.15		
10	256QAM	1	0		20.52		20.7
10	256QAM	1	25		20.34		
10	256QAM	1	49		20.38		
10	256QAM	25	0		20.41		20.7
10	256QAM	25	12		20.36		
10	256QAM	25	25		20.35		
10	256QAM	50	0		20.35		
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	24.89	24.94	24.90	25.7
5	QPSK	1	12	24.89	24.89	24.77	
5	QPSK	1	24	24.95	24.82	24.93	
5	QPSK	12	0	23.97	24.11	23.99	24.7
5	QPSK	12	7	24.08	23.95	23.97	
5	QPSK	12	13	24.06	24.07	24.11	
5	QPSK	25	0	23.99	24.05	24.09	24.7
5	16QAM	1	0	24.34	24.37	24.30	
5	16QAM	1	12	24.22	24.06	24.12	
5	16QAM	1	24	24.19	24.13	24.25	23.7
5	16QAM	12	0	23.04	23.09	23.00	
5	16QAM	12	7	23.03	23.00	22.95	
5	16QAM	12	13	23.02	23.06	23.06	23.7
5	16QAM	25	0	23.03	22.99	23.06	
5	64QAM	1	0	23.08	23.26	23.07	
5	64QAM	1	12	23.14	23.11	22.95	23.7
5	64QAM	1	24	23.05	23.09	23.06	
5	64QAM	12	0	21.99	22.01	21.98	
5	64QAM	12	7	22.02	22.09	21.95	22.7
5	64QAM	12	13	22.10	22.12	21.93	
5	64QAM	25	0	22.04	22.07	22.04	
5	256QAM	1	0	20.34	20.38	20.51	20.7
5	256QAM	1	12	20.27	20.29	20.18	
5	256QAM	1	24	20.29	20.28	20.20	
5	256QAM	12	0	20.24	20.38	20.24	20.7
5	256QAM	12	7	20.29	20.34	20.25	
5	256QAM	12	13	20.28	20.16	20.33	
5	256QAM	25	0	20.16	20.29	20.33	



<LTE Band 14_Ant 0_Index 10>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23330			
Frequency (MHz)				793			
10	QPSK	1	0		24.33		25.7
10	QPSK	1	25		24.18		
10	QPSK	1	49		24.23		
10	QPSK	25	0		23.40		24.7
10	QPSK	25	12		23.33		
10	QPSK	25	25		23.29		
10	QPSK	50	0		23.37		24.7
10	16QAM	1	0		23.57		
10	16QAM	1	25		23.65		
10	16QAM	1	49		23.56		23.7
10	16QAM	25	0		22.41		
10	16QAM	25	12		22.38		
10	16QAM	25	25		22.33		23.7
10	16QAM	50	0		22.32		
10	64QAM	1	0		22.46		
10	64QAM	1	25		22.56		23.7
10	64QAM	1	49		22.46		
10	64QAM	25	0		21.40		
10	64QAM	25	12		21.37		22.7
10	64QAM	25	25		21.37		
10	64QAM	50	0		21.37		
10	256QAM	1	0		19.75		20.7
10	256QAM	1	25		19.81		
10	256QAM	1	49		19.75		
10	256QAM	25	0		19.65		20.7
10	256QAM	25	12		19.70		
10	256QAM	25	25		19.63		
10	256QAM	50	0		19.72		
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	24.21	24.29	24.22	25.7
5	QPSK	1	12	24.13	24.11	24.18	
5	QPSK	1	24	24.13	24.20	24.23	
5	QPSK	12	0	23.30	23.38	23.37	24.7
5	QPSK	12	7	23.32	23.24	23.32	
5	QPSK	12	13	23.24	23.23	23.21	
5	QPSK	25	0	23.29	23.33	23.35	24.7
5	16QAM	1	0	23.57	23.48	23.49	
5	16QAM	1	12	23.61	23.65	23.62	
5	16QAM	1	24	23.55	23.55	23.56	23.7
5	16QAM	12	0	22.38	22.37	22.37	
5	16QAM	12	7	22.33	22.29	22.32	
5	16QAM	12	13	22.26	22.30	22.23	23.7
5	16QAM	25	0	22.27	22.31	22.28	
5	64QAM	1	0	22.45	22.38	22.36	
5	64QAM	1	12	22.55	22.46	22.48	23.7
5	64QAM	1	24	22.37	22.40	22.38	
5	64QAM	12	0	21.38	21.32	21.31	
5	64QAM	12	7	21.36	21.30	21.35	22.7
5	64QAM	12	13	21.31	21.31	21.27	
5	64QAM	25	0	21.27	21.27	21.30	
5	256QAM	1	0	19.72	19.74	19.73	20.7
5	256QAM	1	12	19.73	19.79	19.75	
5	256QAM	1	24	19.65	19.70	19.69	
5	256QAM	12	0	19.60	19.56	19.61	20.7
5	256QAM	12	7	19.67	19.61	19.67	
5	256QAM	12	13	19.59	19.55	19.54	
5	256QAM	25	0	19.72	19.71	19.71	



<LTE Band 14_Ant 1_Index 10>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23330			
Frequency (MHz)				793			
10	QPSK	1	0		25.09		25.7
10	QPSK	1	25		24.90		
10	QPSK	1	49		25.02		
10	QPSK	25	0		24.14		24.7
10	QPSK	25	12		24.13		
10	QPSK	25	25		24.13		
10	QPSK	50	0		24.12		24.7
10	16QAM	1	0		24.41		
10	16QAM	1	25		24.26		
10	16QAM	1	49		24.30		23.7
10	16QAM	25	0		23.14		
10	16QAM	25	12		23.09		
10	16QAM	25	25		23.10		23.7
10	16QAM	50	0		23.11		
10	64QAM	1	0		23.26		
10	64QAM	1	25		23.14		23.7
10	64QAM	1	49		23.11		
10	64QAM	25	0		22.15		
10	64QAM	25	12		22.15		22.7
10	64QAM	25	25		22.12		
10	64QAM	50	0		22.15		
10	256QAM	1	0		20.52		20.7
10	256QAM	1	25		20.34		
10	256QAM	1	49		20.38		
10	256QAM	25	0		20.41		20.7
10	256QAM	25	12		20.36		
10	256QAM	25	25		20.35		
10	256QAM	50	0		20.35		
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	24.89	24.94	24.90	25.7
5	QPSK	1	12	24.89	24.89	24.77	
5	QPSK	1	24	24.95	24.82	24.93	
5	QPSK	12	0	23.97	24.11	23.99	24.7
5	QPSK	12	7	24.08	23.95	23.97	
5	QPSK	12	13	24.06	24.07	24.11	
5	QPSK	25	0	23.99	24.05	24.09	24.7
5	16QAM	1	0	24.34	24.37	24.30	
5	16QAM	1	12	24.22	24.06	24.12	
5	16QAM	1	24	24.19	24.13	24.25	23.7
5	16QAM	12	0	23.04	23.09	23.00	
5	16QAM	12	7	23.03	23.00	22.95	
5	16QAM	12	13	23.02	23.06	23.06	23.7
5	16QAM	25	0	23.03	22.99	23.06	
5	64QAM	1	0	23.08	23.26	23.07	
5	64QAM	1	12	23.14	23.11	22.95	23.7
5	64QAM	1	24	23.05	23.09	23.06	
5	64QAM	12	0	21.99	22.01	21.98	
5	64QAM	12	7	22.02	22.09	21.95	22.7
5	64QAM	12	13	22.10	22.12	21.93	
5	64QAM	25	0	22.04	22.07	22.04	
5	256QAM	1	0	20.34	20.38	20.51	20.7
5	256QAM	1	12	20.27	20.29	20.18	
5	256QAM	1	24	20.29	20.28	20.20	
5	256QAM	12	0	20.24	20.38	20.24	20.7
5	256QAM	12	7	20.29	20.34	20.25	
5	256QAM	12	13	20.28	20.16	20.33	
5	256QAM	25	0	20.16	20.29	20.33	



<LTE Band 14_Ant 0_Index 11>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23330			
Frequency (MHz)				793			
10	QPSK	1	0		24.33		25.7
10	QPSK	1	25		24.18		
10	QPSK	1	49		24.23		
10	QPSK	25	0		23.40		24.7
10	QPSK	25	12		23.33		
10	QPSK	25	25		23.29		
10	QPSK	50	0		23.37		24.7
10	16QAM	1	0		23.57		
10	16QAM	1	25		23.65		
10	16QAM	1	49		23.56		23.7
10	16QAM	25	0		22.41		
10	16QAM	25	12		22.38		
10	16QAM	25	25		22.33		23.7
10	16QAM	50	0		22.32		
10	64QAM	1	0		22.46		
10	64QAM	1	25		22.56		23.7
10	64QAM	1	49		22.46		
10	64QAM	25	0		21.40		
10	64QAM	25	12		21.37		22.7
10	64QAM	25	25		21.37		
10	64QAM	50	0		21.37		
10	256QAM	1	0		19.75		20.7
10	256QAM	1	25		19.81		
10	256QAM	1	49		19.75		
10	256QAM	25	0		19.65		20.7
10	256QAM	25	12		19.70		
10	256QAM	25	25		19.63		
10	256QAM	50	0		19.72		
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	24.21	24.29	24.22	25.7
5	QPSK	1	12	24.13	24.11	24.18	
5	QPSK	1	24	24.13	24.20	24.23	
5	QPSK	12	0	23.30	23.38	23.37	24.7
5	QPSK	12	7	23.32	23.24	23.32	
5	QPSK	12	13	23.24	23.23	23.21	
5	QPSK	25	0	23.29	23.33	23.35	24.7
5	16QAM	1	0	23.57	23.48	23.49	
5	16QAM	1	12	23.61	23.65	23.62	
5	16QAM	1	24	23.55	23.55	23.56	23.7
5	16QAM	12	0	22.38	22.37	22.37	
5	16QAM	12	7	22.33	22.29	22.32	
5	16QAM	12	13	22.26	22.30	22.23	23.7
5	16QAM	25	0	22.27	22.31	22.28	
5	64QAM	1	0	22.45	22.38	22.36	
5	64QAM	1	12	22.55	22.46	22.48	23.7
5	64QAM	1	24	22.37	22.40	22.38	
5	64QAM	12	0	21.38	21.32	21.31	
5	64QAM	12	7	21.36	21.30	21.35	22.7
5	64QAM	12	13	21.31	21.31	21.27	
5	64QAM	25	0	21.27	21.27	21.30	
5	256QAM	1	0	19.72	19.74	19.73	20.7
5	256QAM	1	12	19.73	19.79	19.75	
5	256QAM	1	24	19.65	19.70	19.69	
5	256QAM	12	0	19.60	19.56	19.61	20.7
5	256QAM	12	7	19.67	19.61	19.67	
5	256QAM	12	13	19.59	19.55	19.54	
5	256QAM	25	0	19.72	19.71	19.71	



<LTE Band 14_Ant 1_Index 11>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23330			
Frequency (MHz)				793			
10	QPSK	1	0		25.09		25.7
10	QPSK	1	25		24.90		
10	QPSK	1	49		25.02		
10	QPSK	25	0		24.14		24.7
10	QPSK	25	12		24.13		
10	QPSK	25	25		24.13		
10	QPSK	50	0		24.12		24.7
10	16QAM	1	0		24.41		
10	16QAM	1	25		24.26		
10	16QAM	1	49		24.30		23.7
10	16QAM	25	0		23.14		
10	16QAM	25	12		23.09		
10	16QAM	25	25		23.10		23.7
10	16QAM	50	0		23.11		
10	64QAM	1	0		23.26		
10	64QAM	1	25		23.14		23.7
10	64QAM	1	49		23.11		
10	64QAM	25	0		22.15		
10	64QAM	25	12		22.15		22.7
10	64QAM	25	25		22.12		
10	64QAM	50	0		22.15		
10	256QAM	1	0		20.52		20.7
10	256QAM	1	25		20.34		
10	256QAM	1	49		20.38		
10	256QAM	25	0		20.41		20.7
10	256QAM	25	12		20.36		
10	256QAM	25	25		20.35		
10	256QAM	50	0		20.35		
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	24.89	24.94	24.90	25.7
5	QPSK	1	12	24.89	24.89	24.77	
5	QPSK	1	24	24.95	24.82	24.93	
5	QPSK	12	0	23.97	24.11	23.99	24.7
5	QPSK	12	7	24.08	23.95	23.97	
5	QPSK	12	13	24.06	24.07	24.11	
5	QPSK	25	0	23.99	24.05	24.09	24.7
5	16QAM	1	0	24.34	24.37	24.30	
5	16QAM	1	12	24.22	24.06	24.12	
5	16QAM	1	24	24.19	24.13	24.25	23.7
5	16QAM	12	0	23.04	23.09	23.00	
5	16QAM	12	7	23.03	23.00	22.95	
5	16QAM	12	13	23.02	23.06	23.06	23.7
5	16QAM	25	0	23.03	22.99	23.06	
5	64QAM	1	0	23.08	23.26	23.07	
5	64QAM	1	12	23.14	23.11	22.95	23.7
5	64QAM	1	24	23.05	23.09	23.06	
5	64QAM	12	0	21.99	22.01	21.98	
5	64QAM	12	7	22.02	22.09	21.95	22.7
5	64QAM	12	13	22.10	22.12	21.93	
5	64QAM	25	0	22.04	22.07	22.04	
5	256QAM	1	0	20.34	20.38	20.51	20.7
5	256QAM	1	12	20.27	20.29	20.18	
5	256QAM	1	24	20.29	20.28	20.20	
5	256QAM	12	0	20.24	20.38	20.24	20.7
5	256QAM	12	7	20.29	20.34	20.25	
5	256QAM	12	13	20.28	20.16	20.33	
5	256QAM	25	0	20.16	20.29	20.33	



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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)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	24.13	24.16	24.15	
10	QPSK	1	25	23.96	23.98	24.04	25.7
10	QPSK	1	49	24.13	24.09	24.13	
10	QPSK	25	0	23.23	23.28	23.24	
10	QPSK	25	12	23.20	23.23	23.23	24.7
10	QPSK	25	25	23.20	23.22	23.23	
10	QPSK	50	0	23.18	23.20	23.19	
10	16QAM	1	0	23.54	23.56	23.55	24.7
10	16QAM	1	25	23.37	23.43	23.44	
10	16QAM	1	49	23.38	23.47	23.48	
10	16QAM	25	0	22.19	22.19	22.22	23.7
10	16QAM	25	12	22.20	22.22	22.22	
10	16QAM	25	25	22.22	22.20	22.24	
10	16QAM	50	0	22.15	22.15	22.20	23.7
10	64QAM	1	0	22.43	22.32	22.35	
10	64QAM	1	25	22.23	22.19	22.32	
10	64QAM	1	49	22.33	22.33	22.36	22.7
10	64QAM	25	0	21.17	21.14	21.18	
10	64QAM	25	12	21.20	21.19	21.25	
10	64QAM	25	25	21.21	21.21	21.24	20.7
10	64QAM	50	0	21.20	21.21	21.21	
10	256QAM	1	0	19.72	19.59	19.68	
10	256QAM	1	25	19.53	19.44	19.64	20.7
10	256QAM	1	49	19.65	19.60	19.63	
10	256QAM	25	0	19.46	19.49	19.53	
10	256QAM	25	12	19.55	19.52	19.54	20.7
10	256QAM	25	25	19.50	19.49	19.58	
10	256QAM	50	0	19.54	19.54	19.54	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	24.09	24.11	24.02	
5	QPSK	1	12	23.87	23.95	23.97	25.7
5	QPSK	1	24	24.05	23.99	24.06	
5	QPSK	12	0	23.15	23.20	23.17	
5	QPSK	12	7	23.13	23.16	23.14	24.7
5	QPSK	12	13	23.19	23.19	23.19	
5	QPSK	25	0	23.14	23.12	23.16	
5	16QAM	1	0	23.44	23.49	23.47	24.7
5	16QAM	1	12	23.34	23.37	23.43	
5	16QAM	1	24	23.32	23.38	23.42	
5	16QAM	12	0	22.09	22.12	22.22	23.7
5	16QAM	12	7	22.10	22.20	22.20	
5	16QAM	12	13	22.12	22.15	22.18	
5	16QAM	25	0	22.05	22.07	22.12	23.7
5	64QAM	1	0	22.37	22.30	22.28	
5	64QAM	1	12	22.14	22.09	22.32	
5	64QAM	1	24	22.29	22.33	22.27	22.7
5	64QAM	12	0	21.12	21.11	21.12	
5	64QAM	12	7	21.11	21.13	21.22	
5	64QAM	12	13	21.13	21.21	21.18	20.7
5	64QAM	25	0	21.10	21.14	21.16	
5	256QAM	1	0	19.64	19.58	19.65	
5	256QAM	1	12	19.49	19.40	19.60	20.7
5	256QAM	1	24	19.55	19.56	19.62	
5	256QAM	12	0	19.36	19.44	19.51	
5	256QAM	12	7	19.48	19.49	19.44	20.7
5	256QAM	12	13	19.49	19.43	19.53	
5	256QAM	25	0	19.48	19.48	19.51	



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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)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	22.68	22.75	22.69	
10	QPSK	1	25	22.68	22.74	22.55	23.3
10	QPSK	1	49	22.67	22.59	22.54	
10	QPSK	25	0	22.62	22.71	22.66	
10	QPSK	25	12	22.57	22.67	22.52	23.3
10	QPSK	25	25	22.61	22.66	22.62	
10	QPSK	50	0	22.63	22.70	22.65	
10	16QAM	1	0	22.64	22.69	22.69	23.3
10	16QAM	1	25	22.62	22.60	22.49	
10	16QAM	1	49	22.64	22.57	22.59	
10	16QAM	25	0	22.60	22.69	22.64	23.3
10	16QAM	25	12	22.54	22.67	22.56	
10	16QAM	25	25	22.63	22.65	22.53	
10	16QAM	50	0	22.58	22.67	22.55	23.3
10	64QAM	1	0	22.72	22.63	22.73	
10	64QAM	1	25	22.67	22.59	22.60	
10	64QAM	1	49	22.72	22.66	22.73	22.7
10	64QAM	25	0	21.52	21.62	21.70	
10	64QAM	25	12	21.50	21.59	21.57	
10	64QAM	25	25	21.57	21.52	21.64	20.7
10	64QAM	50	0	21.53	21.63	21.63	
10	256QAM	1	0	20.14	20.05	20.18	
10	256QAM	1	25	20.04	20.01	20.11	20.7
10	256QAM	1	49	20.33	20.18	20.20	
10	256QAM	25	0	19.86	19.94	20.11	
10	256QAM	25	12	20.04	19.93	20.09	20.7
10	256QAM	25	25	20.09	20.02	19.95	
10	256QAM	50	0	19.83	19.99	20.02	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	22.55	22.57	22.52	
5	QPSK	1	12	22.63	22.57	22.35	23.3
5	QPSK	1	24	22.49	22.46	22.51	
5	QPSK	12	0	22.50	22.70	22.49	
5	QPSK	12	7	22.42	22.47	22.48	23.3
5	QPSK	12	13	22.60	22.62	22.60	
5	QPSK	25	0	22.43	22.59	22.63	
5	16QAM	1	0	22.61	22.50	22.54	23.3
5	16QAM	1	12	22.51	22.52	22.38	
5	16QAM	1	24	22.61	22.44	22.46	
5	16QAM	12	0	22.53	22.66	22.64	23.3
5	16QAM	12	7	22.37	22.47	22.38	
5	16QAM	12	13	22.50	22.61	22.36	
5	16QAM	25	0	22.54	22.50	22.40	23.3
5	64QAM	1	0	22.60	22.61	22.59	
5	64QAM	1	12	22.67	22.54	22.46	
5	64QAM	1	24	22.72	22.61	22.59	22.7
5	64QAM	12	0	21.43	21.43	21.54	
5	64QAM	12	7	21.36	21.44	21.53	
5	64QAM	12	13	21.40	21.51	21.61	20.7
5	64QAM	25	0	21.36	21.53	21.45	
5	256QAM	1	0	20.12	19.96	19.98	
5	256QAM	1	12	19.97	19.83	20.10	20.7
5	256QAM	1	24	20.29	20.17	20.17	
5	256QAM	12	0	19.71	19.80	20.07	
5	256QAM	12	7	19.88	19.78	20.03	20.7
5	256QAM	12	13	19.97	19.99	19.94	
5	256QAM	25	0	19.71	19.93	20.00	



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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)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	24.13	24.16	24.15	
10	QPSK	1	25	23.96	23.98	24.04	25.7
10	QPSK	1	49	24.13	24.09	24.13	
10	QPSK	25	0	23.23	23.28	23.24	
10	QPSK	25	12	23.20	23.23	23.23	24.7
10	QPSK	25	25	23.20	23.22	23.23	
10	QPSK	50	0	23.18	23.20	23.19	
10	16QAM	1	0	23.54	23.56	23.55	24.7
10	16QAM	1	25	23.37	23.43	23.44	
10	16QAM	1	49	23.38	23.47	23.48	
10	16QAM	25	0	22.19	22.19	22.22	23.7
10	16QAM	25	12	22.20	22.22	22.22	
10	16QAM	25	25	22.22	22.20	22.24	
10	16QAM	50	0	22.15	22.15	22.20	23.7
10	64QAM	1	0	22.43	22.32	22.35	
10	64QAM	1	25	22.23	22.19	22.32	
10	64QAM	1	49	22.33	22.33	22.36	22.7
10	64QAM	25	0	21.17	21.14	21.18	
10	64QAM	25	12	21.20	21.19	21.25	
10	64QAM	25	25	21.21	21.21	21.24	20.7
10	64QAM	50	0	21.20	21.21	21.21	
10	256QAM	1	0	19.72	19.59	19.68	
10	256QAM	1	25	19.53	19.44	19.64	20.7
10	256QAM	1	49	19.65	19.60	19.63	
10	256QAM	25	0	19.46	19.49	19.53	
10	256QAM	25	12	19.55	19.52	19.54	20.7
10	256QAM	25	25	19.50	19.49	19.58	
10	256QAM	50	0	19.54	19.54	19.54	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	24.09	24.11	24.02	
5	QPSK	1	12	23.87	23.95	23.97	25.7
5	QPSK	1	24	24.05	23.99	24.06	
5	QPSK	12	0	23.15	23.20	23.17	
5	QPSK	12	7	23.13	23.16	23.14	24.7
5	QPSK	12	13	23.19	23.19	23.19	
5	QPSK	25	0	23.14	23.12	23.16	
5	16QAM	1	0	23.44	23.49	23.47	24.7
5	16QAM	1	12	23.34	23.37	23.43	
5	16QAM	1	24	23.32	23.38	23.42	
5	16QAM	12	0	22.09	22.12	22.22	23.7
5	16QAM	12	7	22.10	22.20	22.20	
5	16QAM	12	13	22.12	22.15	22.18	
5	16QAM	25	0	22.05	22.07	22.12	23.7
5	64QAM	1	0	22.37	22.30	22.28	
5	64QAM	1	12	22.14	22.09	22.32	
5	64QAM	1	24	22.29	22.33	22.27	22.7
5	64QAM	12	0	21.12	21.11	21.12	
5	64QAM	12	7	21.11	21.13	21.22	
5	64QAM	12	13	21.13	21.21	21.18	20.7
5	64QAM	25	0	21.10	21.14	21.16	
5	256QAM	1	0	19.64	19.58	19.65	
5	256QAM	1	12	19.49	19.40	19.60	20.7
5	256QAM	1	24	19.55	19.56	19.62	
5	256QAM	12	0	19.36	19.44	19.51	
5	256QAM	12	7	19.48	19.49	19.44	20.7
5	256QAM	12	13	19.49	19.43	19.53	
5	256QAM	25	0	19.48	19.48	19.51	



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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)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	24.60	24.64	24.62	
10	QPSK	1	25	24.50	24.57	24.56	25.7
10	QPSK	1	49	24.60	24.61	24.61	
10	QPSK	25	0	23.68	23.70	23.69	
10	QPSK	25	12	23.65	23.66	23.66	24.7
10	QPSK	25	25	23.65	23.65	23.66	
10	QPSK	50	0	23.68	23.69	23.65	
10	16QAM	1	0	23.99	23.91	23.99	24.7
10	16QAM	1	25	23.97	23.95	23.98	
10	16QAM	1	49	24.03	23.98	23.88	
10	16QAM	25	0	22.69	22.70	22.73	23.7
10	16QAM	25	12	22.69	22.72	22.72	
10	16QAM	25	25	22.71	22.69	22.72	
10	16QAM	50	0	22.66	22.68	22.69	23.7
10	64QAM	1	0	22.89	22.78	22.90	
10	64QAM	1	25	22.71	22.77	22.76	
10	64QAM	1	49	22.97	22.85	22.80	22.7
10	64QAM	25	0	21.69	21.69	21.71	
10	64QAM	25	12	21.68	21.68	21.73	
10	64QAM	25	25	21.69	21.67	21.70	20.7
10	64QAM	50	0	21.67	21.68	21.71	
10	256QAM	1	0	20.30	20.23	20.32	
10	256QAM	1	25	20.13	20.18	20.18	20.7
10	256QAM	1	49	20.33	20.22	20.22	
10	256QAM	25	0	20.05	20.13	20.15	
10	256QAM	25	12	20.04	20.10	20.18	20.7
10	256QAM	25	25	20.11	20.09	20.06	
10	256QAM	50	0	20.03	20.07	20.14	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	24.57	24.51	24.42	25.7
5	QPSK	1	12	24.45	24.57	24.45	
5	QPSK	1	24	24.45	24.45	24.52	
5	QPSK	12	0	23.60	23.55	23.56	24.7
5	QPSK	12	7	23.59	23.58	23.63	
5	QPSK	12	13	23.56	23.64	23.60	
5	QPSK	25	0	23.50	23.59	23.50	24.7
5	16QAM	1	0	23.89	23.77	23.97	
5	16QAM	1	12	23.84	23.95	23.80	
5	16QAM	1	24	24.02	23.91	23.69	23.7
5	16QAM	12	0	22.57	22.52	22.59	
5	16QAM	12	7	22.51	22.69	22.67	
5	16QAM	12	13	22.71	22.64	22.70	23.7
5	16QAM	25	0	22.58	22.48	22.68	
5	64QAM	1	0	22.83	22.78	22.80	
5	64QAM	1	12	22.57	22.57	22.66	22.7
5	64QAM	1	24	22.87	22.75	22.61	
5	64QAM	12	0	21.58	21.49	21.62	
5	64QAM	12	7	21.54	21.63	21.65	20.7
5	64QAM	12	13	21.68	21.48	21.60	
5	64QAM	25	0	21.63	21.67	21.70	
5	256QAM	1	0	20.29	20.19	20.13	20.7
5	256QAM	1	12	20.08	20.12	20.11	
5	256QAM	1	24	20.32	20.06	20.12	
5	256QAM	12	0	20.05	19.97	20.00	20.7
5	256QAM	12	7	20.03	20.10	20.03	
5	256QAM	12	13	19.99	20.09	19.89	
5	256QAM	25	0	19.97	19.92	20.03	



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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)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	24.13	24.16	24.15	
10	QPSK	1	25	23.96	23.98	24.04	25.7
10	QPSK	1	49	24.13	24.09	24.13	
10	QPSK	25	0	23.23	23.28	23.24	
10	QPSK	25	12	23.20	23.23	23.23	24.7
10	QPSK	25	25	23.20	23.22	23.23	
10	QPSK	50	0	23.18	23.20	23.19	
10	16QAM	1	0	23.54	23.56	23.55	24.7
10	16QAM	1	25	23.37	23.43	23.44	
10	16QAM	1	49	23.38	23.47	23.48	
10	16QAM	25	0	22.19	22.19	22.22	23.7
10	16QAM	25	12	22.20	22.22	22.22	
10	16QAM	25	25	22.22	22.20	22.24	
10	16QAM	50	0	22.15	22.15	22.20	23.7
10	64QAM	1	0	22.43	22.32	22.35	
10	64QAM	1	25	22.23	22.19	22.32	
10	64QAM	1	49	22.33	22.33	22.36	22.7
10	64QAM	25	0	21.17	21.14	21.18	
10	64QAM	25	12	21.20	21.19	21.25	
10	64QAM	25	25	21.21	21.21	21.24	20.7
10	64QAM	50	0	21.20	21.21	21.21	
10	256QAM	1	0	19.72	19.59	19.68	
10	256QAM	1	25	19.53	19.44	19.64	20.7
10	256QAM	1	49	19.65	19.60	19.63	
10	256QAM	25	0	19.46	19.49	19.53	
10	256QAM	25	12	19.55	19.52	19.54	20.7
10	256QAM	25	25	19.50	19.49	19.58	
10	256QAM	50	0	19.54	19.54	19.54	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	24.09	24.11	24.02	
5	QPSK	1	12	23.87	23.95	23.97	25.7
5	QPSK	1	24	24.05	23.99	24.06	
5	QPSK	12	0	23.15	23.20	23.17	
5	QPSK	12	7	23.13	23.16	23.14	24.7
5	QPSK	12	13	23.19	23.19	23.19	
5	QPSK	25	0	23.14	23.12	23.16	
5	16QAM	1	0	23.44	23.49	23.47	24.7
5	16QAM	1	12	23.34	23.37	23.43	
5	16QAM	1	24	23.32	23.38	23.42	
5	16QAM	12	0	22.09	22.12	22.22	23.7
5	16QAM	12	7	22.10	22.20	22.20	
5	16QAM	12	13	22.12	22.15	22.18	
5	16QAM	25	0	22.05	22.07	22.12	23.7
5	64QAM	1	0	22.37	22.30	22.28	
5	64QAM	1	12	22.14	22.09	22.32	
5	64QAM	1	24	22.29	22.33	22.27	22.7
5	64QAM	12	0	21.12	21.11	21.12	
5	64QAM	12	7	21.11	21.13	21.22	
5	64QAM	12	13	21.13	21.21	21.18	20.7
5	64QAM	25	0	21.10	21.14	21.16	
5	256QAM	1	0	19.64	19.58	19.65	
5	256QAM	1	12	19.49	19.40	19.60	20.7
5	256QAM	1	24	19.55	19.56	19.62	
5	256QAM	12	0	19.36	19.44	19.51	
5	256QAM	12	7	19.48	19.49	19.44	20.7
5	256QAM	12	13	19.49	19.43	19.53	
5	256QAM	25	0	19.48	19.48	19.51	



<LTE Band 17_Ant 1_Index 10>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	24.60	24.64	24.62	25.7
10	QPSK	1	25	24.50	24.57	24.56	
10	QPSK	1	49	24.60	24.61	24.61	
10	QPSK	25	0	23.68	23.70	23.69	24.7
10	QPSK	25	12	23.65	23.66	23.66	
10	QPSK	25	25	23.65	23.65	23.66	
10	QPSK	50	0	23.68	23.69	23.65	24.7
10	16QAM	1	0	23.99	23.91	23.99	
10	16QAM	1	25	23.97	23.95	23.98	
10	16QAM	1	49	24.03	23.98	23.88	23.7
10	16QAM	25	0	22.69	22.70	22.73	
10	16QAM	25	12	22.69	22.72	22.72	
10	16QAM	25	25	22.71	22.69	22.72	23.7
10	16QAM	50	0	22.66	22.68	22.69	
10	64QAM	1	0	22.89	22.78	22.90	
10	64QAM	1	25	22.71	22.77	22.76	22.7
10	64QAM	1	49	22.97	22.85	22.80	
10	64QAM	25	0	21.69	21.69	21.71	
10	64QAM	25	12	21.68	21.68	21.73	20.7
10	64QAM	25	25	21.69	21.67	21.70	
10	64QAM	50	0	21.67	21.68	21.71	
10	256QAM	1	0	20.30	20.23	20.32	20.7
10	256QAM	1	25	20.13	20.18	20.18	
10	256QAM	1	49	20.33	20.22	20.22	
10	256QAM	25	0	20.05	20.13	20.15	20.7
10	256QAM	25	12	20.04	20.10	20.18	
10	256QAM	25	25	20.11	20.09	20.06	
10	256QAM	50	0	20.03	20.07	20.14	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	24.57	24.51	24.42	25.7
5	QPSK	1	12	24.45	24.57	24.45	
5	QPSK	1	24	24.45	24.45	24.52	
5	QPSK	12	0	23.60	23.55	23.56	24.7
5	QPSK	12	7	23.59	23.58	23.63	
5	QPSK	12	13	23.56	23.64	23.60	
5	QPSK	25	0	23.50	23.59	23.50	24.7
5	16QAM	1	0	23.89	23.77	23.97	
5	16QAM	1	12	23.84	23.95	23.80	
5	16QAM	1	24	24.02	23.91	23.69	23.7
5	16QAM	12	0	22.57	22.52	22.59	
5	16QAM	12	7	22.51	22.69	22.67	
5	16QAM	12	13	22.71	22.64	22.70	23.7
5	16QAM	25	0	22.58	22.48	22.68	
5	64QAM	1	0	22.83	22.78	22.80	
5	64QAM	1	12	22.57	22.57	22.66	22.7
5	64QAM	1	24	22.87	22.75	22.61	
5	64QAM	12	0	21.58	21.49	21.62	
5	64QAM	12	7	21.54	21.63	21.65	20.7
5	64QAM	12	13	21.68	21.48	21.60	
5	64QAM	25	0	21.63	21.67	21.70	
5	256QAM	1	0	20.29	20.19	20.13	20.7
5	256QAM	1	12	20.08	20.12	20.11	
5	256QAM	1	24	20.32	20.06	20.12	
5	256QAM	12	0	20.05	19.97	20.00	20.7
5	256QAM	12	7	20.03	20.10	20.03	
5	256QAM	12	13	19.99	20.09	19.89	
5	256QAM	25	0	19.97	19.92	20.03	



<LTE Band 17_Ant 0_Index 11>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	24.13	24.16	24.15	
10	QPSK	1	25	23.96	23.98	24.04	25.7
10	QPSK	1	49	24.13	24.09	24.13	
10	QPSK	25	0	23.23	23.28	23.24	
10	QPSK	25	12	23.20	23.23	23.23	24.7
10	QPSK	25	25	23.20	23.22	23.23	
10	QPSK	50	0	23.18	23.20	23.19	
10	16QAM	1	0	23.54	23.56	23.55	24.7
10	16QAM	1	25	23.37	23.43	23.44	
10	16QAM	1	49	23.38	23.47	23.48	
10	16QAM	25	0	22.19	22.19	22.22	23.7
10	16QAM	25	12	22.20	22.22	22.22	
10	16QAM	25	25	22.22	22.20	22.24	
10	16QAM	50	0	22.15	22.15	22.20	23.7
10	64QAM	1	0	22.43	22.32	22.35	
10	64QAM	1	25	22.23	22.19	22.32	
10	64QAM	1	49	22.33	22.33	22.36	22.7
10	64QAM	25	0	21.17	21.14	21.18	
10	64QAM	25	12	21.20	21.19	21.25	
10	64QAM	25	25	21.21	21.21	21.24	20.7
10	64QAM	50	0	21.20	21.21	21.21	
10	256QAM	1	0	19.72	19.59	19.68	
10	256QAM	1	25	19.53	19.44	19.64	20.7
10	256QAM	1	49	19.65	19.60	19.63	
10	256QAM	25	0	19.46	19.49	19.53	
10	256QAM	25	12	19.55	19.52	19.54	20.7
10	256QAM	25	25	19.50	19.49	19.58	
10	256QAM	50	0	19.54	19.54	19.54	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	24.09	24.11	24.02	
5	QPSK	1	12	23.87	23.95	23.97	25.7
5	QPSK	1	24	24.05	23.99	24.06	
5	QPSK	12	0	23.15	23.20	23.17	
5	QPSK	12	7	23.13	23.16	23.14	24.7
5	QPSK	12	13	23.19	23.19	23.19	
5	QPSK	25	0	23.14	23.12	23.16	
5	16QAM	1	0	23.44	23.49	23.47	24.7
5	16QAM	1	12	23.34	23.37	23.43	
5	16QAM	1	24	23.32	23.38	23.42	
5	16QAM	12	0	22.09	22.12	22.22	23.7
5	16QAM	12	7	22.10	22.20	22.20	
5	16QAM	12	13	22.12	22.15	22.18	
5	16QAM	25	0	22.05	22.07	22.12	23.7
5	64QAM	1	0	22.37	22.30	22.28	
5	64QAM	1	12	22.14	22.09	22.32	
5	64QAM	1	24	22.29	22.33	22.27	22.7
5	64QAM	12	0	21.12	21.11	21.12	
5	64QAM	12	7	21.11	21.13	21.22	
5	64QAM	12	13	21.13	21.21	21.18	20.7
5	64QAM	25	0	21.10	21.14	21.16	
5	256QAM	1	0	19.64	19.58	19.65	
5	256QAM	1	12	19.49	19.40	19.60	20.7
5	256QAM	1	24	19.55	19.56	19.62	
5	256QAM	12	0	19.36	19.44	19.51	
5	256QAM	12	7	19.48	19.49	19.44	20.7
5	256QAM	12	13	19.49	19.43	19.53	
5	256QAM	25	0	19.48	19.48	19.51	



