

Band42 Ant2 DS12

BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				42190	42590	42990	
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	19.45	19.68	19.26	20.0
20	QPSK	1	49	19.39	19.14	19.23	
20	QPSK	1	99	19.38	19.11	19.14	
20	QPSK	50	0	19.48	19.20	19.22	20.0
20	QPSK	50	24	19.49	19.21	19.29	
20	QPSK	50	50	19.46	19.24	19.32	
20	QPSK	100	0	19.49	19.20	19.32	20.0
20	16QAM	1	0	19.56	19.34	19.40	
20	16QAM	1	49	19.54	19.32	19.43	
20	16QAM	1	99	19.56	19.40	19.44	20.0
20	16QAM	50	0	19.48	19.26	19.26	
20	16QAM	50	24	19.49	19.26	19.31	
20	16QAM	50	50	19.52	19.22	19.33	20.0
20	16QAM	100	0	19.45	19.24	19.26	
20	64QAM	1	0	19.49	19.26	19.34	
20	64QAM	1	49	19.58	19.26	19.48	20.0
20	64QAM	1	99	19.66	19.27	19.40	
20	64QAM	50	0	19.44	19.21	19.24	
20	64QAM	50	24	19.51	19.26	19.38	20.0
20	64QAM	50	50	19.48	19.22	19.32	
20	64QAM	100	0	19.45	19.25	19.28	
20	256QAM	1	0	17.81	17.63	17.57	18.5
20	256QAM	1	49	17.82	17.62	17.63	
20	256QAM	1	99	17.83	17.64	17.66	
20	256QAM	50	0	17.79	17.51	17.56	18.5
20	256QAM	50	24	17.79	17.52	17.63	
20	256QAM	50	50	17.80	17.55	17.62	
20	256QAM	100	0	17.81	17.50	17.64	
Channel				42165	42590	43015	Tune-up limit
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	19.44	19.20	19.29	20.0
15	QPSK	1	37	19.44	19.19	19.30	
15	QPSK	1	74	19.39	19.16	19.28	
15	QPSK	36	0	19.43	19.23	19.23	20.0
15	QPSK	36	20	19.43	19.17	19.27	
15	QPSK	39	39	19.45	19.21	19.30	
15	QPSK	75	0	19.43	19.19	19.31	20.0
15	16QAM	1	0	19.52	19.30	19.39	
15	16QAM	1	37	19.46	19.38	19.33	
15	16QAM	1	74	19.40	19.17	19.25	20.0
15	16QAM	36	0	19.48	19.23	19.25	
15	16QAM	36	20	19.41	19.22	19.28	
15	16QAM	39	39	19.45	19.21	19.30	20.0
15	16QAM	75	0	19.43	19.16	19.28	
15	64QAM	1	0	19.49	19.21	19.35	
15	64QAM	1	37	19.41	19.37	19.28	20.0
15	64QAM	1	74	19.40	19.13	19.45	
15	64QAM	36	0	19.46	19.19	19.22	
15	64QAM	36	20	19.46	19.26	19.33	20.0
15	64QAM	39	39	19.44	19.25	19.30	
15	64QAM	75	0	19.48	19.20	19.30	
15	256QAM	1	0	17.74	17.73	17.67	18.5
15	256QAM	1	37	17.88	17.65	17.63	
15	256QAM	1	74	17.84	17.64	17.72	
15	256QAM	36	0	17.75	17.52	17.58	18.5
15	256QAM	36	20	17.78	17.53	17.63	
15	256QAM	39	39	17.76	17.56	17.60	
15	256QAM	75	0	17.78	17.54	17.60	

Channel				42140	42590	43040	Tune-up limit
Frequency (MHz)				3455	3500	3545	
10	QPSK	1	0	19.60	19.38	19.45	20.0
10	QPSK	1	25	19.62	19.39	19.54	
10	QPSK	1	49	19.58	19.30	19.45	
10	QPSK	25	0	19.59	19.38	19.40	20.0
10	QPSK	25	12	19.64	19.37	19.40	
10	QPSK	25	25	19.60	19.37	19.45	
10	QPSK	50	0	19.56	19.40	19.37	
10	16QAM	1	0	19.64	19.48	19.52	20.0
10	16QAM	1	25	19.56	19.47	19.50	
10	16QAM	1	49	19.59	19.55	19.58	
10	16QAM	25	0	19.62	19.35	19.40	20.0
10	16QAM	25	12	19.64	19.44	19.47	
10	16QAM	25	25	19.63	19.40	19.46	
10	16QAM	50	0	19.59	19.39	19.35	
10	64QAM	1	0	19.64	19.60	19.54	20.0
10	64QAM	1	25	19.63	19.64	19.59	
10	64QAM	1	49	19.59	19.64	19.58	
10	64QAM	25	0	19.61	19.40	19.40	20.0
10	64QAM	25	12	19.64	19.37	19.45	
10	64QAM	25	25	19.61	19.40	19.50	
10	64QAM	50	0	19.65	19.41	19.40	
10	256QAM	1	0	18.04	17.67	17.83	18.5
10	256QAM	1	25	18.04	17.77	18.01	
10	256QAM	1	49	18.00	17.78	17.88	
10	256QAM	25	0	17.92	17.65	17.68	18.5
10	256QAM	25	12	17.95	17.71	17.76	
10	256QAM	25	25	17.90	17.69	17.77	
10	256QAM	50	0	17.94	17.67	17.71	
Channel				42115	42590	43065	Tune-up limit
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	19.57	19.33	19.45	20.0
5	QPSK	1	12	19.60	19.39	19.51	
5	QPSK	1	24	19.55	19.36	19.42	
5	QPSK	12	0	19.61	19.35	19.34	20.0
5	QPSK	12	7	19.61	19.36	19.39	
5	QPSK	12	13	19.53	19.40	19.49	
5	QPSK	25	0	19.56	19.35	19.36	
5	16QAM	1	0	19.66	19.62	19.63	20.0
5	16QAM	1	12	19.60	19.53	19.64	
5	16QAM	1	24	19.45	19.52	19.61	
5	16QAM	12	0	19.64	19.41	19.41	20.0
5	16QAM	12	7	19.65	19.48	19.43	
5	16QAM	12	13	19.65	19.46	19.47	
5	16QAM	25	0	19.57	19.38	19.39	
5	64QAM	1	0	19.64	19.43	19.62	20.0
5	64QAM	1	12	19.65	19.47	19.63	
5	64QAM	1	24	19.66	19.40	19.58	
5	64QAM	12	0	19.59	19.42	19.43	20.0
5	64QAM	12	7	19.64	19.40	19.43	
5	64QAM	12	13	19.63	19.44	19.47	
5	64QAM	25	0	19.62	19.34	19.40	
5	256QAM	1	0	17.61	17.51	17.46	18.5
5	256QAM	1	12	17.76	17.55	17.57	
5	256QAM	1	24	17.79	17.49	17.63	
5	256QAM	12	0	17.63	17.37	17.40	18.5
5	256QAM	12	7	17.68	17.42	17.42	
5	256QAM	12	13	17.64	17.36	17.54	
5	256QAM	25	0	17.61	17.42	17.43	

Band4 Ant1 DSI3

BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	20.28	20.72	20.52	21.5
20	QPSK	1	49	20.20	20.38	20.56	
20	QPSK	1	99	20.34	20.64	20.37	
20	QPSK	50	0	20.35	20.37	20.58	21.5
20	QPSK	50	24	20.29	20.57	20.68	
20	QPSK	50	50	20.30	20.59	20.51	
20	QPSK	100	0	20.32	20.47	20.59	
20	16QAM	1	0	20.59	20.50	20.46	21.5
20	16QAM	1	49	20.46	20.64	20.16	
20	16QAM	1	99	20.60	20.39	20.63	
20	16QAM	50	0	20.38	20.45	20.62	21.5
20	16QAM	50	24	20.28	20.57	20.57	
20	16QAM	50	50	20.34	20.50	20.51	
20	16QAM	100	0	20.28	20.48	20.58	
20	64QAM	1	0	20.46	20.49	20.42	21.5
20	64QAM	1	49	20.59	20.61	20.48	
20	64QAM	1	99	20.69	20.17	20.41	
20	64QAM	50	0	19.97	20.04	20.25	21.5
20	64QAM	50	24	19.87	20.14	20.22	
20	64QAM	50	50	19.86	20.18	20.07	
20	64QAM	100	0	19.87	19.97	20.14	
20	256QAM	1	0	18.45	18.21	18.69	19.0
20	256QAM	1	49	18.26	18.38	18.48	
20	256QAM	1	99	18.47	18.86	18.57	
20	256QAM	50	0	18.18	18.25	18.52	19.0
20	256QAM	50	24	18.19	18.36	18.51	
20	256QAM	50	50	18.17	18.50	18.46	
20	256QAM	100	0	18.19	18.35	18.54	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	20.22	20.37	20.49	21.5
15	QPSK	1	37	20.21	20.49	20.50	
15	QPSK	1	74	20.24	20.20	20.36	
15	QPSK	36	0	20.37	20.56	20.56	21.5
15	QPSK	36	20	20.34	20.62	20.65	
15	QPSK	39	39	20.31	20.66	20.51	
15	QPSK	75	0	20.32	20.66	20.61	
15	16QAM	1	0	20.46	20.61	20.53	21.5
15	16QAM	1	37	20.34	20.07	20.56	
15	16QAM	1	74	20.47	20.09	20.60	
15	16QAM	36	0	20.43	20.54	20.55	21.5
15	16QAM	36	20	20.20	20.61	20.55	
15	16QAM	39	39	20.21	20.58	20.50	
15	16QAM	75	0	20.33	20.64	20.63	
15	64QAM	1	0	20.41	20.60	20.25	21.5
15	64QAM	1	37	20.36	20.67	20.58	
15	64QAM	1	74	20.55	20.07	20.40	
15	64QAM	36	0	20.05	20.13	20.19	21.5
15	64QAM	36	20	19.98	20.21	20.17	
15	64QAM	39	39	19.86	20.27	20.14	
15	64QAM	75	0	19.93	20.24	20.17	
15	256QAM	1	0	18.49	18.45	18.53	19.0
15	256QAM	1	37	18.44	18.55	18.69	
15	256QAM	1	74	18.52	18.68	18.46	
15	256QAM	36	0	18.35	18.48	18.52	19.0
15	256QAM	36	20	18.24	18.55	18.49	
15	256QAM	39	39	18.26	18.59	18.47	
15	256QAM	75	0	18.20	18.59	18.47	

Channel				20000	20175	20350	Tune-up limit
Frequency (MHz)				1715	1732.5	1750	(dBm)
10	QPSK	1	0	20.42	20.45	20.66	21.5
10	QPSK	1	25	20.55	20.66	20.64	
10	QPSK	1	49	20.45	20.13	20.51	
10	QPSK	25	0	20.53	20.63	20.26	21.5
10	QPSK	25	12	20.43	20.61	20.68	
10	QPSK	25	25	20.38	20.62	20.66	
10	QPSK	50	0	20.44	20.55	20.12	
10	16QAM	1	0	20.65	20.52	20.23	21.5
10	16QAM	1	25	20.70	20.13	20.22	
10	16QAM	1	49	20.67	20.02	20.00	
10	16QAM	25	0	20.53	20.61	20.70	21.5
10	16QAM	25	12	20.50	20.62	20.70	
10	16QAM	25	25	20.45	20.67	20.66	
10	16QAM	50	0	20.56	20.66	20.62	
10	64QAM	1	0	20.69	20.67	20.03	21.5
10	64QAM	1	25	20.16	20.20	20.02	
10	64QAM	1	49	20.54	20.27	20.36	
10	64QAM	25	0	20.23	20.18	20.34	21.5
10	64QAM	25	12	20.12	20.31	20.35	
10	64QAM	25	25	20.12	20.27	20.27	
10	64QAM	50	0	20.09	20.13	20.27	
10	256QAM	1	0	18.70	18.52	18.70	19.0
10	256QAM	1	25	18.77	18.66	18.79	
10	256QAM	1	49	18.49	18.65	18.72	
10	256QAM	25	0	18.49	18.52	18.64	19.0
10	256QAM	25	12	18.56	18.62	18.63	
10	256QAM	25	25	18.48	18.60	18.64	
10	256QAM	50	0	18.45	18.55	18.59	
Channel				19975	20175	20375	Tune-up limit
Frequency (MHz)				1712.5	1732.5	1752.5	(dBm)
5	QPSK	1	0	20.46	20.65	20.60	21.5
5	QPSK	1	12	20.58	20.18	20.60	
5	QPSK	1	24	20.51	20.31	20.59	
5	QPSK	12	0	20.55	20.25	20.59	21.5
5	QPSK	12	7	20.60	20.20	20.66	
5	QPSK	12	13	20.57	20.02	20.68	
5	QPSK	25	0	20.57	20.23	20.63	
5	16QAM	1	0	20.21	20.19	20.67	21.5
5	16QAM	1	12	20.39	20.28	20.23	
5	16QAM	1	24	20.51	20.33	20.26	
5	16QAM	12	0	20.58	20.27	20.69	21.5
5	16QAM	12	7	20.62	20.25	20.69	
5	16QAM	12	13	20.60	20.25	20.69	
5	16QAM	25	0	20.62	20.00	20.59	
5	64QAM	1	0	20.27	20.38	20.67	21.5
5	64QAM	1	12	20.22	20.37	20.10	
5	64QAM	1	24	20.67	20.25	20.65	
5	64QAM	12	0	20.21	20.39	20.22	21.5
5	64QAM	12	7	20.25	20.46	20.27	
5	64QAM	12	13	20.17	20.46	20.22	
5	64QAM	25	0	20.25	20.42	20.26	
5	256QAM	1	0	18.55	18.86	18.69	19.0
5	256QAM	1	12	18.61	18.87	18.72	
5	256QAM	1	24	18.72	18.94	18.62	
5	256QAM	12	0	18.55	18.70	18.60	19.0
5	256QAM	12	7	18.59	18.74	18.63	
5	256QAM	12	13	18.50	18.79	18.51	
5	256QAM	25	0	18.46	18.73	18.53	
Channel				19965	20175	20385	Tune-up limit
Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	20.49	20.56	20.34	