<LTE Band 17_Ant 1_Index 11>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	24.60	24.64	24.62	25.7
10	QPSK	1	25	24.50	24.57	24.56	
10	QPSK	1	49	24.60	24.61	24.61	
10	QPSK	25	0	23.68	23.70	23.69	24.7
10	QPSK	25	12	23.65	23.66	23.66	
10	QPSK	25	25	23.65	23.65	23.66	
10	QPSK	50	0	23.68	23.69	23.65	24.7
10	16QAM	1	0	23.99	23.91	23.99	
10	16QAM	1	25	23.97	23.95	23.98	
10	16QAM	1	49	24.03	23.98	23.88	23.7
10	16QAM	25	0	22.69	22.70	22.73	
10	16QAM	25	12	22.69	22.72	22.72	
10	16QAM	25	25	22.71	22.69	22.72	23.7
10	16QAM	50	0	22.66	22.68	22.69	
10	64QAM	1	0	22.89	22.78	22.90	
10	64QAM	1	25	22.71	22.77	22.76	22.7
10	64QAM	1	49	22.97	22.85	22.80	
10	64QAM	25	0	21.69	21.69	21.71	
10	64QAM	25	12	21.68	21.68	21.73	20.7
10	64QAM	25	25	21.69	21.67	21.70	
10	64QAM	50	0	21.67	21.68	21.71	
10	256QAM	1	0	20.30	20.23	20.32	20.7
10	256QAM	1	25	20.13	20.18	20.18	
10	256QAM	1	49	20.33	20.22	20.22	
10	256QAM	25	0	20.05	20.13	20.15	20.7
10	256QAM	25	12	20.04	20.10	20.18	
10	256QAM	25	25	20.11	20.09	20.06	
10	256QAM	50	0	20.03	20.07	20.14	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	24.57	24.51	24.42	25.7
5	QPSK	1	12	24.45	24.57	24.45	
5	QPSK	1	24	24.45	24.45	24.52	
5	QPSK	12	0	23.60	23.55	23.56	24.7
5	QPSK	12	7	23.59	23.58	23.63	
5	QPSK	12	13	23.56	23.64	23.60	
5	QPSK	25	0	23.50	23.59	23.50	24.7
5	16QAM	1	0	23.89	23.77	23.97	
5	16QAM	1	12	23.84	23.95	23.80	
5	16QAM	1	24	24.02	23.91	23.69	23.7
5	16QAM	12	0	22.57	22.52	22.59	
5	16QAM	12	7	22.51	22.69	22.67	
5	16QAM	12	13	22.71	22.64	22.70	23.7
5	16QAM	25	0	22.58	22.48	22.68	
5	64QAM	1	0	22.83	22.78	22.80	
5	64QAM	1	12	22.57	22.57	22.66	22.7
5	64QAM	1	24	22.87	22.75	22.61	
5	64QAM	12	0	21.58	21.49	21.62	
5	64QAM	12	7	21.54	21.63	21.65	20.7
5	64QAM	12	13	21.68	21.48	21.60	
5	64QAM	25	0	21.63	21.67	21.70	
5	256QAM	1	0	20.29	20.19	20.13	20.7
5	256QAM	1	12	20.08	20.12	20.11	
5	256QAM	1	24	20.32	20.06	20.12	
5	256QAM	12	0	20.05	19.97	20.00	20.7
5	256QAM	12	7	20.03	20.10	20.03	
5	256QAM	12	13	19.99	20.09	19.89	
5	256QAM	25	0	19.97	19.92	20.03	



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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)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	24.43	24.46	24.43	
20	QPSK	1	49	24.31	24.32	24.37	25.3
20	QPSK	1	99	24.27	24.32	24.27	
20	QPSK	50	0	23.40	23.44	23.40	
20	QPSK	50	24	23.37	23.38	23.36	24.3
20	QPSK	50	50	23.37	23.39	23.35	
20	QPSK	100	0	23.39	23.40	23.36	
20	16QAM	1	0	23.80	23.76	23.62	24.3
20	16QAM	1	49	23.65	23.61	23.60	
20	16QAM	1	99	23.56	23.59	23.58	
20	16QAM	50	0	22.42	22.42	22.37	23.3
20	16QAM	50	24	22.39	22.40	22.42	
20	16QAM	50	50	22.37	22.35	22.35	
20	16QAM	100	0	22.38	22.38	22.38	23.3
20	64QAM	1	0	22.59	22.53	22.59	
20	64QAM	1	49	22.50	22.46	22.61	
20	64QAM	1	99	22.55	22.48	22.55	22.3
20	64QAM	50	0	21.48	21.47	21.41	
20	64QAM	50	24	21.45	21.43	21.41	
20	64QAM	50	50	21.40	21.42	21.36	20.3
20	64QAM	100	0	21.43	21.38	21.42	
20	256QAM	1	0	19.91	19.84	19.91	
20	256QAM	1	49	19.84	19.73	19.91	20.3
20	256QAM	1	99	19.86	19.75	19.89	
20	256QAM	50	0	19.74	19.81	19.71	
20	256QAM	50	24	19.70	19.73	19.75	20.3
20	256QAM	50	50	19.67	19.77	19.64	
20	256QAM	100	0	19.68	19.71	19.70	
Channel				26115	26340	26615	
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	24.37	24.39	24.38	
15	QPSK	1	37	24.24	24.24	24.37	25.3
15	QPSK	1	74	24.17	24.32	24.23	
15	QPSK	36	0	23.40	23.36	23.35	
15	QPSK	36	20	23.31	23.38	23.33	24.3
15	QPSK	36	39	23.37	23.29	23.26	
15	QPSK	75	0	23.32	23.30	23.36	
15	16QAM	1	0	23.76	23.74	23.55	24.3
15	16QAM	1	37	23.63	23.58	23.51	
15	16QAM	1	74	23.46	23.53	23.56	
15	16QAM	36	0	22.42	22.40	22.37	23.3
15	16QAM	36	20	22.36	22.38	22.33	
15	16QAM	36	39	22.29	22.25	22.30	
15	16QAM	75	0	22.30	22.35	22.30	23.3
15	64QAM	1	0	22.59	22.48	22.58	
15	64QAM	1	37	22.41	22.43	22.52	
15	64QAM	1	74	22.53	22.38	22.50	22.3
15	64QAM	36	0	21.43	21.45	21.40	
15	64QAM	36	20	21.44	21.34	21.33	
15	64QAM	36	39	21.35	21.38	21.34	20.3
15	64QAM	75	0	21.38	21.30	21.40	
15	256QAM	1	0	19.88	19.74	19.84	
15	256QAM	1	37	19.75	19.63	19.82	20.3
15	256QAM	1	74	19.80	19.72	19.82	
15	256QAM	36	0	19.68	19.79	19.65	
15	256QAM	36	20	19.65	19.70	19.72	20.3



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15	256QAM	36	39	19.60	19.67	19.59	Tune-up limit (dBm)
15	256QAM	75	0	19.66	19.61	19.62	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	24.30	24.36	24.29	25.3
10	QPSK	1	25	24.25	24.24	24.33	
10	QPSK	1	49	24.23	24.24	24.25	
10	QPSK	25	0	23.33	23.35	23.35	24.3
10	QPSK	25	12	23.33	23.34	23.26	
10	QPSK	25	25	23.35	23.37	23.35	
10	QPSK	50	0	23.36	23.30	23.32	
10	16QAM	1	0	23.72	23.68	23.58	24.3
10	16QAM	1	25	23.61	23.53	23.53	
10	16QAM	1	49	23.55	23.56	23.53	
10	16QAM	25	0	22.42	22.34	22.28	23.3
10	16QAM	25	12	22.35	22.36	22.37	
10	16QAM	25	25	22.27	22.35	22.27	
10	16QAM	50	0	22.28	22.33	22.32	
10	64QAM	1	0	22.56	22.44	22.59	23.3
10	64QAM	1	25	22.48	22.45	22.56	
10	64QAM	1	49	22.46	22.44	22.53	
10	64QAM	25	0	21.39	21.40	21.32	22.3
10	64QAM	25	12	21.36	21.36	21.41	
10	64QAM	25	25	21.34	21.32	21.33	
10	64QAM	50	0	21.43	21.34	21.36	
10	256QAM	1	0	19.85	19.75	19.85	20.3
10	256QAM	1	25	19.82	19.72	19.91	
10	256QAM	1	49	19.82	19.69	19.85	
10	256QAM	25	0	19.74	19.81	19.66	20.3
10	256QAM	25	12	19.61	19.67	19.74	
10	256QAM	25	25	19.60	19.71	19.55	
10	256QAM	50	0	19.66	19.70	19.60	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	24.38	24.43	24.35	25.3
5	QPSK	1	12	24.25	24.30	24.28	
5	QPSK	1	24	24.22	24.26	24.27	
5	QPSK	12	0	23.33	23.36	23.40	24.3
5	QPSK	12	7	23.28	23.28	23.28	
5	QPSK	12	13	23.28	23.37	23.28	
5	QPSK	25	0	23.33	23.32	23.33	
5	16QAM	1	0	23.70	23.75	23.55	24.3
5	16QAM	1	12	23.55	23.59	23.60	
5	16QAM	1	24	23.50	23.51	23.53	
5	16QAM	12	0	22.40	22.35	22.29	23.3
5	16QAM	12	7	22.29	22.34	22.32	
5	16QAM	12	13	22.28	22.33	22.33	
5	16QAM	25	0	22.33	22.31	22.31	
5	64QAM	1	0	22.55	22.43	22.52	23.3
5	64QAM	1	12	22.41	22.43	22.51	
5	64QAM	1	24	22.53	22.38	22.51	
5	64QAM	12	0	21.40	21.41	21.40	22.3
5	64QAM	12	7	21.37	21.43	21.39	
5	64QAM	12	13	21.32	21.38	21.32	
5	64QAM	25	0	21.35	21.38	21.39	
5	256QAM	1	0	19.81	19.79	19.86	20.3
5	256QAM	1	12	19.81	19.66	19.81	
5	256QAM	1	24	19.76	19.72	19.88	
5	256QAM	12	0	19.74	19.78	19.65	20.3
5	256QAM	12	7	19.68	19.71	19.68	
5	256QAM	12	13	19.67	19.77	19.54	
5	256QAM	25	0	19.66	19.69	19.60	Tune-up limit
Channel				26055	26340	26675	



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Frequency (MHz)				1851.5	1880	1913.5	(dBm)
3	QPSK	1	0	24.35	24.36	24.33	25.3
3	QPSK	1	8	24.31	24.28	24.28	
3	QPSK	1	14	24.27	24.25	24.25	
3	QPSK	8	0	23.36	23.37	23.40	24.3
3	QPSK	8	4	23.30	23.36	23.32	
3	QPSK	8	7	23.28	23.33	23.33	
3	QPSK	15	0	23.35	23.37	23.28	
3	16QAM	1	0	23.76	23.74	23.61	24.3
3	16QAM	1	8	23.65	23.52	23.56	
3	16QAM	1	14	23.53	23.51	23.51	
3	16QAM	8	0	22.38	22.34	22.29	23.3
3	16QAM	8	4	22.37	22.38	22.38	
3	16QAM	8	7	22.29	22.31	22.30	
3	16QAM	15	0	22.32	22.37	22.33	
3	64QAM	1	0	22.59	22.52	22.56	23.3
3	64QAM	1	8	22.50	22.37	22.61	
3	64QAM	1	14	22.55	22.46	22.53	
3	64QAM	8	0	21.46	21.47	21.41	22.3
3	64QAM	8	4	21.37	21.34	21.31	
3	64QAM	8	7	21.36	21.36	21.29	
3	64QAM	15	0	21.42	21.35	21.42	
3	256QAM	1	0	19.87	19.77	19.90	20.3
3	256QAM	1	8	19.80	19.68	19.85	
3	256QAM	1	14	19.81	19.75	19.79	
3	256QAM	8	0	19.70	19.71	19.65	20.3
3	256QAM	8	4	19.64	19.71	19.68	
3	256QAM	8	7	19.62	19.69	19.54	
3	256QAM	15	0	19.62	19.70	19.62	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	24.32	24.38	24.32	25.3
1.4	QPSK	1	3	24.28	24.31	24.36	
1.4	QPSK	1	5	24.21	24.28	24.19	
1.4	QPSK	3	0	24.25	24.28	24.26	
1.4	QPSK	3	1	24.28	24.25	24.26	
1.4	QPSK	3	3	24.23	24.21	24.28	
1.4	QPSK	6	0	23.32	23.34	23.29	24.3
1.4	16QAM	1	0	23.80	23.75	23.61	24.3
1.4	16QAM	1	3	23.55	23.58	23.55	
1.4	16QAM	1	5	23.51	23.57	23.57	
1.4	16QAM	3	0	23.77	23.71	23.62	
1.4	16QAM	3	1	23.64	23.61	23.60	
1.4	16QAM	3	3	23.49	23.57	23.49	23.3
1.4	16QAM	6	0	22.35	22.38	22.28	
1.4	64QAM	1	0	22.57	22.44	22.53	
1.4	64QAM	1	3	22.45	22.41	22.53	
1.4	64QAM	1	5	22.55	22.41	22.45	23.3
1.4	64QAM	3	0	22.50	22.53	22.49	
1.4	64QAM	3	1	22.47	22.42	22.60	
1.4	64QAM	3	3	22.55	22.48	22.52	
1.4	64QAM	6	0	21.41	21.30	21.39	
1.4	256QAM	1	0	19.89	19.78	19.87	20.3
1.4	256QAM	1	3	19.80	19.68	19.90	
1.4	256QAM	1	5	19.84	19.65	19.85	
1.4	256QAM	3	0	19.84	19.76	19.85	
1.4	256QAM	3	1	19.80	19.68	19.91	
1.4	256QAM	3	3	19.83	19.71	19.89	20.3
1.4	256QAM	6	0	19.66	19.67	19.67	



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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)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	15.19	15.20	15.24	
20	QPSK	1	49	15.15	15.09	15.23	15.6
20	QPSK	1	99	15.15	15.19	15.22	
20	QPSK	50	0	15.16	15.15	15.22	
20	QPSK	50	24	15.05	15.13	15.20	15.6
20	QPSK	50	50	15.15	15.03	15.14	
20	QPSK	100	0	15.15	15.13	15.19	
20	16QAM	1	0	15.12	15.03	15.23	15.6
20	16QAM	1	49	15.11	15.12	15.07	
20	16QAM	1	99	15.08	15.08	15.20	
20	16QAM	50	0	15.04	15.02	15.23	15.6
20	16QAM	50	24	15.02	15.15	15.14	
20	16QAM	50	50	15.18	15.09	15.15	
20	16QAM	100	0	15.18	15.10	15.11	15.6
20	64QAM	1	0	15.13	15.15	15.20	
20	64QAM	1	49	15.07	15.15	15.20	
20	64QAM	1	99	15.14	15.20	15.11	15.6
20	64QAM	50	0	15.19	15.19	15.09	
20	64QAM	50	24	15.07	15.03	15.19	
20	64QAM	50	50	15.03	15.17	15.17	15.6
20	64QAM	100	0	15.03	15.12	15.07	
20	256QAM	1	0	15.08	15.06	15.12	
20	256QAM	1	49	15.06	15.15	15.17	15.6
20	256QAM	1	99	15.19	15.19	15.14	
20	256QAM	50	0	15.08	15.20	15.12	
20	256QAM	50	24	15.17	15.02	15.14	15.6
20	256QAM	50	50	15.03	15.16	15.07	
20	256QAM	100	0	15.10	15.18	15.08	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	15.06	15.18	15.19	
15	QPSK	1	37	15.07	14.90	15.15	15.6
15	QPSK	1	74	14.98	15.15	15.04	
15	QPSK	36	0	15.12	15.10	15.04	
15	QPSK	36	20	14.93	15.12	15.13	15.6
15	QPSK	36	39	15.02	15.02	15.06	
15	QPSK	75	0	15.14	15.11	15.01	
15	16QAM	1	0	14.92	14.92	15.13	15.6
15	16QAM	1	37	15.01	14.92	14.89	
15	16QAM	1	74	14.93	14.89	15.09	
15	16QAM	36	0	14.89	14.90	15.13	15.6
15	16QAM	36	20	14.85	14.97	15.07	
15	16QAM	36	39	15.18	14.97	15.14	
15	16QAM	75	0	14.98	15.05	15.09	15.6
15	64QAM	1	0	15.08	15.09	15.05	
15	64QAM	1	37	14.92	14.95	15.00	
15	64QAM	1	74	15.14	15.11	15.10	15.6
15	64QAM	36	0	15.04	14.99	14.94	
15	64QAM	36	20	15.00	14.86	15.12	
15	64QAM	36	39	14.89	14.98	15.13	15.6
15	64QAM	75	0	14.91	14.98	15.05	
15	256QAM	1	0	14.94	15.04	14.97	
15	256QAM	1	37	15.04	15.03	15.13	15.6
15	256QAM	1	74	15.06	15.06	14.99	
15	256QAM	36	0	15.08	15.12	15.06	
15	256QAM	36	20	15.07	14.89	15.09	15.6



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15	256QAM	36	39	15.02	15.14	15.07	
15	256QAM	75	0	15.08	15.01	14.94	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	15.14	15.09	15.19	15.6
10	QPSK	1	25	15.14	14.92	15.17	
10	QPSK	1	49	15.03	15.12	15.11	
10	QPSK	25	0	15.10	15.11	15.17	15.6
10	QPSK	25	12	14.92	15.06	15.11	
10	QPSK	25	25	15.14	15.01	15.14	
10	QPSK	50	0	15.03	14.93	15.15	
10	16QAM	1	0	15.08	14.85	15.05	
10	16QAM	1	25	15.06	14.92	14.97	15.6
10	16QAM	1	49	15.08	15.08	15.12	
10	16QAM	25	0	14.87	14.97	15.10	
10	16QAM	25	12	14.84	14.99	14.97	15.6
10	16QAM	25	25	15.10	14.89	14.96	
10	16QAM	50	0	15.15	14.98	14.95	
10	64QAM	1	0	15.02	15.09	15.08	15.6
10	64QAM	1	25	14.93	15.00	15.14	
10	64QAM	1	49	15.02	15.01	15.08	
10	64QAM	25	0	15.00	15.11	15.06	15.6
10	64QAM	25	12	14.92	14.86	15.03	
10	64QAM	25	25	14.97	15.08	15.03	
10	64QAM	50	0	15.03	15.05	15.06	
10	256QAM	1	0	15.02	14.93	15.01	15.6
10	256QAM	1	25	14.89	15.10	15.03	
10	256QAM	1	49	15.16	15.03	15.09	
10	256QAM	25	0	14.95	15.15	14.95	
10	256QAM	25	12	15.00	14.90	15.11	15.6
10	256QAM	25	25	15.03	15.09	14.89	
10	256QAM	50	0	15.01	15.04	14.97	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	15.13	15.11	15.10	15.6
5	QPSK	1	12	14.95	14.97	15.23	
5	QPSK	1	24	15.03	15.15	15.07	
5	QPSK	12	0	15.14	15.06	15.13	15.6
5	QPSK	12	7	14.88	14.99	15.14	
5	QPSK	12	13	14.99	14.98	14.98	
5	QPSK	25	0	15.05	14.95	15.19	
5	16QAM	1	0	14.97	14.96	15.12	15.6
5	16QAM	1	12	14.91	14.92	14.87	
5	16QAM	1	24	15.01	15.07	15.17	
5	16QAM	12	0	14.86	14.88	15.08	15.6
5	16QAM	12	7	15.02	15.06	15.00	
5	16QAM	12	13	15.14	15.01	14.99	
5	16QAM	25	0	14.99	15.05	15.09	
5	64QAM	1	0	15.13	15.03	15.15	15.6
5	64QAM	1	12	14.87	15.12	15.01	
5	64QAM	1	24	15.00	15.00	14.91	
5	64QAM	12	0	15.10	15.09	14.99	15.6
5	64QAM	12	7	14.99	14.83	15.06	
5	64QAM	12	13	14.84	15.16	15.15	
5	64QAM	25	0	14.94	14.95	14.95	
5	256QAM	1	0	14.99	14.93	14.94	15.6
5	256QAM	1	12	14.91	14.98	15.04	
5	256QAM	1	24	15.19	15.00	15.10	
5	256QAM	12	0	14.88	15.04	15.02	15.6
5	256QAM	12	7	15.02	14.85	15.00	
5	256QAM	12	13	15.02	15.12	14.97	
5	256QAM	25	0	15.01	15.11	14.97	



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Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	15.02	15.10	15.08	15.6
3	QPSK	1	8	14.96	14.93	15.19	
3	QPSK	1	14	14.96	15.13	15.11	
3	QPSK	8	0	15.12	15.10	15.10	15.6
3	QPSK	8	4	14.94	14.97	15.04	
3	QPSK	8	7	14.98	14.94	15.03	
3	QPSK	15	0	14.95	15.05	14.99	15.6
3	16QAM	1	0	14.98	15.03	15.21	
3	16QAM	1	8	14.93	15.12	14.87	
3	16QAM	1	14	15.08	14.93	15.19	15.6
3	16QAM	8	0	14.87	14.96	15.12	
3	16QAM	8	4	14.85	14.96	15.05	
3	16QAM	8	7	15.01	14.92	15.03	15.6
3	16QAM	15	0	15.03	14.91	14.96	
3	64QAM	1	0	15.07	15.07	15.19	
3	64QAM	1	8	15.07	15.03	15.15	15.6
3	64QAM	1	14	15.02	15.02	15.06	
3	64QAM	8	0	15.07	15.19	14.99	
3	64QAM	8	4	14.97	14.85	14.99	15.6
3	64QAM	8	7	15.03	15.01	15.15	
3	64QAM	15	0	15.03	14.95	15.06	
3	256QAM	1	0	14.90	14.93	15.10	15.6
3	256QAM	1	8	15.01	15.05	14.98	
3	256QAM	1	14	15.08	15.02	15.08	
3	256QAM	8	0	15.04	15.11	15.07	15.6
3	256QAM	8	4	15.11	14.96	15.03	
3	256QAM	8	7	14.94	15.10	15.07	
3	256QAM	15	0	15.03	15.04	15.05	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	15.18	15.16	15.13	15.6
1.4	QPSK	1	3	15.14	14.91	15.14	
1.4	QPSK	1	5	15.11	15.13	15.10	
1.4	QPSK	3	0	15.07	15.07	15.09	15.6
1.4	QPSK	3	1	14.99	14.97	15.08	
1.4	QPSK	3	3	14.99	14.88	15.11	
1.4	QPSK	6	0	15.11	15.02	15.06	15.6
1.4	16QAM	1	0	15.12	14.99	15.10	
1.4	16QAM	1	3	14.99	14.99	14.98	
1.4	16QAM	1	5	14.90	15.03	15.02	15.6
1.4	16QAM	3	0	15.02	14.98	15.17	
1.4	16QAM	3	1	14.96	15.06	14.99	
1.4	16QAM	3	3	15.14	14.95	15.14	15.6
1.4	16QAM	6	0	15.12	15.02	15.06	
1.4	64QAM	1	0	14.96	15.02	15.07	
1.4	64QAM	1	3	14.87	15.09	15.12	15.6
1.4	64QAM	1	5	15.14	15.10	15.03	
1.4	64QAM	3	0	15.15	15.01	15.01	
1.4	64QAM	3	1	14.89	15.01	15.05	15.6
1.4	64QAM	3	3	14.87	15.14	15.09	
1.4	64QAM	6	0	14.94	15.03	14.95	
1.4	256QAM	1	0	14.94	14.92	15.06	15.6
1.4	256QAM	1	3	15.02	15.13	15.14	
1.4	256QAM	1	5	15.18	15.00	15.03	
1.4	256QAM	3	0	14.89	15.15	14.92	15.6
1.4	256QAM	3	1	15.05	14.94	15.04	
1.4	256QAM	3	3	14.84	15.12	15.07	
1.4	256QAM	6	0	14.97	15.17	14.90	15.6



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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)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	24.25	24.35	24.31	
20	QPSK	1	49	24.16	24.18	24.15	25.3
20	QPSK	1	99	24.15	24.20	24.13	
20	QPSK	50	0	23.25	23.30	23.17	
20	QPSK	50	24	23.21	23.25	23.12	24.3
20	QPSK	50	50	23.23	23.20	23.09	
20	QPSK	100	0	23.26	23.28	23.13	
20	16QAM	1	0	23.60	23.64	23.69	24.3
20	16QAM	1	49	23.40	23.54	23.51	
20	16QAM	1	99	23.44	23.47	23.46	
20	16QAM	50	0	22.22	22.25	22.15	23.3
20	16QAM	50	24	22.23	22.22	22.19	
20	16QAM	50	50	22.22	22.19	22.16	
20	16QAM	100	0	22.25	22.29	22.20	23.3
20	64QAM	1	0	22.46	22.49	22.39	
20	64QAM	1	49	22.30	22.39	22.30	
20	64QAM	1	99	22.38	22.40	22.30	22.3
20	64QAM	50	0	21.34	21.31	21.22	
20	64QAM	50	24	21.31	21.29	21.19	
20	64QAM	50	50	21.28	21.24	21.23	20.3
20	64QAM	100	0	21.29	21.28	21.24	
20	256QAM	1	0	19.88	19.91	19.74	
20	256QAM	1	49	19.74	19.79	19.68	20.3
20	256QAM	1	99	19.73	19.77	19.66	
20	256QAM	50	0	19.73	19.69	19.61	
20	256QAM	50	24	19.66	19.65	19.55	20.3
20	256QAM	50	50	19.73	19.65	19.61	
20	256QAM	100	0	19.66	19.66	19.64	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	24.20	24.18	24.26	
15	QPSK	1	37	24.16	23.98	24.10	25.3
15	QPSK	1	74	24.00	24.09	23.98	
15	QPSK	36	0	23.21	23.28	23.08	
15	QPSK	36	20	23.16	23.25	23.04	24.3
15	QPSK	36	39	23.06	23.00	23.05	
15	QPSK	75	0	23.21	23.25	22.93	
15	16QAM	1	0	23.54	23.45	23.50	24.3
15	16QAM	1	37	23.20	23.39	23.51	
15	16QAM	1	74	23.25	23.29	23.39	
15	16QAM	36	0	22.19	22.22	22.04	23.3
15	16QAM	36	20	22.15	22.05	22.15	
15	16QAM	36	39	22.22	22.19	21.97	
15	16QAM	75	0	22.21	22.24	22.07	23.3
15	64QAM	1	0	22.38	22.46	22.26	
15	64QAM	1	37	22.10	22.34	22.29	
15	64QAM	1	74	22.35	22.25	22.12	22.3
15	64QAM	36	0	21.27	21.11	21.12	
15	64QAM	36	20	21.22	21.13	21.14	
15	64QAM	36	39	21.24	21.16	21.15	20.3
15	64QAM	75	0	21.15	21.18	21.05	
15	256QAM	1	0	19.68	19.85	19.71	
15	256QAM	1	37	19.68	19.68	19.65	20.3
15	256QAM	1	74	19.61	19.64	19.52	
15	256QAM	36	0	19.66	19.51	19.44	
15	256QAM	36	20	19.47	19.63	19.50	20.3



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15	256QAM	36	39	19.73	19.60	19.49	Tune-up limit (dBm)
15	256QAM	75	0	19.61	19.66	19.57	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	24.20	24.21	24.23	25.3
10	QPSK	1	25	24.08	24.04	23.97	
10	QPSK	1	49	24.14	24.03	23.99	
10	QPSK	25	0	23.14	23.12	23.13	24.3
10	QPSK	25	12	23.14	23.12	22.97	
10	QPSK	25	25	23.15	23.11	23.09	
10	QPSK	50	0	23.07	23.11	22.99	
10	16QAM	1	0	23.56	23.60	23.58	24.3
10	16QAM	1	25	23.37	23.42	23.34	
10	16QAM	1	49	23.31	23.45	23.39	
10	16QAM	25	0	22.19	22.15	21.96	23.3
10	16QAM	25	12	22.20	22.06	22.02	
10	16QAM	25	25	22.02	22.08	22.08	
10	16QAM	50	0	22.17	22.29	22.17	
10	64QAM	1	0	22.39	22.39	22.31	23.3
10	64QAM	1	25	22.30	22.24	22.26	
10	64QAM	1	49	22.28	22.32	22.12	
10	64QAM	25	0	21.22	21.11	21.15	22.3
10	64QAM	25	12	21.15	21.16	21.14	
10	64QAM	25	25	21.13	21.05	21.23	
10	64QAM	50	0	21.22	21.11	21.15	
10	256QAM	1	0	19.79	19.77	19.72	20.3
10	256QAM	1	25	19.62	19.73	19.59	
10	256QAM	1	49	19.66	19.67	19.54	
10	256QAM	25	0	19.70	19.59	19.44	20.3
10	256QAM	25	12	19.60	19.52	19.54	
10	256QAM	25	25	19.67	19.53	19.46	
10	256QAM	50	0	19.66	19.61	19.58	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	24.19	24.22	24.27	25.3
5	QPSK	1	12	23.97	24.16	23.96	
5	QPSK	1	24	24.15	24.14	24.01	
5	QPSK	12	0	23.09	23.18	22.99	24.3
5	QPSK	12	7	23.19	23.17	22.95	
5	QPSK	12	13	23.08	23.11	23.05	
5	QPSK	25	0	23.25	23.21	22.96	
5	16QAM	1	0	23.47	23.50	23.63	24.3
5	16QAM	1	12	23.26	23.46	23.46	
5	16QAM	1	24	23.29	23.38	23.33	
5	16QAM	12	0	22.03	22.22	21.95	23.3
5	16QAM	12	7	22.17	22.20	22.11	
5	16QAM	12	13	22.03	22.16	22.02	
5	16QAM	25	0	22.06	22.17	22.11	
5	64QAM	1	0	22.33	22.29	22.26	23.3
5	64QAM	1	12	22.25	22.33	22.27	
5	64QAM	1	24	22.29	22.23	22.22	
5	64QAM	12	0	21.22	21.21	21.12	22.3
5	64QAM	12	7	21.30	21.24	21.16	
5	64QAM	12	13	21.22	21.09	21.13	
5	64QAM	25	0	21.27	21.15	21.20	
5	256QAM	1	0	19.70	19.87	19.61	20.3
5	256QAM	1	12	19.64	19.78	19.48	
5	256QAM	1	24	19.64	19.74	19.51	
5	256QAM	12	0	19.60	19.67	19.46	20.3
5	256QAM	12	7	19.64	19.57	19.40	
5	256QAM	12	13	19.62	19.55	19.50	
5	256QAM	25	0	19.51	19.58	19.57	



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Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	24.13	24.19	24.22	25.3
3	QPSK	1	8	24.14	24.16	23.96	
3	QPSK	1	14	24.11	24.14	23.94	
3	QPSK	8	0	23.25	23.20	23.11	24.3
3	QPSK	8	4	23.12	23.21	23.03	
3	QPSK	8	7	23.18	23.10	23.09	
3	QPSK	15	0	23.09	23.20	22.99	24.3
3	16QAM	1	0	23.51	23.61	23.67	
3	16QAM	1	8	23.36	23.53	23.48	
3	16QAM	1	14	23.40	23.40	23.27	23.3
3	16QAM	8	0	22.02	22.22	22.12	
3	16QAM	8	4	22.16	22.17	22.15	
3	16QAM	8	7	22.12	22.06	22.12	23.3
3	16QAM	15	0	22.05	22.09	22.13	
3	64QAM	1	0	22.39	22.35	22.27	
3	64QAM	1	8	22.22	22.34	22.25	22.3
3	64QAM	1	14	22.34	22.34	22.23	
3	64QAM	8	0	21.30	21.29	21.21	
3	64QAM	8	4	21.21	21.21	21.13	20.3
3	64QAM	8	7	21.13	21.24	21.08	
3	64QAM	15	0	21.28	21.24	21.19	
3	256QAM	1	0	19.76	19.90	19.65	20.3
3	256QAM	1	8	19.61	19.75	19.59	
3	256QAM	1	14	19.59	19.75	19.62	
3	256QAM	8	0	19.71	19.67	19.41	20.3
3	256QAM	8	4	19.53	19.62	19.54	
3	256QAM	8	7	19.57	19.53	19.51	
3	256QAM	15	0	19.51	19.51	19.44	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	24.18	24.15	24.29	25.3
1.4	QPSK	1	3	24.02	24.16	24.09	
1.4	QPSK	1	5	24.02	24.05	23.98	
1.4	QPSK	3	0	24.16	24.20	24.25	24.3
1.4	QPSK	3	1	24.05	24.02	24.06	
1.4	QPSK	3	3	24.08	24.05	24.09	
1.4	QPSK	6	0	23.14	23.11	23.09	24.3
1.4	16QAM	1	0	23.18	23.07	23.04	
1.4	16QAM	1	3	23.05	23.19	22.99	
1.4	16QAM	1	5	23.10	23.25	23.04	23.3
1.4	16QAM	3	0	23.46	23.45	23.54	
1.4	16QAM	3	1	23.36	23.54	23.43	
1.4	16QAM	3	3	23.30	23.35	23.34	23.3
1.4	16QAM	6	0	22.09	22.24	21.95	
1.4	64QAM	1	0	22.18	22.05	22.17	
1.4	64QAM	1	3	22.10	22.19	22.09	22.3
1.4	64QAM	1	5	22.19	22.29	22.02	
1.4	64QAM	3	0	22.46	22.48	22.28	
1.4	64QAM	3	1	22.15	22.36	22.18	20.3
1.4	64QAM	3	3	22.19	22.21	22.22	
1.4	64QAM	6	0	21.32	21.13	21.08	
1.4	256QAM	1	0	19.88	19.84	19.72	20.3
1.4	256QAM	1	3	19.74	19.79	19.59	
1.4	256QAM	1	5	19.55	19.67	19.47	
1.4	256QAM	3	0	19.58	19.51	19.46	20.3
1.4	256QAM	3	1	19.61	19.57	19.37	
1.4	256QAM	3	3	19.58	19.59	19.43	
1.4	256QAM	6	0	19.59	19.62	19.52	