3	QPSK	1	8	20.52	20.63	20.14	21.5
3	QPSK	1	14	20.48	20.62	20.31	
3	QPSK	8	0	20.56	20.56	20.02	
3	QPSK	8	4	20.58	20.67	20.07	21.5
3	QPSK	8	7	20.55	20.62	20.18	
3	QPSK	15	0	20.61	20.56	20.40	
3	16QAM	1	0	20.58	20.62	20.17	
3	16QAM	1	8	20.36	20.08	20.17	21.5
3	16QAM	1	14	20.29	20.09	20.39	
3	16QAM	8	0	20.63	20.64	20.04	
3	16QAM	8	4	20.65	20.68	20.15	21.5
3	16QAM	8	7	20.57	20.65	20.32	
3	16QAM	15	0	20.53	20.63	20.01	
3	64QAM	1	0	20.37	20.69	20.12	
3	64QAM	1	8	20.40	20.27	20.32	21.5
3	64QAM	1	14	20.55	20.40	20.34	
3	64QAM	8	0	20.17	20.29	20.47	
3	64QAM	8	4	20.21	20.29	20.46	21.5
3	64QAM	8	7	20.26	20.25	20.37	
3	64QAM	15	0	20.21	20.13	20.45	
3	256QAM	1	0	18.59	18.54	18.65	
3	256QAM	1	8	18.63	18.75	18.96	19.0
3	256QAM	1	14	18.49	18.66	18.68	
3	256QAM	8	0	18.54	18.59	18.72	
3	256QAM	8	4	18.59	18.57	18.77	19.0
3	256QAM	8	7	18.60	18.54	18.72	
3	256QAM	15	0	18.49	18.54	18.63	
Channel				19957	20175	20393	Tune-up limit
Frequency (MHz)				1710.7	1732.5	1754.3	(dBm)
1.4	QPSK	1	0	20.53	20.49	20.48	
1.4	QPSK	1	3	20.50	20.60	20.56	21.5
1.4	QPSK	1	5	20.52	20.54	20.53	
1.4	QPSK	3	0	20.56	20.65	20.55	
1.4	QPSK	3	1	20.54	20.65	20.58	21.5
1.4	QPSK	3	3	20.53	20.62	20.54	
1.4	QPSK	6	0	20.53	20.58	20.57	
1.4	16QAM	1	0	20.30	20.70	20.65	
1.4	16QAM	1	3	20.56	20.36	20.57	21.5
1.4	16QAM	1	5	20.49	20.67	20.69	
1.4	16QAM	3	0	20.61	20.68	20.57	
1.4	16QAM	3	1	20.67	20.00	20.66	21.5
1.4	16QAM	3	3	20.60	20.70	20.64	
1.4	16QAM	6	0	20.50	20.33	20.56	
1.4	64QAM	1	0	20.66	20.69	20.17	
1.4	64QAM	1	3	20.25	20.16	20.13	21.5
1.4	64QAM	1	5	20.56	20.54	20.58	
1.4	64QAM	3	0	20.70	20.68	20.11	
1.4	64QAM	3	1	20.52	20.00	20.66	21.5
1.4	64QAM	3	3	20.59	20.67	20.61	
1.4	64QAM	6	0	20.24	20.24	20.23	
1.4	256QAM	1	0	18.62	18.66	18.52	
1.4	256QAM	1	3	18.75	18.74	18.75	19.0
1.4	256QAM	1	5	18.63	18.47	18.51	
1.4	256QAM	3	0	18.56	18.63	18.57	
1.4	256QAM	3	1	18.52	18.43	18.56	19.0
1.4	256QAM	3	3	18.55	18.72	18.52	
1.4	256QAM	6	0	18.47	18.55	18.51	

Band2 Ant1 DSI3

BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	19.67	20.14	19.79	21.5
20	QPSK	1	49	19.44	19.76	19.57	
20	QPSK	1	99	19.56	19.97	18.94	
20	QPSK	50	0	19.58	19.64	19.76	21.5
20	QPSK	50	24	19.37	19.74	19.63	
20	QPSK	50	50	19.38	19.86	19.20	
20	QPSK	100	0	19.43	19.76	19.50	
20	16QAM	1	0	19.74	19.87	20.05	21.5
20	16QAM	1	49	19.60	20.11	19.66	
20	16QAM	1	99	19.47	20.12	19.30	
20	16QAM	50	0	19.62	19.79	19.76	21.5
20	16QAM	50	24	19.50	19.76	19.62	
20	16QAM	50	50	19.44	19.84	19.31	
20	16QAM	100	0	19.44	19.76	19.55	
20	64QAM	1	0	19.87	19.63	19.99	21.5
20	64QAM	1	49	19.61	19.94	19.45	
20	64QAM	1	99	19.73	20.04	19.10	
20	64QAM	50	0	19.25	19.35	19.35	21.5
20	64QAM	50	24	19.06	19.35	19.22	
20	64QAM	50	50	19.00	19.51	18.80	
20	64QAM	100	0	19.10	19.42	19.32	
20	256QAM	1	0	17.93	17.46	17.86	19.0
20	256QAM	1	49	17.54	17.78	17.57	
20	256QAM	1	99	17.37	17.86	16.98	
20	256QAM	50	0	17.49	17.61	17.73	19.0
20	256QAM	50	24	17.35	17.73	17.54	
20	256QAM	50	50	17.40	17.83	17.21	
20	256QAM	100	0	17.39	17.72	17.54	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	19.74	19.49	19.62	21.5
15	QPSK	1	37	19.48	19.75	19.34	
15	QPSK	1	74	19.44	19.81	18.93	
15	QPSK	36	0	19.69	19.75	19.61	21.5
15	QPSK	36	20	19.54	19.79	19.38	
15	QPSK	39	39	19.45	19.89	19.17	
15	QPSK	75	0	19.50	19.71	19.42	
15	16QAM	1	0	19.95	19.71	19.91	21.5
15	16QAM	1	37	19.61	19.81	19.45	
15	16QAM	1	74	19.53	20.06	18.97	
15	16QAM	36	0	19.65	19.83	19.59	21.5
15	16QAM	36	20	19.50	19.82	19.44	
15	16QAM	39	39	19.44	19.89	19.18	
15	16QAM	75	0	19.53	19.75	19.43	
15	64QAM	1	0	19.90	19.75	19.74	21.5
15	64QAM	1	37	19.49	19.70	19.59	
15	64QAM	1	74	19.55	20.02	18.95	
15	64QAM	36	0	19.34	19.35	19.24	21.5
15	64QAM	36	20	19.07	19.44	19.10	
15	64QAM	39	39	19.00	19.49	18.76	
15	64QAM	75	0	19.17	19.36	19.04	
15	256QAM	1	0	17.80	17.73	17.95	19.0
15	256QAM	1	37	17.62	17.79	17.38	
15	256QAM	1	74	17.54	17.93	16.99	
15	256QAM	36	0	17.57	17.67	17.54	19.0
15	256QAM	36	20	17.39	17.65	17.32	
15	256QAM	39	39	17.30	17.80	17.12	
15	256QAM	75	0	17.46	17.75	17.37	

Channel				18650	18900	19150	Tune-up limit
Frequency (MHz)				1855	1880	1905	(dBm)
10	QPSK	1	0	19.92	19.84	19.54	21.5
10	QPSK	1	25	19.78	19.97	19.39	
10	QPSK	1	49	19.60	20.06	19.15	
10	QPSK	25	0	19.87	19.91	19.50	21.5
10	QPSK	25	12	19.81	19.98	19.35	
10	QPSK	25	25	19.66	20.01	19.21	
10	QPSK	50	0	19.80	20.04	19.39	21.5
10	16QAM	1	0	20.03	19.95	19.71	
10	16QAM	1	25	20.06	20.02	19.54	
10	16QAM	1	49	19.84	20.06	19.21	21.5
10	16QAM	25	0	19.91	20.02	19.54	
10	16QAM	25	12	19.83	19.95	19.43	
10	16QAM	25	25	19.69	20.02	19.27	21.5
10	16QAM	50	0	19.85	20.00	19.40	
10	64QAM	1	0	19.97	20.01	19.61	
10	64QAM	1	25	20.02	20.06	19.56	21.5
10	64QAM	1	49	19.75	20.02	19.34	
10	64QAM	25	0	19.52	19.54	19.17	
10	64QAM	25	12	19.45	19.62	19.03	21.5
10	64QAM	25	25	19.28	19.61	18.78	
10	64QAM	50	0	19.45	19.58	19.09	
10	256QAM	1	0	18.11	17.86	17.51	19.0
10	256QAM	1	25	17.84	18.11	17.39	
10	256QAM	1	49	17.65	18.13	17.13	
10	256QAM	25	0	17.79	17.86	17.54	19.0
10	256QAM	25	12	17.70	17.87	17.44	
10	256QAM	25	25	17.56	17.96	17.15	
10	256QAM	50	0	17.72	17.92	17.36	
Channel				18625	18900	19175	Tune-up limit
Frequency (MHz)				1852.5	1880	1907.5	(dBm)
5	QPSK	1	0	19.88	19.86	19.36	21.5
5	QPSK	1	12	19.80	20.02	19.21	
5	QPSK	1	24	19.72	19.94	19.07	
5	QPSK	12	0	19.95	19.97	19.26	21.5
5	QPSK	12	7	19.95	19.99	19.25	
5	QPSK	12	13	19.83	19.93	19.15	
5	QPSK	25	0	19.89	20.00	19.28	21.5
5	16QAM	1	0	20.04	20.05	19.49	
5	16QAM	1	12	20.05	20.11	19.54	
5	16QAM	1	24	19.90	20.09	19.42	21.5
5	16QAM	12	0	19.96	20.01	19.33	
5	16QAM	12	7	20.02	19.96	19.38	
5	16QAM	12	13	19.90	20.09	19.25	21.5
5	16QAM	25	0	19.91	19.96	19.30	
5	64QAM	1	0	20.07	19.99	19.70	
5	64QAM	1	12	20.02	20.13	19.40	21.5
5	64QAM	1	24	19.92	20.00	19.24	
5	64QAM	12	0	19.62	19.62	18.92	
5	64QAM	12	7	19.57	19.59	18.95	21.5
5	64QAM	12	13	19.48	19.64	18.84	
5	64QAM	25	0	19.50	19.58	18.88	
5	256QAM	1	0	18.03	17.93	17.37	19.0
5	256QAM	1	12	18.06	18.11	17.18	
5	256QAM	1	24	17.74	17.96	17.22	
5	256QAM	12	0	17.91	17.86	17.30	19.0
5	256QAM	12	7	17.82	17.93	17.28	
5	256QAM	12	13	17.80	17.90	17.14	
5	256QAM	25	0	17.75	17.90	17.15	
Channel				18615	18900	19185	Tune-up limit
Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	19.91	19.85	19.13	

3	QPSK	1	8	19.92	19.96	19.17	21.5
3	QPSK	1	14	19.77	19.86	19.12	
3	QPSK	8	0	19.95	19.96	19.23	
3	QPSK	8	4	19.91	19.88	19.25	21.5
3	QPSK	8	7	19.87	19.94	19.24	
3	QPSK	15	0	19.86	19.92	19.20	
3	16QAM	1	0	19.98	19.96	19.36	
3	16QAM	1	8	19.99	19.32	19.22	21.5
3	16QAM	1	14	19.90	20.03	19.39	
3	16QAM	8	0	19.98	20.04	19.30	
3	16QAM	8	4	20.00	19.96	19.38	21.5
3	16QAM	8	7	19.91	20.01	19.19	
3	16QAM	15	0	19.85	19.88	19.15	
3	64QAM	1	0	20.08	20.13	19.32	
3	64QAM	1	8	20.00	20.01	19.32	21.5
3	64QAM	1	14	19.86	20.06	19.19	
3	64QAM	8	0	19.65	19.58	18.88	
3	64QAM	8	4	19.63	19.56	18.92	21.5
3	64QAM	8	7	19.45	19.57	18.85	
3	64QAM	15	0	19.53	19.51	18.88	
3	256QAM	1	0	17.94	17.98	17.19	
3	256QAM	1	8	18.15	18.06	17.34	19.0
3	256QAM	1	14	17.78	17.98	17.17	
3	256QAM	8	0	17.90	17.98	17.21	
3	256QAM	8	4	17.91	17.87	17.18	19.0
3	256QAM	8	7	17.81	17.85	17.17	
3	256QAM	15	0	17.74	17.85	17.10	
Channel				18607	18900	19193	Tune-up limit
Frequency (MHz)				1850.7	1880	1909.3	(dBm)
1.4	QPSK	1	0	19.89	19.89	19.01	
1.4	QPSK	1	3	19.89	19.88	19.11	21.5
1.4	QPSK	1	5	19.90	19.93	19.02	
1.4	QPSK	3	0	19.89	19.92	19.12	
1.4	QPSK	3	1	19.93	19.95	19.17	21.5
1.4	QPSK	3	3	19.87	19.89	19.14	
1.4	QPSK	6	0	19.87	19.92	19.12	
1.4	16QAM	1	0	19.98	19.97	19.35	
1.4	16QAM	1	3	20.04	20.03	19.34	21.5
1.4	16QAM	1	5	20.07	20.03	19.29	
1.4	16QAM	3	0	20.00	19.97	19.24	
1.4	16QAM	3	1	19.98	20.10	19.21	21.5
1.4	16QAM	3	3	19.97	20.06	19.18	
1.4	16QAM	6	0	20.01	20.02	19.18	
1.4	64QAM	1	0	20.01	20.05	19.26	
1.4	64QAM	1	3	20.07	20.06	19.23	21.5
1.4	64QAM	1	5	20.09	20.03	19.16	
1.4	64QAM	3	0	20.10	19.99	19.24	
1.4	64QAM	3	1	20.12	19.99	19.22	21.5
1.4	64QAM	3	3	20.01	20.01	19.14	
1.4	64QAM	6	0	19.58	19.62	18.81	
1.4	256QAM	1	0	17.95	18.02	17.25	
1.4	256QAM	1	3	18.01	17.93	17.22	19.0
1.4	256QAM	1	5	17.93	17.90	17.13	
1.4	256QAM	3	0	17.89	17.98	17.07	
1.4	256QAM	3	1	17.96	18.05	17.11	19.0
1.4	256QAM	3	3	17.90	17.92	17.17	
1.4	256QAM	6	0	17.91	17.94	17.10	

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BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	20.43	20.89	20.66	21.5
20	QPSK	1	49	20.24	20.38	20.69	
20	QPSK	1	99	20.14	20.54	20.35	
20	QPSK	50	0	20.39	20.33	20.75	21.5
20	QPSK	50	24	20.36	20.42	20.63	
20	QPSK	50	50	20.20	20.51	20.54	
20	QPSK	100	0	20.33	20.41	20.73	
20	16QAM	1	0	20.59	20.09	20.69	21.5
20	16QAM	1	49	20.59	20.56	20.59	
20	16QAM	1	99	20.51	20.86	20.43	
20	16QAM	50	0	20.45	20.35	20.83	21.5
20	16QAM	50	24	20.32	20.48	20.80	
20	16QAM	50	50	20.18	20.57	20.53	
20	16QAM	100	0	20.37	20.45	20.70	
20	64QAM	1	0	20.44	20.30	20.66	21.5
20	64QAM	1	49	20.44	20.49	20.77	
20	64QAM	1	99	20.31	20.55	20.47	
20	64QAM	50	0	19.92	19.92	20.42	21.5
20	64QAM	50	24	19.87	20.01	20.30	
20	64QAM	50	50	19.85	20.16	20.20	
20	64QAM	100	0	19.86	20.11	20.20	
20	256QAM	1	0	18.39	17.94	18.34	19.0
20	256QAM	1	49	18.06	18.13	18.33	
20	256QAM	1	99	18.03	18.27	18.04	
20	256QAM	50	0	18.03	18.03	18.34	19.0
20	256QAM	50	24	17.88	18.03	18.30	
20	256QAM	50	50	17.81	18.11	18.22	
20	256QAM	100	0	17.98	18.02	18.32	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	20.55	20.16	20.47	21.5
15	QPSK	1	37	20.27	20.44	20.46	
15	QPSK	1	74	20.27	20.43	20.30	
15	QPSK	36	0	20.47	20.37	20.62	21.5
15	QPSK	36	20	20.31	20.39	20.49	
15	QPSK	39	39	20.33	20.54	20.30	
15	QPSK	75	0	20.24	20.42	20.51	
15	16QAM	1	0	20.63	20.23	20.81	21.5
15	16QAM	1	37	20.52	20.69	20.68	
15	16QAM	1	74	20.39	20.61	20.27	
15	16QAM	36	0	20.51	20.42	20.71	21.5
15	16QAM	36	20	20.35	20.43	20.52	
15	16QAM	39	39	20.31	20.58	20.37	
15	16QAM	75	0	20.29	20.49	20.51	
15	64QAM	1	0	20.59	20.26	20.62	21.5
15	64QAM	1	37	20.52	20.52	20.44	
15	64QAM	1	74	20.42	20.79	20.37	
15	64QAM	36	0	20.11	20.01	20.16	21.5
15	64QAM	36	20	19.92	20.02	20.08	
15	64QAM	39	39	19.86	20.11	20.03	
15	64QAM	75	0	19.89	20.10	20.15	
15	256QAM	1	0	18.28	18.07	18.38	19.0
15	256QAM	1	37	18.10	18.12	18.36	
15	256QAM	1	74	18.07	18.35	17.84	
15	256QAM	36	0	18.11	18.03	18.22	19.0
15	256QAM	36	20	17.96	18.03	18.12	
15	256QAM	39	39	17.88	18.10	18.02	
15	256QAM	75	0	18.03	18.12	18.12	