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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)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	23.98	23.90	23.78	
20	QPSK	1	49	23.83	23.77	23.70	24.9
20	QPSK	1	99	23.80	23.76	23.57	
20	QPSK	50	0	22.96	22.87	22.68	
20	QPSK	50	24	22.91	22.82	22.65	24
20	QPSK	50	50	22.85	22.79	22.63	
20	QPSK	100	0	22.90	22.83	22.67	
20	16QAM	1	0	23.26	23.16	23.03	24
20	16QAM	1	49	23.13	23.15	22.89	
20	16QAM	1	99	23.09	22.98	22.85	
20	16QAM	50	0	21.90	22.17	21.66	23
20	16QAM	50	24	21.87	22.16	21.65	
20	16QAM	50	50	21.84	22.13	21.67	
20	16QAM	100	0	21.88	21.81	21.71	23
20	64QAM	1	0	22.20	22.39	22.00	
20	64QAM	1	49	21.91	22.49	21.92	
20	64QAM	1	99	21.91	22.15	21.84	22
20	64QAM	50	0	20.94	21.11	20.75	
20	64QAM	50	24	20.95	20.82	20.71	
20	64QAM	50	50	20.89	20.86	20.68	20
20	64QAM	100	0	20.94	21.14	20.69	
20	256QAM	1	0	19.65	19.83	19.36	
20	256QAM	1	49	19.28	19.87	19.36	20
20	256QAM	1	99	19.34	19.59	19.28	
20	256QAM	50	0	19.31	19.47	19.17	
20	256QAM	50	24	19.32	19.19	19.09	20
20	256QAM	50	50	19.28	19.22	19.11	
20	256QAM	100	0	19.32	19.56	19.05	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	23.97	23.84	23.71	
15	QPSK	1	37	23.78	23.65	23.68	24.9
15	QPSK	1	74	23.64	23.66	23.44	
15	QPSK	36	0	22.94	22.75	22.48	
15	QPSK	36	20	22.80	22.81	22.54	24
15	QPSK	36	39	22.65	22.76	22.63	
15	QPSK	75	0	22.89	22.67	22.50	
15	16QAM	1	0	23.17	23.03	22.96	24
15	16QAM	1	37	23.12	23.03	22.87	
15	16QAM	1	74	23.02	22.91	22.70	
15	16QAM	36	0	21.82	22.04	21.59	23
15	16QAM	36	20	21.70	22.00	21.55	
15	16QAM	36	39	21.68	22.02	21.65	
15	16QAM	75	0	21.88	21.64	21.57	23
15	64QAM	1	0	22.18	22.24	21.90	
15	64QAM	1	37	21.72	22.39	21.79	
15	64QAM	1	74	21.73	22.07	21.82	22
15	64QAM	36	0	20.87	20.99	20.67	
15	64QAM	36	20	20.91	20.70	20.62	
15	64QAM	36	39	20.84	20.76	20.50	20
15	64QAM	75	0	20.83	21.13	20.65	
15	256QAM	1	0	19.65	19.80	19.36	
15	256QAM	1	37	19.12	19.68	19.25	20
15	256QAM	1	74	19.28	19.52	19.24	
15	256QAM	36	0	19.22	19.32	19.11	
15	256QAM	36	20	19.24	19.00	18.94	20



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15	256QAM	36	39	19.25	19.19	18.91	
15	256QAM	75	0	19.26	19.45	19.03	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	23.81	23.74	23.72	24.9
10	QPSK	1	25	23.76	23.67	23.53	
10	QPSK	1	49	23.66	23.67	23.47	
10	QPSK	25	0	22.85	22.70	22.55	24
10	QPSK	25	12	22.90	22.76	22.65	
10	QPSK	25	25	22.73	22.64	22.60	
10	QPSK	50	0	22.75	22.69	22.53	
10	16QAM	1	0	23.11	22.96	22.95	24
10	16QAM	1	25	23.05	23.05	22.81	
10	16QAM	1	49	23.08	22.78	22.78	
10	16QAM	25	0	21.76	21.97	21.53	23
10	16QAM	25	12	21.87	22.09	21.50	
10	16QAM	25	25	21.77	21.98	21.49	
10	16QAM	50	0	21.76	21.66	21.53	
10	64QAM	1	0	22.08	22.30	21.83	23
10	64QAM	1	25	21.75	22.43	21.75	
10	64QAM	1	49	21.89	22.03	21.78	
10	64QAM	25	0	20.92	21.10	20.65	22
10	64QAM	25	12	20.91	20.72	20.68	
10	64QAM	25	25	20.84	20.76	20.67	
10	64QAM	50	0	20.90	21.04	20.56	
10	256QAM	1	0	19.57	19.65	19.32	20
10	256QAM	1	25	19.28	19.69	19.28	
10	256QAM	1	49	19.19	19.40	19.13	
10	256QAM	25	0	19.28	19.45	19.11	20
10	256QAM	25	12	19.16	19.19	19.04	
10	256QAM	25	25	19.23	19.08	18.91	
10	256QAM	50	0	19.24	19.39	19.02	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	23.79	23.73	23.76	24.9
5	QPSK	1	12	23.68	23.70	23.63	
5	QPSK	1	24	23.69	23.56	23.48	
5	QPSK	12	0	22.80	22.87	22.52	24
5	QPSK	12	7	22.88	22.76	22.58	
5	QPSK	12	13	22.75	22.60	22.54	
5	QPSK	25	0	22.85	22.83	22.62	
5	16QAM	1	0	23.19	23.14	22.98	24
5	16QAM	1	12	23.12	23.00	22.88	
5	16QAM	1	24	23.04	22.85	22.71	
5	16QAM	12	0	21.88	22.04	21.55	23
5	16QAM	12	7	21.79	22.01	21.51	
5	16QAM	12	13	21.82	22.10	21.53	
5	16QAM	25	0	21.76	21.65	21.71	
5	64QAM	1	0	22.12	22.38	21.80	23
5	64QAM	1	12	21.83	22.43	21.75	
5	64QAM	1	24	21.74	22.04	21.66	
5	64QAM	12	0	20.94	21.10	20.58	22
5	64QAM	12	7	20.95	20.74	20.61	
5	64QAM	12	13	20.80	20.77	20.63	
5	64QAM	25	0	20.91	21.00	20.66	
5	256QAM	1	0	19.56	19.64	19.36	20
5	256QAM	1	12	19.22	19.78	19.24	
5	256QAM	1	24	19.33	19.50	19.16	
5	256QAM	12	0	19.14	19.33	19.00	20
5	256QAM	12	7	19.16	18.99	19.00	
5	256QAM	12	13	19.20	19.08	19.11	
5	256QAM	25	0	19.21	19.53	18.87	



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Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	23.91	23.77	23.66	24.9
3	QPSK	1	8	23.71	23.69	23.62	
3	QPSK	1	14	23.63	23.75	23.48	
3	QPSK	8	0	22.83	22.75	22.52	24
3	QPSK	8	4	22.83	22.81	22.52	
3	QPSK	8	7	22.70	22.64	22.47	
3	QPSK	15	0	22.89	22.69	22.54	
3	16QAM	1	0	23.09	23.14	22.96	24
3	16QAM	1	8	23.07	23.04	22.72	
3	16QAM	1	14	23.04	22.84	22.77	
3	16QAM	8	0	21.82	22.11	21.54	23
3	16QAM	8	4	21.86	22.05	21.46	
3	16QAM	8	7	21.82	22.12	21.51	
3	16QAM	15	0	21.83	21.73	21.63	
3	64QAM	1	0	22.16	22.28	21.92	23
3	64QAM	1	8	21.72	22.29	21.92	
3	64QAM	1	14	21.80	22.13	21.67	
3	64QAM	8	0	20.87	20.97	20.68	22
3	64QAM	8	4	20.80	20.76	20.66	
3	64QAM	8	7	20.87	20.73	20.49	
3	64QAM	15	0	20.74	21.13	20.54	
3	256QAM	1	0	19.51	19.70	19.20	20
3	256QAM	1	8	19.17	19.82	19.31	
3	256QAM	1	14	19.25	19.40	19.19	
3	256QAM	8	0	19.15	19.47	19.00	20
3	256QAM	8	4	19.28	19.18	18.96	
3	256QAM	8	7	19.21	19.10	19.10	
3	256QAM	15	0	19.19	19.36	18.95	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	23.88	23.76	23.65	24.9
1.4	QPSK	1	3	23.63	23.59	23.55	
1.4	QPSK	1	5	23.74	23.68	23.49	
1.4	QPSK	3	0	23.79	23.86	23.74	
1.4	QPSK	3	1	23.70	23.70	23.56	
1.4	QPSK	3	3	23.80	23.61	23.50	
1.4	QPSK	6	0	22.88	22.87	22.62	24
1.4	16QAM	1	0	22.79	22.78	22.64	24
1.4	16QAM	1	3	22.67	22.71	22.57	
1.4	16QAM	1	5	22.76	22.70	22.61	
1.4	16QAM	3	0	23.20	22.96	23.02	
1.4	16QAM	3	1	23.02	23.00	22.70	
1.4	16QAM	3	3	22.89	22.92	22.77	23
1.4	16QAM	6	0	21.85	22.11	21.60	
1.4	64QAM	1	0	21.72	21.99	21.45	23
1.4	64QAM	1	3	21.71	22.04	21.53	
1.4	64QAM	1	5	21.69	21.78	21.68	
1.4	64QAM	3	0	22.01	22.30	21.85	
1.4	64QAM	3	1	21.91	22.49	21.88	
1.4	64QAM	3	3	21.77	21.95	21.76	
1.4	64QAM	6	0	20.78	20.92	20.66	22
1.4	256QAM	1	0	19.50	19.63	19.35	20
1.4	256QAM	1	3	19.08	19.69	19.33	
1.4	256QAM	1	5	19.23	19.49	19.24	
1.4	256QAM	3	0	19.26	19.42	19.07	
1.4	256QAM	3	1	19.29	19.08	19.05	
1.4	256QAM	3	3	19.27	19.15	18.94	
1.4	256QAM	6	0	19.23	19.52	19.04	20



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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)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	17.24	17.22	17.20	
20	QPSK	1	49	17.09	17.17	17.18	17.4
20	QPSK	1	99	17.07	17.09	17.09	
20	QPSK	50	0	17.23	17.17	17.19	
20	QPSK	50	24	17.19	17.11	17.19	17.4
20	QPSK	50	50	17.13	17.16	17.16	
20	QPSK	100	0	17.20	17.18	17.19	
20	16QAM	1	0	17.20	17.20	17.11	17.4
20	16QAM	1	49	17.10	17.07	17.08	
20	16QAM	1	99	17.09	16.99	17.04	
20	16QAM	50	0	17.19	17.23	17.23	17.4
20	16QAM	50	24	17.21	17.22	17.23	
20	16QAM	50	50	17.17	17.17	17.21	
20	16QAM	100	0	17.17	17.20	17.22	17.4
20	64QAM	1	0	17.17	17.05	17.04	
20	64QAM	1	49	16.89	16.87	16.98	
20	64QAM	1	99	17.02	16.98	17.03	17.4
20	64QAM	50	0	17.20	17.20	17.19	
20	64QAM	50	24	17.20	17.22	17.19	
20	64QAM	50	50	17.18	17.19	17.21	17.4
20	64QAM	100	0	17.23	17.21	17.20	
20	256QAM	1	0	17.10	16.89	16.93	
20	256QAM	1	49	16.84	16.86	16.88	17.4
20	256QAM	1	99	16.89	16.88	17.01	
20	256QAM	50	0	17.07	17.17	17.08	
20	256QAM	50	24	17.11	17.20	17.14	17.4
20	256QAM	50	50	17.11	17.06	17.20	
20	256QAM	100	0	17.19	17.10	17.13	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	17.06	17.16	17.19	
15	QPSK	1	37	16.94	17.01	17.00	17.4
15	QPSK	1	74	16.89	17.07	16.97	
15	QPSK	36	0	17.08	17.02	17.05	
15	QPSK	36	20	17.15	17.04	17.06	17.4
15	QPSK	36	39	17.10	17.05	16.98	
15	QPSK	75	0	17.11	17.18	17.00	
15	16QAM	1	0	17.04	17.02	17.03	17.4
15	16QAM	1	37	16.91	17.04	16.91	
15	16QAM	1	74	17.07	16.96	17.00	
15	16QAM	36	0	17.13	17.10	17.23	17.4
15	16QAM	36	20	17.15	17.10	17.15	
15	16QAM	36	39	17.15	17.01	17.21	
15	16QAM	75	0	17.14	17.14	17.18	17.4
15	64QAM	1	0	17.08	16.93	16.95	
15	64QAM	1	37	16.77	16.67	16.79	
15	64QAM	1	74	17.01	16.88	16.96	17.4
15	64QAM	36	0	17.12	17.17	17.12	
15	64QAM	36	20	17.18	17.21	17.03	
15	64QAM	36	39	17.01	17.01	17.12	17.4
15	64QAM	75	0	17.06	17.09	17.14	
15	256QAM	1	0	16.97	16.78	16.82	
15	256QAM	1	37	16.74	16.76	16.68	17.4
15	256QAM	1	74	16.83	16.81	16.95	
15	256QAM	36	0	17.03	17.03	17.01	
15	256QAM	36	20	17.00	17.18	16.96	17.4



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15	256QAM	36	39	17.08	16.89	17.08	
15	256QAM	75	0	17.09	16.99	16.95	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	17.13	17.12	17.05	17.4
10	QPSK	1	25	16.90	17.12	17.05	
10	QPSK	1	49	16.97	16.93	16.94	
10	QPSK	25	0	17.11	17.00	17.19	17.4
10	QPSK	25	12	17.06	17.06	17.07	
10	QPSK	25	25	17.08	17.01	17.10	
10	QPSK	50	0	17.06	17.16	17.10	
10	16QAM	1	0	17.00	17.07	17.06	17.4
10	16QAM	1	25	17.10	17.03	17.04	
10	16QAM	1	49	17.03	16.84	17.00	
10	16QAM	25	0	17.15	17.07	17.11	17.4
10	16QAM	25	12	17.15	17.22	17.07	
10	16QAM	25	25	17.01	17.01	17.05	
10	16QAM	50	0	17.17	17.05	17.14	
10	64QAM	1	0	17.02	16.91	16.98	17.4
10	64QAM	1	25	16.89	16.80	16.89	
10	64QAM	1	49	16.87	16.86	16.83	
10	64QAM	25	0	17.04	17.10	17.16	17.4
10	64QAM	25	12	17.13	17.03	17.07	
10	64QAM	25	25	17.12	17.05	17.19	
10	64QAM	50	0	17.04	17.12	17.17	
10	256QAM	1	0	17.02	16.76	16.88	17.4
10	256QAM	1	25	16.84	16.83	16.86	
10	256QAM	1	49	16.77	16.77	16.88	
10	256QAM	25	0	16.92	17.07	17.05	17.4
10	256QAM	25	12	16.96	17.12	17.13	
10	256QAM	25	25	17.07	17.03	17.17	
10	256QAM	50	0	16.99	17.05	17.01	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	17.06	17.20	17.00	17.4
5	QPSK	1	12	17.09	17.09	17.06	
5	QPSK	1	24	16.90	17.08	17.05	
5	QPSK	12	0	17.11	17.04	17.16	17.4
5	QPSK	12	7	17.08	17.04	17.17	
5	QPSK	12	13	17.09	17.16	17.14	
5	QPSK	25	0	17.11	17.13	17.00	
5	16QAM	1	0	17.04	17.08	16.93	17.4
5	16QAM	1	12	16.95	16.95	17.00	
5	16QAM	1	24	16.96	16.92	16.86	
5	16QAM	12	0	17.19	17.06	17.17	17.4
5	16QAM	12	7	17.15	17.09	17.07	
5	16QAM	12	13	17.02	17.02	17.12	
5	16QAM	25	0	17.15	17.10	17.05	
5	64QAM	1	0	17.17	16.89	16.94	17.4
5	64QAM	1	12	16.84	16.83	16.92	
5	64QAM	1	24	16.94	16.98	17.00	
5	64QAM	12	0	17.08	17.17	16.99	17.4
5	64QAM	12	7	17.19	17.20	17.15	
5	64QAM	12	13	17.12	17.17	17.17	
5	64QAM	25	0	17.10	17.02	17.20	
5	256QAM	1	0	16.90	16.75	16.74	17.4
5	256QAM	1	12	16.70	16.69	16.69	
5	256QAM	1	24	16.89	16.82	17.01	
5	256QAM	12	0	16.95	17.02	17.02	17.4
5	256QAM	12	7	16.97	17.04	17.00	
5	256QAM	12	13	16.97	17.02	17.10	
5	256QAM	25	0	17.11	16.97	17.11	



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Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	17.09	17.10	17.07	17.4
3	QPSK	1	8	17.06	17.14	16.99	
3	QPSK	1	14	16.87	16.90	17.03	
3	QPSK	8	0	17.15	17.11	17.05	17.4
3	QPSK	8	4	17.11	17.10	17.16	
3	QPSK	8	7	17.07	16.98	17.08	
3	QPSK	15	0	17.20	17.09	16.99	
3	16QAM	1	0	17.09	17.16	17.05	17.4
3	16QAM	1	8	17.06	16.88	17.01	
3	16QAM	1	14	17.09	16.89	17.02	
3	16QAM	8	0	17.10	17.08	17.22	17.4
3	16QAM	8	4	17.11	17.16	17.11	
3	16QAM	8	7	17.01	17.07	17.16	
3	16QAM	15	0	17.12	17.16	17.13	
3	64QAM	1	0	17.01	17.00	16.86	17.4
3	64QAM	1	8	16.70	16.70	16.78	
3	64QAM	1	14	16.86	16.80	16.98	
3	64QAM	8	0	17.03	17.18	17.00	17.4
3	64QAM	8	4	17.15	17.18	17.15	
3	64QAM	8	7	17.11	17.07	17.13	
3	64QAM	15	0	17.12	17.06	17.05	
3	256QAM	1	0	17.08	16.88	16.82	17.4
3	256QAM	1	8	16.81	16.85	16.72	
3	256QAM	1	14	16.70	16.68	17.01	
3	256QAM	8	0	16.97	17.11	16.96	17.4
3	256QAM	8	4	16.96	17.03	17.01	
3	256QAM	8	7	17.09	17.02	17.19	
3	256QAM	15	0	17.11	17.04	16.99	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	17.20	17.06	17.19	17.4
1.4	QPSK	1	3	16.99	17.13	17.16	
1.4	QPSK	1	5	17.05	16.89	17.06	
1.4	QPSK	3	0	17.16	17.09	17.06	
1.4	QPSK	3	1	17.17	17.03	17.16	
1.4	QPSK	3	3	17.06	17.02	17.03	
1.4	QPSK	6	0	17.19	17.14	17.16	
1.4	16QAM	1	0	17.06	17.00	17.11	17.4
1.4	16QAM	1	3	17.03	17.01	16.99	
1.4	16QAM	1	5	16.98	16.94	17.01	
1.4	16QAM	3	0	17.15	17.03	17.13	
1.4	16QAM	3	1	17.04	17.17	17.22	
1.4	16QAM	3	3	17.00	17.06	17.16	
1.4	16QAM	6	0	17.07	17.17	17.13	17.4
1.4	64QAM	1	0	17.13	16.86	16.87	17.4
1.4	64QAM	1	3	16.86	16.72	16.93	
1.4	64QAM	1	5	16.91	16.94	16.86	
1.4	64QAM	3	0	17.00	17.00	17.04	
1.4	64QAM	3	1	17.07	17.12	17.06	
1.4	64QAM	3	3	17.11	17.16	17.14	
1.4	64QAM	6	0	17.10	17.16	17.11	17.4
1.4	256QAM	1	0	16.98	16.76	16.79	17.4
1.4	256QAM	1	3	16.68	16.72	16.86	
1.4	256QAM	1	5	16.88	16.76	17.01	
1.4	256QAM	3	0	16.88	17.04	16.92	
1.4	256QAM	3	1	16.97	17.17	17.10	
1.4	256QAM	3	3	16.99	17.03	17.17	
1.4	256QAM	6	0	17.00	17.01	17.06	17.4



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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)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	15.59	15.62	15.63	
20	QPSK	1	49	15.45	15.42	15.48	16.1
20	QPSK	1	99	15.47	15.47	15.37	
20	QPSK	50	0	15.53	15.51	15.61	
20	QPSK	50	24	15.42	15.50	15.43	16.1
20	QPSK	50	50	15.51	15.42	15.49	
20	QPSK	100	0	15.45	15.46	15.53	
20	16QAM	1	0	15.57	15.44	15.45	16.1
20	16QAM	1	49	15.39	15.28	15.37	
20	16QAM	1	99	15.37	15.31	15.35	
20	16QAM	50	0	15.60	15.54	15.57	16.1
20	16QAM	50	24	15.59	15.55	15.49	
20	16QAM	50	50	15.57	15.46	15.48	
20	16QAM	100	0	15.58	15.45	15.50	16.1
20	64QAM	1	0	15.44	15.34	15.23	
20	64QAM	1	49	15.33	15.22	15.25	
20	64QAM	1	99	15.26	15.30	15.22	16.1
20	64QAM	50	0	15.56	15.59	15.57	
20	64QAM	50	24	15.54	15.50	15.53	
20	64QAM	50	50	15.58	15.43	15.55	16.1
20	64QAM	100	0	15.54	15.47	15.51	
20	256QAM	1	0	15.41	15.38	15.36	
20	256QAM	1	49	15.31	15.41	15.28	16.1
20	256QAM	1	99	15.28	15.34	15.31	
20	256QAM	50	0	15.25	15.18	15.02	
20	256QAM	50	24	15.28	15.22	15.13	16.1
20	256QAM	50	50	15.29	15.18	15.19	
20	256QAM	100	0	15.16	15.17	15.19	
Channel				26115	26340	26615	
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	15.53	15.56	15.51	
15	QPSK	1	37	15.35	15.25	15.44	16.1
15	QPSK	1	74	15.22	15.37	15.33	
15	QPSK	36	0	15.37	15.54	15.54	
15	QPSK	36	20	15.27	15.27	15.43	16.1
15	QPSK	36	39	15.40	15.34	15.30	
15	QPSK	75	0	15.34	15.45	15.48	
15	16QAM	1	0	15.50	15.27	15.31	16.1
15	16QAM	1	37	15.36	15.21	15.15	
15	16QAM	1	74	15.24	15.14	15.15	
15	16QAM	36	0	15.52	15.41	15.50	16.1
15	16QAM	36	20	15.47	15.47	15.34	
15	16QAM	36	39	15.51	15.34	15.43	
15	16QAM	75	0	15.50	15.38	15.30	16.1
15	64QAM	1	0	15.44	15.18	15.26	
15	64QAM	1	37	15.20	15.18	15.20	
15	64QAM	1	74	15.18	15.29	15.25	16.1
15	64QAM	36	0	15.36	15.59	15.44	
15	64QAM	36	20	15.48	15.33	15.44	
15	64QAM	36	39	15.43	15.40	15.37	16.1
15	64QAM	75	0	15.43	15.45	15.34	
15	256QAM	1	0	15.27	15.22	15.16	
15	256QAM	1	37	15.23	15.33	15.24	16.1
15	256QAM	1	74	15.18	15.33	15.21	
15	256QAM	36	0	15.13	15.06	14.87	
15	256QAM	36	20	15.18	15.01	15.07	16.1



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15	256QAM	36	39	15.29	15.15	14.93	
15	256QAM	75	0	14.99	15.09	15.09	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	15.54	15.42	15.45	16.1
10	QPSK	1	25	15.43	15.31	15.25	
10	QPSK	1	49	15.29	15.45	15.35	
10	QPSK	25	0	15.25	15.47	15.42	16.1
10	QPSK	25	12	15.32	15.39	15.37	
10	QPSK	25	25	15.39	15.27	15.36	
10	QPSK	50	0	15.31	15.35	15.41	
10	16QAM	1	0	15.54	15.27	15.36	16.1
10	16QAM	1	25	15.33	15.07	15.15	
10	16QAM	1	49	15.31	15.23	15.32	
10	16QAM	25	0	15.50	15.40	15.50	16.1
10	16QAM	25	12	15.54	15.42	15.42	
10	16QAM	25	25	15.40	15.31	15.35	
10	16QAM	50	0	15.39	15.36	15.47	
10	64QAM	1	0	15.43	15.24	15.10	16.1
10	64QAM	1	25	15.21	15.19	15.08	
10	64QAM	1	49	15.06	15.22	15.15	
10	64QAM	25	0	15.49	15.51	15.46	16.1
10	64QAM	25	12	15.39	15.38	15.50	
10	64QAM	25	25	15.39	15.34	15.48	
10	64QAM	50	0	15.47	15.45	15.31	
10	256QAM	1	0	15.40	15.22	15.32	16.1
10	256QAM	1	25	15.25	15.21	15.26	
10	256QAM	1	49	15.12	15.32	15.10	
10	256QAM	25	0	15.24	15.04	15.01	16.1
10	256QAM	25	12	15.07	15.08	15.14	
10	256QAM	25	25	15.19	15.10	15.01	
10	256QAM	50	0	15.17	14.98	15.17	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	15.53	15.52	15.51	16.1
5	QPSK	1	12	15.34	15.29	15.30	
5	QPSK	1	24	15.18	15.18	15.32	
5	QPSK	12	0	15.46	15.44	15.44	16.1
5	QPSK	12	7	15.43	15.44	15.36	
5	QPSK	12	13	15.50	15.23	15.47	
5	QPSK	25	0	15.33	15.43	15.52	
5	16QAM	1	0	15.53	15.40	15.23	16.1
5	16QAM	1	12	15.31	15.07	15.15	
5	16QAM	1	24	15.37	15.23	15.23	
5	16QAM	12	0	15.47	15.39	15.46	16.1
5	16QAM	12	7	15.57	15.32	15.46	
5	16QAM	12	13	15.47	15.40	15.28	
5	16QAM	25	0	15.37	15.33	15.36	
5	64QAM	1	0	15.23	15.12	15.13	16.1
5	64QAM	1	12	15.29	15.19	15.14	
5	64QAM	1	24	15.04	15.11	15.10	
5	64QAM	12	0	15.45	15.53	15.49	16.1
5	64QAM	12	7	15.49	15.43	15.40	
5	64QAM	12	13	15.50	15.45	15.37	
5	64QAM	25	0	15.43	15.43	15.34	
5	256QAM	1	0	15.44	15.43	15.20	16.1
5	256QAM	1	12	15.18	15.33	15.21	
5	256QAM	1	24	15.10	15.30	15.02	
5	256QAM	12	0	15.16	15.00	14.91	16.1
5	256QAM	12	7	15.14	15.06	15.08	
5	256QAM	12	13	15.16	14.98	14.94	
5	256QAM	25	0	14.98	15.12	15.10	



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Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	15.51	15.48	15.51	16.1
3	QPSK	1	8	15.29	15.34	15.37	
3	QPSK	1	14	15.39	15.42	15.38	
3	QPSK	8	0	15.29	15.33	15.57	16.1
3	QPSK	8	4	15.32	15.34	15.31	
3	QPSK	8	7	15.34	15.29	15.26	
3	QPSK	15	0	15.49	15.43	15.28	
3	16QAM	1	0	15.51	15.32	15.32	16.1
3	16QAM	1	8	15.27	15.19	15.17	
3	16QAM	1	14	15.32	15.30	15.14	
3	16QAM	8	0	15.38	15.41	15.57	16.1
3	16QAM	8	4	15.44	15.44	15.35	
3	16QAM	8	7	15.33	15.33	15.39	
3	16QAM	15	0	15.51	15.51	15.41	
3	64QAM	1	0	15.33	15.12	15.07	16.1
3	64QAM	1	8	15.30	14.98	15.19	
3	64QAM	1	14	15.09	15.07	15.17	
3	64QAM	8	0	15.44	15.53	15.51	16.1
3	64QAM	8	4	15.53	15.55	15.32	
3	64QAM	8	7	15.41	15.26	15.31	
3	64QAM	15	0	15.59	15.31	15.38	
3	256QAM	1	0	15.42	15.37	15.27	16.1
3	256QAM	1	8	15.16	15.28	15.17	
3	256QAM	1	14	15.25	15.30	15.08	
3	256QAM	8	0	15.08	15.00	15.03	16.1
3	256QAM	8	4	15.16	15.19	14.98	
3	256QAM	8	7	15.17	15.13	15.11	
3	256QAM	15	0	15.08	15.07	15.05	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	15.45	15.60	15.49	16.1
1.4	QPSK	1	3	15.34	15.39	15.43	
1.4	QPSK	1	5	15.34	15.22	15.33	
1.4	QPSK	3	0	15.31	15.50	15.43	
1.4	QPSK	3	1	15.34	15.45	15.30	
1.4	QPSK	3	3	15.34	15.42	15.44	
1.4	QPSK	6	0	15.38	15.40	15.50	16.1
1.4	16QAM	1	0	15.50	15.39	15.31	16.1
1.4	16QAM	1	3	15.32	15.25	15.09	
1.4	16QAM	1	5	15.45	15.25	15.31	
1.4	16QAM	3	0	15.48	15.46	15.29	
1.4	16QAM	3	1	15.39	15.30	15.31	
1.4	16QAM	3	3	15.39	15.31	15.43	
1.4	16QAM	6	0	15.45	15.42	15.50	16.1
1.4	64QAM	1	0	15.35	15.28	15.11	16.1
1.4	64QAM	1	3	15.16	15.05	15.18	
1.4	64QAM	1	5	15.19	15.11	15.13	
1.4	64QAM	3	0	15.43	15.54	15.55	
1.4	64QAM	3	1	15.35	15.49	15.46	
1.4	64QAM	3	3	15.42	15.22	15.43	
1.4	64QAM	6	0	15.35	15.41	15.30	16.1
1.4	256QAM	1	0	15.34	15.22	15.20	16.1
1.4	256QAM	1	3	15.18	15.36	15.19	
1.4	256QAM	1	5	15.14	15.38	15.22	
1.4	256QAM	3	0	15.14	15.09	14.87	
1.4	256QAM	3	1	15.29	15.08	15.09	
1.4	256QAM	3	3	15.22	15.13	15.12	
1.4	256QAM	6	0	14.99	15.05	15.02	16.1



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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)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	19.46	19.34	19.35	
20	QPSK	1	49	19.24	19.25	19.31	20.1
20	QPSK	1	99	19.29	19.20	19.28	
20	QPSK	50	0	19.45	19.39	19.34	
20	QPSK	50	24	19.30	19.38	19.28	20.1
20	QPSK	50	50	19.26	19.32	19.27	
20	QPSK	100	0	19.29	19.20	19.17	
20	16QAM	1	0	19.27	19.39	19.28	20.1
20	16QAM	1	49	19.22	19.28	19.23	
20	16QAM	1	99	19.15	19.29	19.22	
20	16QAM	50	0	19.29	19.31	19.26	20.1
20	16QAM	50	24	19.21	19.37	19.22	
20	16QAM	50	50	19.23	19.32	19.23	
20	16QAM	100	0	19.26	19.38	19.31	20.1
20	64QAM	1	0	19.45	19.40	19.34	
20	64QAM	1	49	19.37	19.39	19.40	
20	64QAM	1	99	19.39	19.30	19.23	20.1
20	64QAM	50	0	19.24	19.32	19.13	
20	64QAM	50	24	19.23	19.38	19.28	
20	64QAM	50	50	19.25	19.22	19.20	20.1
20	64QAM	100	0	19.36	19.26	19.24	
20	256QAM	1	0	19.27	19.20	19.18	
20	256QAM	1	49	19.05	19.24	19.16	20.1
20	256QAM	1	99	19.12	19.19	18.95	
20	256QAM	50	0	19.15	19.17	18.95	
20	256QAM	50	24	19.19	19.02	18.96	20.1
20	256QAM	50	50	19.13	19.12	19.00	
20	256QAM	100	0	18.96	19.06	19.15	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	19.36	19.17	19.26	
15	QPSK	1	37	19.17	19.18	19.23	20.1
15	QPSK	1	74	19.21	19.27	19.18	
15	QPSK	36	0	19.39	19.37	19.21	
15	QPSK	36	20	19.14	19.29	19.25	20.1
15	QPSK	36	39	19.23	19.24	19.20	
15	QPSK	75	0	19.13	19.17	19.28	
15	16QAM	1	0	19.17	19.20	19.24	20.1
15	16QAM	1	37	19.16	19.15	19.22	
15	16QAM	1	74	19.22	19.14	19.18	
15	16QAM	36	0	19.18	19.21	19.16	20.1
15	16QAM	36	20	19.27	19.22	19.27	
15	16QAM	36	39	19.13	19.19	19.13	
15	16QAM	75	0	19.28	19.27	19.28	20.1
15	64QAM	1	0	19.33	19.37	19.16	
15	64QAM	1	37	19.23	19.34	19.37	
15	64QAM	1	74	19.25	19.27	19.23	20.1
15	64QAM	36	0	19.12	19.30	19.23	
15	64QAM	36	20	19.23	19.24	19.22	
15	64QAM	36	39	19.17	19.10	19.11	20.1
15	64QAM	75	0	19.35	19.12	19.23	
15	256QAM	1	0	19.27	19.10	19.04	
15	256QAM	1	37	19.00	19.17	19.01	20.1
15	256QAM	1	74	19.07	19.07	18.84	
15	256QAM	36	0	19.11	19.16	18.83	
15	256QAM	36	20	19.17	18.90	18.82	20.1



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15	256QAM	36	39	19.09	19.06	18.83	
15	256QAM	75	0	18.85	18.89	19.04	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	19.28	19.19	19.14	20.1
10	QPSK	1	25	19.12	19.22	19.11	
10	QPSK	1	49	19.11	19.15	19.20	
10	QPSK	25	0	19.38	19.20	19.23	20.1
10	QPSK	25	12	19.21	19.37	19.22	
10	QPSK	25	25	19.20	19.32	19.21	
10	QPSK	50	0	19.16	19.15	19.10	
10	16QAM	1	0	19.10	19.38	19.25	20.1
10	16QAM	1	25	19.11	19.12	19.18	
10	16QAM	1	49	19.28	19.13	19.13	
10	16QAM	25	0	19.10	19.12	19.17	20.1
10	16QAM	25	12	19.16	19.33	19.16	
10	16QAM	25	25	19.11	19.22	19.15	
10	16QAM	50	0	19.21	19.18	19.30	
10	64QAM	1	0	19.41	19.31	19.16	20.1
10	64QAM	1	25	19.22	19.21	19.38	
10	64QAM	1	49	19.29	19.27	19.15	
10	64QAM	25	0	19.20	19.15	19.19	20.1
10	64QAM	25	12	19.22	19.22	19.13	
10	64QAM	25	25	19.05	19.20	19.20	
10	64QAM	50	0	19.28	19.19	19.06	
10	256QAM	1	0	19.14	19.05	19.06	20.1
10	256QAM	1	25	18.99	19.06	19.03	
10	256QAM	1	49	18.96	19.11	18.94	
10	256QAM	25	0	19.03	19.10	18.85	20.1
10	256QAM	25	12	19.14	18.92	18.88	
10	256QAM	25	25	19.06	18.98	18.82	
10	256QAM	50	0	18.86	19.01	19.11	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	19.43	19.14	19.28	20.1
5	QPSK	1	12	19.14	19.16	19.31	
5	QPSK	1	24	19.17	19.21	19.23	
5	QPSK	12	0	19.29	19.29	19.15	20.1
5	QPSK	12	7	19.13	19.19	19.23	
5	QPSK	12	13	19.16	19.32	19.25	
5	QPSK	25	0	19.17	19.14	19.12	
5	16QAM	1	0	19.21	19.23	19.27	20.1
5	16QAM	1	12	19.15	19.15	19.14	
5	16QAM	1	24	19.16	19.13	19.21	
5	16QAM	12	0	19.29	19.13	19.15	20.1
5	16QAM	12	7	19.22	19.35	19.14	
5	16QAM	12	13	19.15	19.20	19.16	
5	16QAM	25	0	19.23	19.20	19.12	
5	64QAM	1	0	19.35	19.40	19.24	20.1
5	64QAM	1	12	19.29	19.23	19.32	
5	64QAM	1	24	19.20	19.20	19.21	
5	64QAM	12	0	19.10	19.13	19.12	20.1
5	64QAM	12	7	19.03	19.23	19.27	
5	64QAM	12	13	19.20	19.14	19.09	
5	64QAM	25	0	19.17	19.24	19.24	
5	256QAM	1	0	19.17	19.14	19.11	20.1
5	256QAM	1	12	19.04	19.13	19.11	
5	256QAM	1	24	19.10	19.09	18.86	
5	256QAM	12	0	19.05	19.15	18.82	20.1
5	256QAM	12	7	19.04	18.88	18.87	
5	256QAM	12	13	19.04	18.95	18.88	
5	256QAM	25	0	18.77	18.99	19.09	



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Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	19.44	19.12	19.19	20.1
3	QPSK	1	8	19.13	19.11	19.13	
3	QPSK	1	14	19.22	19.15	19.16	
3	QPSK	8	0	19.32	19.25	19.19	20.1
3	QPSK	8	4	19.21	19.29	19.28	
3	QPSK	8	7	19.17	19.18	19.13	
3	QPSK	15	0	19.22	19.18	19.12	
3	16QAM	1	0	19.18	19.27	19.28	20.1
3	16QAM	1	8	19.17	19.19	19.12	
3	16QAM	1	14	19.11	19.24	19.19	
3	16QAM	8	0	19.23	19.31	19.19	20.1
3	16QAM	8	4	19.25	19.24	19.19	
3	16QAM	8	7	19.18	19.15	19.13	
3	16QAM	15	0	19.25	19.34	19.29	
3	64QAM	1	0	19.32	19.22	19.16	20.1
3	64QAM	1	8	19.18	19.34	19.21	
3	64QAM	1	14	19.38	19.21	19.11	
3	64QAM	8	0	19.24	19.19	19.17	20.1
3	64QAM	8	4	19.16	19.20	19.10	
3	64QAM	8	7	19.24	19.17	19.17	
3	64QAM	15	0	19.34	19.07	19.23	
3	256QAM	1	0	19.25	19.11	19.15	20.1
3	256QAM	1	8	18.89	19.19	19.04	
3	256QAM	1	14	18.94	19.13	18.95	
3	256QAM	8	0	19.07	19.13	18.90	20.1
3	256QAM	8	4	19.19	18.92	18.87	
3	256QAM	8	7	18.94	18.96	18.86	
3	256QAM	15	0	18.94	18.93	19.04	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	19.45	19.23	19.24	20.1
1.4	QPSK	1	3	19.25	19.26	19.16	
1.4	QPSK	1	5	19.18	19.15	19.21	
1.4	QPSK	3	0	19.35	19.28	19.26	
1.4	QPSK	3	1	19.18	19.26	19.14	
1.4	QPSK	3	3	19.26	19.18	19.27	
1.4	QPSK	6	0	19.24	19.13	19.24	20.1
1.4	16QAM	1	0	19.10	19.38	19.18	20.1
1.4	16QAM	1	3	19.22	19.20	19.24	
1.4	16QAM	1	5	19.27	19.13	19.28	
1.4	16QAM	3	0	19.15	19.19	19.12	
1.4	16QAM	3	1	19.17	19.18	19.26	
1.4	16QAM	3	3	19.25	19.12	19.29	20.1
1.4	16QAM	6	0	19.14	19.24	19.20	20.1
1.4	64QAM	1	0	19.34	19.29	19.20	
1.4	64QAM	1	3	19.37	19.32	19.31	
1.4	64QAM	1	5	19.32	19.16	19.15	
1.4	64QAM	3	0	19.24	19.19	19.26	
1.4	64QAM	3	1	19.12	19.23	19.26	
1.4	64QAM	3	3	19.14	19.14	19.14	20.1
1.4	64QAM	6	0	19.23	19.21	19.24	
1.4	256QAM	1	0	19.23	19.19	19.09	20.1
1.4	256QAM	1	3	18.97	19.12	18.97	
1.4	256QAM	1	5	18.95	19.05	18.86	
1.4	256QAM	3	0	19.00	18.99	18.93	
1.4	256QAM	3	1	19.00	18.90	18.83	
1.4	256QAM	3	3	19.13	19.05	18.91	20.1
1.4	256QAM	6	0	18.92	19.00	19.03	



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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)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	21.97	21.94	21.73	
20	QPSK	1	49	21.79	21.62	21.52	22.3
20	QPSK	1	99	21.75	21.60	21.47	
20	QPSK	50	0	21.95	21.77	21.66	
20	QPSK	50	24	21.86	21.65	21.56	22.3
20	QPSK	50	50	21.75	21.70	21.50	
20	QPSK	100	0	21.88	21.77	21.48	
20	16QAM	1	0	21.83	21.83	21.61	22.3
20	16QAM	1	49	21.69	21.83	21.41	
20	16QAM	1	99	21.64	21.67	21.55	
20	16QAM	50	0	21.86	21.87	21.60	22.3
20	16QAM	50	24	21.80	21.89	21.53	
20	16QAM	50	50	21.69	21.90	21.51	
20	16QAM	100	0	21.68	21.77	21.55	22.3
20	64QAM	1	0	21.75	21.93	21.52	
20	64QAM	1	49	21.52	21.81	21.42	
20	64QAM	1	99	21.54	21.78	21.48	22
20	64QAM	50	0	20.96	21.08	20.84	
20	64QAM	50	24	20.98	20.74	20.78	
20	64QAM	50	50	20.98	20.94	20.72	20
20	64QAM	100	0	20.89	21.20	20.77	
20	256QAM	1	0	19.74	19.84	19.43	
20	256QAM	1	49	19.25	19.94	19.39	20
20	256QAM	1	99	19.25	19.53	19.28	
20	256QAM	50	0	19.35	19.52	19.24	
20	256QAM	50	24	19.24	19.21	19.01	20
20	256QAM	50	50	19.18	19.19	19.14	
20	256QAM	100	0	19.40	19.46	19.10	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	21.93	21.66	21.61	
15	QPSK	1	37	21.65	21.54	21.66	22.3
15	QPSK	1	74	21.54	21.66	21.34	
15	QPSK	36	0	21.79	21.66	21.47	
15	QPSK	36	20	21.61	21.73	21.46	22.3
15	QPSK	36	39	21.50	21.63	21.63	
15	QPSK	75	0	21.70	21.62	21.38	
15	16QAM	1	0	21.85	21.58	21.53	22.3
15	16QAM	1	37	21.70	21.65	21.45	
15	16QAM	1	74	21.58	21.53	21.24	
15	16QAM	36	0	21.71	21.85	21.39	22.3
15	16QAM	36	20	21.63	21.84	21.48	
15	16QAM	36	39	21.56	21.88	21.47	
15	16QAM	75	0	21.84	21.47	21.38	22.3
15	64QAM	1	0	21.84	21.83	21.44	
15	64QAM	1	37	21.35	21.87	21.45	
15	64QAM	1	74	21.29	21.68	21.33	22
15	64QAM	36	0	20.90	20.94	20.58	
15	64QAM	36	20	20.98	20.71	20.53	
15	64QAM	36	39	20.80	20.78	20.43	20
15	64QAM	75	0	20.83	21.22	20.55	
15	256QAM	1	0	19.74	19.90	19.28	
15	256QAM	1	37	19.11	19.71	19.28	20
15	256QAM	1	74	19.24	19.46	19.34	
15	256QAM	36	0	19.14	19.32	19.12	
15	256QAM	36	20	19.23	19.00	18.93	20



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15	256QAM	36	39	19.20	19.11	18.87	Tune-up limit (dBm)
15	256QAM	75	0	19.19	19.39	18.98	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	21.61	21.59	21.72	22.3
10	QPSK	1	25	21.69	21.57	21.41	
10	QPSK	1	49	21.66	21.60	21.28	
10	QPSK	25	0	21.74	21.62	21.52	22.3
10	QPSK	25	12	21.86	21.68	21.56	
10	QPSK	25	25	21.58	21.64	21.40	
10	QPSK	50	0	21.59	21.61	21.47	
10	16QAM	1	0	21.70	21.57	21.59	22.3
10	16QAM	1	25	21.56	21.74	21.35	
10	16QAM	1	49	21.58	21.42	21.36	
10	16QAM	25	0	21.56	21.80	21.49	22.3
10	16QAM	25	12	21.85	21.96	21.38	
10	16QAM	25	25	21.75	21.92	21.48	
10	16QAM	50	0	21.57	21.58	21.49	
10	64QAM	1	0	21.60	21.89	21.50	22.3
10	64QAM	1	25	21.25	21.83	21.43	
10	64QAM	1	49	21.44	21.69	21.37	
10	64QAM	25	0	20.94	21.03	20.65	22
10	64QAM	25	12	20.90	20.63	20.77	
10	64QAM	25	25	20.85	20.68	20.60	
10	64QAM	50	0	20.87	20.99	20.54	
10	256QAM	1	0	19.64	19.61	19.27	20
10	256QAM	1	25	19.21	19.75	19.21	
10	256QAM	1	49	19.09	19.50	19.07	
10	256QAM	25	0	19.19	19.48	19.12	20
10	256QAM	25	12	19.15	19.16	19.02	
10	256QAM	25	25	19.26	19.00	18.83	
10	256QAM	50	0	19.33	19.47	19.00	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	21.65	21.70	21.61	22.3
5	QPSK	1	12	21.54	21.68	21.57	
5	QPSK	1	24	21.69	21.49	21.38	
5	QPSK	12	0	21.61	21.72	21.52	22.3
5	QPSK	12	7	21.85	21.64	21.41	
5	QPSK	12	13	21.70	21.41	21.54	
5	QPSK	25	0	21.69	21.72	21.46	
5	16QAM	1	0	21.83	21.73	21.62	22.3
5	16QAM	1	12	21.65	21.59	21.49	
5	16QAM	1	24	21.74	21.47	21.21	
5	16QAM	12	0	21.80	21.91	21.47	22.3
5	16QAM	12	7	21.63	21.83	21.49	
5	16QAM	12	13	21.72	21.90	21.34	
5	16QAM	25	0	21.75	21.55	21.55	
5	64QAM	1	0	21.73	21.85	21.32	22.3
5	64QAM	1	12	21.40	21.87	21.39	
5	64QAM	1	24	21.24	21.61	21.25	
5	64QAM	12	0	20.98	21.02	20.66	22
5	64QAM	12	7	20.89	20.79	20.64	
5	64QAM	12	13	20.86	20.72	20.58	
5	64QAM	25	0	20.95	21.08	20.59	
5	256QAM	1	0	19.49	19.65	19.43	20
5	256QAM	1	12	19.32	19.84	19.31	
5	256QAM	1	24	19.25	19.47	19.16	
5	256QAM	12	0	19.23	19.35	19.00	20
5	256QAM	12	7	19.17	19.05	19.01	
5	256QAM	12	13	19.13	19.06	19.17	
5	256QAM	25	0	19.26	19.46	18.83	



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Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	21.87	21.62	21.49	22.3
3	QPSK	1	8	21.57	21.65	21.57	
3	QPSK	1	14	21.44	21.61	21.38	
3	QPSK	8	0	21.79	21.63	21.46	22.3
3	QPSK	8	4	21.79	21.80	21.45	
3	QPSK	8	7	21.57	21.50	21.45	
3	QPSK	15	0	21.81	21.67	21.39	
3	16QAM	1	0	21.68	21.74	21.59	22.3
3	16QAM	1	8	21.77	21.64	21.34	
3	16QAM	1	14	21.59	21.47	21.34	
3	16QAM	8	0	21.82	21.89	21.47	22.3
3	16QAM	8	4	21.84	21.81	21.36	
3	16QAM	8	7	21.67	21.82	21.31	
3	16QAM	15	0	21.70	21.65	21.48	
3	64QAM	1	0	21.81	21.88	21.60	22.3
3	64QAM	1	8	21.33	21.86	21.52	
3	64QAM	1	14	21.31	21.64	21.37	
3	64QAM	8	0	20.95	21.03	20.75	22
3	64QAM	8	4	20.71	20.70	20.58	
3	64QAM	8	7	20.80	20.77	20.42	
3	64QAM	15	0	20.73	21.06	20.59	
3	256QAM	1	0	19.46	19.75	19.15	20
3	256QAM	1	8	19.18	19.79	19.34	
3	256QAM	1	14	19.18	19.41	19.25	
3	256QAM	8	0	19.09	19.41	18.92	20
3	256QAM	8	4	19.29	19.22	19.06	
3	256QAM	8	7	19.31	19.01	19.14	
3	256QAM	15	0	19.13	19.29	18.92	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	21.76	21.75	21.50	22.3
1.4	QPSK	1	3	21.61	21.53	21.50	
1.4	QPSK	1	5	21.71	21.65	21.31	
1.4	QPSK	3	0	21.69	21.70	21.74	
1.4	QPSK	3	1	21.65	21.68	21.42	
1.4	QPSK	3	3	21.67	21.60	21.45	
1.4	QPSK	6	0	21.85	21.86	21.43	22.3
1.4	16QAM	1	0	21.77	21.70	21.58	22.3
1.4	16QAM	1	3	21.59	21.57	21.57	
1.4	16QAM	1	5	21.68	21.60	21.58	
1.4	16QAM	3	0	21.87	21.78	21.83	
1.4	16QAM	3	1	21.81	21.95	21.62	
1.4	16QAM	3	3	21.86	21.85	21.69	
1.4	16QAM	6	0	21.45	21.79	21.19	22.3
1.4	64QAM	1	0	21.42	21.67	21.06	22.3
1.4	64QAM	1	3	21.23	21.67	21.20	
1.4	64QAM	1	5	21.33	21.39	21.38	
1.4	64QAM	3	0	21.67	21.87	21.55	
1.4	64QAM	3	1	21.44	21.88	21.48	
1.4	64QAM	3	3	21.40	21.65	21.44	
1.4	64QAM	6	0	20.72	20.96	20.66	22
1.4	256QAM	1	0	19.42	19.68	19.29	20
1.4	256QAM	1	3	19.14	19.72	19.24	
1.4	256QAM	1	5	19.16	19.53	19.18	
1.4	256QAM	3	0	19.16	19.33	19.12	
1.4	256QAM	3	1	19.32	19.04	19.07	
1.4	256QAM	3	3	19.28	19.09	18.95	
1.4	256QAM	6	0	19.32	19.56	19.09	20



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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)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	17.24	17.22	17.20	
20	QPSK	1	49	17.09	17.17	17.18	18.2
20	QPSK	1	99	17.07	17.09	17.09	
20	QPSK	50	0	17.23	17.17	17.19	
20	QPSK	50	24	17.19	17.11	17.19	18.2
20	QPSK	50	50	17.13	17.16	17.16	
20	QPSK	100	0	17.20	17.18	17.19	
20	16QAM	1	0	17.20	17.20	17.11	18.2
20	16QAM	1	49	17.10	17.07	17.08	
20	16QAM	1	99	17.09	16.99	17.04	
20	16QAM	50	0	17.19	17.23	17.23	18.2
20	16QAM	50	24	17.21	17.22	17.23	
20	16QAM	50	50	17.17	17.17	17.21	
20	16QAM	100	0	17.17	17.20	17.22	18.2
20	64QAM	1	0	17.17	17.05	17.04	
20	64QAM	1	49	16.89	16.87	16.98	
20	64QAM	1	99	17.02	16.98	17.03	18.2
20	64QAM	50	0	17.20	17.20	17.19	
20	64QAM	50	24	17.20	17.22	17.19	
20	64QAM	50	50	17.18	17.19	17.21	18.2
20	64QAM	100	0	17.23	17.21	17.20	
20	256QAM	1	0	17.10	16.89	16.93	
20	256QAM	1	49	16.84	16.86	16.88	18.2
20	256QAM	1	99	16.89	16.88	17.01	
20	256QAM	50	0	17.07	17.17	17.08	
20	256QAM	50	24	17.11	17.20	17.14	18.2
20	256QAM	50	50	17.11	17.06	17.20	
20	256QAM	100	0	17.19	17.10	17.13	
Channel				26115	26340	26615	
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	17.06	17.16	17.19	
15	QPSK	1	37	16.94	17.01	17.00	18.2
15	QPSK	1	74	16.89	17.07	16.97	
15	QPSK	36	0	17.08	17.02	17.05	
15	QPSK	36	20	17.15	17.04	17.06	18.2
15	QPSK	36	39	17.10	17.05	16.98	
15	QPSK	75	0	17.11	17.18	17.00	
15	16QAM	1	0	17.04	17.02	17.03	18.2
15	16QAM	1	37	16.91	17.04	16.91	
15	16QAM	1	74	17.07	16.96	17.00	
15	16QAM	36	0	17.13	17.10	17.23	18.2
15	16QAM	36	20	17.15	17.10	17.15	
15	16QAM	36	39	17.15	17.01	17.21	
15	16QAM	75	0	17.14	17.14	17.18	18.2
15	64QAM	1	0	17.08	16.93	16.95	
15	64QAM	1	37	16.77	16.67	16.79	
15	64QAM	1	74	17.01	16.88	16.96	18.2
15	64QAM	36	0	17.12	17.17	17.12	
15	64QAM	36	20	17.18	17.21	17.03	
15	64QAM	36	39	17.01	17.01	17.12	18.2
15	64QAM	75	0	17.06	17.09	17.14	
15	256QAM	1	0	16.97	16.78	16.82	
15	256QAM	1	37	16.74	16.76	16.68	18.2
15	256QAM	1	74	16.83	16.81	16.95	
15	256QAM	36	0	17.03	17.03	17.01	
15	256QAM	36	20	17.00	17.18	16.96	18.2



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15	256QAM	36	39	17.08	16.89	17.08	
15	256QAM	75	0	17.09	16.99	16.95	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	17.13	17.12	17.05	18.2
10	QPSK	1	25	16.90	17.12	17.05	
10	QPSK	1	49	16.97	16.93	16.94	
10	QPSK	25	0	17.11	17.00	17.19	18.2
10	QPSK	25	12	17.06	17.06	17.07	
10	QPSK	25	25	17.08	17.01	17.10	
10	QPSK	50	0	17.06	17.16	17.10	
10	16QAM	1	0	17.00	17.07	17.06	18.2
10	16QAM	1	25	17.10	17.03	17.04	
10	16QAM	1	49	17.03	16.84	17.00	
10	16QAM	25	0	17.15	17.07	17.11	18.2
10	16QAM	25	12	17.15	17.22	17.07	
10	16QAM	25	25	17.01	17.01	17.05	
10	16QAM	50	0	17.17	17.05	17.14	
10	64QAM	1	0	17.02	16.91	16.98	18.2
10	64QAM	1	25	16.89	16.80	16.89	
10	64QAM	1	49	16.87	16.86	16.83	
10	64QAM	25	0	17.04	17.10	17.16	18.2
10	64QAM	25	12	17.13	17.03	17.07	
10	64QAM	25	25	17.12	17.05	17.19	
10	64QAM	50	0	17.04	17.12	17.17	
10	256QAM	1	0	17.02	16.76	16.88	18.2
10	256QAM	1	25	16.84	16.83	16.86	
10	256QAM	1	49	16.77	16.77	16.88	
10	256QAM	25	0	16.92	17.07	17.05	18.2
10	256QAM	25	12	16.96	17.12	17.13	
10	256QAM	25	25	17.07	17.03	17.17	
10	256QAM	50	0	16.99	17.05	17.01	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	17.06	17.20	17.00	18.2
5	QPSK	1	12	17.09	17.09	17.06	
5	QPSK	1	24	16.90	17.08	17.05	
5	QPSK	12	0	17.11	17.04	17.16	18.2
5	QPSK	12	7	17.08	17.04	17.17	
5	QPSK	12	13	17.09	17.16	17.14	
5	QPSK	25	0	17.11	17.13	17.00	
5	16QAM	1	0	17.04	17.08	16.93	18.2
5	16QAM	1	12	16.95	16.95	17.00	
5	16QAM	1	24	16.96	16.92	16.86	
5	16QAM	12	0	17.19	17.06	17.17	18.2
5	16QAM	12	7	17.15	17.09	17.07	
5	16QAM	12	13	17.02	17.02	17.12	
5	16QAM	25	0	17.15	17.10	17.05	
5	64QAM	1	0	17.17	16.89	16.94	18.2
5	64QAM	1	12	16.84	16.83	16.92	
5	64QAM	1	24	16.94	16.98	17.00	
5	64QAM	12	0	17.08	17.17	16.99	18.2
5	64QAM	12	7	17.19	17.20	17.15	
5	64QAM	12	13	17.12	17.17	17.17	
5	64QAM	25	0	17.10	17.02	17.20	
5	256QAM	1	0	16.90	16.75	16.74	18.2
5	256QAM	1	12	16.70	16.69	16.69	
5	256QAM	1	24	16.89	16.82	17.01	
5	256QAM	12	0	16.95	17.02	17.02	18.2
5	256QAM	12	7	16.97	17.04	17.00	
5	256QAM	12	13	16.97	17.02	17.10	
5	256QAM	25	0	17.11	16.97	17.11	



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Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	17.09	17.10	17.07	18.2
3	QPSK	1	8	17.06	17.14	16.99	
3	QPSK	1	14	16.87	16.90	17.03	
3	QPSK	8	0	17.15	17.11	17.05	18.2
3	QPSK	8	4	17.11	17.10	17.16	
3	QPSK	8	7	17.07	16.98	17.08	
3	QPSK	15	0	17.20	17.09	16.99	
3	16QAM	1	0	17.09	17.16	17.05	18.2
3	16QAM	1	8	17.06	16.88	17.01	
3	16QAM	1	14	17.09	16.89	17.02	
3	16QAM	8	0	17.10	17.08	17.22	18.2
3	16QAM	8	4	17.11	17.16	17.11	
3	16QAM	8	7	17.01	17.07	17.16	
3	16QAM	15	0	17.12	17.16	17.13	
3	64QAM	1	0	17.01	17.00	16.86	18.2
3	64QAM	1	8	16.70	16.70	16.78	
3	64QAM	1	14	16.86	16.80	16.98	
3	64QAM	8	0	17.03	17.18	17.00	18.2
3	64QAM	8	4	17.15	17.18	17.15	
3	64QAM	8	7	17.11	17.07	17.13	
3	64QAM	15	0	17.12	17.06	17.05	
3	256QAM	1	0	17.08	16.88	16.82	18.2
3	256QAM	1	8	16.81	16.85	16.72	
3	256QAM	1	14	16.70	16.68	17.01	
3	256QAM	8	0	16.97	17.11	16.96	18.2
3	256QAM	8	4	16.96	17.03	17.01	
3	256QAM	8	7	17.09	17.02	17.19	
3	256QAM	15	0	17.11	17.04	16.99	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	17.20	17.06	17.19	18.2
1.4	QPSK	1	3	16.99	17.13	17.16	
1.4	QPSK	1	5	17.05	16.89	17.06	
1.4	QPSK	3	0	17.16	17.09	17.06	
1.4	QPSK	3	1	17.17	17.03	17.16	
1.4	QPSK	3	3	17.06	17.02	17.03	
1.4	QPSK	6	0	17.19	17.14	17.16	
1.4	16QAM	1	0	17.06	17.00	17.11	18.2
1.4	16QAM	1	3	17.03	17.01	16.99	
1.4	16QAM	1	5	16.98	16.94	17.01	
1.4	16QAM	3	0	17.15	17.03	17.13	
1.4	16QAM	3	1	17.04	17.17	17.22	
1.4	16QAM	3	3	17.00	17.06	17.16	
1.4	16QAM	6	0	17.07	17.17	17.13	18.2
1.4	64QAM	1	0	17.13	16.86	16.87	18.2
1.4	64QAM	1	3	16.86	16.72	16.93	
1.4	64QAM	1	5	16.91	16.94	16.86	
1.4	64QAM	3	0	17.00	17.00	17.04	
1.4	64QAM	3	1	17.07	17.12	17.06	
1.4	64QAM	3	3	17.11	17.16	17.14	
1.4	64QAM	6	0	17.10	17.16	17.11	18.2
1.4	256QAM	1	0	16.98	16.76	16.79	18.2
1.4	256QAM	1	3	16.68	16.72	16.86	
1.4	256QAM	1	5	16.88	16.76	17.01	
1.4	256QAM	3	0	16.88	17.04	16.92	
1.4	256QAM	3	1	16.97	17.17	17.10	
1.4	256QAM	3	3	16.99	17.03	17.17	
1.4	256QAM	6	0	17.00	17.01	17.06	18.2



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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)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	17.00	17.05	17.06	
20	QPSK	1	49	16.86	16.86	16.89	18.2
20	QPSK	1	99	16.88	16.87	16.87	
20	QPSK	50	0	16.93	16.98	17.05	
20	QPSK	50	24	16.92	16.93	16.93	18.2
20	QPSK	50	50	16.93	16.89	16.93	
20	QPSK	100	0	16.95	16.94	16.97	
20	16QAM	1	0	17.01	16.88	16.85	18.2
20	16QAM	1	49	16.89	16.70	16.77	
20	16QAM	1	99	16.85	16.78	16.77	
20	16QAM	50	0	17.03	16.99	16.99	18.2
20	16QAM	50	24	17.01	16.98	16.92	
20	16QAM	50	50	16.99	16.93	16.94	
20	16QAM	100	0	16.99	16.95	16.93	18.2
20	64QAM	1	0	16.87	16.74	16.69	
20	64QAM	1	49	16.81	16.67	16.67	
20	64QAM	1	99	16.69	16.73	16.68	18.2
20	64QAM	50	0	17.01	17.03	16.97	
20	64QAM	50	24	17.03	16.98	16.97	
20	64QAM	50	50	17.01	16.92	16.95	18.2
20	64QAM	100	0	17.03	16.95	16.95	
20	256QAM	1	0	16.91	16.84	16.83	
20	256QAM	1	49	16.73	16.86	16.74	18.2
20	256QAM	1	99	16.74	16.83	16.72	
20	256QAM	50	0	16.70	16.59	16.51	
20	256QAM	50	24	16.73	16.66	16.61	18.2
20	256QAM	50	50	16.71	16.64	16.62	
20	256QAM	100	0	16.62	16.60	16.65	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	16.94	17.05	16.95	
15	QPSK	1	37	16.78	16.67	16.86	18.2
15	QPSK	1	74	16.70	16.80	16.73	
15	QPSK	36	0	16.77	16.95	16.94	
15	QPSK	36	20	16.77	16.77	16.91	18.2
15	QPSK	36	39	16.83	16.75	16.76	
15	QPSK	75	0	16.80	16.92	16.91	
15	16QAM	1	0	16.93	16.71	16.80	18.2
15	16QAM	1	37	16.84	16.70	16.61	
15	16QAM	1	74	16.66	16.60	16.60	
15	16QAM	36	0	16.96	16.83	16.99	18.2
15	16QAM	36	20	16.90	16.97	16.78	
15	16QAM	36	39	16.91	16.78	16.86	
15	16QAM	75	0	16.97	16.84	16.80	18.2
15	64QAM	1	0	16.85	16.68	16.67	
15	64QAM	1	37	16.65	16.67	16.65	
15	64QAM	1	74	16.61	16.72	16.65	18.2
15	64QAM	36	0	16.84	17.01	16.89	
15	64QAM	36	20	16.93	16.78	16.93	
15	64QAM	36	39	16.89	16.89	16.81	18.2
15	64QAM	75	0	16.86	16.88	16.78	
15	256QAM	1	0	16.74	16.70	16.64	
15	256QAM	1	37	16.66	16.78	16.73	18.2
15	256QAM	1	74	16.67	16.79	16.68	
15	256QAM	36	0	16.58	16.56	16.35	
15	256QAM	36	20	16.59	16.46	16.52	18.2



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15	256QAM	36	39	16.70	16.61	16.42	
15	256QAM	75	0	16.46	16.59	16.54	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	16.95	16.89	16.95	18.2
10	QPSK	1	25	16.85	16.74	16.69	
10	QPSK	1	49	16.71	16.87	16.75	
10	QPSK	25	0	16.73	16.88	16.86	18.2
10	QPSK	25	12	16.73	16.89	16.83	
10	QPSK	25	25	16.88	16.75	16.84	
10	QPSK	50	0	16.79	16.84	16.81	
10	16QAM	1	0	16.96	16.73	16.84	18.2
10	16QAM	1	25	16.80	16.50	16.64	
10	16QAM	1	49	16.78	16.65	16.75	
10	16QAM	25	0	16.92	16.88	16.99	18.2
10	16QAM	25	12	16.95	16.85	16.92	
10	16QAM	25	25	16.83	16.76	16.76	
10	16QAM	50	0	16.84	16.80	16.90	
10	64QAM	1	0	16.85	16.70	16.58	18.2
10	64QAM	1	25	16.65	16.59	16.49	
10	64QAM	1	49	16.53	16.69	16.57	
10	64QAM	25	0	16.96	16.99	16.96	18.2
10	64QAM	25	12	16.89	16.78	16.94	
10	64QAM	25	25	16.89	16.80	16.91	
10	64QAM	50	0	16.94	16.85	16.81	
10	256QAM	1	0	16.82	16.67	16.79	18.2
10	256QAM	1	25	16.70	16.68	16.68	
10	256QAM	1	49	16.60	16.76	16.60	
10	256QAM	25	0	16.66	16.50	16.50	18.2
10	256QAM	25	12	16.55	16.55	16.61	
10	256QAM	25	25	16.62	16.53	16.49	
10	256QAM	50	0	16.59	16.48	16.65	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	16.99	16.95	17.01	18.2
5	QPSK	1	12	16.75	16.77	16.78	
5	QPSK	1	24	16.68	16.68	16.78	
5	QPSK	12	0	16.88	16.94	16.89	18.2
5	QPSK	12	7	16.91	16.88	16.85	
5	QPSK	12	13	16.90	16.73	16.87	
5	QPSK	25	0	16.81	16.85	16.93	
5	16QAM	1	0	17.00	16.88	16.70	18.2
5	16QAM	1	12	16.77	16.54	16.62	
5	16QAM	1	24	16.85	16.71	16.69	
5	16QAM	12	0	16.93	16.79	16.93	18.2
5	16QAM	12	7	17.00	16.80	16.90	
5	16QAM	12	13	16.96	16.85	16.74	
5	16QAM	25	0	16.85	16.83	16.86	
5	64QAM	1	0	16.69	16.60	16.60	18.2
5	64QAM	1	12	16.77	16.63	16.58	
5	64QAM	1	24	16.53	16.58	16.50	
5	64QAM	12	0	16.92	17.00	16.94	18.2
5	64QAM	12	7	16.92	16.84	16.87	
5	64QAM	12	13	16.96	16.90	16.86	
5	64QAM	25	0	16.84	16.87	16.79	
5	256QAM	1	0	16.90	16.83	16.63	18.2
5	256QAM	1	12	16.68	16.82	16.69	
5	256QAM	1	24	16.58	16.72	16.52	
5	256QAM	12	0	16.66	16.49	16.36	18.2
5	256QAM	12	7	16.64	16.47	16.56	
5	256QAM	12	13	16.61	16.46	16.44	
5	256QAM	25	0	16.44	16.59	16.50	



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Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	16.95	16.97	16.97	18.2
3	QPSK	1	8	16.71	16.82	16.81	
3	QPSK	1	14	16.86	16.87	16.84	
3	QPSK	8	0	16.74	16.82	17.05	18.2
3	QPSK	8	4	16.77	16.76	16.81	
3	QPSK	8	7	16.78	16.76	16.75	
3	QPSK	15	0	16.92	16.87	16.77	
3	16QAM	1	0	17.01	16.77	16.76	18.2
3	16QAM	1	8	16.70	16.63	16.65	
3	16QAM	1	14	16.78	16.73	16.61	
3	16QAM	8	0	16.83	16.91	16.98	18.2
3	16QAM	8	4	16.85	16.89	16.75	
3	16QAM	8	7	16.83	16.73	16.87	
3	16QAM	15	0	16.98	16.91	16.90	
3	64QAM	1	0	16.77	16.60	16.51	18.2
3	64QAM	1	8	16.70	16.47	16.66	
3	64QAM	1	14	16.55	16.55	16.59	
3	64QAM	8	0	16.93	16.99	16.97	18.2
3	64QAM	8	4	17.01	16.97	16.81	
3	64QAM	8	7	16.86	16.75	16.78	
3	64QAM	15	0	17.01	16.81	16.87	
3	256QAM	1	0	16.84	16.80	16.69	18.2
3	256QAM	1	8	16.59	16.77	16.57	
3	256QAM	1	14	16.72	16.71	16.54	
3	256QAM	8	0	16.51	16.48	16.44	18.2
3	256QAM	8	4	16.61	16.61	16.47	
3	256QAM	8	7	16.58	16.57	16.54	
3	256QAM	15	0	16.58	16.53	16.45	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	16.88	17.05	16.97	18.2
1.4	QPSK	1	3	16.74	16.82	16.83	
1.4	QPSK	1	5	16.74	16.68	16.77	
1.4	QPSK	3	0	16.80	16.92	16.90	
1.4	QPSK	3	1	16.84	16.90	16.80	
1.4	QPSK	3	3	16.81	16.82	16.85	
1.4	QPSK	6	0	16.87	16.86	16.96	
1.4	16QAM	1	0	16.93	16.80	16.76	18.2
1.4	16QAM	1	3	16.76	16.66	16.58	
1.4	16QAM	1	5	16.85	16.65	16.72	
1.4	16QAM	3	0	16.96	16.95	16.79	
1.4	16QAM	3	1	16.89	16.78	16.77	
1.4	16QAM	3	3	16.81	16.80	16.91	
1.4	16QAM	6	0	16.86	16.88	16.90	18.2
1.4	64QAM	1	0	16.75	16.74	16.59	18.2
1.4	64QAM	1	3	16.61	16.52	16.62	
1.4	64QAM	1	5	16.69	16.55	16.61	
1.4	64QAM	3	0	16.85	16.96	16.96	
1.4	64QAM	3	1	16.85	16.92	16.90	
1.4	64QAM	3	3	16.88	16.72	16.93	
1.4	64QAM	6	0	16.83	16.85	16.78	18.2
1.4	256QAM	1	0	16.74	16.72	16.65	18.2
1.4	256QAM	1	3	16.66	16.81	16.66	
1.4	256QAM	1	5	16.63	16.79	16.67	
1.4	256QAM	3	0	16.56	16.55	16.35	
1.4	256QAM	3	1	16.70	16.57	16.57	
1.4	256QAM	3	3	16.65	16.57	16.52	
1.4	256QAM	6	0	16.47	16.46	16.49	18.2