Channel				26090	26340	26640	Tune-up limit
Frequency (MHz)				1855	1880	1910	(dBm)
10	QPSK	1	0	20.79	20.47	20.67	21.5
10	QPSK	1	25	20.61	20.70	20.65	
10	QPSK	1	49	20.40	20.72	20.38	
10	QPSK	25	0	20.71	20.56	20.70	21.5
10	QPSK	25	12	20.67	20.67	20.62	
10	QPSK	25	25	20.57	20.67	20.54	
10	QPSK	50	0	20.50	20.60	20.53	21.5
10	16QAM	1	0	20.79	20.77	20.88	
10	16QAM	1	25	20.76	20.75	20.67	
10	16QAM	1	49	20.56	20.63	20.46	21.5
10	16QAM	25	0	20.69	20.58	20.70	
10	16QAM	25	12	20.53	20.62	20.68	
10	16QAM	25	25	20.52	20.73	20.52	21.5
10	16QAM	50	0	20.55	20.67	20.62	
10	64QAM	1	0	20.79	20.57	20.78	
10	64QAM	1	25	20.74	20.80	20.78	21.5
10	64QAM	1	49	20.49	20.59	20.41	
10	64QAM	25	0	20.32	20.10	20.27	
10	64QAM	25	12	20.21	20.19	20.23	21.5
10	64QAM	25	25	20.13	20.26	20.09	
10	64QAM	50	0	20.16	20.27	20.11	
10	256QAM	1	0	18.54	18.14	18.41	19.0
10	256QAM	1	25	18.56	18.24	18.36	
10	256QAM	1	49	18.11	18.58	18.16	
10	256QAM	25	0	18.36	18.24	18.32	19.0
10	256QAM	25	12	18.27	18.23	18.25	
10	256QAM	25	25	18.15	18.35	18.16	
10	256QAM	50	0	18.19	18.29	18.24	
Channel				26065	26340	26665	Tune-up limit
Frequency (MHz)				1852.5	1880	1912.5	(dBm)
5	QPSK	1	0	20.77	20.49	20.51	21.5
5	QPSK	1	12	20.74	20.61	20.44	
5	QPSK	1	24	20.65	20.56	20.30	
5	QPSK	12	0	20.78	20.59	20.56	21.5
5	QPSK	12	7	20.74	20.57	20.55	
5	QPSK	12	13	20.64	20.56	20.47	
5	QPSK	25	0	20.74	20.52	20.52	21.5
5	16QAM	1	0	20.84	20.77	20.72	
5	16QAM	1	12	20.85	20.83	20.81	
5	16QAM	1	24	20.65	20.66	20.64	21.5
5	16QAM	12	0	20.79	20.67	20.57	
5	16QAM	12	7	20.82	20.58	20.55	
5	16QAM	12	13	20.72	20.63	20.47	21.5
5	16QAM	25	0	20.74	20.68	20.51	
5	64QAM	1	0	20.87	20.81	20.67	
5	64QAM	1	12	20.82	20.80	20.60	21.5
5	64QAM	1	24	20.66	20.87	20.34	
5	64QAM	12	0	20.36	20.26	20.15	
5	64QAM	12	7	20.40	20.22	20.18	21.5
5	64QAM	12	13	20.33	20.20	20.07	
5	64QAM	25	0	20.31	20.27	20.14	
5	256QAM	1	0	18.47	18.35	18.13	19.0
5	256QAM	1	12	18.50	18.48	18.18	
5	256QAM	1	24	18.36	18.42	18.00	
5	256QAM	12	0	18.37	18.29	18.10	19.0
5	256QAM	12	7	18.39	18.24	18.16	
5	256QAM	12	13	18.35	18.23	18.14	
5	256QAM	25	0	18.36	18.20	18.16	
Channel				26055	26340	26675	Tune-up limit
Frequency (MHz)				1851.5	1880	1913.5	(dBm)
3	QPSK	1	0	20.72	20.45	20.35	

3	QPSK	1	8	20.74	20.68	20.46	21.5
3	QPSK	1	14	20.66	20.51	20.33	
3	QPSK	8	0	20.76	20.58	20.47	
3	QPSK	8	4	20.76	20.66	20.49	21.5
3	QPSK	8	7	20.72	20.59	20.41	
3	QPSK	15	0	20.72	20.63	20.49	
3	16QAM	1	0	20.76	20.80	20.48	
3	16QAM	1	8	20.65	20.87	20.65	21.5
3	16QAM	1	14	20.83	20.81	20.55	
3	16QAM	8	0	20.83	20.65	20.51	
3	16QAM	8	4	20.76	20.65	20.51	21.5
3	16QAM	8	7	20.79	20.59	20.46	
3	16QAM	15	0	20.83	20.60	20.46	
3	64QAM	1	0	20.73	20.67	20.64	
3	64QAM	1	8	20.59	20.81	20.62	21.5
3	64QAM	1	14	20.69	20.80	20.43	
3	64QAM	8	0	20.38	20.26	20.11	
3	64QAM	8	4	20.37	20.23	20.10	21.5
3	64QAM	8	7	20.22	20.28	20.09	
3	64QAM	15	0	20.30	20.17	20.12	
3	256QAM	1	0	18.50	18.26	18.32	
3	256QAM	1	8	18.65	18.60	18.05	19.0
3	256QAM	1	14	18.41	18.40	18.05	
3	256QAM	8	0	18.42	18.23	18.14	
3	256QAM	8	4	18.39	18.27	18.13	19.0
3	256QAM	8	7	18.39	18.26	18.06	
3	256QAM	15	0	18.35	18.18	18.09	
Channel				26047	26340	26683	Tune-up limit
Frequency (MHz)				1850.7	1880	1914.3	(dBm)
1.4	QPSK	1	0	20.75	20.54	20.41	
1.4	QPSK	1	3	20.75	20.67	20.43	21.5
1.4	QPSK	1	5	20.70	20.63	20.36	
1.4	QPSK	3	0	20.76	20.61	20.36	
1.4	QPSK	3	1	20.77	20.58	20.38	21.5
1.4	QPSK	3	3	20.73	20.63	20.36	
1.4	QPSK	6	0	20.74	20.60	20.39	
1.4	16QAM	1	0	20.74	20.82	20.65	
1.4	16QAM	1	3	20.69	20.75	20.44	21.5
1.4	16QAM	1	5	20.69	20.69	20.56	
1.4	16QAM	3	0	20.69	20.69	20.49	
1.4	16QAM	3	1	20.69	20.63	20.47	21.5
1.4	16QAM	3	3	20.82	20.77	20.49	
1.4	16QAM	6	0	20.82	20.56	20.43	
1.4	64QAM	1	0	20.81	20.65	20.55	
1.4	64QAM	1	3	20.69	20.70	20.58	21.5
1.4	64QAM	1	5	20.83	20.49	20.55	
1.4	64QAM	3	0	20.73	20.52	20.61	
1.4	64QAM	3	1	20.72	20.62	20.40	21.5
1.4	64QAM	3	3	20.75	20.70	20.48	
1.4	64QAM	6	0	20.45	20.08	20.06	
1.4	256QAM	1	0	18.42	18.37	18.10	
1.4	256QAM	1	3	18.52	18.54	18.13	19.0
1.4	256QAM	1	5	18.42	18.32	18.21	
1.4	256QAM	3	0	18.31	18.26	17.99	
1.4	256QAM	3	1	18.56	18.24	18.16	19.0
1.4	256QAM	3	3	18.47	18.20	18.15	
1.4	256QAM	6	0	18.36	18.25	18.00	

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BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	20.74	20.85	20.65	21.5
20	QPSK	1	49	20.30	20.36	20.40	
20	QPSK	1	99	20.41	20.46	20.60	
20	QPSK	50	0	20.30	20.27	20.33	21.5
20	QPSK	50	24	20.40	20.32	20.44	
20	QPSK	50	50	20.45	20.47	20.46	
20	QPSK	100	0	20.38	20.31	20.45	
20	16QAM	1	0	20.61	20.56	20.53	21.5
20	16QAM	1	49	20.58	20.74	20.62	
20	16QAM	1	99	20.68	20.68	20.83	
20	16QAM	50	0	20.47	20.18	20.41	21.5
20	16QAM	50	24	20.43	20.41	20.49	
20	16QAM	50	50	20.43	20.51	20.47	
20	16QAM	100	0	20.44	20.44	20.48	
20	64QAM	1	0	20.59	20.33	20.48	21.5
20	64QAM	1	49	20.59	20.45	20.40	
20	64QAM	1	99	20.47	20.60	20.84	
20	64QAM	50	0	20.05	19.93	20.03	21.5
20	64QAM	50	24	20.01	20.00	20.11	
20	64QAM	50	50	20.02	20.02	20.06	
20	64QAM	100	0	20.04	19.95	20.12	
20	256QAM	1	0	18.14	17.93	18.04	19.0
20	256QAM	1	49	17.93	18.12	18.12	
20	256QAM	1	99	18.05	18.20	18.33	
20	256QAM	50	0	17.98	17.93	18.02	19.0
20	256QAM	50	24	18.05	18.06	18.11	
20	256QAM	50	50	18.05	18.03	18.16	
20	256QAM	100	0	18.06	17.97	18.13	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	20.27	20.28	20.29	21.5
15	QPSK	1	37	20.27	20.31	20.40	
15	QPSK	1	74	20.38	20.35	20.54	
15	QPSK	36	0	20.45	20.41	20.35	21.5
15	QPSK	36	20	20.40	20.33	20.43	
15	QPSK	39	39	20.41	20.41	20.46	
15	QPSK	75	0	20.34	20.35	20.40	
15	16QAM	1	0	20.44	20.42	20.48	21.5
15	16QAM	1	37	20.56	20.23	20.78	
15	16QAM	1	74	20.42	20.55	20.84	
15	16QAM	36	0	20.43	20.46	20.35	21.5
15	16QAM	36	20	20.42	20.41	20.53	
15	16QAM	39	39	20.37	20.43	20.49	
15	16QAM	75	0	20.40	20.38	20.52	
15	64QAM	1	0	20.45	20.31	20.40	21.5
15	64QAM	1	37	20.60	20.62	20.39	
15	64QAM	1	74	20.52	20.66	20.80	
15	64QAM	36	0	20.00	20.08	20.03	21.5
15	64QAM	36	20	20.01	19.99	20.09	
15	64QAM	39	39	20.03	20.00	20.05	
15	64QAM	75	0	20.06	19.92	20.09	
15	256QAM	1	0	18.26	17.92	18.15	19.0
15	256QAM	1	37	18.07	18.05	18.24	
15	256QAM	1	74	18.11	17.98	18.29	
15	256QAM	36	0	18.05	17.98	18.05	19.0
15	256QAM	36	20	18.03	18.01	18.09	
15	256QAM	39	39	18.06	18.01	18.05	
15	256QAM	75	0	18.02	18.04	18.09	

Channel				132022	132322	132622	Tune-up limit
Frequency (MHz)				1715	1745	1775	(dBm)
10	QPSK	1	0	20.49	20.50	20.47	21.5
10	QPSK	1	25	20.60	20.60	20.61	
10	QPSK	1	49	20.52	20.54	20.63	
10	QPSK	25	0	20.60	20.59	20.58	21.5
10	QPSK	25	12	20.63	20.53	20.69	
10	QPSK	25	25	20.58	20.54	20.69	
10	QPSK	50	0	20.58	20.49	20.66	21.5
10	16QAM	1	0	20.65	20.59	20.53	
10	16QAM	1	25	20.66	20.69	20.73	
10	16QAM	1	49	20.66	20.77	20.83	21.5
10	16QAM	25	0	20.56	20.62	20.63	
10	16QAM	25	12	20.63	20.58	20.70	
10	16QAM	25	25	20.56	20.55	20.66	21.5
10	16QAM	50	0	20.57	20.52	20.65	
10	64QAM	1	0	20.68	20.68	20.69	
10	64QAM	1	25	20.61	20.76	20.79	21.5
10	64QAM	1	49	20.65	20.65	20.62	
10	64QAM	25	0	20.19	20.15	20.21	
10	64QAM	25	12	20.19	20.17	20.30	21.5
10	64QAM	25	25	20.27	20.20	20.30	
10	64QAM	50	0	20.25	20.22	20.27	
10	256QAM	1	0	18.26	18.33	18.26	19.0
10	256QAM	1	25	18.32	18.44	18.23	
10	256QAM	1	49	18.30	18.36	18.40	
10	256QAM	25	0	18.25	18.26	18.28	19.0
10	256QAM	25	12	18.22	18.23	18.30	
10	256QAM	25	25	18.19	18.19	18.30	
10	256QAM	50	0	18.30	18.23	18.28	
Channel				131997	132322	132647	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	(dBm)
5	QPSK	1	0	20.57	20.50	20.56	21.5
5	QPSK	1	12	20.63	20.59	20.64	
5	QPSK	1	24	20.59	20.55	20.66	
5	QPSK	12	0	20.58	20.60	20.64	21.5
5	QPSK	12	7	20.67	20.61	20.70	
5	QPSK	12	13	20.58	20.47	20.67	
5	QPSK	25	0	20.63	20.57	20.69	21.5
5	16QAM	1	0	20.77	20.74	20.68	
5	16QAM	1	12	20.84	20.77	20.77	
5	16QAM	1	24	20.71	20.84	20.82	21.5
5	16QAM	12	0	20.68	20.58	20.65	
5	16QAM	12	7	20.68	20.61	20.75	
5	16QAM	12	13	20.69	20.57	20.78	21.5
5	16QAM	25	0	20.60	20.56	20.68	
5	64QAM	1	0	20.69	20.60	20.64	
5	64QAM	1	12	20.84	20.68	20.84	21.5
5	64QAM	1	24	20.47	20.67	20.74	
5	64QAM	12	0	20.24	20.20	20.30	
5	64QAM	12	7	20.25	20.17	20.38	21.5
5	64QAM	12	13	20.28	20.25	20.34	
5	64QAM	25	0	20.20	20.12	20.29	
5	256QAM	1	0	18.35	18.35	18.41	19.0
5	256QAM	1	12	18.31	18.49	18.49	
5	256QAM	1	24	18.37	18.35	18.33	
5	256QAM	12	0	18.31	18.17	18.29	19.0
5	256QAM	12	7	18.26	18.20	18.33	
5	256QAM	12	13	18.26	18.17	18.29	
5	256QAM	25	0	18.27	18.18	18.32	
Channel				131987	132322	132657	Tune-up limit
Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	20.51	20.45	20.61	