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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)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	19.46	19.34	19.35	
20	QPSK	1	49	19.24	19.25	19.31	20.9
20	QPSK	1	99	19.29	19.20	19.28	
20	QPSK	50	0	19.45	19.39	19.34	
20	QPSK	50	24	19.30	19.38	19.28	20.9
20	QPSK	50	50	19.26	19.32	19.27	
20	QPSK	100	0	19.29	19.20	19.17	
20	16QAM	1	0	19.27	19.39	19.28	20.9
20	16QAM	1	49	19.22	19.28	19.23	
20	16QAM	1	99	19.15	19.29	19.22	
20	16QAM	50	0	19.29	19.31	19.26	20.9
20	16QAM	50	24	19.21	19.37	19.22	
20	16QAM	50	50	19.23	19.32	19.23	
20	16QAM	100	0	19.26	19.38	19.31	20.9
20	64QAM	1	0	19.45	19.40	19.34	
20	64QAM	1	49	19.37	19.39	19.40	
20	64QAM	1	99	19.39	19.30	19.23	20.9
20	64QAM	50	0	19.24	19.32	19.13	
20	64QAM	50	24	19.23	19.38	19.28	
20	64QAM	50	50	19.25	19.22	19.20	20.3
20	64QAM	100	0	19.36	19.26	19.24	
20	256QAM	1	0	19.27	19.20	19.18	
20	256QAM	1	49	19.05	19.24	19.16	20.3
20	256QAM	1	99	19.12	19.19	18.95	
20	256QAM	50	0	19.15	19.17	18.95	
20	256QAM	50	24	19.19	19.02	18.96	20.3
20	256QAM	50	50	19.13	19.12	19.00	
20	256QAM	100	0	18.96	19.06	19.15	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	19.36	19.17	19.26	
15	QPSK	1	37	19.17	19.18	19.23	20.9
15	QPSK	1	74	19.21	19.27	19.18	
15	QPSK	36	0	19.39	19.37	19.21	
15	QPSK	36	20	19.14	19.29	19.25	20.9
15	QPSK	36	39	19.23	19.24	19.20	
15	QPSK	75	0	19.13	19.17	19.28	
15	16QAM	1	0	19.17	19.20	19.24	20.9
15	16QAM	1	37	19.16	19.15	19.22	
15	16QAM	1	74	19.22	19.14	19.18	
15	16QAM	36	0	19.18	19.21	19.16	20.9
15	16QAM	36	20	19.27	19.22	19.27	
15	16QAM	36	39	19.13	19.19	19.13	
15	16QAM	75	0	19.28	19.27	19.28	20.9
15	64QAM	1	0	19.33	19.37	19.16	
15	64QAM	1	37	19.23	19.34	19.37	
15	64QAM	1	74	19.25	19.27	19.23	20.9
15	64QAM	36	0	19.12	19.30	19.23	
15	64QAM	36	20	19.23	19.24	19.22	
15	64QAM	36	39	19.17	19.10	19.11	20.3
15	64QAM	75	0	19.35	19.12	19.23	
15	256QAM	1	0	19.27	19.10	19.04	
15	256QAM	1	37	19.00	19.17	19.01	20.3
15	256QAM	1	74	19.07	19.07	18.84	
15	256QAM	36	0	19.11	19.16	18.83	
15	256QAM	36	20	19.17	18.90	18.82	20.3



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15	256QAM	36	39	19.09	19.06	18.83	Tune-up limit (dBm)
15	256QAM	75	0	18.85	18.89	19.04	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	19.28	19.19	19.14	20.9
10	QPSK	1	25	19.12	19.22	19.11	
10	QPSK	1	49	19.11	19.15	19.20	
10	QPSK	25	0	19.38	19.20	19.23	20.9
10	QPSK	25	12	19.21	19.37	19.22	
10	QPSK	25	25	19.20	19.32	19.21	
10	QPSK	50	0	19.16	19.15	19.10	
10	16QAM	1	0	19.10	19.38	19.25	20.9
10	16QAM	1	25	19.11	19.12	19.18	
10	16QAM	1	49	19.28	19.13	19.13	
10	16QAM	25	0	19.10	19.12	19.17	20.9
10	16QAM	25	12	19.16	19.33	19.16	
10	16QAM	25	25	19.11	19.22	19.15	
10	16QAM	50	0	19.21	19.18	19.30	
10	64QAM	1	0	19.41	19.31	19.16	20.9
10	64QAM	1	25	19.22	19.21	19.38	
10	64QAM	1	49	19.29	19.27	19.15	
10	64QAM	25	0	19.20	19.15	19.19	20.9
10	64QAM	25	12	19.22	19.22	19.13	
10	64QAM	25	25	19.05	19.20	19.20	
10	64QAM	50	0	19.28	19.19	19.06	
10	256QAM	1	0	19.14	19.05	19.06	20.3
10	256QAM	1	25	18.99	19.06	19.03	
10	256QAM	1	49	18.96	19.11	18.94	
10	256QAM	25	0	19.03	19.10	18.85	20.3
10	256QAM	25	12	19.14	18.92	18.88	
10	256QAM	25	25	19.06	18.98	18.82	
10	256QAM	50	0	18.86	19.01	19.11	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	19.43	19.14	19.28	20.9
5	QPSK	1	12	19.14	19.16	19.31	
5	QPSK	1	24	19.17	19.21	19.23	
5	QPSK	12	0	19.29	19.29	19.15	20.9
5	QPSK	12	7	19.13	19.19	19.23	
5	QPSK	12	13	19.16	19.32	19.25	
5	QPSK	25	0	19.17	19.14	19.12	
5	16QAM	1	0	19.21	19.23	19.27	20.9
5	16QAM	1	12	19.15	19.15	19.14	
5	16QAM	1	24	19.16	19.13	19.21	
5	16QAM	12	0	19.29	19.13	19.15	20.9
5	16QAM	12	7	19.22	19.35	19.14	
5	16QAM	12	13	19.15	19.20	19.16	
5	16QAM	25	0	19.23	19.20	19.12	
5	64QAM	1	0	19.35	19.40	19.24	20.9
5	64QAM	1	12	19.29	19.23	19.32	
5	64QAM	1	24	19.20	19.20	19.21	
5	64QAM	12	0	19.10	19.13	19.12	20.9
5	64QAM	12	7	19.03	19.23	19.27	
5	64QAM	12	13	19.20	19.14	19.09	
5	64QAM	25	0	19.17	19.24	19.24	
5	256QAM	1	0	19.17	19.14	19.11	20.3
5	256QAM	1	12	19.04	19.13	19.11	
5	256QAM	1	24	19.10	19.09	18.86	
5	256QAM	12	0	19.05	19.15	18.82	20.3
5	256QAM	12	7	19.04	18.88	18.87	
5	256QAM	12	13	19.04	18.95	18.88	
5	256QAM	25	0	18.77	18.99	19.09	
Channel				26055	26340	26675	Tune-up limit



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Frequency (MHz)				1851.5	1880	1913.5	(dBm)
3	QPSK	1	0	19.44	19.12	19.19	20.9
3	QPSK	1	8	19.13	19.11	19.13	
3	QPSK	1	14	19.22	19.15	19.16	
3	QPSK	8	0	19.32	19.25	19.19	20.9
3	QPSK	8	4	19.21	19.29	19.28	
3	QPSK	8	7	19.17	19.18	19.13	
3	QPSK	15	0	19.22	19.18	19.12	
3	16QAM	1	0	19.18	19.27	19.28	20.9
3	16QAM	1	8	19.17	19.19	19.12	
3	16QAM	1	14	19.11	19.24	19.19	
3	16QAM	8	0	19.23	19.31	19.19	20.9
3	16QAM	8	4	19.25	19.24	19.19	
3	16QAM	8	7	19.18	19.15	19.13	
3	16QAM	15	0	19.25	19.34	19.29	
3	64QAM	1	0	19.32	19.22	19.16	20.9
3	64QAM	1	8	19.18	19.34	19.21	
3	64QAM	1	14	19.38	19.21	19.11	
3	64QAM	8	0	19.24	19.19	19.17	20.9
3	64QAM	8	4	19.16	19.20	19.10	
3	64QAM	8	7	19.24	19.17	19.17	
3	64QAM	15	0	19.34	19.07	19.23	
3	256QAM	1	0	19.25	19.11	19.15	20.3
3	256QAM	1	8	18.89	19.19	19.04	
3	256QAM	1	14	18.94	19.13	18.95	
3	256QAM	8	0	19.07	19.13	18.90	20.3
3	256QAM	8	4	19.19	18.92	18.87	
3	256QAM	8	7	18.94	18.96	18.86	
3	256QAM	15	0	18.94	18.93	19.04	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	19.45	19.23	19.24	20.9
1.4	QPSK	1	3	19.25	19.26	19.16	
1.4	QPSK	1	5	19.18	19.15	19.21	
1.4	QPSK	3	0	19.35	19.28	19.26	
1.4	QPSK	3	1	19.18	19.26	19.14	
1.4	QPSK	3	3	19.26	19.18	19.27	
1.4	QPSK	6	0	19.24	19.13	19.24	20.9
1.4	16QAM	1	0	19.10	19.38	19.18	20.9
1.4	16QAM	1	3	19.22	19.20	19.24	
1.4	16QAM	1	5	19.27	19.13	19.28	
1.4	16QAM	3	0	19.15	19.19	19.12	
1.4	16QAM	3	1	19.17	19.18	19.26	
1.4	16QAM	3	3	19.25	19.12	19.29	
1.4	16QAM	6	0	19.14	19.24	19.20	20.9
1.4	64QAM	1	0	19.34	19.29	19.20	20.9
1.4	64QAM	1	3	19.37	19.32	19.31	
1.4	64QAM	1	5	19.32	19.16	19.15	
1.4	64QAM	3	0	19.24	19.19	19.26	
1.4	64QAM	3	1	19.12	19.23	19.26	
1.4	64QAM	3	3	19.14	19.14	19.14	
1.4	64QAM	6	0	19.23	19.21	19.24	20.9
1.4	256QAM	1	0	19.23	19.19	19.09	20.3
1.4	256QAM	1	3	18.97	19.12	18.97	
1.4	256QAM	1	5	18.95	19.05	18.86	
1.4	256QAM	3	0	19.00	18.99	18.93	
1.4	256QAM	3	1	19.00	18.90	18.83	
1.4	256QAM	3	3	19.13	19.05	18.91	
1.4	256QAM	6	0	18.92	19.00	19.03	20.3



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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)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	21.97	21.94	21.73	
20	QPSK	1	49	21.79	21.62	21.52	23.1
20	QPSK	1	99	21.75	21.60	21.47	
20	QPSK	50	0	21.95	21.77	21.66	
20	QPSK	50	24	21.86	21.65	21.56	23.1
20	QPSK	50	50	21.75	21.70	21.50	
20	QPSK	100	0	21.88	21.77	21.48	
20	16QAM	1	0	21.83	21.83	21.61	23.1
20	16QAM	1	49	21.69	21.83	21.41	
20	16QAM	1	99	21.64	21.67	21.55	
20	16QAM	50	0	21.86	21.87	21.60	23
20	16QAM	50	24	21.80	21.89	21.53	
20	16QAM	50	50	21.69	21.90	21.51	
20	16QAM	100	0	21.68	21.77	21.55	23
20	64QAM	1	0	21.75	21.93	21.52	
20	64QAM	1	49	21.52	21.81	21.42	
20	64QAM	1	99	21.54	21.78	21.48	22
20	64QAM	50	0	20.96	21.08	20.84	
20	64QAM	50	24	20.98	20.74	20.78	
20	64QAM	50	50	20.98	20.94	20.72	20
20	64QAM	100	0	20.89	21.20	20.77	
20	256QAM	1	0	19.74	19.84	19.43	
20	256QAM	1	49	19.25	19.94	19.39	20
20	256QAM	1	99	19.25	19.53	19.28	
20	256QAM	50	0	19.35	19.52	19.24	
20	256QAM	50	24	19.24	19.21	19.01	20
20	256QAM	50	50	19.18	19.19	19.14	
20	256QAM	100	0	19.40	19.46	19.10	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	21.93	21.66	21.61	
15	QPSK	1	37	21.65	21.54	21.66	23.1
15	QPSK	1	74	21.54	21.66	21.34	
15	QPSK	36	0	21.79	21.66	21.47	
15	QPSK	36	20	21.61	21.73	21.46	23.1
15	QPSK	36	39	21.50	21.63	21.63	
15	QPSK	75	0	21.70	21.62	21.38	
15	16QAM	1	0	21.85	21.58	21.53	23.1
15	16QAM	1	37	21.70	21.65	21.45	
15	16QAM	1	74	21.58	21.53	21.24	
15	16QAM	36	0	21.71	21.85	21.39	23
15	16QAM	36	20	21.63	21.84	21.48	
15	16QAM	36	39	21.56	21.88	21.47	
15	16QAM	75	0	21.84	21.47	21.38	23
15	64QAM	1	0	21.84	21.83	21.44	
15	64QAM	1	37	21.35	21.87	21.45	
15	64QAM	1	74	21.29	21.68	21.33	22
15	64QAM	36	0	20.90	20.94	20.58	
15	64QAM	36	20	20.98	20.71	20.53	
15	64QAM	36	39	20.80	20.78	20.43	20
15	64QAM	75	0	20.83	21.22	20.55	
15	256QAM	1	0	19.74	19.90	19.28	
15	256QAM	1	37	19.11	19.71	19.28	20
15	256QAM	1	74	19.24	19.46	19.34	
15	256QAM	36	0	19.14	19.32	19.12	
15	256QAM	36	20	19.23	19.00	18.93	20



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15	256QAM	36	39	19.20	19.11	18.87	Tune-up limit (dBm)
15	256QAM	75	0	19.19	19.39	18.98	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	21.61	21.59	21.72	23.1
10	QPSK	1	25	21.69	21.57	21.41	
10	QPSK	1	49	21.66	21.60	21.28	
10	QPSK	25	0	21.74	21.62	21.52	23.1
10	QPSK	25	12	21.86	21.68	21.56	
10	QPSK	25	25	21.58	21.64	21.40	
10	QPSK	50	0	21.59	21.61	21.47	
10	16QAM	1	0	21.70	21.57	21.59	23.1
10	16QAM	1	25	21.56	21.74	21.35	
10	16QAM	1	49	21.58	21.42	21.36	
10	16QAM	25	0	21.56	21.80	21.49	23
10	16QAM	25	12	21.85	21.96	21.38	
10	16QAM	25	25	21.75	21.92	21.48	
10	16QAM	50	0	21.57	21.58	21.49	
10	64QAM	1	0	21.60	21.89	21.50	23
10	64QAM	1	25	21.25	21.83	21.43	
10	64QAM	1	49	21.44	21.69	21.37	
10	64QAM	25	0	20.94	21.03	20.65	22
10	64QAM	25	12	20.90	20.63	20.77	
10	64QAM	25	25	20.85	20.68	20.60	
10	64QAM	50	0	20.87	20.99	20.54	
10	256QAM	1	0	19.64	19.61	19.27	20
10	256QAM	1	25	19.21	19.75	19.21	
10	256QAM	1	49	19.09	19.50	19.07	
10	256QAM	25	0	19.19	19.48	19.12	20
10	256QAM	25	12	19.15	19.16	19.02	
10	256QAM	25	25	19.26	19.00	18.83	
10	256QAM	50	0	19.33	19.47	19.00	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	21.65	21.70	21.61	23.1
5	QPSK	1	12	21.54	21.68	21.57	
5	QPSK	1	24	21.69	21.49	21.38	
5	QPSK	12	0	21.61	21.72	21.52	23.1
5	QPSK	12	7	21.85	21.64	21.41	
5	QPSK	12	13	21.70	21.41	21.54	
5	QPSK	25	0	21.69	21.72	21.46	
5	16QAM	1	0	21.83	21.73	21.62	23.1
5	16QAM	1	12	21.65	21.59	21.49	
5	16QAM	1	24	21.74	21.47	21.21	
5	16QAM	12	0	21.80	21.91	21.47	23
5	16QAM	12	7	21.63	21.83	21.49	
5	16QAM	12	13	21.72	21.90	21.34	
5	16QAM	25	0	21.75	21.55	21.55	
5	64QAM	1	0	21.73	21.85	21.32	23
5	64QAM	1	12	21.40	21.87	21.39	
5	64QAM	1	24	21.24	21.61	21.25	
5	64QAM	12	0	20.98	21.02	20.66	22
5	64QAM	12	7	20.89	20.79	20.64	
5	64QAM	12	13	20.86	20.72	20.58	
5	64QAM	25	0	20.95	21.08	20.59	
5	256QAM	1	0	19.49	19.65	19.43	20
5	256QAM	1	12	19.32	19.84	19.31	
5	256QAM	1	24	19.25	19.47	19.16	
5	256QAM	12	0	19.23	19.35	19.00	20
5	256QAM	12	7	19.17	19.05	19.01	
5	256QAM	12	13	19.13	19.06	19.17	
5	256QAM	25	0	19.26	19.46	18.83	



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Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	21.87	21.62	21.49	23.1
3	QPSK	1	8	21.57	21.65	21.57	
3	QPSK	1	14	21.44	21.61	21.38	
3	QPSK	8	0	21.79	21.63	21.46	23.1
3	QPSK	8	4	21.79	21.80	21.45	
3	QPSK	8	7	21.57	21.50	21.45	
3	QPSK	15	0	21.81	21.67	21.39	
3	16QAM	1	0	21.68	21.74	21.59	23.1
3	16QAM	1	8	21.77	21.64	21.34	
3	16QAM	1	14	21.59	21.47	21.34	
3	16QAM	8	0	21.82	21.89	21.47	23
3	16QAM	8	4	21.84	21.81	21.36	
3	16QAM	8	7	21.67	21.82	21.31	
3	16QAM	15	0	21.70	21.65	21.48	
3	64QAM	1	0	21.81	21.88	21.60	23
3	64QAM	1	8	21.33	21.86	21.52	
3	64QAM	1	14	21.31	21.64	21.37	
3	64QAM	8	0	20.95	21.03	20.75	22
3	64QAM	8	4	20.71	20.70	20.58	
3	64QAM	8	7	20.80	20.77	20.42	
3	64QAM	15	0	20.73	21.06	20.59	
3	256QAM	1	0	19.46	19.75	19.15	20
3	256QAM	1	8	19.18	19.79	19.34	
3	256QAM	1	14	19.18	19.41	19.25	
3	256QAM	8	0	19.09	19.41	18.92	20
3	256QAM	8	4	19.29	19.22	19.06	
3	256QAM	8	7	19.31	19.01	19.14	
3	256QAM	15	0	19.13	19.29	18.92	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	21.76	21.75	21.50	23.1
1.4	QPSK	1	3	21.61	21.53	21.50	
1.4	QPSK	1	5	21.71	21.65	21.31	
1.4	QPSK	3	0	21.69	21.70	21.74	
1.4	QPSK	3	1	21.65	21.68	21.42	
1.4	QPSK	3	3	21.67	21.60	21.45	
1.4	QPSK	6	0	21.85	21.86	21.43	23.1
1.4	16QAM	1	0	21.77	21.70	21.58	23.1
1.4	16QAM	1	3	21.59	21.57	21.57	
1.4	16QAM	1	5	21.68	21.60	21.58	
1.4	16QAM	3	0	21.87	21.78	21.83	
1.4	16QAM	3	1	21.81	21.95	21.62	
1.4	16QAM	3	3	21.86	21.85	21.69	
1.4	16QAM	6	0	21.45	21.79	21.19	23
1.4	64QAM	1	0	21.42	21.67	21.06	23
1.4	64QAM	1	3	21.23	21.67	21.20	
1.4	64QAM	1	5	21.33	21.39	21.38	
1.4	64QAM	3	0	21.67	21.87	21.55	
1.4	64QAM	3	1	21.44	21.88	21.48	
1.4	64QAM	3	3	21.40	21.65	21.44	
1.4	64QAM	6	0	20.72	20.96	20.66	22
1.4	256QAM	1	0	19.42	19.68	19.29	20
1.4	256QAM	1	3	19.14	19.72	19.24	
1.4	256QAM	1	5	19.16	19.53	19.18	
1.4	256QAM	3	0	19.16	19.33	19.12	
1.4	256QAM	3	1	19.32	19.04	19.07	
1.4	256QAM	3	3	19.28	19.09	18.95	
1.4	256QAM	6	0	19.32	19.56	19.09	20



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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)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	17.24	17.22	17.20	
20	QPSK	1	49	17.09	17.17	17.18	17.4
20	QPSK	1	99	17.07	17.09	17.09	
20	QPSK	50	0	17.23	17.17	17.19	
20	QPSK	50	24	17.19	17.11	17.19	17.4
20	QPSK	50	50	17.13	17.16	17.16	
20	QPSK	100	0	17.20	17.18	17.19	
20	16QAM	1	0	17.20	17.20	17.11	17.4
20	16QAM	1	49	17.10	17.07	17.08	
20	16QAM	1	99	17.09	16.99	17.04	
20	16QAM	50	0	17.19	17.23	17.23	17.4
20	16QAM	50	24	17.21	17.22	17.23	
20	16QAM	50	50	17.17	17.17	17.21	
20	16QAM	100	0	17.17	17.20	17.22	17.4
20	64QAM	1	0	17.17	17.05	17.04	
20	64QAM	1	49	16.89	16.87	16.98	
20	64QAM	1	99	17.02	16.98	17.03	17.4
20	64QAM	50	0	17.20	17.20	17.19	
20	64QAM	50	24	17.20	17.22	17.19	
20	64QAM	50	50	17.18	17.19	17.21	17.4
20	64QAM	100	0	17.23	17.21	17.20	
20	256QAM	1	0	17.10	16.89	16.93	
20	256QAM	1	49	16.84	16.86	16.88	17.4
20	256QAM	1	99	16.89	16.88	17.01	
20	256QAM	50	0	17.07	17.17	17.08	
20	256QAM	50	24	17.11	17.20	17.14	17.4
20	256QAM	50	50	17.11	17.06	17.20	
20	256QAM	100	0	17.19	17.10	17.13	
Channel				26115	26340	26615	
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	17.06	17.16	17.19	
15	QPSK	1	37	16.94	17.01	17.00	17.4
15	QPSK	1	74	16.89	17.07	16.97	
15	QPSK	36	0	17.08	17.02	17.05	
15	QPSK	36	20	17.15	17.04	17.06	17.4
15	QPSK	36	39	17.10	17.05	16.98	
15	QPSK	75	0	17.11	17.18	17.00	
15	16QAM	1	0	17.04	17.02	17.03	17.4
15	16QAM	1	37	16.91	17.04	16.91	
15	16QAM	1	74	17.07	16.96	17.00	
15	16QAM	36	0	17.13	17.10	17.23	17.4
15	16QAM	36	20	17.15	17.10	17.15	
15	16QAM	36	39	17.15	17.01	17.21	
15	16QAM	75	0	17.14	17.14	17.18	17.4
15	64QAM	1	0	17.08	16.93	16.95	
15	64QAM	1	37	16.77	16.67	16.79	
15	64QAM	1	74	17.01	16.88	16.96	17.4
15	64QAM	36	0	17.12	17.17	17.12	
15	64QAM	36	20	17.18	17.21	17.03	
15	64QAM	36	39	17.01	17.01	17.12	17.4
15	64QAM	75	0	17.06	17.09	17.14	
15	256QAM	1	0	16.97	16.78	16.82	
15	256QAM	1	37	16.74	16.76	16.68	17.4
15	256QAM	1	74	16.83	16.81	16.95	
15	256QAM	36	0	17.03	17.03	17.01	
15	256QAM	36	20	17.00	17.18	16.96	17.4



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15	256QAM	36	39	17.08	16.89	17.08	Tune-up limit (dBm)
15	256QAM	75	0	17.09	16.99	16.95	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	17.13	17.12	17.05	17.4
10	QPSK	1	25	16.90	17.12	17.05	
10	QPSK	1	49	16.97	16.93	16.94	
10	QPSK	25	0	17.11	17.00	17.19	17.4
10	QPSK	25	12	17.06	17.06	17.07	
10	QPSK	25	25	17.08	17.01	17.10	
10	QPSK	50	0	17.06	17.16	17.10	
10	16QAM	1	0	17.00	17.07	17.06	17.4
10	16QAM	1	25	17.10	17.03	17.04	
10	16QAM	1	49	17.03	16.84	17.00	
10	16QAM	25	0	17.15	17.07	17.11	17.4
10	16QAM	25	12	17.15	17.22	17.07	
10	16QAM	25	25	17.01	17.01	17.05	
10	16QAM	50	0	17.17	17.05	17.14	
10	64QAM	1	0	17.02	16.91	16.98	17.4
10	64QAM	1	25	16.89	16.80	16.89	
10	64QAM	1	49	16.87	16.86	16.83	
10	64QAM	25	0	17.04	17.10	17.16	17.4
10	64QAM	25	12	17.13	17.03	17.07	
10	64QAM	25	25	17.12	17.05	17.19	
10	64QAM	50	0	17.04	17.12	17.17	
10	256QAM	1	0	17.02	16.76	16.88	17.4
10	256QAM	1	25	16.84	16.83	16.86	
10	256QAM	1	49	16.77	16.77	16.88	
10	256QAM	25	0	16.92	17.07	17.05	17.4
10	256QAM	25	12	16.96	17.12	17.13	
10	256QAM	25	25	17.07	17.03	17.17	
10	256QAM	50	0	16.99	17.05	17.01	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	17.06	17.20	17.00	17.4
5	QPSK	1	12	17.09	17.09	17.06	
5	QPSK	1	24	16.90	17.08	17.05	
5	QPSK	12	0	17.11	17.04	17.16	17.4
5	QPSK	12	7	17.08	17.04	17.17	
5	QPSK	12	13	17.09	17.16	17.14	
5	QPSK	25	0	17.11	17.13	17.00	
5	16QAM	1	0	17.04	17.08	16.93	17.4
5	16QAM	1	12	16.95	16.95	17.00	
5	16QAM	1	24	16.96	16.92	16.86	
5	16QAM	12	0	17.19	17.06	17.17	17.4
5	16QAM	12	7	17.15	17.09	17.07	
5	16QAM	12	13	17.02	17.02	17.12	
5	16QAM	25	0	17.15	17.10	17.05	
5	64QAM	1	0	17.17	16.89	16.94	17.4
5	64QAM	1	12	16.84	16.83	16.92	
5	64QAM	1	24	16.94	16.98	17.00	
5	64QAM	12	0	17.08	17.17	16.99	17.4
5	64QAM	12	7	17.19	17.20	17.15	
5	64QAM	12	13	17.12	17.17	17.17	
5	64QAM	25	0	17.10	17.02	17.20	
5	256QAM	1	0	16.90	16.75	16.74	17.4
5	256QAM	1	12	16.70	16.69	16.69	
5	256QAM	1	24	16.89	16.82	17.01	
5	256QAM	12	0	16.95	17.02	17.02	17.4
5	256QAM	12	7	16.97	17.04	17.00	
5	256QAM	12	13	16.97	17.02	17.10	
5	256QAM	25	0	17.11	16.97	17.11	



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Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	17.09	17.10	17.07	17.4
3	QPSK	1	8	17.06	17.14	16.99	
3	QPSK	1	14	16.87	16.90	17.03	
3	QPSK	8	0	17.15	17.11	17.05	17.4
3	QPSK	8	4	17.11	17.10	17.16	
3	QPSK	8	7	17.07	16.98	17.08	
3	QPSK	15	0	17.20	17.09	16.99	
3	16QAM	1	0	17.09	17.16	17.05	17.4
3	16QAM	1	8	17.06	16.88	17.01	
3	16QAM	1	14	17.09	16.89	17.02	
3	16QAM	8	0	17.10	17.08	17.22	17.4
3	16QAM	8	4	17.11	17.16	17.11	
3	16QAM	8	7	17.01	17.07	17.16	
3	16QAM	15	0	17.12	17.16	17.13	
3	64QAM	1	0	17.01	17.00	16.86	17.4
3	64QAM	1	8	16.70	16.70	16.78	
3	64QAM	1	14	16.86	16.80	16.98	
3	64QAM	8	0	17.03	17.18	17.00	17.4
3	64QAM	8	4	17.15	17.18	17.15	
3	64QAM	8	7	17.11	17.07	17.13	
3	64QAM	15	0	17.12	17.06	17.05	
3	256QAM	1	0	17.08	16.88	16.82	17.4
3	256QAM	1	8	16.81	16.85	16.72	
3	256QAM	1	14	16.70	16.68	17.01	
3	256QAM	8	0	16.97	17.11	16.96	17.4
3	256QAM	8	4	16.96	17.03	17.01	
3	256QAM	8	7	17.09	17.02	17.19	
3	256QAM	15	0	17.11	17.04	16.99	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	17.20	17.06	17.19	17.4
1.4	QPSK	1	3	16.99	17.13	17.16	
1.4	QPSK	1	5	17.05	16.89	17.06	
1.4	QPSK	3	0	17.16	17.09	17.06	
1.4	QPSK	3	1	17.17	17.03	17.16	
1.4	QPSK	3	3	17.06	17.02	17.03	
1.4	QPSK	6	0	17.19	17.14	17.16	
1.4	16QAM	1	0	17.06	17.00	17.11	17.4
1.4	16QAM	1	3	17.03	17.01	16.99	
1.4	16QAM	1	5	16.98	16.94	17.01	
1.4	16QAM	3	0	17.15	17.03	17.13	
1.4	16QAM	3	1	17.04	17.17	17.22	
1.4	16QAM	3	3	17.00	17.06	17.16	
1.4	16QAM	6	0	17.07	17.17	17.13	17.4
1.4	64QAM	1	0	17.13	16.86	16.87	17.4
1.4	64QAM	1	3	16.86	16.72	16.93	
1.4	64QAM	1	5	16.91	16.94	16.86	
1.4	64QAM	3	0	17.00	17.00	17.04	
1.4	64QAM	3	1	17.07	17.12	17.06	
1.4	64QAM	3	3	17.11	17.16	17.14	
1.4	64QAM	6	0	17.10	17.16	17.11	17.4
1.4	256QAM	1	0	16.98	16.76	16.79	17.4
1.4	256QAM	1	3	16.68	16.72	16.86	
1.4	256QAM	1	5	16.88	16.76	17.01	
1.4	256QAM	3	0	16.88	17.04	16.92	
1.4	256QAM	3	1	16.97	17.17	17.10	
1.4	256QAM	3	3	16.99	17.03	17.17	
1.4	256QAM	6	0	17.00	17.01	17.06	17.4



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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)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	17.00	17.05	17.06	
20	QPSK	1	49	16.86	16.86	16.89	17.4
20	QPSK	1	99	16.88	16.87	16.87	
20	QPSK	50	0	16.93	16.98	17.05	
20	QPSK	50	24	16.92	16.93	16.93	17.4
20	QPSK	50	50	16.93	16.89	16.93	
20	QPSK	100	0	16.95	16.94	16.97	
20	16QAM	1	0	17.01	16.88	16.85	17.4
20	16QAM	1	49	16.89	16.70	16.77	
20	16QAM	1	99	16.85	16.78	16.77	
20	16QAM	50	0	17.03	16.99	16.99	17.4
20	16QAM	50	24	17.01	16.98	16.92	
20	16QAM	50	50	16.99	16.93	16.94	
20	16QAM	100	0	16.99	16.95	16.93	17.4
20	64QAM	1	0	16.87	16.74	16.69	
20	64QAM	1	49	16.81	16.67	16.67	
20	64QAM	1	99	16.69	16.73	16.68	17.4
20	64QAM	50	0	17.01	17.03	16.97	
20	64QAM	50	24	17.03	16.98	16.97	
20	64QAM	50	50	17.01	16.92	16.95	17.4
20	64QAM	100	0	17.03	16.95	16.95	
20	256QAM	1	0	16.91	16.84	16.83	
20	256QAM	1	49	16.73	16.86	16.74	17.4
20	256QAM	1	99	16.74	16.83	16.72	
20	256QAM	50	0	16.70	16.59	16.51	
20	256QAM	50	24	16.73	16.66	16.61	17.4
20	256QAM	50	50	16.71	16.64	16.62	
20	256QAM	100	0	16.62	16.60	16.65	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	16.94	17.05	16.95	
15	QPSK	1	37	16.78	16.67	16.86	17.4
15	QPSK	1	74	16.70	16.80	16.73	
15	QPSK	36	0	16.77	16.95	16.94	
15	QPSK	36	20	16.77	16.77	16.91	17.4
15	QPSK	36	39	16.83	16.75	16.76	
15	QPSK	75	0	16.80	16.92	16.91	
15	16QAM	1	0	16.93	16.71	16.80	17.4
15	16QAM	1	37	16.84	16.70	16.61	
15	16QAM	1	74	16.66	16.60	16.60	
15	16QAM	36	0	16.96	16.83	16.99	17.4
15	16QAM	36	20	16.90	16.97	16.78	
15	16QAM	36	39	16.91	16.78	16.86	
15	16QAM	75	0	16.97	16.84	16.80	17.4
15	64QAM	1	0	16.85	16.68	16.67	
15	64QAM	1	37	16.65	16.67	16.65	
15	64QAM	1	74	16.61	16.72	16.65	17.4
15	64QAM	36	0	16.84	17.01	16.89	
15	64QAM	36	20	16.93	16.78	16.93	
15	64QAM	36	39	16.89	16.89	16.81	17.4
15	64QAM	75	0	16.86	16.88	16.78	
15	256QAM	1	0	16.74	16.70	16.64	
15	256QAM	1	37	16.66	16.78	16.73	17.4
15	256QAM	1	74	16.67	16.79	16.68	
15	256QAM	36	0	16.58	16.56	16.35	
15	256QAM	36	20	16.59	16.46	16.52	17.4



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15	256QAM	36	39	16.70	16.61	16.42	
15	256QAM	75	0	16.46	16.59	16.54	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	16.95	16.89	16.95	17.4
10	QPSK	1	25	16.85	16.74	16.69	
10	QPSK	1	49	16.71	16.87	16.75	
10	QPSK	25	0	16.73	16.88	16.86	17.4
10	QPSK	25	12	16.73	16.89	16.83	
10	QPSK	25	25	16.88	16.75	16.84	
10	QPSK	50	0	16.79	16.84	16.81	
10	16QAM	1	0	16.96	16.73	16.84	17.4
10	16QAM	1	25	16.80	16.50	16.64	
10	16QAM	1	49	16.78	16.65	16.75	
10	16QAM	25	0	16.92	16.88	16.99	17.4
10	16QAM	25	12	16.95	16.85	16.92	
10	16QAM	25	25	16.83	16.76	16.76	
10	16QAM	50	0	16.84	16.80	16.90	
10	64QAM	1	0	16.85	16.70	16.58	17.4
10	64QAM	1	25	16.65	16.59	16.49	
10	64QAM	1	49	16.53	16.69	16.57	
10	64QAM	25	0	16.96	16.99	16.96	17.4
10	64QAM	25	12	16.89	16.78	16.94	
10	64QAM	25	25	16.89	16.80	16.91	
10	64QAM	50	0	16.94	16.85	16.81	
10	256QAM	1	0	16.82	16.67	16.79	17.4
10	256QAM	1	25	16.70	16.68	16.68	
10	256QAM	1	49	16.60	16.76	16.60	
10	256QAM	25	0	16.66	16.50	16.50	17.4
10	256QAM	25	12	16.55	16.55	16.61	
10	256QAM	25	25	16.62	16.53	16.49	
10	256QAM	50	0	16.59	16.48	16.65	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	16.99	16.95	17.01	17.4
5	QPSK	1	12	16.75	16.77	16.78	
5	QPSK	1	24	16.68	16.68	16.78	
5	QPSK	12	0	16.88	16.94	16.89	17.4
5	QPSK	12	7	16.91	16.88	16.85	
5	QPSK	12	13	16.90	16.73	16.87	
5	QPSK	25	0	16.81	16.85	16.93	
5	16QAM	1	0	17.00	16.88	16.70	17.4
5	16QAM	1	12	16.77	16.54	16.62	
5	16QAM	1	24	16.85	16.71	16.69	
5	16QAM	12	0	16.93	16.79	16.93	17.4
5	16QAM	12	7	17.00	16.80	16.90	
5	16QAM	12	13	16.96	16.85	16.74	
5	16QAM	25	0	16.85	16.83	16.86	
5	64QAM	1	0	16.69	16.60	16.60	17.4
5	64QAM	1	12	16.77	16.63	16.58	
5	64QAM	1	24	16.53	16.58	16.50	
5	64QAM	12	0	16.92	17.00	16.94	17.4
5	64QAM	12	7	16.92	16.84	16.87	
5	64QAM	12	13	16.96	16.90	16.86	
5	64QAM	25	0	16.84	16.87	16.79	
5	256QAM	1	0	16.90	16.83	16.63	17.4
5	256QAM	1	12	16.68	16.82	16.69	
5	256QAM	1	24	16.58	16.72	16.52	
5	256QAM	12	0	16.66	16.49	16.36	17.4
5	256QAM	12	7	16.64	16.47	16.56	
5	256QAM	12	13	16.61	16.46	16.44	
5	256QAM	25	0	16.44	16.59	16.50	



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Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	16.95	16.97	16.97	17.4
3	QPSK	1	8	16.71	16.82	16.81	
3	QPSK	1	14	16.86	16.87	16.84	
3	QPSK	8	0	16.74	16.82	17.05	17.4
3	QPSK	8	4	16.77	16.76	16.81	
3	QPSK	8	7	16.78	16.76	16.75	
3	QPSK	15	0	16.92	16.87	16.77	
3	16QAM	1	0	17.01	16.77	16.76	17.4
3	16QAM	1	8	16.70	16.63	16.65	
3	16QAM	1	14	16.78	16.73	16.61	
3	16QAM	8	0	16.83	16.91	16.98	17.4
3	16QAM	8	4	16.85	16.89	16.75	
3	16QAM	8	7	16.83	16.73	16.87	
3	16QAM	15	0	16.98	16.91	16.90	
3	64QAM	1	0	16.77	16.60	16.51	17.4
3	64QAM	1	8	16.70	16.47	16.66	
3	64QAM	1	14	16.55	16.55	16.59	
3	64QAM	8	0	16.93	16.99	16.97	17.4
3	64QAM	8	4	17.01	16.97	16.81	
3	64QAM	8	7	16.86	16.75	16.78	
3	64QAM	15	0	17.01	16.81	16.87	
3	256QAM	1	0	16.84	16.80	16.69	17.4
3	256QAM	1	8	16.59	16.77	16.57	
3	256QAM	1	14	16.72	16.71	16.54	
3	256QAM	8	0	16.51	16.48	16.44	17.4
3	256QAM	8	4	16.61	16.61	16.47	
3	256QAM	8	7	16.58	16.57	16.54	
3	256QAM	15	0	16.58	16.53	16.45	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	16.88	17.05	16.97	17.4
1.4	QPSK	1	3	16.74	16.82	16.83	
1.4	QPSK	1	5	16.74	16.68	16.77	
1.4	QPSK	3	0	16.80	16.92	16.90	
1.4	QPSK	3	1	16.84	16.90	16.80	
1.4	QPSK	3	3	16.81	16.82	16.85	
1.4	QPSK	6	0	16.87	16.86	16.96	
1.4	16QAM	1	0	16.93	16.80	16.76	17.4
1.4	16QAM	1	3	16.76	16.66	16.58	
1.4	16QAM	1	5	16.85	16.65	16.72	
1.4	16QAM	3	0	16.96	16.95	16.79	
1.4	16QAM	3	1	16.89	16.78	16.77	
1.4	16QAM	3	3	16.81	16.80	16.91	
1.4	16QAM	6	0	16.86	16.88	16.90	17.4
1.4	64QAM	1	0	16.75	16.74	16.59	17.4
1.4	64QAM	1	3	16.61	16.52	16.62	
1.4	64QAM	1	5	16.69	16.55	16.61	
1.4	64QAM	3	0	16.85	16.96	16.96	
1.4	64QAM	3	1	16.85	16.92	16.90	
1.4	64QAM	3	3	16.88	16.72	16.93	
1.4	64QAM	6	0	16.83	16.85	16.78	17.4
1.4	256QAM	1	0	16.74	16.72	16.65	17.4
1.4	256QAM	1	3	16.66	16.81	16.66	
1.4	256QAM	1	5	16.63	16.79	16.67	
1.4	256QAM	3	0	16.56	16.55	16.35	
1.4	256QAM	3	1	16.70	16.57	16.57	
1.4	256QAM	3	3	16.65	16.57	16.52	
1.4	256QAM	6	0	16.47	16.46	16.49	17.4



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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)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	19.46	19.34	19.35	
20	QPSK	1	49	19.24	19.25	19.31	20.1
20	QPSK	1	99	19.29	19.20	19.28	
20	QPSK	50	0	19.45	19.39	19.34	
20	QPSK	50	24	19.30	19.38	19.28	20.1
20	QPSK	50	50	19.26	19.32	19.27	
20	QPSK	100	0	19.29	19.20	19.17	
20	16QAM	1	0	19.27	19.39	19.28	20.1
20	16QAM	1	49	19.22	19.28	19.23	
20	16QAM	1	99	19.15	19.29	19.22	
20	16QAM	50	0	19.29	19.31	19.26	20.1
20	16QAM	50	24	19.21	19.37	19.22	
20	16QAM	50	50	19.23	19.32	19.23	
20	16QAM	100	0	19.26	19.38	19.31	20.1
20	64QAM	1	0	19.45	19.40	19.34	
20	64QAM	1	49	19.37	19.39	19.40	
20	64QAM	1	99	19.39	19.30	19.23	20.1
20	64QAM	50	0	19.24	19.32	19.13	
20	64QAM	50	24	19.23	19.38	19.28	
20	64QAM	50	50	19.25	19.22	19.20	20.1
20	64QAM	100	0	19.36	19.26	19.24	
20	256QAM	1	0	19.27	19.20	19.18	
20	256QAM	1	49	19.05	19.24	19.16	20.1
20	256QAM	1	99	19.12	19.19	18.95	
20	256QAM	50	0	19.15	19.17	18.95	
20	256QAM	50	24	19.19	19.02	18.96	20.1
20	256QAM	50	50	19.13	19.12	19.00	
20	256QAM	100	0	18.96	19.06	19.15	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	19.36	19.17	19.26	
15	QPSK	1	37	19.17	19.18	19.23	20.1
15	QPSK	1	74	19.21	19.27	19.18	
15	QPSK	36	0	19.39	19.37	19.21	
15	QPSK	36	20	19.14	19.29	19.25	20.1
15	QPSK	36	39	19.23	19.24	19.20	
15	QPSK	75	0	19.13	19.17	19.28	
15	16QAM	1	0	19.17	19.20	19.24	20.1
15	16QAM	1	37	19.16	19.15	19.22	
15	16QAM	1	74	19.22	19.14	19.18	
15	16QAM	36	0	19.18	19.21	19.16	20.1
15	16QAM	36	20	19.27	19.22	19.27	
15	16QAM	36	39	19.13	19.19	19.13	
15	16QAM	75	0	19.28	19.27	19.28	20.1
15	64QAM	1	0	19.33	19.37	19.16	
15	64QAM	1	37	19.23	19.34	19.37	
15	64QAM	1	74	19.25	19.27	19.23	20.1
15	64QAM	36	0	19.12	19.30	19.23	
15	64QAM	36	20	19.23	19.24	19.22	
15	64QAM	36	39	19.17	19.10	19.11	20.1
15	64QAM	75	0	19.35	19.12	19.23	
15	256QAM	1	0	19.27	19.10	19.04	
15	256QAM	1	37	19.00	19.17	19.01	20.1
15	256QAM	1	74	19.07	19.07	18.84	
15	256QAM	36	0	19.11	19.16	18.83	
15	256QAM	36	20	19.17	18.90	18.82	20.1



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15	256QAM	36	39	19.09	19.06	18.83	Tune-up limit (dBm)
15	256QAM	75	0	18.85	18.89	19.04	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	19.28	19.19	19.14	20.1
10	QPSK	1	25	19.12	19.22	19.11	
10	QPSK	1	49	19.11	19.15	19.20	
10	QPSK	25	0	19.38	19.20	19.23	20.1
10	QPSK	25	12	19.21	19.37	19.22	
10	QPSK	25	25	19.20	19.32	19.21	
10	QPSK	50	0	19.16	19.15	19.10	
10	16QAM	1	0	19.10	19.38	19.25	20.1
10	16QAM	1	25	19.11	19.12	19.18	
10	16QAM	1	49	19.28	19.13	19.13	
10	16QAM	25	0	19.10	19.12	19.17	20.1
10	16QAM	25	12	19.16	19.33	19.16	
10	16QAM	25	25	19.11	19.22	19.15	
10	16QAM	50	0	19.21	19.18	19.30	
10	64QAM	1	0	19.41	19.31	19.16	20.1
10	64QAM	1	25	19.22	19.21	19.38	
10	64QAM	1	49	19.29	19.27	19.15	
10	64QAM	25	0	19.20	19.15	19.19	20.1
10	64QAM	25	12	19.22	19.22	19.13	
10	64QAM	25	25	19.05	19.20	19.20	
10	64QAM	50	0	19.28	19.19	19.06	
10	256QAM	1	0	19.14	19.05	19.06	20.1
10	256QAM	1	25	18.99	19.06	19.03	
10	256QAM	1	49	18.96	19.11	18.94	
10	256QAM	25	0	19.03	19.10	18.85	20.1
10	256QAM	25	12	19.14	18.92	18.88	
10	256QAM	25	25	19.06	18.98	18.82	
10	256QAM	50	0	18.86	19.01	19.11	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	19.43	19.14	19.28	20.1
5	QPSK	1	12	19.14	19.16	19.31	
5	QPSK	1	24	19.17	19.21	19.23	
5	QPSK	12	0	19.29	19.29	19.15	20.1
5	QPSK	12	7	19.13	19.19	19.23	
5	QPSK	12	13	19.16	19.32	19.25	
5	QPSK	25	0	19.17	19.14	19.12	
5	16QAM	1	0	19.21	19.23	19.27	20.1
5	16QAM	1	12	19.15	19.15	19.14	
5	16QAM	1	24	19.16	19.13	19.21	
5	16QAM	12	0	19.29	19.13	19.15	20.1
5	16QAM	12	7	19.22	19.35	19.14	
5	16QAM	12	13	19.15	19.20	19.16	
5	16QAM	25	0	19.23	19.20	19.12	
5	64QAM	1	0	19.35	19.40	19.24	20.1
5	64QAM	1	12	19.29	19.23	19.32	
5	64QAM	1	24	19.20	19.20	19.21	
5	64QAM	12	0	19.10	19.13	19.12	20.1
5	64QAM	12	7	19.03	19.23	19.27	
5	64QAM	12	13	19.20	19.14	19.09	
5	64QAM	25	0	19.17	19.24	19.24	
5	256QAM	1	0	19.17	19.14	19.11	20.1
5	256QAM	1	12	19.04	19.13	19.11	
5	256QAM	1	24	19.10	19.09	18.86	
5	256QAM	12	0	19.05	19.15	18.82	20.1
5	256QAM	12	7	19.04	18.88	18.87	
5	256QAM	12	13	19.04	18.95	18.88	
5	256QAM	25	0	18.77	18.99	19.09	
Channel				26055	26340	26675	Tune-up limit



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Frequency (MHz)				1851.5	1880	1913.5	(dBm)
3	QPSK	1	0	19.44	19.12	19.19	20.1
3	QPSK	1	8	19.13	19.11	19.13	
3	QPSK	1	14	19.22	19.15	19.16	
3	QPSK	8	0	19.32	19.25	19.19	20.1
3	QPSK	8	4	19.21	19.29	19.28	
3	QPSK	8	7	19.17	19.18	19.13	
3	QPSK	15	0	19.22	19.18	19.12	
3	16QAM	1	0	19.18	19.27	19.28	20.1
3	16QAM	1	8	19.17	19.19	19.12	
3	16QAM	1	14	19.11	19.24	19.19	
3	16QAM	8	0	19.23	19.31	19.19	20.1
3	16QAM	8	4	19.25	19.24	19.19	
3	16QAM	8	7	19.18	19.15	19.13	
3	16QAM	15	0	19.25	19.34	19.29	
3	64QAM	1	0	19.32	19.22	19.16	20.1
3	64QAM	1	8	19.18	19.34	19.21	
3	64QAM	1	14	19.38	19.21	19.11	
3	64QAM	8	0	19.24	19.19	19.17	20.1
3	64QAM	8	4	19.16	19.20	19.10	
3	64QAM	8	7	19.24	19.17	19.17	
3	64QAM	15	0	19.34	19.07	19.23	
3	256QAM	1	0	19.25	19.11	19.15	20.1
3	256QAM	1	8	18.89	19.19	19.04	
3	256QAM	1	14	18.94	19.13	18.95	
3	256QAM	8	0	19.07	19.13	18.90	20.1
3	256QAM	8	4	19.19	18.92	18.87	
3	256QAM	8	7	18.94	18.96	18.86	
3	256QAM	15	0	18.94	18.93	19.04	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	19.45	19.23	19.24	20.1
1.4	QPSK	1	3	19.25	19.26	19.16	
1.4	QPSK	1	5	19.18	19.15	19.21	
1.4	QPSK	3	0	19.35	19.28	19.26	
1.4	QPSK	3	1	19.18	19.26	19.14	
1.4	QPSK	3	3	19.26	19.18	19.27	
1.4	QPSK	6	0	19.24	19.13	19.24	20.1
1.4	16QAM	1	0	19.10	19.38	19.18	20.1
1.4	16QAM	1	3	19.22	19.20	19.24	
1.4	16QAM	1	5	19.27	19.13	19.28	
1.4	16QAM	3	0	19.15	19.19	19.12	
1.4	16QAM	3	1	19.17	19.18	19.26	
1.4	16QAM	3	3	19.25	19.12	19.29	
1.4	16QAM	6	0	19.14	19.24	19.20	20.1
1.4	64QAM	1	0	19.34	19.29	19.20	20.1
1.4	64QAM	1	3	19.37	19.32	19.31	
1.4	64QAM	1	5	19.32	19.16	19.15	
1.4	64QAM	3	0	19.24	19.19	19.26	
1.4	64QAM	3	1	19.12	19.23	19.26	
1.4	64QAM	3	3	19.14	19.14	19.14	
1.4	64QAM	6	0	19.23	19.21	19.24	20.1
1.4	256QAM	1	0	19.23	19.19	19.09	20.1
1.4	256QAM	1	3	18.97	19.12	18.97	
1.4	256QAM	1	5	18.95	19.05	18.86	
1.4	256QAM	3	0	19.00	18.99	18.93	
1.4	256QAM	3	1	19.00	18.90	18.83	
1.4	256QAM	3	3	19.13	19.05	18.91	
1.4	256QAM	6	0	18.92	19.00	19.03	20.1



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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)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	21.97	21.94	21.73	
20	QPSK	1	49	21.79	21.62	21.52	22.3
20	QPSK	1	99	21.75	21.60	21.47	
20	QPSK	50	0	21.95	21.77	21.66	
20	QPSK	50	24	21.86	21.65	21.56	22.3
20	QPSK	50	50	21.75	21.70	21.50	
20	QPSK	100	0	21.88	21.77	21.48	
20	16QAM	1	0	21.83	21.83	21.61	22.3
20	16QAM	1	49	21.69	21.83	21.41	
20	16QAM	1	99	21.64	21.67	21.55	
20	16QAM	50	0	21.86	21.87	21.60	22.3
20	16QAM	50	24	21.80	21.89	21.53	
20	16QAM	50	50	21.69	21.90	21.51	
20	16QAM	100	0	21.68	21.77	21.55	22.3
20	64QAM	1	0	21.75	21.93	21.52	
20	64QAM	1	49	21.52	21.81	21.42	
20	64QAM	1	99	21.54	21.78	21.48	22
20	64QAM	50	0	20.96	21.08	20.84	
20	64QAM	50	24	20.98	20.74	20.78	
20	64QAM	50	50	20.98	20.94	20.72	20
20	64QAM	100	0	20.89	21.20	20.77	
20	256QAM	1	0	19.74	19.84	19.43	
20	256QAM	1	49	19.25	19.94	19.39	20
20	256QAM	1	99	19.25	19.53	19.28	
20	256QAM	50	0	19.35	19.52	19.24	
20	256QAM	50	24	19.24	19.21	19.01	20
20	256QAM	50	50	19.18	19.19	19.14	
20	256QAM	100	0	19.40	19.46	19.10	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	21.93	21.66	21.61	
15	QPSK	1	37	21.65	21.54	21.66	22.3
15	QPSK	1	74	21.54	21.66	21.34	
15	QPSK	36	0	21.79	21.66	21.47	
15	QPSK	36	20	21.61	21.73	21.46	22.3
15	QPSK	36	39	21.50	21.63	21.63	
15	QPSK	75	0	21.70	21.62	21.38	
15	16QAM	1	0	21.85	21.58	21.53	22.3
15	16QAM	1	37	21.70	21.65	21.45	
15	16QAM	1	74	21.58	21.53	21.24	
15	16QAM	36	0	21.71	21.85	21.39	22.3
15	16QAM	36	20	21.63	21.84	21.48	
15	16QAM	36	39	21.56	21.88	21.47	
15	16QAM	75	0	21.84	21.47	21.38	22.3
15	64QAM	1	0	21.84	21.83	21.44	
15	64QAM	1	37	21.35	21.87	21.45	
15	64QAM	1	74	21.29	21.68	21.33	22
15	64QAM	36	0	20.90	20.94	20.58	
15	64QAM	36	20	20.98	20.71	20.53	
15	64QAM	36	39	20.80	20.78	20.43	20
15	64QAM	75	0	20.83	21.22	20.55	
15	256QAM	1	0	19.74	19.90	19.28	
15	256QAM	1	37	19.11	19.71	19.28	20
15	256QAM	1	74	19.24	19.46	19.34	
15	256QAM	36	0	19.14	19.32	19.12	
15	256QAM	36	20	19.23	19.00	18.93	20



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15	256QAM	36	39	19.20	19.11	18.87	Tune-up limit (dBm)
15	256QAM	75	0	19.19	19.39	18.98	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	21.61	21.59	21.72	22.3
10	QPSK	1	25	21.69	21.57	21.41	
10	QPSK	1	49	21.66	21.60	21.28	
10	QPSK	25	0	21.74	21.62	21.52	22.3
10	QPSK	25	12	21.86	21.68	21.56	
10	QPSK	25	25	21.58	21.64	21.40	
10	QPSK	50	0	21.59	21.61	21.47	
10	16QAM	1	0	21.70	21.57	21.59	22.3
10	16QAM	1	25	21.56	21.74	21.35	
10	16QAM	1	49	21.58	21.42	21.36	
10	16QAM	25	0	21.56	21.80	21.49	22.3
10	16QAM	25	12	21.85	21.96	21.38	
10	16QAM	25	25	21.75	21.92	21.48	
10	16QAM	50	0	21.57	21.58	21.49	
10	64QAM	1	0	21.60	21.89	21.50	22.3
10	64QAM	1	25	21.25	21.83	21.43	
10	64QAM	1	49	21.44	21.69	21.37	
10	64QAM	25	0	20.94	21.03	20.65	22
10	64QAM	25	12	20.90	20.63	20.77	
10	64QAM	25	25	20.85	20.68	20.60	
10	64QAM	50	0	20.87	20.99	20.54	
10	256QAM	1	0	19.64	19.61	19.27	20
10	256QAM	1	25	19.21	19.75	19.21	
10	256QAM	1	49	19.09	19.50	19.07	
10	256QAM	25	0	19.19	19.48	19.12	20
10	256QAM	25	12	19.15	19.16	19.02	
10	256QAM	25	25	19.26	19.00	18.83	
10	256QAM	50	0	19.33	19.47	19.00	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	21.65	21.70	21.61	22.3
5	QPSK	1	12	21.54	21.68	21.57	
5	QPSK	1	24	21.69	21.49	21.38	
5	QPSK	12	0	21.61	21.72	21.52	22.3
5	QPSK	12	7	21.85	21.64	21.41	
5	QPSK	12	13	21.70	21.41	21.54	
5	QPSK	25	0	21.69	21.72	21.46	
5	16QAM	1	0	21.83	21.73	21.62	22.3
5	16QAM	1	12	21.65	21.59	21.49	
5	16QAM	1	24	21.74	21.47	21.21	
5	16QAM	12	0	21.80	21.91	21.47	22.3
5	16QAM	12	7	21.63	21.83	21.49	
5	16QAM	12	13	21.72	21.90	21.34	
5	16QAM	25	0	21.75	21.55	21.55	
5	64QAM	1	0	21.73	21.85	21.32	22.3
5	64QAM	1	12	21.40	21.87	21.39	
5	64QAM	1	24	21.24	21.61	21.25	
5	64QAM	12	0	20.98	21.02	20.66	22
5	64QAM	12	7	20.89	20.79	20.64	
5	64QAM	12	13	20.86	20.72	20.58	
5	64QAM	25	0	20.95	21.08	20.59	
5	256QAM	1	0	19.49	19.65	19.43	20
5	256QAM	1	12	19.32	19.84	19.31	
5	256QAM	1	24	19.25	19.47	19.16	
5	256QAM	12	0	19.23	19.35	19.00	20
5	256QAM	12	7	19.17	19.05	19.01	
5	256QAM	12	13	19.13	19.06	19.17	
5	256QAM	25	0	19.26	19.46	18.83	
Channel				26055	26340	26675	Tune-up limit



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Frequency (MHz)				1851.5	1880	1913.5	(dBm)
3	QPSK	1	0	21.87	21.62	21.49	22.3
3	QPSK	1	8	21.57	21.65	21.57	
3	QPSK	1	14	21.44	21.61	21.38	
3	QPSK	8	0	21.79	21.63	21.46	22.3
3	QPSK	8	4	21.79	21.80	21.45	
3	QPSK	8	7	21.57	21.50	21.45	
3	QPSK	15	0	21.81	21.67	21.39	22.3
3	16QAM	1	0	21.68	21.74	21.59	
3	16QAM	1	8	21.77	21.64	21.34	
3	16QAM	1	14	21.59	21.47	21.34	22.3
3	16QAM	8	0	21.82	21.89	21.47	
3	16QAM	8	4	21.84	21.81	21.36	
3	16QAM	8	7	21.67	21.82	21.31	22.3
3	16QAM	15	0	21.70	21.65	21.48	
3	64QAM	1	0	21.81	21.88	21.60	
3	64QAM	1	8	21.33	21.86	21.52	22.3
3	64QAM	1	14	21.31	21.64	21.37	
3	64QAM	8	0	20.95	21.03	20.75	
3	64QAM	8	4	20.71	20.70	20.58	22
3	64QAM	8	7	20.80	20.77	20.42	
3	64QAM	15	0	20.73	21.06	20.59	
3	256QAM	1	0	19.46	19.75	19.15	20
3	256QAM	1	8	19.18	19.79	19.34	
3	256QAM	1	14	19.18	19.41	19.25	
3	256QAM	8	0	19.09	19.41	18.92	20
3	256QAM	8	4	19.29	19.22	19.06	
3	256QAM	8	7	19.31	19.01	19.14	
3	256QAM	15	0	19.13	19.29	18.92	Tune-up limit (dBm)
Channel				26047	26340	26683	
Frequency (MHz)				1850.7	1880	1914.3	22.3
1.4	QPSK	1	0	21.76	21.75	21.50	
1.4	QPSK	1	3	21.61	21.53	21.50	
1.4	QPSK	1	5	21.71	21.65	21.31	22.3
1.4	QPSK	3	0	21.69	21.70	21.74	
1.4	QPSK	3	1	21.65	21.68	21.42	
1.4	QPSK	3	3	21.67	21.60	21.45	22.3
1.4	QPSK	6	0	21.85	21.86	21.43	
1.4	16QAM	1	0	21.77	21.70	21.58	
1.4	16QAM	1	3	21.59	21.57	21.57	22.3
1.4	16QAM	1	5	21.68	21.60	21.58	
1.4	16QAM	3	0	21.87	21.78	21.83	
1.4	16QAM	3	1	21.81	21.95	21.62	22.3
1.4	16QAM	3	3	21.86	21.85	21.69	
1.4	16QAM	6	0	21.45	21.79	21.19	
1.4	64QAM	1	0	21.42	21.67	21.06	22.3
1.4	64QAM	1	3	21.23	21.67	21.20	
1.4	64QAM	1	5	21.33	21.39	21.38	
1.4	64QAM	3	0	21.67	21.87	21.55	22.3
1.4	64QAM	3	1	21.44	21.88	21.48	
1.4	64QAM	3	3	21.40	21.65	21.44	
1.4	64QAM	6	0	20.72	20.96	20.66	22
1.4	256QAM	1	0	19.42	19.68	19.29	
1.4	256QAM	1	3	19.14	19.72	19.24	
1.4	256QAM	1	5	19.16	19.53	19.18	20
1.4	256QAM	3	0	19.16	19.33	19.12	
1.4	256QAM	3	1	19.32	19.04	19.07	
1.4	256QAM	3	3	19.28	19.09	18.95	20
1.4	256QAM	6	0	19.32	19.56	19.09	

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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)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	24.38	24.39	24.35	25.7
15	QPSK	1	37	24.23	24.16	24.19	
15	QPSK	1	74	24.30	24.28	24.14	
15	QPSK	36	0	23.42	23.43	23.34	24.7
15	QPSK	36	20	23.41	23.35	23.30	
15	QPSK	36	39	23.39	23.34	23.23	
15	QPSK	75	0	23.35	23.37	23.32	24.7
15	16QAM	1	0	23.68	23.64	23.63	
15	16QAM	1	37	23.62	23.58	23.61	
15	16QAM	1	74	23.60	23.49	23.44	23.7
15	16QAM	36	0	22.40	22.40	22.33	
15	16QAM	36	20	22.38	22.39	22.29	
15	16QAM	36	39	22.37	22.34	22.26	23.7
15	16QAM	75	0	22.41	22.38	22.31	
15	64QAM	1	0	22.49	22.63	22.46	
15	64QAM	1	37	22.62	22.59	22.37	22.7
15	64QAM	1	74	22.49	22.41	22.27	
15	64QAM	36	0	21.41	21.42	21.37	
15	64QAM	36	20	21.41	21.37	21.33	20.7
15	64QAM	36	39	21.38	21.36	21.28	
15	64QAM	75	0	21.41	21.37	21.31	
15	256QAM	1	0	19.79	19.96	19.80	20.7
15	256QAM	1	37	19.93	19.92	19.69	
15	256QAM	1	74	19.81	19.73	19.61	
15	256QAM	36	0	19.74	19.77	19.72	20.7
15	256QAM	36	20	19.75	19.69	19.59	
15	256QAM	36	39	19.72	19.63	19.63	
15	256QAM	75	0	19.72	19.65	19.58	
Channel				26740	26865	26990	
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	24.33	24.36	24.30	25.7
10	QPSK	1	25	24.18	24.16	24.16	
10	QPSK	1	49	24.28	24.23	24.10	
10	QPSK	25	0	23.35	23.42	23.24	24.7
10	QPSK	25	12	23.33	23.26	23.22	
10	QPSK	25	25	23.29	23.25	23.19	
10	QPSK	50	0	23.34	23.34	23.24	24.7
10	16QAM	1	0	23.66	23.61	23.60	
10	16QAM	1	25	23.58	23.50	23.52	
10	16QAM	1	49	23.59	23.39	23.35	23.7
10	16QAM	25	0	22.33	22.36	22.27	
10	16QAM	25	12	22.28	22.31	22.21	
10	16QAM	25	25	22.37	22.27	22.19	23.7
10	16QAM	50	0	22.39	22.32	22.21	
10	64QAM	1	0	22.43	22.53	22.39	
10	64QAM	1	25	22.61	22.51	22.28	22.7
10	64QAM	1	49	22.47	22.37	22.18	
10	64QAM	25	0	21.31	21.32	21.33	
10	64QAM	25	12	21.32	21.27	21.24	20.7
10	64QAM	25	25	21.36	21.35	21.28	
10	64QAM	50	0	21.41	21.28	21.29	
10	256QAM	1	0	19.75	19.89	19.72	20.7
10	256QAM	1	25	19.91	19.86	19.60	
10	256QAM	1	49	19.71	19.66	19.61	
10	256QAM	25	0	19.72	19.72	19.69	20.7
10	256QAM	25	12	19.69	19.67	19.50	
10	256QAM	25	25	19.62	19.59	19.59	
10	256QAM	50	0	19.65	19.63	19.53	



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Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	24.36	24.28	24.30	25.7
5	QPSK	1	12	24.14	24.12	24.19	
5	QPSK	1	24	24.20	24.27	24.10	
5	QPSK	12	0	23.42	23.40	23.33	24.7
5	QPSK	12	7	23.40	23.28	23.25	
5	QPSK	12	13	23.37	23.25	23.21	
5	QPSK	25	0	23.25	23.28	23.24	24.7
5	16QAM	1	0	23.68	23.60	23.60	
5	16QAM	1	12	23.53	23.58	23.57	
5	16QAM	1	24	23.55	23.47	23.42	23.7
5	16QAM	12	0	22.32	22.37	22.23	
5	16QAM	12	7	22.30	22.39	22.23	
5	16QAM	12	13	22.28	22.25	22.18	23.7
5	16QAM	25	0	22.34	22.29	22.26	
5	64QAM	1	0	22.42	22.54	22.37	
5	64QAM	1	12	22.54	22.49	22.34	22.7
5	64QAM	1	24	22.47	22.37	22.19	
5	64QAM	12	0	21.41	21.36	21.30	
5	64QAM	12	7	21.39	21.28	21.25	20.7
5	64QAM	12	13	21.34	21.28	21.21	
5	64QAM	25	0	21.35	21.33	21.25	
5	256QAM	1	0	19.70	19.92	19.75	20.7
5	256QAM	1	12	19.90	19.86	19.67	
5	256QAM	1	24	19.77	19.73	19.54	
5	256QAM	12	0	19.71	19.69	19.62	20.7
5	256QAM	12	7	19.73	19.61	19.58	
5	256QAM	12	13	19.65	19.63	19.61	
5	256QAM	25	0	19.64	19.58	19.56	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	24.31	24.30	24.29	25.7
3	QPSK	1	8	24.16	24.15	24.19	
3	QPSK	1	14	24.21	24.24	24.07	
3	QPSK	8	0	23.36	23.34	23.30	24.7
3	QPSK	8	4	23.31	23.29	23.25	
3	QPSK	8	7	23.35	23.27	23.21	
3	QPSK	15	0	23.31	23.33	23.29	24.7
3	16QAM	1	0	23.68	23.64	23.59	
3	16QAM	1	8	23.58	23.54	23.58	
3	16QAM	1	14	23.57	23.41	23.42	23.7
3	16QAM	8	0	22.37	22.37	22.30	
3	16QAM	8	4	22.33	22.36	22.24	
3	16QAM	8	7	22.36	22.29	22.16	23.7
3	16QAM	15	0	22.39	22.38	22.25	
3	64QAM	1	0	22.46	22.60	22.36	
3	64QAM	1	8	22.53	22.54	22.31	22.7
3	64QAM	1	14	22.41	22.34	22.24	
3	64QAM	8	0	21.41	21.36	21.30	
3	64QAM	8	4	21.41	21.28	21.23	20.7
3	64QAM	8	7	21.38	21.27	21.20	
3	64QAM	15	0	21.39	21.36	21.23	
3	256QAM	1	0	19.75	19.96	19.74	20.7
3	256QAM	1	8	19.93	19.88	19.59	
3	256QAM	1	14	19.74	19.72	19.54	
3	256QAM	8	0	19.69	19.77	19.62	20.7
3	256QAM	8	4	19.65	19.68	19.55	
3	256QAM	8	7	19.62	19.63	19.59	
3	256QAM	15	0	19.69	19.56	19.49	
Channel				26697	26865	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	24.29	24.31	24.27	25.7



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1.4	QPSK	1	3	24.13	24.14	24.10	
1.4	QPSK	1	5	24.20	24.27	24.04	
1.4	QPSK	3	0	24.18	24.30	24.21	
1.4	QPSK	3	1	24.19	24.21	24.17	
1.4	QPSK	3	3	24.14	24.28	24.14	
1.4	QPSK	6	0	23.35	23.37	23.27	24.7
1.4	16QAM	1	0	23.59	23.59	23.58	24.7
1.4	16QAM	1	3	23.62	23.52	23.56	
1.4	16QAM	1	5	23.54	23.46	23.37	
1.4	16QAM	3	0	23.66	23.62	23.54	
1.4	16QAM	3	1	23.61	23.56	23.53	
1.4	16QAM	3	3	23.50	23.42	23.39	23.7
1.4	16QAM	6	0	22.39	22.34	22.30	
1.4	64QAM	1	0	22.40	22.55	22.37	23.7
1.4	64QAM	1	3	22.58	22.59	22.37	
1.4	64QAM	1	5	22.46	22.38	22.25	
1.4	64QAM	3	0	22.41	22.58	22.37	
1.4	64QAM	3	1	22.62	22.50	22.34	
1.4	64QAM	3	3	22.49	22.37	22.17	22.7
1.4	64QAM	6	0	21.37	21.28	21.21	
1.4	256QAM	1	0	19.74	19.89	19.75	20.7
1.4	256QAM	1	3	19.83	19.82	19.63	
1.4	256QAM	1	5	19.72	19.69	19.57	
1.4	256QAM	3	0	19.70	19.71	19.71	
1.4	256QAM	3	1	19.72	19.60	19.52	
1.4	256QAM	3	3	19.64	19.56	19.58	20.7
1.4	256QAM	6	0	19.62	19.61	19.53	