3	QPSK	1	8	20.59	20.55	20.77	21.5
3	QPSK	1	14	20.56	20.49	20.63	
3	QPSK	8	0	20.57	20.58	20.65	
3	QPSK	8	4	20.63	20.49	20.68	21.5
3	QPSK	8	7	20.63	20.57	20.67	
3	QPSK	15	0	20.58	20.56	20.65	
3	16QAM	1	0	20.60	20.66	20.67	
3	16QAM	1	8	20.83	20.84	20.74	21.5
3	16QAM	1	14	20.78	20.75	20.77	
3	16QAM	8	0	20.69	20.59	20.75	
3	16QAM	8	4	20.63	20.60	20.68	21.5
3	16QAM	8	7	20.63	20.55	20.79	
3	16QAM	15	0	20.66	20.53	20.75	
3	64QAM	1	0	20.73	20.65	20.68	
3	64QAM	1	8	20.84	20.63	20.76	21.5
3	64QAM	1	14	20.78	20.71	20.76	
3	64QAM	8	0	20.27	20.25	20.21	
3	64QAM	8	4	20.31	20.21	20.36	21.5
3	64QAM	8	7	20.32	20.14	20.41	
3	64QAM	15	0	20.25	20.13	20.38	
3	256QAM	1	0	18.17	18.30	18.41	
3	256QAM	1	8	18.53	18.29	18.51	19.0
3	256QAM	1	14	18.16	18.31	18.35	
3	256QAM	8	0	18.29	18.20	18.30	
3	256QAM	8	4	18.23	18.22	18.35	19.0
3	256QAM	8	7	18.28	18.20	18.34	
3	256QAM	15	0	18.32	18.17	18.27	
Channel				131979	132322	132665	Tune-up limit
Frequency (MHz)				1710.7	1745	1779.3	(dBm)
1.4	QPSK	1	0	20.49	20.45	20.61	
1.4	QPSK	1	3	20.54	20.56	20.64	21.5
1.4	QPSK	1	5	20.51	20.48	20.59	
1.4	QPSK	3	0	20.58	20.52	20.67	
1.4	QPSK	3	1	20.60	20.52	20.58	21.5
1.4	QPSK	3	3	20.57	20.50	20.69	
1.4	QPSK	6	0	20.56	20.47	20.70	
1.4	16QAM	1	0	20.75	20.82	20.81	
1.4	16QAM	1	3	20.75	20.72	20.79	21.5
1.4	16QAM	1	5	20.77	20.62	20.84	
1.4	16QAM	3	0	20.66	20.56	20.73	
1.4	16QAM	3	1	20.70	20.53	20.77	21.5
1.4	16QAM	3	3	20.65	20.58	20.79	
1.4	16QAM	6	0	20.64	20.43	20.73	
1.4	64QAM	1	0	20.61	20.49	20.55	
1.4	64QAM	1	3	20.73	20.69	20.74	21.5
1.4	64QAM	1	5	20.79	20.48	20.72	
1.4	64QAM	3	0	20.60	20.56	20.77	
1.4	64QAM	3	1	20.71	20.71	20.80	21.5
1.4	64QAM	3	3	20.61	20.63	20.74	
1.4	64QAM	6	0	20.25	20.06	20.29	
1.4	256QAM	1	0	18.41	18.20	18.38	
1.4	256QAM	1	3	18.17	18.25	18.40	19.0
1.4	256QAM	1	5	18.32	18.26	18.34	
1.4	256QAM	3	0	18.31	18.27	18.33	
1.4	256QAM	3	1	18.21	18.17	18.30	19.0
1.4	256QAM	3	3	18.37	18.22	18.34	
1.4	256QAM	6	0	18.28	18.17	18.30	

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BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	20.91	21.55	21.33	22.0
20	QPSK	1	49	20.94	21.21	21.24	
20	QPSK	1	99	20.89	21.20	21.25	
20	QPSK	50	0	20.91	21.36	21.30	22.0
20	QPSK	50	24	20.96	21.27	21.29	
20	QPSK	50	50	20.95	21.22	21.33	
20	QPSK	100	0	20.91	21.19	21.35	
20	16QAM	1	0	21.09	21.36	21.51	22.0
20	16QAM	1	49	21.16	21.53	21.46	
20	16QAM	1	99	21.13	21.43	21.49	
20	16QAM	50	0	20.90	21.27	21.31	22.0
20	16QAM	50	24	20.98	21.27	21.33	
20	16QAM	50	50	20.97	21.20	21.28	
20	16QAM	100	0	20.93	21.24	21.30	
20	64QAM	1	0	21.07	21.22	21.48	22.0
20	64QAM	1	49	21.10	21.48	21.52	
20	64QAM	1	99	20.98	21.47	21.29	
20	64QAM	50	0	19.93	20.15	20.35	21.0
20	64QAM	50	24	19.97	20.31	20.30	
20	64QAM	50	50	19.91	20.24	20.26	
20	64QAM	100	0	19.93	20.16	20.31	
20	256QAM	1	0	18.06	18.38	18.52	19.0
20	256QAM	1	49	18.07	18.37	18.59	
20	256QAM	1	99	17.87	18.19	18.43	
20	256QAM	50	0	17.95	18.19	18.38	19.0
20	256QAM	50	24	18.00	18.34	18.40	
20	256QAM	50	50	17.93	18.26	18.34	
20	256QAM	100	0	17.97	18.15	18.23	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	20.68	20.94	21.06	22.0
15	QPSK	1	37	20.76	20.96	21.13	
15	QPSK	1	74	20.61	21.01	20.96	
15	QPSK	36	0	20.72	20.92	21.21	22.0
15	QPSK	36	20	20.87	21.03	21.17	
15	QPSK	39	39	20.76	21.11	21.17	
15	QPSK	75	0	20.77	21.01	21.07	
15	16QAM	1	0	20.97	21.02	21.26	22.0
15	16QAM	1	37	20.92	21.28	21.30	
15	16QAM	1	74	21.02	21.10	21.22	
15	16QAM	36	0	20.83	21.04	21.19	22.0
15	16QAM	36	20	20.75	21.05	21.17	
15	16QAM	39	39	20.77	21.13	21.09	
15	16QAM	75	0	20.78	20.96	20.99	
15	64QAM	1	0	20.83	21.06	21.28	22.0
15	64QAM	1	37	20.76	21.12	21.12	
15	64QAM	1	74	20.69	21.11	21.14	
15	64QAM	36	0	19.80	20.00	20.11	21.0
15	64QAM	36	20	19.85	20.10	20.19	
15	64QAM	39	39	19.85	20.09	20.16	
15	64QAM	75	0	19.76	19.95	20.20	
15	256QAM	1	0	17.82	18.24	18.22	19.0
15	256QAM	1	37	17.89	18.25	18.43	
15	256QAM	1	74	18.01	18.46	18.23	
15	256QAM	36	0	17.85	18.13	18.10	19.0
15	256QAM	36	20	17.78	18.08	18.11	
15	256QAM	39	39	17.89	18.18	18.11	
15	256QAM	75	0	17.84	18.09	18.21	

Channel				20800	21100	21400	Tune-up limit
Frequency (MHz)				2505	2535	2565	(dBm)
10	QPSK	1	0	20.92	21.21	21.28	22.0
10	QPSK	1	25	20.85	21.20	21.34	
10	QPSK	1	49	20.95	21.21	21.24	
10	QPSK	25	0	20.99	21.22	21.24	22.0
10	QPSK	25	12	20.96	21.18	21.30	
10	QPSK	25	25	20.93	21.28	21.31	
10	QPSK	50	0	20.92	21.20	21.22	22.0
10	16QAM	1	0	21.05	21.25	21.43	
10	16QAM	1	25	21.02	21.45	21.52	
10	16QAM	1	49	21.06	21.34	21.36	22.0
10	16QAM	25	0	21.00	21.09	21.33	
10	16QAM	25	12	20.98	21.16	21.42	
10	16QAM	25	25	20.92	21.25	21.32	22.0
10	16QAM	50	0	20.92	21.08	21.34	
10	64QAM	1	0	21.13	21.37	21.54	
10	64QAM	1	25	21.04	21.29	21.51	22.0
10	64QAM	1	49	21.17	21.44	21.35	
10	64QAM	25	0	19.99	20.16	20.22	
10	64QAM	25	12	19.97	20.21	20.37	21.0
10	64QAM	25	25	20.03	20.27	20.33	
10	64QAM	50	0	20.05	20.19	20.24	
10	256QAM	1	0	17.94	18.38	18.49	19.0
10	256QAM	1	25	17.99	18.35	18.62	
10	256QAM	1	49	18.14	18.45	18.42	
10	256QAM	25	0	18.04	18.20	18.36	19.0
10	256QAM	25	12	17.97	18.29	18.47	
10	256QAM	25	25	17.92	18.28	18.28	
10	256QAM	50	0	18.03	18.30	18.29	
Channel				20775	21100	21425	Tune-up limit
Frequency (MHz)				2502.5	2535	2567.5	(dBm)
5	QPSK	1	0	20.64	20.89	21.13	22.0
5	QPSK	1	12	20.67	21.00	21.15	
5	QPSK	1	24	20.75	20.92	20.97	
5	QPSK	12	0	20.74	20.94	21.20	22.0
5	QPSK	12	7	20.79	21.06	21.20	
5	QPSK	12	13	20.79	21.11	21.11	
5	QPSK	25	0	20.83	21.00	21.18	22.0
5	16QAM	1	0	20.80	21.17	21.33	
5	16QAM	1	12	20.73	21.28	21.41	
5	16QAM	1	24	20.85	21.27	21.24	22.0
5	16QAM	12	0	20.70	21.02	21.18	
5	16QAM	12	7	20.81	21.05	21.19	
5	16QAM	12	13	20.81	21.07	21.10	22.0
5	16QAM	25	0	20.88	21.01	21.12	
5	64QAM	1	0	20.85	21.01	21.08	
5	64QAM	1	12	20.75	21.07	21.10	22.0
5	64QAM	1	24	20.80	21.13	21.07	
5	64QAM	12	0	19.72	20.04	20.09	
5	64QAM	12	7	19.77	20.15	20.21	21.0
5	64QAM	12	13	19.86	20.08	20.11	
5	64QAM	25	0	19.82	19.99	20.25	
5	256QAM	1	0	17.91	18.10	18.30	19.0
5	256QAM	1	12	17.97	18.22	18.14	
5	256QAM	1	24	17.99	18.30	18.21	
5	256QAM	12	0	17.75	18.01	18.13	19.0
5	256QAM	12	7	17.78	18.08	18.21	
5	256QAM	12	13	17.92	18.13	18.15	
5	256QAM	25	0	17.88	18.07	18.13	

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BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	23.11	23.16	23.01	24.0
20	QPSK	1	49	23.15	23.11	23.03	
20	QPSK	1	99	23.07	23.03	22.98	
20	QPSK	50	0	22.22	22.06	21.99	23.0
20	QPSK	50	24	22.21	22.05	21.98	
20	QPSK	50	50	22.15	22.09	22.07	
20	QPSK	100	0	22.14	21.98	22.00	
20	16QAM	1	0	22.29	22.29	22.13	23.0
20	16QAM	1	49	22.38	22.19	22.27	
20	16QAM	1	99	22.29	22.11	22.18	
20	16QAM	50	0	21.19	21.08	21.00	23.0
20	16QAM	50	24	21.22	21.06	21.06	
20	16QAM	50	50	21.17	21.09	21.07	
20	16QAM	100	0	21.18	21.04	21.03	
20	64QAM	1	0	21.31	21.18	21.33	23.0
20	64QAM	1	49	21.45	21.21	21.20	
20	64QAM	1	99	21.19	21.14	21.11	
20	64QAM	50	0	20.19	20.02	20.03	21.0
20	64QAM	50	24	20.23	20.09	20.10	
20	64QAM	50	50	20.16	20.08	20.09	
20	64QAM	100	0	20.19	20.09	20.03	
20	256QAM	1	0	18.46	18.10	18.06	19.0
20	256QAM	1	49	18.21	18.21	18.19	
20	256QAM	1	99	18.34	18.13	18.13	
20	256QAM	50	0	18.22	18.09	18.07	19.0
20	256QAM	50	24	18.26	18.11	18.05	
20	256QAM	50	50	18.19	18.07	18.08	
20	256QAM	100	0	18.24	18.08	18.02	
Channel				37825	38000	38175	Tune-up limit
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	23.02	22.93	22.90	24.0
15	QPSK	1	37	22.98	22.93	22.89	
15	QPSK	1	74	22.86	22.82	22.80	
15	QPSK	36	0	22.10	21.93	21.90	23.0
15	QPSK	36	20	22.05	21.96	21.94	
15	QPSK	39	39	21.97	21.93	21.96	
15	QPSK	75	0	22.05	21.90	21.87	
15	16QAM	1	0	22.22	22.13	21.95	23.0
15	16QAM	1	37	22.10	22.11	22.06	
15	16QAM	1	74	21.92	22.09	22.02	
15	16QAM	36	0	21.15	20.93	20.92	23.0
15	16QAM	36	20	21.07	21.01	20.97	
15	16QAM	39	39	20.99	20.95	20.97	
15	16QAM	75	0	21.06	20.90	20.90	
15	64QAM	1	0	21.16	21.10	20.89	23.0
15	64QAM	1	37	21.00	21.04	20.99	
15	64QAM	1	74	20.92	20.99	20.91	
15	64QAM	36	0	20.12	19.99	19.90	21.0
15	64QAM	36	20	20.05	20.01	19.94	
15	64QAM	39	39	20.01	19.97	19.96	
15	64QAM	75	0	20.06	19.96	19.89	
15	256QAM	1	0	18.03	18.07	18.00	19.0
15	256QAM	1	37	18.28	18.06	18.13	
15	256QAM	1	74	18.10	18.10	18.09	
15	256QAM	36	0	18.11	17.93	17.86	19.0
15	256QAM	36	20	18.03	17.97	17.92	
15	256QAM	39	39	18.02	17.98	17.92	
15	256QAM	75	0	18.07	17.93	17.91	

Channel				37800	38000	38200	Tune-up limit
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	23.01	22.95	22.89	24.0
10	QPSK	1	25	22.91	22.87	22.82	
10	QPSK	1	49	22.77	22.79	22.76	
10	QPSK	25	0	22.00	21.96	21.87	23.0
10	QPSK	25	12	22.07	21.90	21.92	
10	QPSK	25	25	21.99	21.95	21.94	
10	QPSK	50	0	22.03	21.91	21.87	23.0
10	16QAM	1	0	22.20	22.16	22.10	
10	16QAM	1	25	22.04	22.16	22.09	
10	16QAM	1	49	22.04	22.07	22.01	23.0
10	16QAM	25	0	21.07	20.99	20.89	
10	16QAM	25	12	21.03	20.94	20.90	
10	16QAM	25	25	20.99	20.95	20.95	23.0
10	16QAM	50	0	21.09	20.95	20.89	
10	64QAM	1	0	21.15	21.05	21.04	
10	64QAM	1	25	21.19	21.08	21.00	23.0
10	64QAM	1	49	20.86	20.90	20.90	
10	64QAM	25	0	20.06	19.97	19.90	
10	64QAM	25	12	20.11	19.93	19.87	21.0
10	64QAM	25	25	20.03	19.96	19.97	
10	64QAM	50	0	20.08	19.90	19.91	
10	256QAM	1	0	18.18	17.95	17.98	19.0
10	256QAM	1	25	18.09	18.01	18.06	
10	256QAM	1	49	18.05	18.03	18.12	
10	256QAM	25	0	18.05	17.98	17.90	19.0
10	256QAM	25	12	18.08	17.92	17.89	
10	256QAM	25	25	17.99	17.96	17.93	
10	256QAM	50	0	18.02	17.91	17.86	
Channel				37775	38000	38225	Tune-up limit
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	23.15	23.00	23.01	24.0
5	QPSK	1	12	23.13	23.09	23.04	
5	QPSK	1	24	23.03	23.02	22.98	
5	QPSK	12	0	22.15	22.04	22.05	23.0
5	QPSK	12	7	22.21	22.13	22.08	
5	QPSK	12	13	22.16	22.06	22.05	
5	QPSK	25	0	22.20	22.07	22.01	23.0
5	16QAM	1	0	22.71	22.57	22.58	
5	16QAM	1	12	22.69	22.62	22.62	
5	16QAM	1	24	22.61	22.49	22.47	23.0
5	16QAM	12	0	21.51	21.31	21.43	
5	16QAM	12	7	21.55	21.43	21.40	
5	16QAM	12	13	21.54	21.38	21.39	23.0
5	16QAM	25	0	21.54	21.42	21.41	
5	64QAM	1	0	21.51	21.48	21.40	
5	64QAM	1	12	21.62	21.56	21.49	23.0
5	64QAM	1	24	21.50	21.45	21.43	
5	64QAM	12	0	20.54	20.36	20.38	
5	64QAM	12	7	20.54	20.47	20.47	21.0
5	64QAM	12	13	20.48	20.44	20.41	
5	64QAM	25	0	20.46	20.35	20.36	
5	256QAM	1	0	18.66	18.38	18.44	19.0
5	256QAM	1	12	18.79	18.46	18.56	
5	256QAM	1	24	18.56	18.52	18.42	
5	256QAM	12	0	18.53	18.36	18.36	19.0
5	256QAM	12	7	18.52	18.43	18.42	
5	256QAM	12	13	18.43	18.37	18.35	
5	256QAM	25	0	18.50	18.40	18.39	