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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)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	23.24	23.25	23.24	23.5
15	QPSK	1	37	23.20	23.19	23.23	
15	QPSK	1	74	23.14	23.16	23.20	
15	QPSK	36	0	22.74	22.84	22.73	23.5
15	QPSK	36	20	22.72	22.84	22.72	
15	QPSK	36	39	22.80	22.82	22.73	
15	QPSK	75	0	22.77	22.81	22.79	
15	16QAM	1	0	23.02	23.05	23.12	23.5
15	16QAM	1	37	23.04	22.97	22.90	
15	16QAM	1	74	23.05	22.99	22.84	
15	16QAM	36	0	22.87	22.88	22.75	23.5
15	16QAM	36	20	22.86	22.82	22.72	
15	16QAM	36	39	22.78	22.79	22.65	
15	16QAM	75	0	22.81	22.80	22.77	
15	64QAM	1	0	22.90	23.00	22.95	23.5
15	64QAM	1	37	22.98	23.09	22.99	
15	64QAM	1	74	22.91	22.84	22.77	
15	64QAM	36	0	21.79	21.81	21.78	22.7
15	64QAM	36	20	21.77	21.84	21.72	
15	64QAM	36	39	21.79	21.83	21.66	
15	64QAM	75	0	21.84	21.83	21.73	
15	256QAM	1	0	20.17	20.31	20.27	20.7
15	256QAM	1	37	20.35	20.35	20.30	
15	256QAM	1	74	20.12	20.17	20.10	
15	256QAM	36	0	19.99	20.10	20.08	20.7
15	256QAM	36	20	20.05	20.13	20.04	
15	256QAM	36	39	20.03	19.99	19.90	
15	256QAM	75	0	20.05	20.14	20.00	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	23.15	23.15	23.19	23.5
10	QPSK	1	25	23.07	23.02	23.23	
10	QPSK	1	49	23.11	22.96	23.09	
10	QPSK	25	0	22.62	22.69	22.60	23.5
10	QPSK	25	12	22.54	22.80	22.53	
10	QPSK	25	25	22.63	22.72	22.69	
10	QPSK	50	0	22.76	22.64	22.76	
10	16QAM	1	0	23.00	22.86	23.11	23.5
10	16QAM	1	25	22.89	22.88	22.75	
10	16QAM	1	49	22.98	22.81	22.76	
10	16QAM	25	0	22.83	22.76	22.57	23.5
10	16QAM	25	12	22.67	22.65	22.70	
10	16QAM	25	25	22.69	22.61	22.65	
10	16QAM	50	0	22.71	22.80	22.72	
10	64QAM	1	0	22.80	22.83	22.84	23.5
10	64QAM	1	25	22.98	23.04	22.86	
10	64QAM	1	49	22.88	22.65	22.59	
10	64QAM	25	0	21.64	21.77	21.75	22.7
10	64QAM	25	12	21.62	21.73	21.56	
10	64QAM	25	25	21.64	21.64	21.62	
10	64QAM	50	0	21.64	21.70	21.53	
10	256QAM	1	0	20.03	20.30	20.15	20.7
10	256QAM	1	25	20.25	20.22	20.28	
10	256QAM	1	49	20.12	20.07	19.96	
10	256QAM	25	0	19.97	20.01	20.06	20.7
10	256QAM	25	12	19.92	19.93	19.93	



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10	256QAM	25	25	19.96	19.88	19.71	Tune-up limit (dBm)
10	256QAM	50	0	20.01	20.09	19.90	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	23.22	23.13	23.22	23.5
5	QPSK	1	12	23.06	23.09	23.14	
5	QPSK	1	24	23.11	22.99	23.00	
5	QPSK	12	0	22.65	22.68	22.65	23.5
5	QPSK	12	7	22.62	22.77	22.67	
5	QPSK	12	13	22.63	22.74	22.62	
5	QPSK	25	0	22.71	22.64	22.64	
5	16QAM	1	0	22.83	23.01	23.07	23.5
5	16QAM	1	12	22.96	22.88	22.88	
5	16QAM	1	24	23.02	22.82	22.76	
5	16QAM	12	0	22.73	22.79	22.67	23.5
5	16QAM	12	7	22.70	22.65	22.68	
5	16QAM	12	13	22.67	22.65	22.51	
5	16QAM	25	0	22.74	22.63	22.65	
5	64QAM	1	0	22.81	22.83	22.86	23.5
5	64QAM	1	12	22.86	22.89	22.91	
5	64QAM	1	24	22.74	22.69	22.71	
5	64QAM	12	0	21.65	21.68	21.71	22.7
5	64QAM	12	7	21.64	21.64	21.58	
5	64QAM	12	13	21.62	21.80	21.63	
5	64QAM	25	0	21.78	21.64	21.61	
5	256QAM	1	0	20.13	20.24	20.13	20.7
5	256QAM	1	12	20.25	20.29	20.14	
5	256QAM	1	24	20.10	20.15	20.00	
5	256QAM	12	0	19.82	20.05	19.88	20.7
5	256QAM	12	7	19.86	20.13	20.02	
5	256QAM	12	13	19.94	19.96	19.73	
5	256QAM	25	0	19.87	20.01	19.85	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	23.09	23.24	23.12	23.5
3	QPSK	1	8	23.09	23.15	23.18	
3	QPSK	1	14	23.14	23.01	23.03	
3	QPSK	8	0	22.74	22.74	22.71	23.5
3	QPSK	8	4	22.72	22.77	22.61	
3	QPSK	8	7	22.61	22.72	22.61	
3	QPSK	15	0	22.74	22.61	22.78	
3	16QAM	1	0	22.85	22.91	23.07	23.5
3	16QAM	1	8	23.03	22.95	22.86	
3	16QAM	1	14	22.92	22.82	22.66	
3	16QAM	8	0	22.81	22.81	22.71	23.5
3	16QAM	8	4	22.81	22.66	22.57	
3	16QAM	8	7	22.76	22.65	22.50	
3	16QAM	15	0	22.70	22.72	22.62	
3	64QAM	1	0	22.76	22.88	22.75	23.5
3	64QAM	1	8	22.86	22.98	22.92	
3	64QAM	1	14	22.85	22.77	22.61	
3	64QAM	8	0	21.68	21.69	21.58	22.7
3	64QAM	8	4	21.74	21.75	21.62	
3	64QAM	8	7	21.63	21.67	21.53	
3	64QAM	15	0	21.79	21.65	21.69	
3	256QAM	1	0	20.01	20.20	20.13	20.7
3	256QAM	1	8	20.33	20.30	20.30	
3	256QAM	1	14	19.97	20.09	19.96	
3	256QAM	8	0	19.88	19.94	19.88	20.7
3	256QAM	8	4	19.99	19.99	19.86	
3	256QAM	8	7	19.93	19.84	19.90	
3	256QAM	15	0	19.93	20.01	19.93	
Channel				26697	26865	27033	Tune-up limit



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Frequency (MHz)				814.7	831.5	848.3	(dBm)
1.4	QPSK	1	0	23.08	23.17	23.10	23.5
1.4	QPSK	1	3	23.13	23.12	23.10	
1.4	QPSK	1	5	23.03	23.14	23.12	
1.4	QPSK	3	0	22.57	22.76	22.65	
1.4	QPSK	3	1	22.54	22.82	22.71	
1.4	QPSK	3	3	22.77	22.68	22.63	
1.4	QPSK	6	0	22.73	22.71	22.79	23.5
1.4	16QAM	1	0	22.94	22.94	23.08	23.5
1.4	16QAM	1	3	22.97	22.82	22.89	
1.4	16QAM	1	5	23.04	22.81	22.70	
1.4	16QAM	3	0	22.87	22.74	22.69	
1.4	16QAM	3	1	22.73	22.65	22.55	
1.4	16QAM	3	3	22.76	22.78	22.49	
1.4	16QAM	6	0	22.79	22.67	22.71	23.5
1.4	64QAM	1	0	22.78	22.99	22.92	23.5
1.4	64QAM	1	3	22.84	22.89	22.85	
1.4	64QAM	1	5	22.85	22.77	22.60	
1.4	64QAM	3	0	21.70	21.65	21.74	
1.4	64QAM	3	1	21.73	21.73	21.70	
1.4	64QAM	3	3	21.76	21.77	21.52	
1.4	64QAM	6	0	21.72	21.74	21.59	22.7
1.4	256QAM	1	0	20.13	20.18	20.07	20.7
1.4	256QAM	1	3	20.22	20.15	20.11	
1.4	256QAM	1	5	20.01	19.97	20.10	
1.4	256QAM	3	0	19.86	20.00	19.89	
1.4	256QAM	3	1	19.99	19.96	19.97	
1.4	256QAM	3	3	20.00	19.93	19.70	
1.4	256QAM	6	0	19.85	20.03	19.95	20.7



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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)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	24.38	24.39	24.35	
15	QPSK	1	37	24.23	24.16	24.19	25.7
15	QPSK	1	74	24.30	24.28	24.14	
15	QPSK	36	0	23.42	23.43	23.34	
15	QPSK	36	20	23.41	23.35	23.30	24.7
15	QPSK	36	39	23.39	23.34	23.23	
15	QPSK	75	0	23.35	23.37	23.32	
15	16QAM	1	0	23.68	23.64	23.63	24.7
15	16QAM	1	37	23.62	23.58	23.61	
15	16QAM	1	74	23.60	23.49	23.44	
15	16QAM	36	0	22.40	22.40	22.33	23.7
15	16QAM	36	20	22.38	22.39	22.29	
15	16QAM	36	39	22.37	22.34	22.26	
15	16QAM	75	0	22.41	22.38	22.31	23.7
15	64QAM	1	0	22.49	22.63	22.46	
15	64QAM	1	37	22.62	22.59	22.37	
15	64QAM	1	74	22.49	22.41	22.27	22.7
15	64QAM	36	0	21.41	21.42	21.37	
15	64QAM	36	20	21.41	21.37	21.33	
15	64QAM	36	39	21.38	21.36	21.28	20.7
15	64QAM	75	0	21.41	21.37	21.31	
15	256QAM	1	0	19.79	19.96	19.80	
15	256QAM	1	37	19.93	19.92	19.69	20.7
15	256QAM	1	74	19.81	19.73	19.61	
15	256QAM	36	0	19.74	19.77	19.72	
15	256QAM	36	20	19.75	19.69	19.59	20.7
15	256QAM	36	39	19.72	19.63	19.63	
15	256QAM	75	0	19.72	19.65	19.58	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	24.33	24.36	24.30	
10	QPSK	1	25	24.18	24.16	24.16	25.7
10	QPSK	1	49	24.28	24.23	24.10	
10	QPSK	25	0	23.35	23.42	23.24	24.7
10	QPSK	25	12	23.33	23.26	23.22	
10	QPSK	25	25	23.29	23.25	23.19	
10	QPSK	50	0	23.34	23.34	23.24	24.7
10	16QAM	1	0	23.66	23.61	23.60	
10	16QAM	1	25	23.58	23.50	23.52	
10	16QAM	1	49	23.59	23.39	23.35	23.7
10	16QAM	25	0	22.33	22.36	22.27	
10	16QAM	25	12	22.28	22.31	22.21	
10	16QAM	25	25	22.37	22.27	22.19	23.7
10	16QAM	50	0	22.39	22.32	22.21	
10	64QAM	1	0	22.43	22.53	22.39	
10	64QAM	1	25	22.61	22.51	22.28	22.7
10	64QAM	1	49	22.47	22.37	22.18	
10	64QAM	25	0	21.31	21.32	21.33	
10	64QAM	25	12	21.32	21.27	21.24	20.7
10	64QAM	25	25	21.36	21.35	21.28	
10	64QAM	50	0	21.41	21.28	21.29	
10	256QAM	1	0	19.75	19.89	19.72	20.7
10	256QAM	1	25	19.91	19.86	19.60	
10	256QAM	1	49	19.71	19.66	19.61	
10	256QAM	25	0	19.72	19.72	19.69	20.7
10	256QAM	25	12	19.69	19.67	19.50	



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10	256QAM	25	25	19.62	19.59	19.59	Tune-up limit (dBm)
10	256QAM	50	0	19.65	19.63	19.53	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	24.36	24.28	24.30	25.7
5	QPSK	1	12	24.14	24.12	24.19	
5	QPSK	1	24	24.20	24.27	24.10	
5	QPSK	12	0	23.42	23.40	23.33	24.7
5	QPSK	12	7	23.40	23.28	23.25	
5	QPSK	12	13	23.37	23.25	23.21	
5	QPSK	25	0	23.25	23.28	23.24	
5	16QAM	1	0	23.68	23.60	23.60	24.7
5	16QAM	1	12	23.53	23.58	23.57	
5	16QAM	1	24	23.55	23.47	23.42	
5	16QAM	12	0	22.32	22.37	22.23	23.7
5	16QAM	12	7	22.30	22.39	22.23	
5	16QAM	12	13	22.28	22.25	22.18	
5	16QAM	25	0	22.34	22.29	22.26	
5	64QAM	1	0	22.42	22.54	22.37	23.7
5	64QAM	1	12	22.54	22.49	22.34	
5	64QAM	1	24	22.47	22.37	22.19	
5	64QAM	12	0	21.41	21.36	21.30	22.7
5	64QAM	12	7	21.39	21.28	21.25	
5	64QAM	12	13	21.34	21.28	21.21	
5	64QAM	25	0	21.35	21.33	21.25	
5	256QAM	1	0	19.70	19.92	19.75	20.7
5	256QAM	1	12	19.90	19.86	19.67	
5	256QAM	1	24	19.77	19.73	19.54	
5	256QAM	12	0	19.71	19.69	19.62	20.7
5	256QAM	12	7	19.73	19.61	19.58	
5	256QAM	12	13	19.65	19.63	19.61	
5	256QAM	25	0	19.64	19.58	19.56	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	24.31	24.30	24.29	25.7
3	QPSK	1	8	24.16	24.15	24.19	
3	QPSK	1	14	24.21	24.24	24.07	
3	QPSK	8	0	23.36	23.34	23.30	24.7
3	QPSK	8	4	23.31	23.29	23.25	
3	QPSK	8	7	23.35	23.27	23.21	
3	QPSK	15	0	23.31	23.33	23.29	
3	16QAM	1	0	23.68	23.64	23.59	24.7
3	16QAM	1	8	23.58	23.54	23.58	
3	16QAM	1	14	23.57	23.41	23.42	
3	16QAM	8	0	22.37	22.37	22.30	23.7
3	16QAM	8	4	22.33	22.36	22.24	
3	16QAM	8	7	22.36	22.29	22.16	
3	16QAM	15	0	22.39	22.38	22.25	
3	64QAM	1	0	22.46	22.60	22.36	23.7
3	64QAM	1	8	22.53	22.54	22.31	
3	64QAM	1	14	22.41	22.34	22.24	
3	64QAM	8	0	21.41	21.36	21.30	22.7
3	64QAM	8	4	21.41	21.28	21.23	
3	64QAM	8	7	21.38	21.27	21.20	
3	64QAM	15	0	21.39	21.36	21.23	
3	256QAM	1	0	19.75	19.96	19.74	20.7
3	256QAM	1	8	19.93	19.88	19.59	
3	256QAM	1	14	19.74	19.72	19.54	
3	256QAM	8	0	19.69	19.77	19.62	20.7
3	256QAM	8	4	19.65	19.68	19.55	
3	256QAM	8	7	19.62	19.63	19.59	
3	256QAM	15	0	19.69	19.56	19.49	
Channel				26697	26865	27033	Tune-up limit



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Frequency (MHz)				814.7	831.5	848.3	(dBm)
1.4	QPSK	1	0	24.29	24.31	24.27	25.7
1.4	QPSK	1	3	24.13	24.14	24.10	
1.4	QPSK	1	5	24.20	24.27	24.04	
1.4	QPSK	3	0	24.18	24.30	24.21	
1.4	QPSK	3	1	24.19	24.21	24.17	
1.4	QPSK	3	3	24.14	24.28	24.14	
1.4	QPSK	6	0	23.35	23.37	23.27	24.7
1.4	16QAM	1	0	23.59	23.59	23.58	24.7
1.4	16QAM	1	3	23.62	23.52	23.56	
1.4	16QAM	1	5	23.54	23.46	23.37	
1.4	16QAM	3	0	23.66	23.62	23.54	
1.4	16QAM	3	1	23.61	23.56	23.53	
1.4	16QAM	3	3	23.50	23.42	23.39	
1.4	16QAM	6	0	22.39	22.34	22.30	23.7
1.4	64QAM	1	0	22.40	22.55	22.37	23.7
1.4	64QAM	1	3	22.58	22.59	22.37	
1.4	64QAM	1	5	22.46	22.38	22.25	
1.4	64QAM	3	0	22.41	22.58	22.37	
1.4	64QAM	3	1	22.62	22.50	22.34	
1.4	64QAM	3	3	22.49	22.37	22.17	
1.4	64QAM	6	0	21.37	21.28	21.21	22.7
1.4	256QAM	1	0	19.74	19.89	19.75	20.7
1.4	256QAM	1	3	19.83	19.82	19.63	
1.4	256QAM	1	5	19.72	19.69	19.57	
1.4	256QAM	3	0	19.70	19.71	19.71	
1.4	256QAM	3	1	19.72	19.60	19.52	
1.4	256QAM	3	3	19.64	19.56	19.58	
1.4	256QAM	6	0	19.62	19.61	19.53	20.7



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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)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	25.13	25.18	25.10	
15	QPSK	1	37	24.93	24.96	24.96	25.7
15	QPSK	1	74	25.07	25.03	24.93	
15	QPSK	36	0	24.14	24.20	24.12	
15	QPSK	36	20	24.12	24.16	24.09	24.7
15	QPSK	36	39	24.10	24.15	24.04	
15	QPSK	75	0	24.13	24.18	24.12	
15	16QAM	1	0	24.40	24.41	24.43	24.7
15	16QAM	1	37	24.39	24.33	24.29	
15	16QAM	1	74	24.37	24.29	24.15	
15	16QAM	36	0	23.17	23.18	23.11	23.7
15	16QAM	36	20	23.16	23.15	23.05	
15	16QAM	36	39	23.13	23.12	23.02	
15	16QAM	75	0	23.17	23.12	23.07	23.7
15	64QAM	1	0	23.28	23.36	23.32	
15	64QAM	1	37	23.37	23.39	23.35	
15	64QAM	1	74	23.23	23.22	23.13	22.7
15	64QAM	36	0	22.19	22.17	22.13	
15	64QAM	36	20	22.14	22.15	22.09	
15	64QAM	36	39	22.14	22.14	22.02	20.7
15	64QAM	75	0	22.17	22.16	22.10	
15	256QAM	1	0	20.57	20.62	20.62	
15	256QAM	1	37	20.65	20.67	20.65	20.7
15	256QAM	1	74	20.52	20.49	20.41	
15	256QAM	36	0	20.39	20.40	20.40	
15	256QAM	36	20	20.37	20.44	20.39	20.7
15	256QAM	36	39	20.39	20.35	20.28	
15	256QAM	75	0	20.40	20.45	20.35	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	25.12	25.05	24.94	
10	QPSK	1	25	24.91	24.87	24.92	25.7
10	QPSK	1	49	24.96	24.96	24.75	
10	QPSK	25	0	23.99	24.13	23.93	
10	QPSK	25	12	24.02	24.16	24.04	24.7
10	QPSK	25	25	23.93	24.12	23.87	
10	QPSK	50	0	24.00	23.98	24.06	
10	16QAM	1	0	24.26	24.25	24.42	24.7
10	16QAM	1	25	24.30	24.31	24.27	
10	16QAM	1	49	24.32	24.27	24.01	
10	16QAM	25	0	23.01	23.12	22.94	23.7
10	16QAM	25	12	23.06	23.03	22.86	
10	16QAM	25	25	23.08	23.09	22.87	
10	16QAM	50	0	23.07	22.95	23.00	23.7
10	64QAM	1	0	23.08	23.36	23.17	
10	64QAM	1	25	23.25	23.21	23.16	
10	64QAM	1	49	23.14	23.20	23.09	22.7
10	64QAM	25	0	22.17	22.02	22.10	
10	64QAM	25	12	22.00	22.15	22.09	
10	64QAM	25	25	21.95	22.05	22.01	20.7
10	64QAM	50	0	22.00	22.10	22.03	
10	256QAM	1	0	20.44	20.53	20.42	
10	256QAM	1	25	20.54	20.56	20.65	20.7
10	256QAM	1	49	20.42	20.30	20.33	
10	256QAM	25	0	20.20	20.21	20.26	
10	256QAM	25	12	20.29	20.32	20.31	



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10	256QAM	25	25	20.27	20.30	20.26	
10	256QAM	50	0	20.28	20.26	20.15	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	24.98	25.07	25.04	25.7
5	QPSK	1	12	24.87	24.94	24.95	
5	QPSK	1	24	25.05	24.87	24.75	
5	QPSK	12	0	24.05	24.00	24.02	24.7
5	QPSK	12	7	24.02	24.15	24.02	
5	QPSK	12	13	23.95	23.99	24.04	
5	QPSK	25	0	23.96	24.18	24.09	
5	16QAM	1	0	24.31	24.37	24.42	24.7
5	16QAM	1	12	24.33	24.23	24.10	
5	16QAM	1	24	24.36	24.26	24.04	
5	16QAM	12	0	23.15	23.05	23.02	23.7
5	16QAM	12	7	23.07	23.01	22.89	
5	16QAM	12	13	22.97	22.96	22.91	
5	16QAM	25	0	23.06	23.12	22.93	
5	64QAM	1	0	23.24	23.30	23.29	23.7
5	64QAM	1	12	23.35	23.37	23.16	
5	64QAM	1	24	23.14	23.02	23.08	
5	64QAM	12	0	22.05	22.03	22.10	22.7
5	64QAM	12	7	22.10	22.10	21.98	
5	64QAM	12	13	21.97	22.03	21.88	
5	64QAM	25	0	22.14	22.10	21.90	
5	256QAM	1	0	20.37	20.57	20.52	20.7
5	256QAM	1	12	20.63	20.59	20.56	
5	256QAM	1	24	20.46	20.33	20.30	
5	256QAM	12	0	20.21	20.29	20.40	20.7
5	256QAM	12	7	20.17	20.25	20.26	
5	256QAM	12	13	20.28	20.18	20.08	
5	256QAM	25	0	20.32	20.43	20.32	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	25.02	25.17	25.05	25.7
3	QPSK	1	8	24.80	24.88	24.79	
3	QPSK	1	14	25.00	24.96	24.90	
3	QPSK	8	0	24.07	24.07	23.94	24.7
3	QPSK	8	4	24.06	24.07	24.00	
3	QPSK	8	7	23.98	24.04	23.99	
3	QPSK	15	0	24.05	24.04	24.10	
3	16QAM	1	0	24.37	24.37	24.23	24.7
3	16QAM	1	8	24.31	24.24	24.28	
3	16QAM	1	14	24.23	24.19	24.03	
3	16QAM	8	0	23.17	23.12	23.10	23.7
3	16QAM	8	4	23.12	23.01	22.92	
3	16QAM	8	7	23.00	22.95	22.97	
3	16QAM	15	0	23.16	23.05	22.94	
3	64QAM	1	0	23.20	23.19	23.24	23.7
3	64QAM	1	8	23.33	23.27	23.31	
3	64QAM	1	14	23.15	23.18	22.96	
3	64QAM	8	0	22.16	22.09	21.99	22.7
3	64QAM	8	4	21.98	21.99	21.94	
3	64QAM	8	7	21.97	22.10	21.95	
3	64QAM	15	0	22.16	22.08	21.97	
3	256QAM	1	0	20.44	20.48	20.47	20.7
3	256QAM	1	8	20.57	20.51	20.62	
3	256QAM	1	14	20.33	20.49	20.37	
3	256QAM	8	0	20.21	20.36	20.26	20.7
3	256QAM	8	4	20.18	20.24	20.29	
3	256QAM	8	7	20.36	20.21	20.12	
3	256QAM	15	0	20.28	20.28	20.26	
Channel				26697	26865	27033	Tune-up limit



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Frequency (MHz)				814.7	831.5	848.3	(dBm)
1.4	QPSK	1	0	25.00	25.07	24.95	25.7
1.4	QPSK	1	3	24.84	24.76	24.96	
1.4	QPSK	1	5	25.05	24.96	24.90	
1.4	QPSK	3	0	25.11	25.06	25.01	
1.4	QPSK	3	1	24.84	24.76	24.85	
1.4	QPSK	3	3	25.02	24.91	24.82	
1.4	QPSK	6	0	24.12	24.00	24.02	24.7
1.4	16QAM	1	0	24.02	24.11	23.96	24.7
1.4	16QAM	1	3	24.09	23.99	23.97	
1.4	16QAM	1	5	23.97	24.01	24.06	
1.4	16QAM	3	0	24.26	24.41	24.25	
1.4	16QAM	3	1	24.24	24.17	24.21	
1.4	16QAM	3	3	24.18	24.24	24.14	
1.4	16QAM	6	0	23.08	22.98	23.03	23.7
1.4	64QAM	1	0	23.14	23.13	22.99	23.7
1.4	64QAM	1	3	23.00	23.10	22.99	
1.4	64QAM	1	5	23.02	22.94	23.07	
1.4	64QAM	3	0	23.28	23.27	23.23	
1.4	64QAM	3	1	23.28	23.21	23.29	
1.4	64QAM	3	3	23.14	23.19	22.96	
1.4	64QAM	6	0	22.12	22.15	22.05	22.7
1.4	256QAM	1	0	20.37	20.43	20.55	20.7
1.4	256QAM	1	3	20.47	20.51	20.51	
1.4	256QAM	1	5	20.41	20.35	20.38	
1.4	256QAM	3	0	20.36	20.34	20.29	
1.4	256QAM	3	1	20.33	20.31	20.38	
1.4	256QAM	3	3	20.31	20.34	20.09	
1.4	256QAM	6	0	20.20	20.38	20.26	20.7



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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)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	24.38	24.39	24.35	
15	QPSK	1	37	24.23	24.16	24.19	25.7
15	QPSK	1	74	24.30	24.28	24.14	
15	QPSK	36	0	23.42	23.43	23.34	
15	QPSK	36	20	23.41	23.35	23.30	24.7
15	QPSK	36	39	23.39	23.34	23.23	
15	QPSK	75	0	23.35	23.37	23.32	
15	16QAM	1	0	23.68	23.64	23.63	24.7
15	16QAM	1	37	23.62	23.58	23.61	
15	16QAM	1	74	23.60	23.49	23.44	
15	16QAM	36	0	22.40	22.40	22.33	23.7
15	16QAM	36	20	22.38	22.39	22.29	
15	16QAM	36	39	22.37	22.34	22.26	
15	16QAM	75	0	22.41	22.38	22.31	23.7
15	64QAM	1	0	22.49	22.63	22.46	
15	64QAM	1	37	22.62	22.59	22.37	
15	64QAM	1	74	22.49	22.41	22.27	22.7
15	64QAM	36	0	21.41	21.42	21.37	
15	64QAM	36	20	21.41	21.37	21.33	
15	64QAM	36	39	21.38	21.36	21.28	20.7
15	64QAM	75	0	21.41	21.37	21.31	
15	256QAM	1	0	19.79	19.96	19.80	
15	256QAM	1	37	19.93	19.92	19.69	20.7
15	256QAM	1	74	19.81	19.73	19.61	
15	256QAM	36	0	19.74	19.77	19.72	
15	256QAM	36	20	19.75	19.69	19.59	20.7
15	256QAM	36	39	19.72	19.63	19.63	
15	256QAM	75	0	19.72	19.65	19.58	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	24.33	24.36	24.30	
10	QPSK	1	25	24.18	24.16	24.16	25.7
10	QPSK	1	49	24.28	24.23	24.10	
10	QPSK	25	0	23.35	23.42	23.24	24.7
10	QPSK	25	12	23.33	23.26	23.22	
10	QPSK	25	25	23.29	23.25	23.19	
10	QPSK	50	0	23.34	23.34	23.24	24.7
10	16QAM	1	0	23.66	23.61	23.60	
10	16QAM	1	25	23.58	23.50	23.52	
10	16QAM	1	49	23.59	23.39	23.35	23.7
10	16QAM	25	0	22.33	22.36	22.27	
10	16QAM	25	12	22.28	22.31	22.21	
10	16QAM	25	25	22.37	22.27	22.19	23.7
10	16QAM	50	0	22.39	22.32	22.21	
10	64QAM	1	0	22.43	22.53	22.39	
10	64QAM	1	25	22.61	22.51	22.28	22.7
10	64QAM	1	49	22.47	22.37	22.18	
10	64QAM	25	0	21.31	21.32	21.33	
10	64QAM	25	12	21.32	21.27	21.24	20.7
10	64QAM	25	25	21.36	21.35	21.28	
10	64QAM	50	0	21.41	21.28	21.29	
10	256QAM	1	0	19.75	19.89	19.72	20.7
10	256QAM	1	25	19.91	19.86	19.60	
10	256QAM	1	49	19.71	19.66	19.61	
10	256QAM	25	0	19.72	19.72	19.69	20.7
10	256QAM	25	12	19.69	19.67	19.50	



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10	256QAM	25	25	19.62	19.59	19.59	Tune-up limit (dBm)
10	256QAM	50	0	19.65	19.63	19.53	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	24.36	24.28	24.30	25.7
5	QPSK	1	12	24.14	24.12	24.19	
5	QPSK	1	24	24.20	24.27	24.10	
5	QPSK	12	0	23.42	23.40	23.33	24.7
5	QPSK	12	7	23.40	23.28	23.25	
5	QPSK	12	13	23.37	23.25	23.21	
5	QPSK	25	0	23.25	23.28	23.24	
5	16QAM	1	0	23.68	23.60	23.60	24.7
5	16QAM	1	12	23.53	23.58	23.57	
5	16QAM	1	24	23.55	23.47	23.42	
5	16QAM	12	0	22.32	22.37	22.23	23.7
5	16QAM	12	7	22.30	22.39	22.23	
5	16QAM	12	13	22.28	22.25	22.18	
5	16QAM	25	0	22.34	22.29	22.26	
5	64QAM	1	0	22.42	22.54	22.37	23.7
5	64QAM	1	12	22.54	22.49	22.34	
5	64QAM	1	24	22.47	22.37	22.19	
5	64QAM	12	0	21.41	21.36	21.30	22.7
5	64QAM	12	7	21.39	21.28	21.25	
5	64QAM	12	13	21.34	21.28	21.21	
5	64QAM	25	0	21.35	21.33	21.25	
5	256QAM	1	0	19.70	19.92	19.75	20.7
5	256QAM	1	12	19.90	19.86	19.67	
5	256QAM	1	24	19.77	19.73	19.54	
5	256QAM	12	0	19.71	19.69	19.62	20.7
5	256QAM	12	7	19.73	19.61	19.58	
5	256QAM	12	13	19.65	19.63	19.61	
5	256QAM	25	0	19.64	19.58	19.56	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	24.31	24.30	24.29	25.7
3	QPSK	1	8	24.16	24.15	24.19	
3	QPSK	1	14	24.21	24.24	24.07	
3	QPSK	8	0	23.36	23.34	23.30	24.7
3	QPSK	8	4	23.31	23.29	23.25	
3	QPSK	8	7	23.35	23.27	23.21	
3	QPSK	15	0	23.31	23.33	23.29	
3	16QAM	1	0	23.68	23.64	23.59	24.7
3	16QAM	1	8	23.58	23.54	23.58	
3	16QAM	1	14	23.57	23.41	23.42	
3	16QAM	8	0	22.37	22.37	22.30	23.7
3	16QAM	8	4	22.33	22.36	22.24	
3	16QAM	8	7	22.36	22.29	22.16	
3	16QAM	15	0	22.39	22.38	22.25	
3	64QAM	1	0	22.46	22.60	22.36	23.7
3	64QAM	1	8	22.53	22.54	22.31	
3	64QAM	1	14	22.41	22.34	22.24	
3	64QAM	8	0	21.41	21.36	21.30	22.7
3	64QAM	8	4	21.41	21.28	21.23	
3	64QAM	8	7	21.38	21.27	21.20	
3	64QAM	15	0	21.39	21.36	21.23	
3	256QAM	1	0	19.75	19.96	19.74	20.7
3	256QAM	1	8	19.93	19.88	19.59	
3	256QAM	1	14	19.74	19.72	19.54	
3	256QAM	8	0	19.69	19.77	19.62	20.7
3	256QAM	8	4	19.65	19.68	19.55	
3	256QAM	8	7	19.62	19.63	19.59	
3	256QAM	15	0	19.69	19.56	19.49	
Channel				26697	26865	27033	Tune-up limit



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Frequency (MHz)				814.7	831.5	848.3	(dBm)
1.4	QPSK	1	0	24.29	24.31	24.27	25.7
1.4	QPSK	1	3	24.13	24.14	24.10	
1.4	QPSK	1	5	24.20	24.27	24.04	
1.4	QPSK	3	0	24.18	24.30	24.21	
1.4	QPSK	3	1	24.19	24.21	24.17	
1.4	QPSK	3	3	24.14	24.28	24.14	
1.4	QPSK	6	0	23.35	23.37	23.27	24.7
1.4	16QAM	1	0	23.59	23.59	23.58	24.7
1.4	16QAM	1	3	23.62	23.52	23.56	
1.4	16QAM	1	5	23.54	23.46	23.37	
1.4	16QAM	3	0	23.66	23.62	23.54	
1.4	16QAM	3	1	23.61	23.56	23.53	
1.4	16QAM	3	3	23.50	23.42	23.39	
1.4	16QAM	6	0	22.39	22.34	22.30	23.7
1.4	64QAM	1	0	22.40	22.55	22.37	23.7
1.4	64QAM	1	3	22.58	22.59	22.37	
1.4	64QAM	1	5	22.46	22.38	22.25	
1.4	64QAM	3	0	22.41	22.58	22.37	
1.4	64QAM	3	1	22.62	22.50	22.34	
1.4	64QAM	3	3	22.49	22.37	22.17	
1.4	64QAM	6	0	21.37	21.28	21.21	22.7
1.4	256QAM	1	0	19.74	19.89	19.75	20.7
1.4	256QAM	1	3	19.83	19.82	19.63	
1.4	256QAM	1	5	19.72	19.69	19.57	
1.4	256QAM	3	0	19.70	19.71	19.71	
1.4	256QAM	3	1	19.72	19.60	19.52	
1.4	256QAM	3	3	19.64	19.56	19.58	
1.4	256QAM	6	0	19.62	19.61	19.53	20.7



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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)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	25.13	25.18	25.10	
15	QPSK	1	37	24.93	24.96	24.96	25.7
15	QPSK	1	74	25.07	25.03	24.93	
15	QPSK	36	0	24.14	24.20	24.12	
15	QPSK	36	20	24.12	24.16	24.09	24.7
15	QPSK	36	39	24.10	24.15	24.04	
15	QPSK	75	0	24.13	24.18	24.12	
15	16QAM	1	0	24.40	24.41	24.43	24.7
15	16QAM	1	37	24.39	24.33	24.29	
15	16QAM	1	74	24.37	24.29	24.15	
15	16QAM	36	0	23.17	23.18	23.11	23.7
15	16QAM	36	20	23.16	23.15	23.05	
15	16QAM	36	39	23.13	23.12	23.02	
15	16QAM	75	0	23.17	23.12	23.07	23.7
15	64QAM	1	0	23.28	23.36	23.32	
15	64QAM	1	37	23.37	23.39	23.35	
15	64QAM	1	74	23.23	23.22	23.13	22.7
15	64QAM	36	0	22.19	22.17	22.13	
15	64QAM	36	20	22.14	22.15	22.09	
15	64QAM	36	39	22.14	22.14	22.02	20.7
15	64QAM	75	0	22.17	22.16	22.10	
15	256QAM	1	0	20.57	20.62	20.62	
15	256QAM	1	37	20.65	20.67	20.65	20.7
15	256QAM	1	74	20.52	20.49	20.41	
15	256QAM	36	0	20.39	20.40	20.40	
15	256QAM	36	20	20.37	20.44	20.39	20.7
15	256QAM	36	39	20.39	20.35	20.28	
15	256QAM	75	0	20.40	20.45	20.35	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	25.12	25.05	24.94	
10	QPSK	1	25	24.91	24.87	24.92	25.7
10	QPSK	1	49	24.96	24.96	24.75	
10	QPSK	25	0	23.99	24.13	23.93	
10	QPSK	25	12	24.02	24.16	24.04	24.7
10	QPSK	25	25	23.93	24.12	23.87	
10	QPSK	50	0	24.00	23.98	24.06	
10	16QAM	1	0	24.26	24.25	24.42	24.7
10	16QAM	1	25	24.30	24.31	24.27	
10	16QAM	1	49	24.32	24.27	24.01	
10	16QAM	25	0	23.01	23.12	22.94	23.7
10	16QAM	25	12	23.06	23.03	22.86	
10	16QAM	25	25	23.08	23.09	22.87	
10	16QAM	50	0	23.07	22.95	23.00	23.7
10	64QAM	1	0	23.08	23.36	23.17	
10	64QAM	1	25	23.25	23.21	23.16	
10	64QAM	1	49	23.14	23.20	23.09	22.7
10	64QAM	25	0	22.17	22.02	22.10	
10	64QAM	25	12	22.00	22.15	22.09	
10	64QAM	25	25	21.95	22.05	22.01	20.7
10	64QAM	50	0	22.00	22.10	22.03	
10	256QAM	1	0	20.44	20.53	20.42	
10	256QAM	1	25	20.54	20.56	20.65	20.7
10	256QAM	1	49	20.42	20.30	20.33	
10	256QAM	25	0	20.20	20.21	20.26	
10	256QAM	25	12	20.29	20.32	20.31	