Band41 Ant1 DSI3									
BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power Mid CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.12	22.92	23.19	23.04	23.07	24.0
20	QPSK	1	49	22.02	23.02	22.90	22.92	22.93	
20	QPSK	1	99	22.07	22.98	22.86	23.04	22.88	
20	QPSK	50	0	21.11	21.86	21.93	21.70	22.00	23.0
20	QPSK	50	24	21.17	21.85	21.95	21.96	21.98	
20	QPSK	50	50	21.12	21.83	21.93	21.70	22.03	
20	QPSK	100	0	21.21	21.51	22.02	21.41	22.02	23.0
20	16QAM	1	0	21.39	21.90	22.19	21.64	22.28	
20	16QAM	1	49	21.28	21.53	22.09	21.55	22.18	
20	16QAM	1	99	21.41	21.75	22.07	21.94	22.16	23.0
20	16QAM	50	0	20.13	21.91	20.96	22.04	21.04	
20	16QAM	50	24	20.14	21.85	21.00	21.46	20.98	
20	16QAM	50	50	20.15	21.55	20.96	21.94	21.00	23.0
20	16QAM	100	0	20.21	22.06	21.02	21.77	21.02	
20	64QAM	1	0	20.32	21.80	21.08	21.37	21.14	
20	64QAM	1	49	20.28	21.93	21.04	22.02	21.14	23.0
20	64QAM	1	99	20.21	21.30	20.96	21.52	21.02	
20	64QAM	50	0	19.11	19.76	19.95	19.65	20.03	
20	64QAM	50	24	19.24	19.85	20.02	19.41	20.01	21.0
20	64QAM	50	50	19.16	19.88	19.96	19.88	20.04	
20	64QAM	100	0	19.24	19.34	20.00	19.43	20.03	
20	256QAM	1	0	17.37	17.64	18.03	17.60	18.11	19.0
20	256QAM	1	49	17.25	17.74	18.09	17.89	18.28	
20	256QAM	1	99	17.49	18.01	17.98	17.82	18.06	
20	256QAM	50	0	17.12	18.15	17.97	17.89	18.03	19.0
20	256QAM	50	24	17.19	18.13	18.05	17.65	17.97	
20	256QAM	50	50	17.17	17.55	18.00	17.99	17.99	
20	256QAM	100	0	17.19	18.10	18.01	17.65	18.05	
Channel				39725	40173	40620	41068	41515	Tune-up limit
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.19	23.07	22.96	22.97	23.02	24.0
15	QPSK	1	37	22.12	22.91	22.94	22.97	23.01	
15	QPSK	1	74	22.05	22.96	22.95	23.08	22.96	
15	QPSK	36	0	21.09	21.86	21.90	21.79	21.96	23.0
15	QPSK	36	20	21.15	21.92	21.95	21.87	21.95	
15	QPSK	39	39	21.13	21.79	21.95	22.00	22.01	
15	QPSK	75	0	21.20	21.53	21.95	21.50	21.95	23.0
15	16QAM	1	0	21.29	21.33	22.08	21.96	22.14	
15	16QAM	1	37	21.30	21.56	22.11	21.87	22.04	
15	16QAM	1	74	21.27	21.65	22.02	22.08	22.10	23.0
15	16QAM	36	0	20.12	21.98	20.97	22.02	21.00	
15	16QAM	36	20	20.17	21.35	20.96	21.67	20.98	
15	16QAM	39	39	20.09	21.30	20.94	22.05	21.01	23.0
15	16QAM	75	0	20.21	21.45	21.01	21.53	20.98	
15	64QAM	1	0	20.20	21.69	21.07	21.95	21.09	
15	64QAM	1	37	20.17	21.36	21.13	21.58	21.10	23.0
15	64QAM	1	74	20.10	21.67	20.96	21.93	21.07	
15	64QAM	36	0	19.16	19.76	19.92	19.57	20.02	
15	64QAM	36	20	19.16	19.67	19.98	19.46	19.99	21.0
15	64QAM	39	39	19.21	19.66	19.99	19.32	20.01	
15	64QAM	75	0	19.23	19.57	19.89	19.42	19.88	
15	256QAM	1	0	17.31	17.72	18.10	17.82	18.17	19.0
15	256QAM	1	37	17.30	17.77	18.26	17.99	18.18	
15	256QAM	1	74	17.45	18.16	18.17	17.55	18.10	
15	256QAM	36	0	17.11	17.90	17.95	18.00	18.00	19.0
15	256QAM	36	20	17.16	17.64	18.02	17.56	17.95	
15	256QAM	39	39	17.12	18.24	17.96	18.16	18.00	
15	256QAM	75	0	17.16	18.01	18.02	18.26	17.95	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2510	2547	2593	2639	2685	
10	QPSK	1	0	22.25	23.10	23.02	23.10	23.10	24.0
10	QPSK	1	25	22.27	22.95	23.09	22.94	23.06	
10	QPSK	1	49	22.24	23.08	23.00	22.98	23.06	
10	QPSK	25	0	21.29	21.97	22.03	21.73	22.10	

10	QPSK	25	12	21.30	22.00	22.08	21.71	22.19	23.0
10	QPSK	25	25	21.20	21.75	22.05	21.96	22.12	
10	QPSK	50	0	21.29	21.35	22.09	21.48	22.15	
10	16QAM	1	0	21.51	21.84	22.21	21.43	22.32	23.0
10	16QAM	1	25	21.44	21.70	22.20	21.38	22.31	
10	16QAM	1	49	21.43	21.92	22.18	21.53	22.19	
10	16QAM	25	0	20.34	22.10	21.02	21.38	21.13	23.0
10	16QAM	25	12	20.31	21.86	21.13	22.06	21.24	
10	16QAM	25	25	20.30	21.91	21.09	21.80	21.13	
10	16QAM	50	0	20.31	21.62	21.08	21.83	21.20	
10	64QAM	1	0	20.43	21.62	21.31	21.51	21.21	23.0
10	64QAM	1	25	20.43	21.35	21.25	21.55	21.30	
10	64QAM	1	49	20.35	21.59	21.04	22.03	21.17	
10	64QAM	25	0	19.34	19.76	20.08	19.55	20.13	21.0
10	64QAM	25	12	19.29	19.66	20.16	19.63	20.23	
10	64QAM	25	25	19.21	19.42	20.08	19.79	20.18	
10	64QAM	50	0	19.32	19.67	20.10	19.22	20.14	
10	256QAM	1	0	17.45	18.10	18.04	18.14	18.04	19.0
10	256QAM	1	25	17.44	17.66	18.20	18.12	18.30	
10	256QAM	1	49	17.42	18.05	18.23	17.60	18.12	
10	256QAM	25	0	17.28	17.60	18.05	17.81	18.06	19.0
10	256QAM	25	12	17.30	17.66	18.12	18.24	18.17	
10	256QAM	25	25	17.27	17.95	18.08	17.91	18.16	
10	256QAM	50	0	17.30	17.64	18.11	17.59	18.15	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	22.28	23.10	23.03	23.02	23.06	24.0
5	QPSK	1	12	22.30	22.91	23.09	22.98	23.10	
5	QPSK	1	24	22.26	23.03	23.00	22.95	23.04	
5	QPSK	12	0	21.29	21.85	22.09	21.98	22.05	23.0
5	QPSK	12	7	21.31	21.96	22.09	21.71	22.15	
5	QPSK	12	13	21.24	21.82	22.06	21.91	22.13	
5	QPSK	25	0	21.32	22.01	22.04	21.58	22.11	
5	16QAM	1	0	21.46	21.74	22.19	21.65	22.38	23.0
5	16QAM	1	12	21.44	21.78	22.27	21.52	22.44	
5	16QAM	1	24	21.43	21.58	22.27	21.39	22.27	
5	16QAM	12	0	20.40	21.49	21.18	21.55	21.15	23.0
5	16QAM	12	7	20.31	21.81	21.17	21.56	21.25	
5	16QAM	12	13	20.32	21.84	21.16	21.66	21.13	
5	16QAM	25	0	20.33	21.95	21.13	21.92	21.19	
5	64QAM	1	0	20.43	22.09	21.11	21.75	21.18	23.0
5	64QAM	1	12	20.39	21.40	21.13	21.49	21.51	
5	64QAM	1	24	20.38	21.96	21.14	21.70	21.22	
5	64QAM	12	0	19.33	19.75	20.08	19.58	20.15	21.0
5	64QAM	12	7	19.38	19.55	20.17	19.51	20.18	
5	64QAM	12	13	19.31	19.81	20.09	19.72	20.15	
5	64QAM	25	0	19.33	19.68	20.06	19.30	20.14	
5	256QAM	1	0	17.50	17.82	18.10	18.16	18.10	19.0
5	256QAM	1	12	17.44	18.02	18.32	17.77	18.26	
5	256QAM	1	24	17.36	17.85	18.07	17.67	18.17	
5	256QAM	12	0	17.32	18.11	18.09	17.64	18.12	19.0
5	256QAM	12	7	17.35	17.53	18.11	17.98	18.20	
5	256QAM	12	13	17.29	17.96	18.07	18.24	18.12	
5	256QAM	25	0	17.32	18.25	18.08	17.84	18.11	

Band2 Ant4 DSI3

BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	18.06	18.36	17.83	19.0
20	QPSK	1	49	18.22	18.03	17.55	
20	QPSK	1	99	17.99	17.67	16.58	
20	QPSK	50	0	18.24	18.22	17.83	19.0
20	QPSK	50	24	18.04	17.89	17.67	
20	QPSK	50	50	18.24	17.97	17.14	
20	QPSK	100	0	18.23	18.19	17.57	
20	16QAM	1	0	18.07	17.92	18.01	19.0
20	16QAM	1	49	18.06	18.21	17.80	
20	16QAM	1	99	18.05	18.17	16.71	
20	16QAM	50	0	18.14	18.08	17.85	19.0
20	16QAM	50	24	18.28	17.96	17.67	
20	16QAM	50	50	17.94	18.23	17.12	
20	16QAM	100	0	18.12	18.05	17.53	
20	64QAM	1	0	17.95	18.03	17.99	19.0
20	64QAM	1	49	18.01	18.02	17.65	
20	64QAM	1	99	18.27	17.99	16.72	
20	64QAM	50	0	17.94	17.91	17.81	19.0
20	64QAM	50	24	17.91	17.97	17.67	
20	64QAM	50	50	18.20	17.93	17.17	
20	64QAM	100	0	18.01	18.23	17.51	
20	256QAM	1	0	17.96	18.02	17.94	19.0
20	256QAM	1	49	17.92	18.08	17.75	
20	256QAM	1	99	17.90	18.27	16.92	
20	256QAM	50	0	18.01	18.28	17.91	19.0
20	256QAM	50	24	17.96	18.13	17.65	
20	256QAM	50	50	17.98	17.75	17.20	
20	256QAM	100	0	18.13	17.99	17.59	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	18.25	18.04	17.70	19.0
15	QPSK	1	37	18.30	17.89	17.21	
15	QPSK	1	74	17.99	17.70	16.36	
15	QPSK	36	0	17.92	18.13	17.52	19.0
15	QPSK	36	20	18.10	17.86	17.22	
15	QPSK	39	39	18.14	17.77	16.81	
15	QPSK	75	0	18.01	17.95	17.31	19.0
15	16QAM	1	0	17.97	18.17	17.86	
15	16QAM	1	37	18.28	18.11	17.42	
15	16QAM	1	74	18.15	17.82	16.58	19.0
15	16QAM	36	0	18.11	18.12	17.59	
15	16QAM	36	20	18.26	17.84	17.31	
15	16QAM	39	39	17.99	17.77	16.77	
15	16QAM	75	0	18.28	17.90	17.28	19.0
15	64QAM	1	0	18.17	18.16	17.78	
15	64QAM	1	37	18.24	17.98	17.24	
15	64QAM	1	74	18.10	17.78	16.46	19.0
15	64QAM	36	0	17.98	18.09	17.55	
15	64QAM	36	20	18.00	17.94	17.26	
15	64QAM	39	39	18.20	18.10	16.79	
15	64QAM	75	0	17.95	18.29	17.28	19.0
15	256QAM	1	0	18.28	18.25	17.87	
15	256QAM	1	37	18.02	18.14	17.30	
15	256QAM	1	74	17.93	17.96	16.61	19.0
15	256QAM	36	0	18.00	18.04	17.60	
15	256QAM	36	20	18.09	18.27	17.25	
15	256QAM	39	39	18.21	17.79	16.91	
15	256QAM	75	0	17.93	17.96	17.36	

Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	18.08	18.15	17.66	19.0
10	QPSK	1	25	18.18	18.11	17.15	
10	QPSK	1	49	18.13	17.82	16.71	
10	QPSK	25	0	17.92	18.21	17.44	19.0
10	QPSK	25	12	18.17	18.01	17.19	
10	QPSK	25	25	18.11	17.98	16.88	
10	QPSK	50	0	18.11	18.03	17.15	
10	16QAM	1	0	18.17	18.16	17.73	19.0
10	16QAM	1	25	18.09	18.23	17.29	
10	16QAM	1	49	17.93	17.94	16.74	
10	16QAM	25	0	18.15	18.28	17.46	19.0
10	16QAM	25	12	18.15	18.02	17.16	
10	16QAM	25	25	18.20	18.15	16.93	
10	16QAM	50	0	17.90	18.15	17.15	
10	64QAM	1	0	18.03	18.25	17.72	19.0
10	64QAM	1	25	18.08	18.01	17.18	
10	64QAM	1	49	18.23	17.94	16.75	
10	64QAM	25	0	18.20	18.16	17.38	19.0
10	64QAM	25	12	18.06	18.00	17.23	
10	64QAM	25	25	18.21	18.01	16.90	
10	64QAM	50	0	18.15	18.01	17.16	
10	256QAM	1	0	18.03	18.21	17.94	19.0
10	256QAM	1	25	17.94	18.06	17.38	
10	256QAM	1	49	18.00	17.91	16.85	
10	256QAM	25	0	18.00	17.93	17.52	19.0
10	256QAM	25	12	18.05	18.00	17.21	
10	256QAM	25	25	17.93	18.15	16.94	
10	256QAM	50	0	18.22	18.03	17.17	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	18.22	18.10	17.11	19.0
5	QPSK	1	12	18.04	18.11	16.85	
5	QPSK	1	24	17.96	17.88	16.60	
5	QPSK	12	0	18.17	18.30	16.97	19.0
5	QPSK	12	7	17.92	18.06	16.87	
5	QPSK	12	13	18.06	18.12	16.71	
5	QPSK	25	0	17.96	18.28	16.80	
5	16QAM	1	0	18.17	18.03	17.21	19.0
5	16QAM	1	12	17.99	18.28	16.96	
5	16QAM	1	24	18.08	18.30	16.79	
5	16QAM	12	0	18.21	17.97	17.04	19.0
5	16QAM	12	7	18.24	18.09	16.94	
5	16QAM	12	13	18.18	17.97	16.77	
5	16QAM	25	0	18.12	18.10	16.86	
5	64QAM	1	0	18.14	18.22	17.11	19.0
5	64QAM	1	12	18.11	18.11	17.00	
5	64QAM	1	24	18.01	17.95	16.73	
5	64QAM	12	0	18.19	17.99	16.98	19.0
5	64QAM	12	7	18.22	18.02	16.85	
5	64QAM	12	13	18.30	18.13	16.66	
5	64QAM	25	0	17.98	18.01	16.89	
5	256QAM	1	0	18.18	18.25	17.16	19.0
5	256QAM	1	12	18.04	18.15	17.15	
5	256QAM	1	24	18.07	17.95	16.73	
5	256QAM	12	0	17.90	17.91	16.99	19.0
5	256QAM	12	7	18.28	18.10	16.83	
5	256QAM	12	13	18.05	18.05	16.82	
5	256QAM	25	0	18.06	18.07	16.89	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	18.08	18.12	16.73	19.0
3	QPSK	1	8	18.21	18.18	16.65	