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10	256QAM	25	25	20.27	20.30	20.26	Tune-up limit (dBm)
10	256QAM	50	0	20.28	20.26	20.15	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	24.98	25.07	25.04	25.7
5	QPSK	1	12	24.87	24.94	24.95	
5	QPSK	1	24	25.05	24.87	24.75	
5	QPSK	12	0	24.05	24.00	24.02	24.7
5	QPSK	12	7	24.02	24.15	24.02	
5	QPSK	12	13	23.95	23.99	24.04	
5	QPSK	25	0	23.96	24.18	24.09	
5	16QAM	1	0	24.31	24.37	24.42	24.7
5	16QAM	1	12	24.33	24.23	24.10	
5	16QAM	1	24	24.36	24.26	24.04	
5	16QAM	12	0	23.15	23.05	23.02	23.7
5	16QAM	12	7	23.07	23.01	22.89	
5	16QAM	12	13	22.97	22.96	22.91	
5	16QAM	25	0	23.06	23.12	22.93	
5	64QAM	1	0	23.24	23.30	23.29	23.7
5	64QAM	1	12	23.35	23.37	23.16	
5	64QAM	1	24	23.14	23.02	23.08	
5	64QAM	12	0	22.05	22.03	22.10	22.7
5	64QAM	12	7	22.10	22.10	21.98	
5	64QAM	12	13	21.97	22.03	21.88	
5	64QAM	25	0	22.14	22.10	21.90	
5	256QAM	1	0	20.37	20.57	20.52	20.7
5	256QAM	1	12	20.63	20.59	20.56	
5	256QAM	1	24	20.46	20.33	20.30	
5	256QAM	12	0	20.21	20.29	20.40	20.7
5	256QAM	12	7	20.17	20.25	20.26	
5	256QAM	12	13	20.28	20.18	20.08	
5	256QAM	25	0	20.32	20.43	20.32	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	25.02	25.17	25.05	25.7
3	QPSK	1	8	24.80	24.88	24.79	
3	QPSK	1	14	25.00	24.96	24.90	
3	QPSK	8	0	24.07	24.07	23.94	24.7
3	QPSK	8	4	24.06	24.07	24.00	
3	QPSK	8	7	23.98	24.04	23.99	
3	QPSK	15	0	24.05	24.04	24.10	
3	16QAM	1	0	24.37	24.37	24.23	24.7
3	16QAM	1	8	24.31	24.24	24.28	
3	16QAM	1	14	24.23	24.19	24.03	
3	16QAM	8	0	23.17	23.12	23.10	23.7
3	16QAM	8	4	23.12	23.01	22.92	
3	16QAM	8	7	23.00	22.95	22.97	
3	16QAM	15	0	23.16	23.05	22.94	
3	64QAM	1	0	23.20	23.19	23.24	23.7
3	64QAM	1	8	23.33	23.27	23.31	
3	64QAM	1	14	23.15	23.18	22.96	
3	64QAM	8	0	22.16	22.09	21.99	22.7
3	64QAM	8	4	21.98	21.99	21.94	
3	64QAM	8	7	21.97	22.10	21.95	
3	64QAM	15	0	22.16	22.08	21.97	
3	256QAM	1	0	20.44	20.48	20.47	20.7
3	256QAM	1	8	20.57	20.51	20.62	
3	256QAM	1	14	20.33	20.49	20.37	
3	256QAM	8	0	20.21	20.36	20.26	20.7
3	256QAM	8	4	20.18	20.24	20.29	
3	256QAM	8	7	20.36	20.21	20.12	
3	256QAM	15	0	20.28	20.28	20.26	
Channel				26697	26865	27033	Tune-up limit



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Frequency (MHz)				814.7	831.5	848.3	(dBm)
1.4	QPSK	1	0	25.00	25.07	24.95	25.7
1.4	QPSK	1	3	24.84	24.76	24.96	
1.4	QPSK	1	5	25.05	24.96	24.90	
1.4	QPSK	3	0	25.11	25.06	25.01	
1.4	QPSK	3	1	24.84	24.76	24.85	
1.4	QPSK	3	3	25.02	24.91	24.82	
1.4	QPSK	6	0	24.12	24.00	24.02	24.7
1.4	16QAM	1	0	24.02	24.11	23.96	24.7
1.4	16QAM	1	3	24.09	23.99	23.97	
1.4	16QAM	1	5	23.97	24.01	24.06	
1.4	16QAM	3	0	24.26	24.41	24.25	
1.4	16QAM	3	1	24.24	24.17	24.21	
1.4	16QAM	3	3	24.18	24.24	24.14	
1.4	16QAM	6	0	23.08	22.98	23.03	23.7
1.4	64QAM	1	0	23.14	23.13	22.99	23.7
1.4	64QAM	1	3	23.00	23.10	22.99	
1.4	64QAM	1	5	23.02	22.94	23.07	
1.4	64QAM	3	0	23.28	23.27	23.23	
1.4	64QAM	3	1	23.28	23.21	23.29	
1.4	64QAM	3	3	23.14	23.19	22.96	
1.4	64QAM	6	0	22.12	22.15	22.05	22.7
1.4	256QAM	1	0	20.37	20.43	20.55	20.7
1.4	256QAM	1	3	20.47	20.51	20.51	
1.4	256QAM	1	5	20.41	20.35	20.38	
1.4	256QAM	3	0	20.36	20.34	20.29	
1.4	256QAM	3	1	20.33	20.31	20.38	
1.4	256QAM	3	3	20.31	20.34	20.09	
1.4	256QAM	6	0	20.20	20.38	20.26	20.7



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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)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	24.38	24.39	24.35	25.7
15	QPSK	1	37	24.23	24.16	24.19	
15	QPSK	1	74	24.30	24.28	24.14	
15	QPSK	36	0	23.42	23.43	23.34	24.7
15	QPSK	36	20	23.41	23.35	23.30	
15	QPSK	36	39	23.39	23.34	23.23	
15	QPSK	75	0	23.35	23.37	23.32	
15	16QAM	1	0	23.68	23.64	23.63	24.7
15	16QAM	1	37	23.62	23.58	23.61	
15	16QAM	1	74	23.60	23.49	23.44	
15	16QAM	36	0	22.40	22.40	22.33	23.7
15	16QAM	36	20	22.38	22.39	22.29	
15	16QAM	36	39	22.37	22.34	22.26	
15	16QAM	75	0	22.41	22.38	22.31	
15	64QAM	1	0	22.49	22.63	22.46	23.7
15	64QAM	1	37	22.62	22.59	22.37	
15	64QAM	1	74	22.49	22.41	22.27	
15	64QAM	36	0	21.41	21.42	21.37	22.7
15	64QAM	36	20	21.41	21.37	21.33	
15	64QAM	36	39	21.38	21.36	21.28	
15	64QAM	75	0	21.41	21.37	21.31	
15	256QAM	1	0	19.79	19.96	19.80	20.7
15	256QAM	1	37	19.93	19.92	19.69	
15	256QAM	1	74	19.81	19.73	19.61	
15	256QAM	36	0	19.74	19.77	19.72	20.7
15	256QAM	36	20	19.75	19.69	19.59	
15	256QAM	36	39	19.72	19.63	19.63	
15	256QAM	75	0	19.72	19.65	19.58	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	24.33	24.36	24.30	25.7
10	QPSK	1	25	24.18	24.16	24.16	
10	QPSK	1	49	24.28	24.23	24.10	
10	QPSK	25	0	23.35	23.42	23.24	24.7
10	QPSK	25	12	23.33	23.26	23.22	
10	QPSK	25	25	23.29	23.25	23.19	
10	QPSK	50	0	23.34	23.34	23.24	
10	16QAM	1	0	23.66	23.61	23.60	24.7
10	16QAM	1	25	23.58	23.50	23.52	
10	16QAM	1	49	23.59	23.39	23.35	
10	16QAM	25	0	22.33	22.36	22.27	23.7
10	16QAM	25	12	22.28	22.31	22.21	
10	16QAM	25	25	22.37	22.27	22.19	
10	16QAM	50	0	22.39	22.32	22.21	
10	64QAM	1	0	22.43	22.53	22.39	23.7
10	64QAM	1	25	22.61	22.51	22.28	
10	64QAM	1	49	22.47	22.37	22.18	
10	64QAM	25	0	21.31	21.32	21.33	
10	64QAM	25	12	21.32	21.27	21.24	22.7
10	64QAM	25	25	21.36	21.35	21.28	
10	64QAM	50	0	21.41	21.28	21.29	
10	256QAM	1	0	19.75	19.89	19.72	20.7
10	256QAM	1	25	19.91	19.86	19.60	
10	256QAM	1	49	19.71	19.66	19.61	
10	256QAM	25	0	19.72	19.72	19.69	20.7
10	256QAM	25	12	19.69	19.67	19.50	



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10	256QAM	25	25	19.62	19.59	19.59	Tune-up limit (dBm)
10	256QAM	50	0	19.65	19.63	19.53	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	24.36	24.28	24.30	25.7
5	QPSK	1	12	24.14	24.12	24.19	
5	QPSK	1	24	24.20	24.27	24.10	
5	QPSK	12	0	23.42	23.40	23.33	24.7
5	QPSK	12	7	23.40	23.28	23.25	
5	QPSK	12	13	23.37	23.25	23.21	
5	QPSK	25	0	23.25	23.28	23.24	
5	16QAM	1	0	23.68	23.60	23.60	24.7
5	16QAM	1	12	23.53	23.58	23.57	
5	16QAM	1	24	23.55	23.47	23.42	
5	16QAM	12	0	22.32	22.37	22.23	23.7
5	16QAM	12	7	22.30	22.39	22.23	
5	16QAM	12	13	22.28	22.25	22.18	
5	16QAM	25	0	22.34	22.29	22.26	
5	64QAM	1	0	22.42	22.54	22.37	23.7
5	64QAM	1	12	22.54	22.49	22.34	
5	64QAM	1	24	22.47	22.37	22.19	
5	64QAM	12	0	21.41	21.36	21.30	22.7
5	64QAM	12	7	21.39	21.28	21.25	
5	64QAM	12	13	21.34	21.28	21.21	
5	64QAM	25	0	21.35	21.33	21.25	
5	256QAM	1	0	19.70	19.92	19.75	20.7
5	256QAM	1	12	19.90	19.86	19.67	
5	256QAM	1	24	19.77	19.73	19.54	
5	256QAM	12	0	19.71	19.69	19.62	20.7
5	256QAM	12	7	19.73	19.61	19.58	
5	256QAM	12	13	19.65	19.63	19.61	
5	256QAM	25	0	19.64	19.58	19.56	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	24.31	24.30	24.29	25.7
3	QPSK	1	8	24.16	24.15	24.19	
3	QPSK	1	14	24.21	24.24	24.07	
3	QPSK	8	0	23.36	23.34	23.30	24.7
3	QPSK	8	4	23.31	23.29	23.25	
3	QPSK	8	7	23.35	23.27	23.21	
3	QPSK	15	0	23.31	23.33	23.29	
3	16QAM	1	0	23.68	23.64	23.59	24.7
3	16QAM	1	8	23.58	23.54	23.58	
3	16QAM	1	14	23.57	23.41	23.42	
3	16QAM	8	0	22.37	22.37	22.30	23.7
3	16QAM	8	4	22.33	22.36	22.24	
3	16QAM	8	7	22.36	22.29	22.16	
3	16QAM	15	0	22.39	22.38	22.25	
3	64QAM	1	0	22.46	22.60	22.36	23.7
3	64QAM	1	8	22.53	22.54	22.31	
3	64QAM	1	14	22.41	22.34	22.24	
3	64QAM	8	0	21.41	21.36	21.30	22.7
3	64QAM	8	4	21.41	21.28	21.23	
3	64QAM	8	7	21.38	21.27	21.20	
3	64QAM	15	0	21.39	21.36	21.23	
3	256QAM	1	0	19.75	19.96	19.74	20.7
3	256QAM	1	8	19.93	19.88	19.59	
3	256QAM	1	14	19.74	19.72	19.54	
3	256QAM	8	0	19.69	19.77	19.62	20.7
3	256QAM	8	4	19.65	19.68	19.55	
3	256QAM	8	7	19.62	19.63	19.59	
3	256QAM	15	0	19.69	19.56	19.49	
Channel				26697	26865	27033	Tune-up limit



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Frequency (MHz)				814.7	831.5	848.3	(dBm)
1.4	QPSK	1	0	24.29	24.31	24.27	25.7
1.4	QPSK	1	3	24.13	24.14	24.10	
1.4	QPSK	1	5	24.20	24.27	24.04	
1.4	QPSK	3	0	24.18	24.30	24.21	
1.4	QPSK	3	1	24.19	24.21	24.17	
1.4	QPSK	3	3	24.14	24.28	24.14	
1.4	QPSK	6	0	23.35	23.37	23.27	24.7
1.4	16QAM	1	0	23.59	23.59	23.58	24.7
1.4	16QAM	1	3	23.62	23.52	23.56	
1.4	16QAM	1	5	23.54	23.46	23.37	
1.4	16QAM	3	0	23.66	23.62	23.54	
1.4	16QAM	3	1	23.61	23.56	23.53	
1.4	16QAM	3	3	23.50	23.42	23.39	
1.4	16QAM	6	0	22.39	22.34	22.30	23.7
1.4	64QAM	1	0	22.40	22.55	22.37	23.7
1.4	64QAM	1	3	22.58	22.59	22.37	
1.4	64QAM	1	5	22.46	22.38	22.25	
1.4	64QAM	3	0	22.41	22.58	22.37	
1.4	64QAM	3	1	22.62	22.50	22.34	
1.4	64QAM	3	3	22.49	22.37	22.17	
1.4	64QAM	6	0	21.37	21.28	21.21	22.7
1.4	256QAM	1	0	19.74	19.89	19.75	20.7
1.4	256QAM	1	3	19.83	19.82	19.63	
1.4	256QAM	1	5	19.72	19.69	19.57	
1.4	256QAM	3	0	19.70	19.71	19.71	
1.4	256QAM	3	1	19.72	19.60	19.52	
1.4	256QAM	3	3	19.64	19.56	19.58	
1.4	256QAM	6	0	19.62	19.61	19.53	20.7



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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)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	25.13	25.18	25.10	
15	QPSK	1	37	24.93	24.96	24.96	25.7
15	QPSK	1	74	25.07	25.03	24.93	
15	QPSK	36	0	24.14	24.20	24.12	
15	QPSK	36	20	24.12	24.16	24.09	24.7
15	QPSK	36	39	24.10	24.15	24.04	
15	QPSK	75	0	24.13	24.18	24.12	
15	16QAM	1	0	24.40	24.41	24.43	24.7
15	16QAM	1	37	24.39	24.33	24.29	
15	16QAM	1	74	24.37	24.29	24.15	
15	16QAM	36	0	23.17	23.18	23.11	23.7
15	16QAM	36	20	23.16	23.15	23.05	
15	16QAM	36	39	23.13	23.12	23.02	
15	16QAM	75	0	23.17	23.12	23.07	23.7
15	64QAM	1	0	23.28	23.36	23.32	
15	64QAM	1	37	23.37	23.39	23.35	
15	64QAM	1	74	23.23	23.22	23.13	22.7
15	64QAM	36	0	22.19	22.17	22.13	
15	64QAM	36	20	22.14	22.15	22.09	
15	64QAM	36	39	22.14	22.14	22.02	20.7
15	64QAM	75	0	22.17	22.16	22.10	
15	256QAM	1	0	20.57	20.62	20.62	
15	256QAM	1	37	20.65	20.67	20.65	20.7
15	256QAM	1	74	20.52	20.49	20.41	
15	256QAM	36	0	20.39	20.40	20.40	
15	256QAM	36	20	20.37	20.44	20.39	20.7
15	256QAM	36	39	20.39	20.35	20.28	
15	256QAM	75	0	20.40	20.45	20.35	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	25.12	25.05	24.94	
10	QPSK	1	25	24.91	24.87	24.92	25.7
10	QPSK	1	49	24.96	24.96	24.75	
10	QPSK	25	0	23.99	24.13	23.93	
10	QPSK	25	12	24.02	24.16	24.04	24.7
10	QPSK	25	25	23.93	24.12	23.87	
10	QPSK	50	0	24.00	23.98	24.06	
10	16QAM	1	0	24.26	24.25	24.42	24.7
10	16QAM	1	25	24.30	24.31	24.27	
10	16QAM	1	49	24.32	24.27	24.01	
10	16QAM	25	0	23.01	23.12	22.94	23.7
10	16QAM	25	12	23.06	23.03	22.86	
10	16QAM	25	25	23.08	23.09	22.87	
10	16QAM	50	0	23.07	22.95	23.00	23.7
10	64QAM	1	0	23.08	23.36	23.17	
10	64QAM	1	25	23.25	23.21	23.16	
10	64QAM	1	49	23.14	23.20	23.09	22.7
10	64QAM	25	0	22.17	22.02	22.10	
10	64QAM	25	12	22.00	22.15	22.09	
10	64QAM	25	25	21.95	22.05	22.01	20.7
10	64QAM	50	0	22.00	22.10	22.03	
10	256QAM	1	0	20.44	20.53	20.42	
10	256QAM	1	25	20.54	20.56	20.65	20.7
10	256QAM	1	49	20.42	20.30	20.33	
10	256QAM	25	0	20.20	20.21	20.26	
10	256QAM	25	12	20.29	20.32	20.31	



FCC SAR TEST REPORT

Report No. : FA3D2001D

10	256QAM	25	25	20.27	20.30	20.26	
10	256QAM	50	0	20.28	20.26	20.15	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	24.98	25.07	25.04	25.7
5	QPSK	1	12	24.87	24.94	24.95	
5	QPSK	1	24	25.05	24.87	24.75	
5	QPSK	12	0	24.05	24.00	24.02	24.7
5	QPSK	12	7	24.02	24.15	24.02	
5	QPSK	12	13	23.95	23.99	24.04	
5	QPSK	25	0	23.96	24.18	24.09	
5	16QAM	1	0	24.31	24.37	24.42	24.7
5	16QAM	1	12	24.33	24.23	24.10	
5	16QAM	1	24	24.36	24.26	24.04	
5	16QAM	12	0	23.15	23.05	23.02	23.7
5	16QAM	12	7	23.07	23.01	22.89	
5	16QAM	12	13	22.97	22.96	22.91	
5	16QAM	25	0	23.06	23.12	22.93	
5	64QAM	1	0	23.24	23.30	23.29	23.7
5	64QAM	1	12	23.35	23.37	23.16	
5	64QAM	1	24	23.14	23.02	23.08	
5	64QAM	12	0	22.05	22.03	22.10	22.7
5	64QAM	12	7	22.10	22.10	21.98	
5	64QAM	12	13	21.97	22.03	21.88	
5	64QAM	25	0	22.14	22.10	21.90	
5	256QAM	1	0	20.37	20.57	20.52	20.7
5	256QAM	1	12	20.63	20.59	20.56	
5	256QAM	1	24	20.46	20.33	20.30	
5	256QAM	12	0	20.21	20.29	20.40	20.7
5	256QAM	12	7	20.17	20.25	20.26	
5	256QAM	12	13	20.28	20.18	20.08	
5	256QAM	25	0	20.32	20.43	20.32	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	25.02	25.17	25.05	25.7
3	QPSK	1	8	24.80	24.88	24.79	
3	QPSK	1	14	25.00	24.96	24.90	
3	QPSK	8	0	24.07	24.07	23.94	24.7
3	QPSK	8	4	24.06	24.07	24.00	
3	QPSK	8	7	23.98	24.04	23.99	
3	QPSK	15	0	24.05	24.04	24.10	
3	16QAM	1	0	24.37	24.37	24.23	24.7
3	16QAM	1	8	24.31	24.24	24.28	
3	16QAM	1	14	24.23	24.19	24.03	
3	16QAM	8	0	23.17	23.12	23.10	23.7
3	16QAM	8	4	23.12	23.01	22.92	
3	16QAM	8	7	23.00	22.95	22.97	
3	16QAM	15	0	23.16	23.05	22.94	
3	64QAM	1	0	23.20	23.19	23.24	23.7
3	64QAM	1	8	23.33	23.27	23.31	
3	64QAM	1	14	23.15	23.18	22.96	
3	64QAM	8	0	22.16	22.09	21.99	22.7
3	64QAM	8	4	21.98	21.99	21.94	
3	64QAM	8	7	21.97	22.10	21.95	
3	64QAM	15	0	22.16	22.08	21.97	
3	256QAM	1	0	20.44	20.48	20.47	20.7
3	256QAM	1	8	20.57	20.51	20.62	
3	256QAM	1	14	20.33	20.49	20.37	
3	256QAM	8	0	20.21	20.36	20.26	20.7
3	256QAM	8	4	20.18	20.24	20.29	
3	256QAM	8	7	20.36	20.21	20.12	
3	256QAM	15	0	20.28	20.28	20.26	
Channel				26697	26865	27033	Tune-up limit



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Frequency (MHz)				814.7	831.5	848.3	(dBm)
1.4	QPSK	1	0	25.00	25.07	24.95	25.7
1.4	QPSK	1	3	24.84	24.76	24.96	
1.4	QPSK	1	5	25.05	24.96	24.90	
1.4	QPSK	3	0	25.11	25.06	25.01	
1.4	QPSK	3	1	24.84	24.76	24.85	
1.4	QPSK	3	3	25.02	24.91	24.82	
1.4	QPSK	6	0	24.12	24.00	24.02	24.7
1.4	16QAM	1	0	24.02	24.11	23.96	24.7
1.4	16QAM	1	3	24.09	23.99	23.97	
1.4	16QAM	1	5	23.97	24.01	24.06	
1.4	16QAM	3	0	24.26	24.41	24.25	
1.4	16QAM	3	1	24.24	24.17	24.21	
1.4	16QAM	3	3	24.18	24.24	24.14	
1.4	16QAM	6	0	23.08	22.98	23.03	23.7
1.4	64QAM	1	0	23.14	23.13	22.99	23.7
1.4	64QAM	1	3	23.00	23.10	22.99	
1.4	64QAM	1	5	23.02	22.94	23.07	
1.4	64QAM	3	0	23.28	23.27	23.23	
1.4	64QAM	3	1	23.28	23.21	23.29	
1.4	64QAM	3	3	23.14	23.19	22.96	
1.4	64QAM	6	0	22.12	22.15	22.05	22.7
1.4	256QAM	1	0	20.37	20.43	20.55	20.7
1.4	256QAM	1	3	20.47	20.51	20.51	
1.4	256QAM	1	5	20.41	20.35	20.38	
1.4	256QAM	3	0	20.36	20.34	20.29	
1.4	256QAM	3	1	20.33	20.31	20.38	
1.4	256QAM	3	3	20.31	20.34	20.09	
1.4	256QAM	6	0	20.20	20.38	20.26	20.7



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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)
Channel				27710			
Frequency (MHz)				2310			
10	QPSK	1	0		22.49		23.5
10	QPSK	1	25		22.37		
10	QPSK	1	49		22.44		
10	QPSK	25	0		21.54		22.5
10	QPSK	25	12		21.51		
10	QPSK	25	25		21.50		
10	QPSK	50	0		21.52		22.5
10	16QAM	1	0		21.70		
10	16QAM	1	25		21.69		
10	16QAM	1	49		21.74		21.5
10	16QAM	25	0		20.54		
10	16QAM	25	12		20.52		
10	16QAM	25	25		20.50		21.5
10	16QAM	50	0		20.52		
10	64QAM	1	0		20.59		
10	64QAM	1	25		20.61		21.5
10	64QAM	1	49		20.62		
10	64QAM	25	0		19.52		
10	64QAM	25	12		19.49		20.5
10	64QAM	25	25		19.48		
10	64QAM	50	0		19.52		
10	256QAM	1	0		17.90		18.5
10	256QAM	1	25		17.95		
10	256QAM	1	49		17.90		
10	256QAM	25	0		17.85		18.5
10	256QAM	25	12		17.83		
10	256QAM	25	25		17.83		
10	256QAM	50	0		17.82		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	22.38	22.41	22.40	23.5
5	QPSK	1	12	22.28	22.28	22.30	
5	QPSK	1	24	22.40	22.44	22.42	
5	QPSK	12	0	21.53	21.44	21.47	22.5
5	QPSK	12	7	21.45	21.42	21.43	
5	QPSK	12	13	21.40	21.41	21.41	
5	QPSK	25	0	21.43	21.48	21.49	22.5
5	16QAM	1	0	21.68	21.65	21.67	
5	16QAM	1	12	21.68	21.66	21.61	
5	16QAM	1	24	21.67	21.73	21.70	21.5
5	16QAM	12	0	20.44	20.49	20.50	
5	16QAM	12	7	20.44	20.50	20.44	
5	16QAM	12	13	20.40	20.46	20.45	21.5
5	16QAM	25	0	20.49	20.48	20.43	
5	64QAM	1	0	20.55	20.55	20.59	
5	64QAM	1	12	20.53	20.54	20.57	21.5
5	64QAM	1	24	20.53	20.61	20.61	
5	64QAM	12	0	19.42	19.46	19.52	
5	64QAM	12	7	19.46	19.41	19.44	20.5
5	64QAM	12	13	19.40	19.48	19.47	
5	64QAM	25	0	19.51	19.43	19.46	
5	256QAM	1	0	17.90	17.85	17.82	18.5
5	256QAM	1	12	17.86	17.85	17.89	
5	256QAM	1	24	17.88	17.84	17.90	
5	256QAM	12	0	17.83	17.76	17.79	18.5
5	256QAM	12	7	17.83	17.75	17.74	
5	256QAM	12	13	17.82	17.80	17.83	
5	256QAM	25	0	17.81	17.79	17.77	



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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)
Channel				27710			
Frequency (MHz)				2310			
10	QPSK	1	0		18.98		19.3
10	QPSK	1	25		18.91		
10	QPSK	1	49		18.86		
10	QPSK	25	0		18.98		19.3
10	QPSK	25	12		18.80		
10	QPSK	25	25		18.82		
10	QPSK	50	0		18.79		19.3
10	16QAM	1	0		18.81		
10	16QAM	1	25		18.82		
10	16QAM	1	49		18.90		19.3
10	16QAM	25	0		18.81		
10	16QAM	25	12		18.82		
10	16QAM	25	25		18.78		19.3
10	16QAM	50	0		18.88		
10	64QAM	1	0		18.88		
10	64QAM	1	25		18.88		19.3
10	64QAM	1	49		18.78		
10	64QAM	25	0		18.92		
10	64QAM	25	12		18.85		19.3
10	64QAM	25	25		18.84		
10	64QAM	50	0		18.94		
10	256QAM	1	0		17.92		18.5
10	256QAM	1	25		17.77		
10	256QAM	1	49		17.82		
10	256QAM	25	0		17.79		18.5
10	256QAM	25	12		17.88		
10	256QAM	25	25		17.74		
10	256QAM	50	0		17.82		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	18.98	18.94	18.79	19.3
5	QPSK	1	12	18.80	18.79	18.83	
5	QPSK	1	24	18.83	18.76	18.73	
5	QPSK	12	0	18.92	18.91	18.96	19.3
5	QPSK	12	7	18.72	18.78	18.65	
5	QPSK	12	13	18.81	18.69	18.66	
5	QPSK	25	0	18.65	18.78	18.71	19.3
5	16QAM	1	0	18.69	18.62	18.61	
5	16QAM	1	12	18.71	18.69	18.75	
5	16QAM	1	24	18.70	18.76	18.77	19.3
5	16QAM	12	0	18.78	18.65	18.81	
5	16QAM	12	7	18.81	18.78	18.77	
5	16QAM	12	13	18.68	18.59	18.77	19.3
5	16QAM	25	0	18.72	18.81	18.88	
5	64QAM	1	0	18.81	18.73	18.80	
5	64QAM	1	12	18.81	18.73	18.87	19.3
5	64QAM	1	24	18.72	18.77	18.71	
5	64QAM	12	0	18.80	18.80	18.85	
5	64QAM	12	7	18.73	18.78	18.66	19.3
5	64QAM	12	13	18.71	18.68	18.74	
5	64QAM	25	0	18.87	18.85	18.94	
5	256QAM	1	0	17.82	17.80	17.77	18.5
5	256QAM	1	12	17.73	17.63	17.57	
5	256QAM	1	24	17.81	17.73	17.66	
5	256QAM	12	0	17.60	17.66	17.74	18.5
5	256QAM	12	7	17.82	17.79	17.88	
5	256QAM	12	13	17.60	17.66	17.68	
5	256QAM	25	0	17.68	17.73	17.63	



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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)
Channel				27710			
Frequency (MHz)				2310			
10	QPSK	1	0		16.91		17.4
10	QPSK	1	25		16.76		
10	QPSK	1	49		16.80		
10	QPSK	25	0		16.87		17.4
10	QPSK	25	12		16.86		
10	QPSK	25	25		16.84		
10	QPSK	50	0		16.86		17.4
10	16QAM	1	0		16.78		
10	16QAM	1	25		16.86		
10	16QAM	1	49		16.70		17.4
10	16QAM	25	0		16.90		
10	16QAM	25	12		16.84		
10	16QAM	25	25		16.85		17.4
10	16QAM	50	0		16.85		
10	64QAM	1	0		16.82		
10	64QAM	1	25		16.74		17.4
10	64QAM	1	49		16.76		
10	64QAM	25	0		16.80		
10	64QAM	25	12		16.88		17.4
10	64QAM	25	25		16.88		
10	64QAM	50	0		16.90		
10	256QAM	1	0		16.71		17.4
10	256QAM	1	25		16.75		
10	256QAM	1	49		16.72		
10	256QAM	25	0		16.74		17.4
10	256QAM	25	12		16.71		
10	256QAM	25	25		16.70		
10	256QAM	50	0		16.68		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	16.73	16.83	16.89	17.4
5	QPSK	1	12	16.66	16.73	16.78	
5	QPSK	1	24	16.71	16.78	16.68	
5	QPSK	12	0	16.76	16.75	16.85	17.4
5	QPSK	12	7	16.67	16.83	16.83	
5	QPSK	12	13	16.77	16.64	16.72	
5	QPSK	25	0	16.69	16.69	16.72	17.4
5	16QAM	1	0	16.65	16.65	16.62	
5	16QAM	1	12	16.82	16.83	16.72	
5	16QAM	1	24	16.73	16.60	16.70	17.4
5	16QAM	12	0	16.77	16.75	16.89	
5	16QAM	12	7	16.74	16.76	16.68	
5	16QAM	12	13	16.68	16.81	16.78	17.4
5	16QAM	25	0	16.79	16.75	16.83	
5	64QAM	1	0	16.75	16.77	16.69	
5	64QAM	1	12	16.70	16.61	16.73	17.4
5	64QAM	1	24	16.64	16.64	16.75	
5	64QAM	12	0	16.60	16.78	16.77	
5	64QAM	12	7	16.76	16.69	16.85	17.4
5	64QAM	12	13	16.83	16.87	16.77	
5	64QAM	25	0	16.80	16.89	16.84	
5	256QAM	1	0	16.65	16.52	16.59	17.4
5	256QAM	1	12	16.66	16.55	16.58	
5	256QAM	1	24	16.61	16.60	16.59	
5	256QAM	12	0	16.56	16.55	16.70	17.4
5	256QAM	12	7	16.56	16.53	16.53	
5	256QAM	12	13	16.61	16.57	16.66	
5	256QAM	25	0	16.65	16.62	16.68	



<LTE Band 30_Ant 1_Index 9>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				27710			
Frequency (MHz)				2310			
10	QPSK	1	0		21.17		21.2
10	QPSK	1	25		20.96		
10	QPSK	1	49		21.05		
10	QPSK	25	0		21.15		21.2
10	QPSK	25	12		21.14		
10	QPSK	25	25		21.11		
10	QPSK	50	0		21.08		21.2
10	16QAM	1	0		21.08		
10	16QAM	1	25		21.10		
10	16QAM	1	49		21.10		21.2
10	16QAM	25	0		20.50		
10	16QAM	25	12		20.58		
10	16QAM	25	25		20.57		21.2
10	16QAM	50	0		20.57		
10	64QAM	1	0		20.62		
10	64QAM	1	25		20.43		21.2
10	64QAM	1	49		20.57		
10	64QAM	25	0		19.54		
10	64QAM	25	12		19.52		20.5
10	64QAM	25	25		19.51		
10	64QAM	50	0		19.56		
10	256QAM	1	0		17.86		18.5
10	256QAM	1	25		17.75		
10	256QAM	1	49		17.85		
10	256QAM	25	0		17.77		18.5
10	256QAM	25	12		17.81		
10	256QAM	25	25		17.83		
10	256QAM	50	0		17.80		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	20.92	21.04	21.00	21.2
5	QPSK	1	12	20.91	21.02	20.94	
5	QPSK	1	24	20.84	20.89	21.07	
5	QPSK	12	0	21.03	21.03	21.00	21.2
5	QPSK	12	7	21.10	20.96	20.96	
5	QPSK	12	13	20.95	20.97	21.02	
5	QPSK	25	0	21.07	21.01	21.06	21.2
5	16QAM	1	0	21.03	21.09	21.07	
5	16QAM	1	12	21.07	21.08	21.10	
5	16QAM	1	24	21.13	21.06	21.12	21.2
5	16QAM	12	0	20.34	20.32	20.43	
5	16QAM	12	7	20.51	20.52	20.46	
5	16QAM	12	13	20.29	20.40	20.48	21.2
5	16QAM	25	0	20.32	20.47	20.36	
5	64QAM	1	0	20.42	20.54	20.50	
5	64QAM	1	12	20.40	20.40	20.42	21.2
5	64QAM	1	24	20.51	20.32	20.45	
5	64QAM	12	0	19.53	19.39	19.37	20.5
5	64QAM	12	7	19.34	19.44	19.44	
5	64QAM	12	13	19.41	19.34	19.42	
5	64QAM	25	0	19.34	19.31	19.45	18.5
5	256QAM	1	0	17.81	17.82	17.65	
5	256QAM	1	12	17.70	17.57	17.58	
5	256QAM	1	24	17.77	17.69	17.80	18.5
5	256QAM	12	0	17.74	17.66	17.78	
5	256QAM	12	7	17.63	17.72	17.71	
5	256QAM	12	13	17.80	17.66	17.74	18.5
5	256QAM	25	0	17.70	17.69	17.78	