3	QPSK	1	14	18.13	17.93	16.63	19.0
3	QPSK	8	0	18.07	18.14	16.75	
3	QPSK	8	4	18.12	18.06	16.72	
3	QPSK	8	7	17.99	18.06	16.68	
3	QPSK	15	0	18.19	18.10	16.72	
3	16QAM	1	0	18.22	18.06	16.86	19.0
3	16QAM	1	8	18.03	17.94	16.90	
3	16QAM	1	14	18.19	18.15	16.66	
3	16QAM	8	0	18.12	17.92	16.84	19.0
3	16QAM	8	4	18.18	18.23	16.77	
3	16QAM	8	7	17.97	18.18	16.75	
3	16QAM	15	0	18.09	18.01	16.77	
3	64QAM	1	0	18.21	18.33	16.83	19.0
3	64QAM	1	8	18.15	18.29	16.81	
3	64QAM	1	14	18.16	18.10	16.63	
3	64QAM	8	0	18.03	18.21	16.76	19.0
3	64QAM	8	4	18.18	18.11	16.71	
3	64QAM	8	7	18.17	18.07	16.68	
3	64QAM	15	0	17.93	18.12	16.68	
3	256QAM	1	0	18.00	18.33	16.85	19.0
3	256QAM	1	8	17.96	18.31	16.88	
3	256QAM	1	14	18.07	18.01	16.74	
3	256QAM	8	0	18.26	18.18	16.85	19.0
3	256QAM	8	4	18.06	18.12	16.85	
3	256QAM	8	7	18.15	18.03	16.67	
3	256QAM	15	0	18.29	18.06	16.79	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	18.21	18.08	16.63	19.0
1.4	QPSK	1	3	17.94	18.06	16.64	
1.4	QPSK	1	5	18.29	18.03	16.54	
1.4	QPSK	3	0	18.00	18.07	16.64	19.0
1.4	QPSK	3	1	18.00	18.06	16.67	
1.4	QPSK	3	3	18.25	17.94	16.59	
1.4	QPSK	6	0	17.90	17.89	16.66	
1.4	16QAM	1	0	18.08	18.05	16.70	19.0
1.4	16QAM	1	3	18.10	18.23	16.80	
1.4	16QAM	1	5	18.03	18.16	16.67	
1.4	16QAM	3	0	17.91	18.21	16.74	19.0
1.4	16QAM	3	1	18.23	18.08	16.68	
1.4	16QAM	3	3	17.93	18.05	16.74	
1.4	16QAM	6	0	18.00	17.96	16.66	
1.4	64QAM	1	0	18.22	18.18	16.76	19.0
1.4	64QAM	1	3	18.09	18.13	16.73	
1.4	64QAM	1	5	17.95	18.14	16.67	
1.4	64QAM	3	0	18.09	18.20	16.66	19.0
1.4	64QAM	3	1	18.18	18.15	16.66	
1.4	64QAM	3	3	18.23	18.18	16.68	
1.4	64QAM	6	0	18.16	18.03	16.65	
1.4	256QAM	1	0	17.90	18.17	16.74	19.0
1.4	256QAM	1	3	17.97	18.22	16.73	
1.4	256QAM	1	5	17.93	18.17	16.62	
1.4	256QAM	3	0	18.10	18.05	16.73	19.0
1.4	256QAM	3	1	18.05	18.21	16.72	
1.4	256QAM	3	3	17.95	18.11	16.71	
1.4	256QAM	6	0	17.92	17.99	16.60	

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BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	17.56	17.61	17.37	18.0
20	QPSK	1	49	17.42	17.51	17.55	
20	QPSK	1	99	17.36	17.22	17.50	
20	QPSK	50	0	17.31	17.48	17.53	18.0
20	QPSK	50	24	17.47	17.39	17.56	
20	QPSK	50	50	17.31	17.60	17.57	
20	QPSK	100	0	17.47	17.31	17.39	18.0
20	16QAM	1	0	17.39	17.47	17.29	
20	16QAM	1	49	17.25	17.30	17.49	
20	16QAM	1	99	17.25	17.47	17.24	18.0
20	16QAM	50	0	17.20	17.27	17.25	
20	16QAM	50	24	17.43	17.29	17.56	
20	16QAM	50	50	17.32	17.35	17.55	18.0
20	16QAM	100	0	17.46	17.39	17.52	
20	64QAM	1	0	17.45	17.39	17.51	
20	64QAM	1	49	17.26	17.33	17.58	18.0
20	64QAM	1	99	17.37	17.50	17.22	
20	64QAM	50	0	17.22	17.32	17.49	18.0
20	64QAM	50	24	17.47	17.30	17.43	
20	64QAM	50	50	17.24	17.20	17.51	
20	64QAM	100	0	17.46	17.42	17.21	18.0
20	256QAM	1	0	17.49	17.24	17.29	
20	256QAM	1	49	17.37	17.31	17.21	
20	256QAM	1	99	17.21	17.23	17.60	18.0
20	256QAM	50	0	17.57	17.29	17.32	
20	256QAM	50	24	17.59	17.54	17.33	
20	256QAM	50	50	17.35	17.55	17.41	18.0
20	256QAM	100	0	17.60	17.57	17.40	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	17.25	17.30	17.21	18.0
15	QPSK	1	37	17.37	17.42	17.37	
15	QPSK	1	74	17.25	17.37	17.28	
15	QPSK	36	0	17.60	17.35	17.32	18.0
15	QPSK	36	20	17.53	17.58	17.27	
15	QPSK	39	39	17.20	17.59	17.21	
15	QPSK	75	0	17.45	17.54	17.39	18.0
15	16QAM	1	0	17.47	17.40	17.24	
15	16QAM	1	37	17.60	17.26	17.57	
15	16QAM	1	74	17.40	17.38	17.48	18.0
15	16QAM	36	0	17.33	17.38	17.54	
15	16QAM	36	20	17.24	17.46	17.25	
15	16QAM	39	39	17.26	17.39	17.25	18.0
15	16QAM	75	0	17.28	17.45	17.40	
15	64QAM	1	0	17.57	17.54	17.52	
15	64QAM	1	37	17.34	17.44	17.24	18.0
15	64QAM	1	74	17.60	17.49	17.60	
15	64QAM	36	0	17.21	17.42	17.53	
15	64QAM	36	20	17.58	17.55	17.36	18.0
15	64QAM	39	39	17.48	17.35	17.45	
15	64QAM	75	0	17.58	17.46	17.30	
15	256QAM	1	0	17.34	17.42	17.27	18.0
15	256QAM	1	37	17.26	17.36	17.28	
15	256QAM	1	74	17.44	17.31	17.39	
15	256QAM	36	0	17.34	17.28	17.27	18.0
15	256QAM	36	20	17.22	17.30	17.30	
15	256QAM	39	39	17.51	17.57	17.51	
15	256QAM	75	0	17.20	17.41	17.41	

Channel				20000	20175	20350	Tune-up limit
Frequency (MHz)				1715	1732.5	1750	(dBm)
10	QPSK	1	0	17.41	17.54	17.35	18.0
10	QPSK	1	25	17.53	17.28	17.41	
10	QPSK	1	49	17.29	17.55	17.24	
10	QPSK	25	0	17.52	17.57	17.23	18.0
10	QPSK	25	12	17.36	17.48	17.47	
10	QPSK	25	25	17.24	17.55	17.52	
10	QPSK	50	0	17.36	17.42	17.57	
10	16QAM	1	0	17.38	17.48	17.56	18.0
10	16QAM	1	25	17.30	17.28	17.21	
10	16QAM	1	49	17.30	17.51	17.42	
10	16QAM	25	0	17.29	17.20	17.58	18.0
10	16QAM	25	12	17.43	17.56	17.58	
10	16QAM	25	25	17.44	17.46	17.25	
10	16QAM	50	0	17.53	17.55	17.21	
10	64QAM	1	0	17.20	17.43	17.31	18.0
10	64QAM	1	25	17.57	17.43	17.52	
10	64QAM	1	49	17.57	17.55	17.34	
10	64QAM	25	0	17.42	17.50	17.44	18.0
10	64QAM	25	12	17.48	17.48	17.55	
10	64QAM	25	25	17.57	17.22	17.53	
10	64QAM	50	0	17.25	17.35	17.33	
10	256QAM	1	0	17.47	17.45	17.42	18.0
10	256QAM	1	25	17.42	17.49	17.33	
10	256QAM	1	49	17.22	17.59	17.20	
10	256QAM	25	0	17.30	17.48	17.25	18.0
10	256QAM	25	12	17.51	17.27	17.34	
10	256QAM	25	25	17.58	17.60	17.50	
10	256QAM	50	0	17.53	17.37	17.55	
Channel				19975	20175	20375	Tune-up limit
Frequency (MHz)				1712.5	1732.5	1752.5	(dBm)
5	QPSK	1	0	17.60	17.57	17.60	18.0
5	QPSK	1	12	17.39	17.25	17.44	
5	QPSK	1	24	17.21	17.21	17.27	
5	QPSK	12	0	17.46	17.43	17.49	18.0
5	QPSK	12	7	17.37	17.25	17.58	
5	QPSK	12	13	17.56	17.36	17.27	
5	QPSK	25	0	17.42	17.54	17.43	
5	16QAM	1	0	17.47	17.29	17.46	18.0
5	16QAM	1	12	17.48	17.29	17.37	
5	16QAM	1	24	17.56	17.42	17.52	
5	16QAM	12	0	17.44	17.33	17.37	18.0
5	16QAM	12	7	17.49	17.31	17.57	
5	16QAM	12	13	17.33	17.52	17.36	
5	16QAM	25	0	17.40	17.22	17.44	
5	64QAM	1	0	17.55	17.36	17.28	18.0
5	64QAM	1	12	17.57	17.51	17.51	
5	64QAM	1	24	17.58	17.48	17.25	
5	64QAM	12	0	17.31	17.44	17.60	18.0
5	64QAM	12	7	17.56	17.26	17.40	
5	64QAM	12	13	17.58	17.22	17.34	
5	64QAM	25	0	17.46	17.31	17.54	
5	256QAM	1	0	17.28	17.42	17.35	18.0
5	256QAM	1	12	17.33	17.56	17.50	
5	256QAM	1	24	17.50	17.26	17.50	
5	256QAM	12	0	17.25	17.46	17.24	18.0
5	256QAM	12	7	17.36	17.51	17.25	
5	256QAM	12	13	17.26	17.58	17.27	
5	256QAM	25	0	17.55	17.29	17.39	
Channel				19965	20175	20385	Tune-up limit
Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	17.56	17.30	17.49	18.0
3	QPSK	1	8	17.48	17.36	17.42	

3	QPSK	1	14	17.21	17.58	17.58	18.0
3	QPSK	8	0	17.45	17.24	17.34	
3	QPSK	8	4	17.47	17.40	17.33	
3	QPSK	8	7	17.44	17.39	17.46	
3	QPSK	15	0	17.50	17.56	17.26	
3	16QAM	1	0	17.29	17.43	17.40	18.0
3	16QAM	1	8	17.48	17.23	17.31	
3	16QAM	1	14	17.25	17.24	17.35	
3	16QAM	8	0	17.20	17.26	17.50	18.0
3	16QAM	8	4	17.39	17.42	17.26	
3	16QAM	8	7	17.28	17.44	17.45	
3	16QAM	15	0	17.42	17.29	17.56	
3	64QAM	1	0	17.51	17.22	17.48	18.0
3	64QAM	1	8	17.26	17.53	17.27	
3	64QAM	1	14	17.28	17.30	17.55	
3	64QAM	8	0	17.51	17.54	17.58	18.0
3	64QAM	8	4	17.45	17.42	17.27	
3	64QAM	8	7	17.57	17.46	17.36	
3	64QAM	15	0	17.60	17.44	17.54	
3	256QAM	1	0	17.20	17.34	17.60	
3	256QAM	1	8	17.54	17.42	17.39	18.0
3	256QAM	1	14	17.38	17.38	17.24	
3	256QAM	8	0	17.27	17.57	17.30	
3	256QAM	8	4	17.23	17.51	17.56	18.0
3	256QAM	8	7	17.44	17.30	17.24	
3	256QAM	15	0	17.38	17.38	17.55	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	17.52	17.35	17.57	18.0
1.4	QPSK	1	3	17.28	17.41	17.44	
1.4	QPSK	1	5	17.27	17.56	17.22	
1.4	QPSK	3	0	17.53	17.26	17.26	18.0
1.4	QPSK	3	1	17.58	17.23	17.58	
1.4	QPSK	3	3	17.20	17.52	17.48	
1.4	QPSK	6	0	17.47	17.47	17.39	
1.4	16QAM	1	0	17.23	17.50	17.35	18.0
1.4	16QAM	1	3	17.57	17.48	17.57	
1.4	16QAM	1	5	17.42	17.35	17.30	
1.4	16QAM	3	0	17.57	17.26	17.39	18.0
1.4	16QAM	3	1	17.52	17.48	17.26	
1.4	16QAM	3	3	17.37	17.52	17.45	
1.4	16QAM	6	0	17.34	17.28	17.21	
1.4	64QAM	1	0	17.54	17.48	17.48	18.0
1.4	64QAM	1	3	17.43	17.24	17.46	
1.4	64QAM	1	5	17.48	17.27	17.26	
1.4	64QAM	3	0	17.35	17.33	17.46	18.0
1.4	64QAM	3	1	17.37	17.24	17.46	
1.4	64QAM	3	3	17.41	17.30	17.25	
1.4	64QAM	6	0	17.57	17.58	17.57	
1.4	256QAM	1	0	17.33	17.23	17.43	18.0
1.4	256QAM	1	3	17.56	17.42	17.27	
1.4	256QAM	1	5	17.36	17.25	17.44	
1.4	256QAM	3	0	17.32	17.58	17.40	18.0
1.4	256QAM	3	1	17.23	17.39	17.60	
1.4	256QAM	3	3	17.38	17.41	17.25	
1.4	256QAM	6	0	17.39	17.25	17.59	

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BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	19.39	19.47	19.39	20.0
20	QPSK	1	49	19.33	19.34	19.31	
20	QPSK	1	99	11.73	11.75	11.56	
20	QPSK	50	0	19.11	19.11	19.19	20.0
20	QPSK	50	24	19.33	19.25	19.29	
20	QPSK	50	50	19.29	18.23	19.38	
20	QPSK	100	0	18.65	18.68	18.68	
20	16QAM	1	0	19.04	19.09	19.12	20.0
20	16QAM	1	49	19.28	19.21	19.31	
20	16QAM	1	99	11.68	11.66	11.44	13.0
20	16QAM	50	0	19.12	19.13	19.06	20.0
20	16QAM	50	24	19.09	19.29	19.06	
20	16QAM	50	50	18.70	18.12	18.66	
20	16QAM	100	0	18.68	18.73	18.65	
20	64QAM	1	0	19.02	19.46	19.11	20.0
20	64QAM	1	49	19.08	19.38	19.11	
20	64QAM	1	99	11.67	11.95	11.58	13.0
20	64QAM	50	0	19.11	19.13	19.03	20.0
20	64QAM	50	24	19.11	19.19	19.08	
20	64QAM	50	50	18.61	18.19	18.61	
20	64QAM	100	0	18.70	18.74	18.62	
20	256QAM	1	0	17.44	17.61	17.61	19.0
20	256QAM	1	49	17.70	17.80	17.70	
20	256QAM	1	99	10.61	10.71	10.68	11.0
20	256QAM	50	0	17.62	17.61	17.62	19.0
20	256QAM	50	24	17.79	17.72	17.73	
20	256QAM	50	50	16.54	16.73	16.55	
20	256QAM	100	0	17.52	17.20	17.77	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	19.46	19.46	19.36	20.0
15	QPSK	1	37	19.39	19.45	19.36	
15	QPSK	1	74	11.46	11.62	11.79	
15	QPSK	36	0	19.08	19.10	19.09	20.0
15	QPSK	36	20	19.34	19.20	19.40	
15	QPSK	39	39	19.20	19.31	19.28	
15	QPSK	75	0	18.62	18.62	18.67	
15	16QAM	1	0	19.02	19.04	19.05	20.0
15	16QAM	1	37	19.23	19.24	19.37	
15	16QAM	1	74	11.41	11.41	11.56	13.0
15	16QAM	36	0	19.08	19.01	19.12	20.0
15	16QAM	36	20	19.01	19.11	19.04	
15	16QAM	39	39	18.61	18.66	18.68	
15	16QAM	75	0	18.62	18.65	18.63	
15	64QAM	1	0	19.02	19.11	19.09	20.0
15	64QAM	1	37	19.03	19.05	19.11	
15	64QAM	1	74	11.64	11.45	11.46	13.0
15	64QAM	36	0	19.12	19.07	19.07	20.0
15	64QAM	36	20	19.08	19.11	19.10	
15	64QAM	39	39	18.68	18.66	18.64	
15	64QAM	75	0	18.65	18.64	18.70	
15	256QAM	1	0	17.46	17.60	17.43	19.0
15	256QAM	1	37	17.78	17.82	17.63	
15	256QAM	1	74	11.77	11.41	11.42	13.0
15	256QAM	36	0	17.73	17.68	17.53	19.0
15	256QAM	36	20	17.63	17.71	17.75	
15	256QAM	39	39	16.73	16.50	16.65	
15	256QAM	75	0	17.55	17.64	17.52	

Channel				20800	21100	21400	Tune-up limit
Frequency (MHz)				2505	2535	2565	(dBm)
10	QPSK	1	0	19.38	19.38	19.32	20.0
10	QPSK	1	25	19.37	19.33	19.34	
10	QPSK	1	49	11.74	11.49	11.50	13.0
10	QPSK	25	0	19.09	19.12	19.16	20.0
10	QPSK	25	12	19.39	19.29	19.29	
10	QPSK	25	25	19.33	19.35	19.25	
10	QPSK	50	0	18.61	18.63	18.60	
10	16QAM	1	0	19.05	19.01	19.01	20.0
10	16QAM	1	25	19.39	19.34	19.32	
10	16QAM	1	49	11.77	11.67	11.60	13.0
10	16QAM	25	0	19.02	19.11	19.00	20.0
10	16QAM	25	12	19.06	19.08	19.00	
10	16QAM	25	25	18.62	18.68	18.66	
10	16QAM	50	0	18.60	18.67	18.61	
10	64QAM	1	0	19.08	19.05	19.06	20.0
10	64QAM	1	25	19.12	19.03	19.04	
10	64QAM	1	49	11.63	11.48	11.57	13.0
10	64QAM	25	0	19.08	19.09	19.02	20.0
10	64QAM	25	12	19.08	19.12	19.09	
10	64QAM	25	25	18.68	18.65	18.68	
10	64QAM	50	0	18.65	18.69	18.66	
10	256QAM	1	0	17.61	17.45	17.60	19.0
10	256QAM	1	25	17.75	17.60	17.70	
10	256QAM	1	49	11.70	11.74	11.54	13.0
10	256QAM	25	0	17.50	17.64	17.66	19.0
10	256QAM	25	12	17.73	17.74	17.63	
10	256QAM	25	25	16.72	16.58	16.62	
10	256QAM	50	0	17.64	17.76	17.75	
Channel				20775	21100	21425	Tune-up limit
Frequency (MHz)				2502.5	2535	2567.5	(dBm)
5	QPSK	1	0	19.35	19.43	19.46	20.0
5	QPSK	1	12	19.42	19.45	19.33	
5	QPSK	1	24	11.44	11.66	11.42	13.0
5	QPSK	12	0	19.16	19.10	19.07	20.0
5	QPSK	12	7	19.25	19.29	19.40	
5	QPSK	12	13	19.37	19.34	19.22	
5	QPSK	25	0	18.67	18.62	18.69	
5	16QAM	1	0	19.04	19.04	19.11	20.0
5	16QAM	1	12	19.21	19.30	19.32	
5	16QAM	1	24	11.59	11.62	11.56	13.0
5	16QAM	12	0	19.06	19.06	19.11	20.0
5	16QAM	12	7	19.05	19.03	19.12	
5	16QAM	12	13	18.62	18.70	18.70	
5	16QAM	25	0	18.60	18.64	18.62	
5	64QAM	1	0	19.08	19.06	19.05	20.0
5	64QAM	1	12	19.00	19.00	19.02	
5	64QAM	1	24	11.65	11.79	11.64	13.0
5	64QAM	12	0	19.12	19.09	19.12	20.0
5	64QAM	12	7	19.09	19.09	19.07	
5	64QAM	12	13	18.64	18.67	18.61	
5	64QAM	25	0	18.67	18.62	18.70	
5	256QAM	1	0	17.50	17.62	17.59	19.0
5	256QAM	1	12	17.65	17.60	17.84	
5	256QAM	1	24	11.40	11.63	11.61	13.0
5	256QAM	12	0	17.60	17.64	17.57	19.0
5	256QAM	12	7	17.61	17.53	17.67	
5	256QAM	12	13	16.50	16.66	16.66	
5	256QAM	25	0	17.62	17.60	17.59	

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BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	18.08	18.42	18.10	19.0
20	QPSK	1	49	18.16	18.19	17.82	
20	QPSK	1	99	18.02	18.23	17.28	
20	QPSK	50	0	18.25	18.16	18.13	19.0
20	QPSK	50	24	18.17	18.12	17.94	
20	QPSK	50	50	18.14	18.22	17.62	
20	QPSK	100	0	18.19	18.09	17.94	
20	16QAM	1	0	18.34	18.31	18.25	19.0
20	16QAM	1	49	18.29	18.32	18.05	
20	16QAM	1	99	18.13	18.15	17.49	
20	16QAM	50	0	18.29	18.11	18.16	19.0
20	16QAM	50	24	18.21	18.34	17.97	
20	16QAM	50	50	18.12	18.13	17.70	
20	16QAM	100	0	18.14	18.14	17.99	
20	64QAM	1	0	18.27	17.97	18.34	19.0
20	64QAM	1	49	18.22	18.21	17.98	
20	64QAM	1	99	18.13	18.27	17.43	
20	64QAM	50	0	18.26	18.16	18.14	19.0
20	64QAM	50	24	18.15	18.15	17.96	
20	64QAM	50	50	18.06	18.23	17.66	
20	64QAM	100	0	18.05	18.11	17.96	
20	256QAM	1	0	18.05	18.07	18.37	19.0
20	256QAM	1	49	18.11	18.23	18.17	
20	256QAM	1	99	18.11	18.19	17.37	
20	256QAM	50	0	18.02	18.12	18.20	19.0
20	256QAM	50	24	18.01	18.18	17.97	
20	256QAM	50	50	18.20	18.25	17.58	
20	256QAM	100	0	18.18	18.20	18.01	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	18.21	17.91	18.06	19.0
15	QPSK	1	37	18.13	18.15	17.75	
15	QPSK	1	74	18.16	18.20	17.35	
15	QPSK	36	0	18.19	18.16	17.88	19.0
15	QPSK	36	20	18.11	18.11	17.77	
15	QPSK	39	39	18.14	18.19	17.46	
15	QPSK	75	0	18.11	18.09	17.79	19.0
15	16QAM	1	0	18.40	18.21	18.21	
15	16QAM	1	37	18.14	18.28	17.86	
15	16QAM	1	74	18.25	18.08	17.51	19.0
15	16QAM	36	0	18.22	18.28	18.05	
15	16QAM	36	20	18.17	18.18	17.72	
15	16QAM	39	39	18.23	18.23	17.42	19.0
15	16QAM	75	0	18.13	18.39	17.76	
15	64QAM	1	0	18.19	18.20	17.99	
15	64QAM	1	37	18.38	18.30	17.80	19.0
15	64QAM	1	74	18.01	18.24	17.47	
15	64QAM	36	0	18.12	18.12	18.10	
15	64QAM	36	20	18.15	18.15	18.21	19.0
15	64QAM	39	39	18.10	18.24	18.11	
15	64QAM	75	0	18.22	18.16	18.16	
15	256QAM	1	0	18.38	18.20	18.03	19.0
15	256QAM	1	37	18.37	18.14	18.10	
15	256QAM	1	74	18.23	18.41	18.07	
15	256QAM	36	0	18.30	18.20	17.96	19.0
15	256QAM	36	20	18.21	18.19	17.75	
15	256QAM	39	39	18.18	18.24	17.52	
15	256QAM	75	0	18.21	18.17	17.80	

Channel				26090	26340	26640	Tune-up limit
Frequency (MHz)				1855	1880	1910	(dBm)
10	QPSK	1	0	18.40	18.24	18.04	19.0
10	QPSK	1	25	18.37	18.35	17.73	
10	QPSK	1	49	18.26	18.36	17.55	
10	QPSK	25	0	18.26	18.34	17.92	19.0
10	QPSK	25	12	18.17	18.36	17.80	
10	QPSK	25	25	18.00	18.08	17.63	
10	QPSK	50	0	18.00	18.26	17.80	
10	16QAM	1	0	18.11	18.21	17.95	19.0
10	16QAM	1	25	18.39	18.07	17.78	
10	16QAM	1	49	18.07	18.30	17.64	
10	16QAM	25	0	18.40	18.20	17.89	19.0
10	16QAM	25	12	18.24	18.06	17.85	
10	16QAM	25	25	18.12	18.37	17.55	
10	16QAM	50	0	18.17	18.07	17.78	
10	64QAM	1	0	18.07	18.36	18.09	19.0
10	64QAM	1	25	18.16	18.27	17.84	
10	64QAM	1	49	18.01	18.06	17.53	
10	64QAM	25	0	18.32	18.02	17.90	19.0
10	64QAM	25	12	18.17	18.40	17.78	
10	64QAM	25	25	18.29	18.35	17.63	
10	64QAM	50	0	18.32	18.29	17.72	
10	256QAM	1	0	18.01	18.18	18.13	19.0
10	256QAM	1	25	18.33	18.18	18.07	
10	256QAM	1	49	18.15	18.37	17.56	
10	256QAM	25	0	18.26	18.40	17.95	19.0
10	256QAM	25	12	18.07	18.07	17.77	
10	256QAM	25	25	18.11	18.30	17.63	
10	256QAM	50	0	18.38	18.33	17.82	
Channel				26065	26340	26665	Tune-up limit
Frequency (MHz)				1852.5	1880	1912.5	(dBm)
5	QPSK	1	0	18.39	18.22	17.68	19.0
5	QPSK	1	12	18.38	18.37	17.61	
5	QPSK	1	24	18.37	18.34	17.56	
5	QPSK	12	0	18.41	18.34	17.73	19.0
5	QPSK	12	7	18.40	18.08	17.64	
5	QPSK	12	13	18.21	18.14	17.60	
5	QPSK	25	0	18.21	18.34	17.61	
5	16QAM	1	0	18.15	18.24	17.76	19.0
5	16QAM	1	12	18.13	18.32	17.91	
5	16QAM	1	24	18.33	18.22	17.69	
5	16QAM	12	0	18.30	18.00	17.71	19.0
5	16QAM	12	7	18.23	18.36	17.70	
5	16QAM	12	13	18.30	18.24	17.53	
5	16QAM	25	0	18.13	18.06	17.65	
5	64QAM	1	0	18.12	18.34	17.78	19.0
5	64QAM	1	12	18.31	18.05	17.65	
5	64QAM	1	24	18.27	18.38	17.69	
5	64QAM	12	0	18.04	18.24	17.63	19.0
5	64QAM	12	7	18.30	18.39	17.64	
5	64QAM	12	13	18.13	18.17	17.61	
5	64QAM	25	0	18.32	18.36	17.63	
5	256QAM	1	0	18.32	18.32	17.81	19.0
5	256QAM	1	12	18.09	18.04	17.92	
5	256QAM	1	24	18.22	18.24	17.61	
5	256QAM	12	0	18.16	18.10	17.66	19.0
5	256QAM	12	7	18.36	18.29	17.66	
5	256QAM	12	13	18.13	18.24	17.60	
5	256QAM	25	0	18.40	18.16	17.67	
Channel				26055	26340	26675	Tune-up limit
Frequency (MHz)				1851.5	1880	1913.5	(dBm)
3	QPSK	1	0	18.36	18.26	17.51	19.0
3	QPSK	1	8	18.35	18.34	17.53	

3	QPSK	1	14	18.27	18.30	17.45	19.0
3	QPSK	8	0	18.31	18.32	17.55	
3	QPSK	8	4	18.33	18.30	17.57	
3	QPSK	8	7	18.34	18.19	17.53	
3	QPSK	15	0	18.13	18.38	17.53	
3	16QAM	1	0	18.19	18.31	17.73	19.0
3	16QAM	1	8	18.12	18.34	17.69	
3	16QAM	1	14	18.32	18.26	17.60	
3	16QAM	8	0	18.35	18.05	17.57	19.0
3	16QAM	8	4	18.28	18.36	17.61	
3	16QAM	8	7	18.33	18.33	17.54	
3	16QAM	15	0	18.07	18.23	17.58	
3	64QAM	1	0	18.18	18.07	17.67	19.0
3	64QAM	1	8	18.40	18.11	17.63	
3	64QAM	1	14	18.21	18.31	17.55	
3	64QAM	8	0	18.16	18.13	17.69	19.0
3	64QAM	8	4	18.40	18.01	17.65	
3	64QAM	8	7	18.25	18.17	17.53	
3	64QAM	15	0	18.04	18.12	17.60	
3	256QAM	1	0	18.19	18.40	17.84	
3	256QAM	1	8	18.18	18.13	17.73	19.0
3	256QAM	1	14	18.34	18.07	17.74	
3	256QAM	8	0	18.30	18.03	17.60	
3	256QAM	8	4	18.37	18.08	17.71	19.0
3	256QAM	8	7	18.16	18.39	17.58	
3	256QAM	15	0	18.31	18.28	17.56	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	18.40	18.27	17.41	19.0
1.4	QPSK	1	3	18.15	18.37	17.40	
1.4	QPSK	1	5	18.34	18.34	17.44	
1.4	QPSK	3	0	18.38	18.36	17.52	19.0
1.4	QPSK	3	1	18.30	18.30	17.45	
1.4	QPSK	3	3	18.24	18.32	17.48	
1.4	QPSK	6	0	18.27	18.10	17.50	
1.4	16QAM	1	0	18.37	18.30	17.43	19.0
1.4	16QAM	1	3	18.03	18.09	17.68	
1.4	16QAM	1	5	18.02	18.18	17.62	
1.4	16QAM	3	0	18.22	18.29	17.46	19.0
1.4	16QAM	3	1	18.03	18.19	17.51	
1.4	16QAM	3	3	18.27	18.35	17.57	
1.4	16QAM	6	0	18.40	18.20	17.60	
1.4	64QAM	1	0	18.33	18.24	17.54	19.0
1.4	64QAM	1	3	18.28	18.07	17.58	
1.4	64QAM	1	5	18.37	18.31	17.55	
1.4	64QAM	3	0	18.04	18.12	17.59	19.0
1.4	64QAM	3	1	18.23	18.02	17.54	
1.4	64QAM	3	3	18.20	18.26	17.48	
1.4	64QAM	6	0	18.08	18.17	17.49	
1.4	256QAM	1	0	18.16	18.07	17.67	19.0
1.4	256QAM	1	3	18.02	18.08	17.59	
1.4	256QAM	1	5	18.34	18.38	17.57	
1.4	256QAM	3	0	18.05	18.40	17.63	19.0
1.4	256QAM	3	1	18.40	18.41	17.66	
1.4	256QAM	3	3	18.10	18.40	17.64	
1.4	256QAM	6	0	18.16	18.39	17.50	

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BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	17.64	17.66	17.54	18.0
20	QPSK	1	49	17.26	17.46	17.59	
20	QPSK	1	99	17.36	17.54	17.60	
20	QPSK	50	0	17.46	17.43	17.57	18.0
20	QPSK	50	24	17.34	17.56	17.62	
20	QPSK	50	50	17.58	17.46	17.58	
20	QPSK	100	0	17.34	17.42	17.26	
20	16QAM	1	0	17.50	17.65	17.50	18.0
20	16QAM	1	49	17.24	17.43	17.58	
20	16QAM	1	99	17.26	17.60	17.57	
20	16QAM	50	0	17.52	17.42	17.51	18.0
20	16QAM	50	24	17.33	17.54	17.26	
20	16QAM	50	50	17.62	17.27	17.29	
20	16QAM	100	0	17.29	17.56	17.58	
20	64QAM	1	0	17.64	17.43	17.62	18.0
20	64QAM	1	49	17.37	17.24	17.47	
20	64QAM	1	99	17.48	17.26	17.46	
20	64QAM	50	0	17.45	17.45	17.63	18.0
20	64QAM	50	24	17.26	17.63	17.40	
20	64QAM	50	50	17.22	17.26	17.64	
20	64QAM	100	0	17.29	17.47	17.22	
20	256QAM	1	0	16.06	17.41	17.24	18.0
20	256QAM	1	49	15.74	17.24	16.03	
20	256QAM	1	99	16.00	17.29	16.24	
20	256QAM	50	0	15.87	17.42	16.03	18.0
20	256QAM	50	24	15.75	15.96	16.16	
20	256QAM	50	50	15.63	15.96	16.07	
20	256QAM	100	0	15.77	15.83	16.05	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	17.54	17.21	17.44	18.0
15	QPSK	1	37	17.39	17.43	17.24	
15	QPSK	1	74	17.16	17.52	17.52	
15	QPSK	36	0	17.52	17.38	17.37	18.0
15	QPSK	36	20	17.33	17.65	17.22	
15	QPSK	39	39	17.36	17.58	17.30	
15	QPSK	75	0	17.53	17.52	17.40	
15	16QAM	1	0	17.52	17.43	17.57	18.0
15	16QAM	1	37	17.58	17.41	17.21	
15	16QAM	1	74	17.24	17.21	17.51	
15	16QAM	36	0	17.25	17.38	17.51	18.0
15	16QAM	36	20	17.42	17.45	17.61	
15	16QAM	39	39	17.54	17.32	17.39	
15	16QAM	75	0	17.57	17.26	17.55	
15	64QAM	1	0	17.54	17.21	17.59	18.0
15	64QAM	1	37	17.50	17.60	17.47	
15	64QAM	1	74	17.23	17.55	17.54	
15	64QAM	36	0	17.60	17.50	17.30	18.0
15	64QAM	36	20	17.38	17.37	17.37	
15	64QAM	39	39	17.23	17.50	17.35	
15	64QAM	75	0	17.31	17.40	17.38	
15	256QAM	1	0	16.22	16.04	17.65	18.0
15	256QAM	1	37	15.94	15.92	17.52	
15	256QAM	1	74	15.56	16.11	17.33	
15	256QAM	36	0	15.95	15.82	16.08	18.0
15	256QAM	36	20	15.79	15.85	16.14	
15	256QAM	39	39	15.66	15.99	16.07	
15	256QAM	75	0	15.74	15.89	16.02	

Channel				132022	132322	132622	Tune-up limit
Frequency (MHz)				1715	1745	1775	(dBm)
10	QPSK	1	0	17.50	17.60	17.56	18.0
10	QPSK	1	25	17.48	17.34	17.50	
10	QPSK	1	49	17.28	17.44	17.57	
10	QPSK	25	0	17.20	17.36	17.22	18.0
10	QPSK	25	12	17.58	17.53	17.60	
10	QPSK	25	25	17.48	17.45	17.40	
10	QPSK	50	0	17.25	17.60	17.59	
10	16QAM	1	0	17.49	17.22	17.46	18.0
10	16QAM	1	25	17.33	17.34	17.40	
10	16QAM	1	49	17.49	17.31	17.20	
10	16QAM	25	0	17.47	17.46	17.25	18.0
10	16QAM	25	12	17.44	17.52	17.33	
10	16QAM	25	25	17.24	17.47	17.59	
10	16QAM	50	0	17.55	17.20	17.57	
10	64QAM	1	0	17.41	17.35	17.20	18.0
10	64QAM	1	25	17.54	17.30	17.57	
10	64QAM	1	49	17.31	17.60	17.30	
10	64QAM	25	0	17.21	17.24	17.48	18.0
10	64QAM	25	12	17.64	17.31	17.55	
10	64QAM	25	25	17.57	17.22	17.60	
10	64QAM	50	0	17.54	17.21	17.55	
10	256QAM	1	0	16.28	17.61	16.10	18.0
10	256QAM	1	25	16.36	17.30	16.08	
10	256QAM	1	49	16.11	17.62	16.16	
10	256QAM	25	0	16.16	17.29	15.95	18.0
10	256QAM	25	12	16.04	17.34	16.02	
10	256QAM	25	25	16.04	16.29	15.99	
10	256QAM	50	0	16.06	16.19	16.00	
Channel				131997	132322	132647	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	(dBm)
5	QPSK	1	0	17.59	17.47	17.42	18.0
5	QPSK	1	12	17.25	17.58	17.54	
5	QPSK	1	24	17.23	17.37	17.48	
5	QPSK	12	0	17.49	17.64	17.60	18.0
5	QPSK	12	7	17.58	17.37	17.58	
5	QPSK	12	13	17.47	17.23	17.53	
5	QPSK	25	0	17.31	17.57	17.53	
5	16QAM	1	0	17.56	17.65	17.26	18.0
5	16QAM	1	12	17.38	17.62	17.33	
5	16QAM	1	24	17.28	17.44	17.26	
5	16QAM	12	0	17.62	17.39	17.30	18.0
5	16QAM	12	7	17.55	17.65	17.57	
5	16QAM	12	13	17.38	17.61	17.27	
5	16QAM	25	0	17.33	17.23	17.57	
5	64QAM	1	0	17.30	17.21	17.25	18.0
5	64QAM	1	12	17.51	17.64	17.41	
5	64QAM	1	24	17.22	17.55	17.25	
5	64QAM	12	0	17.20	17.25	17.52	18.0
5	64QAM	12	7	17.64	17.65	17.61	
5	64QAM	12	13	17.61	17.53	17.52	
5	64QAM	25	0	17.47	17.57	17.54	
5	256QAM	1	0	17.31	17.22	16.11	18.0
5	256QAM	1	12	17.39	17.34	16.28	
5	256QAM	1	24	17.51	16.20	16.06	
5	256QAM	12	0	17.64	16.08	15.97	18.0
5	256QAM	12	7	17.47	16.09	15.96	
5	256QAM	12	13	17.40	16.02	16.00	
5	256QAM	25	0	16.20	16.04	15.90	
Channel				131987	132322	132657	Tune-up limit
Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	17.46	17.56	17.40	18.0
3	QPSK	1	8	17.33	17.45	17.55	

3	QPSK	1	14	17.54	17.61	17.49	18.0
3	QPSK	8	0	17.44	17.55	17.51	
3	QPSK	8	4	17.45	17.21	17.58	
3	QPSK	8	7	17.50	17.52	17.58	
3	QPSK	15	0	17.55	17.61	17.55	
3	16QAM	1	0	17.34	17.51	17.60	18.0
3	16QAM	1	8	17.63	17.53	17.65	
3	16QAM	1	14	17.39	17.32	17.20	
3	16QAM	8	0	17.53	17.63	17.23	18.0
3	16QAM	8	4	17.52	17.57	17.58	
3	16QAM	8	7	17.47	17.62	17.34	
3	16QAM	15	0	17.58	17.65	17.32	
3	64QAM	1	0	17.47	17.54	17.33	18.0
3	64QAM	1	8	17.62	17.38	17.39	
3	64QAM	1	14	17.42	17.62	17.35	
3	64QAM	8	0	17.60	17.34	17.26	18.0
3	64QAM	8	4	17.24	17.58	17.53	
3	64QAM	8	7	17.40	17.31	17.52	
3	64QAM	15	0	17.31	17.34	17.50	
3	256QAM	1	0	17.41	16.24	16.16	
3	256QAM	1	8	16.34	16.39	16.19	18.0
3	256QAM	1	14	16.17	16.14	15.99	
3	256QAM	8	0	16.22	16.11	15.98	
3	256QAM	8	4	16.25	16.32	16.01	18.0
3	256QAM	8	7	16.25	16.15	15.95	
3	256QAM	15	0	16.15	16.30	15.92	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	17.55	17.23	17.52	18.0
1.4	QPSK	1	3	17.38	17.57	17.53	
1.4	QPSK	1	5	17.51	17.21	17.52	
1.4	QPSK	3	0	17.46	17.31	17.45	18.0
1.4	QPSK	3	1	17.39	17.63	17.52	
1.4	QPSK	3	3	17.27	17.47	17.55	
1.4	QPSK	6	0	17.46	17.56	17.64	
1.4	16QAM	1	0	17.59	17.31	17.58	18.0
1.4	16QAM	1	3	17.54	17.65	17.64	
1.4	16QAM	1	5	17.56	17.61	17.64	
1.4	16QAM	3	0	17.42	17.38	17.63	18.0
1.4	16QAM	3	1	17.32	17.58	17.61	
1.4	16QAM	3	3	17.20	17.50	17.52	
1.4	16QAM	6	0	17.34	17.40	17.55	
1.4	64QAM	1	0	17.61	17.28	17.62	18.0
1.4	64QAM	1	3	17.49	17.40	17.63	
1.4	64QAM	1	5	17.25	17.30	17.57	
1.4	64QAM	3	0	17.26	17.52	17.47	18.0
1.4	64QAM	3	1	17.22	17.65	17.55	
1.4	64QAM	3	3	17.48	17.65	17.60	
1.4	64QAM	6	0	17.49	17.52	17.64	
1.4	256QAM	1	0	17.26	17.24	15.98	18.0
1.4	256QAM	1	3	17.62	17.62	15.92	
1.4	256QAM	1	5	17.40	17.25	16.11	
1.4	256QAM	3	0	16.19	17.31	16.04	18.0
1.4	256QAM	3	1	16.22	16.20	15.93	
1.4	256QAM	3	3	16.20	16.18	15.98	
1.4	256QAM	6	0	16.19	16.12	15.94	

Band38 Ant4 DSI3

BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	18.33	18.38	18.23	19.0
20	QPSK	1	49	18.20	18.37	18.32	
20	QPSK	1	99	18.31	18.22	18.23	
20	QPSK	50	0	18.12	18.18	18.14	19.0
20	QPSK	50	24	18.20	18.22	18.28	
20	QPSK	50	50	18.29	18.32	18.34	
20	QPSK	100	0	18.35	18.19	18.20	
20	16QAM	1	0	18.11	18.08	18.18	19.0
20	16QAM	1	49	18.11	18.07	18.28	
20	16QAM	1	99	18.27	18.03	18.14	
20	16QAM	50	0	18.25	18.18	18.29	19.0
20	16QAM	50	24	18.34	18.17	18.20	
20	16QAM	50	50	18.36	18.28	18.25	
20	16QAM	100	0	18.25	18.17	18.33	
20	64QAM	1	0	18.20	18.36	18.33	19.0
20	64QAM	1	49	18.33	18.34	18.32	
20	64QAM	1	99	18.25	18.35	18.35	
20	64QAM	50	0	18.28	18.29	18.23	19.0
20	64QAM	50	24	18.26	18.30	18.32	
20	64QAM	50	50	18.24	18.32	18.24	
20	64QAM	100	0	18.21	18.25	18.20	
20	256QAM	1	0	17.58	17.74	17.44	19.0
20	256QAM	1	49	17.52	17.80	17.59	
20	256QAM	1	99	17.70	17.78	17.74	
20	256QAM	50	0	17.53	17.80	17.61	19.0
20	256QAM	50	24	17.59	17.79	17.59	
20	256QAM	50	50	17.56	17.90	17.56	
20	256QAM	100	0	17.59	17.78	17.59	
Channel				37825	38000	38175	Tune-up limit
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	18.28	18.27	18.25	19.0
15	QPSK	1	37	18.24	18.26	18.28	
15	QPSK	1	74	18.23	18.20	18.31	
15	QPSK	36	0	18.26	18.30	18.10	19.0
15	QPSK	36	20	18.24	18.23	18.25	
15	QPSK	39	39	18.28	18.23	18.20	
15	QPSK	75	0	18.29	18.31	18.22	
15	16QAM	1	0	18.22	18.30	18.22	19.0
15	16QAM	1	37	18.16	18.30	18.11	
15	16QAM	1	74	18.27	18.11	18.12	
15	16QAM	36	0	18.32	18.21	18.34	19.0
15	16QAM	36	20	18.29	18.21	18.20	
15	16QAM	39	39	18.32	18.34	18.32	
15	16QAM	75	0	18.36	18.21	18.36	
15	64QAM	1	0	18.31	18.28	18.25	19.0
15	64QAM	1	37	18.29	18.29	18.30	
15	64QAM	1	74	18.24	18.34	18.23	
15	64QAM	36	0	18.26	18.29	18.27	19.0
15	64QAM	36	20	18.23	18.29	18.26	
15	64QAM	39	39	18.33	18.32	18.29	
15	64QAM	75	0	18.27	18.26	18.22	
15	256QAM	1	0	17.42	17.59	17.58	19.0
15	256QAM	1	37	17.74	17.56	17.78	
15	256QAM	1	74	17.76	17.75	17.78	
15	256QAM	36	0	17.79	17.74	17.53	19.0
15	256QAM	36	20	17.68	17.76	17.56	
15	256QAM	39	39	17.68	17.60	17.72	
15	256QAM	75	0	17.66	17.57	17.79	

Channel				37800	38000	38200	Tune-up limit
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	18.33	18.36	18.28	19.0
10	QPSK	1	25	18.20	18.32	18.29	
10	QPSK	1	49	18.35	18.35	18.21	
10	QPSK	25	0	18.13	18.28	18.28	19.0
10	QPSK	25	12	18.25	18.32	18.33	
10	QPSK	25	25	18.27	18.23	18.30	
10	QPSK	50	0	18.35	18.33	18.20	
10	16QAM	1	0	18.24	18.26	18.27	19.0
10	16QAM	1	25	18.11	18.28	18.23	
10	16QAM	1	49	18.19	18.13	18.22	
10	16QAM	25	0	18.26	18.32	18.28	19.0
10	16QAM	25	12	18.21	18.33	18.28	
10	16QAM	25	25	18.28	18.21	18.20	
10	16QAM	50	0	18.32	18.32	18.23	
10	64QAM	1	0	18.32	18.20	18.36	19.0
10	64QAM	1	25	18.21	18.24	18.24	
10	64QAM	1	49	18.30	18.23	18.36	
10	64QAM	25	0	18.36	18.29	18.26	19.0
10	64QAM	25	12	18.36	18.28	18.20	
10	64QAM	25	25	18.20	18.28	18.25	
10	64QAM	50	0	18.35	18.31	18.36	
10	256QAM	1	0	17.57	17.50	17.48	19.0
10	256QAM	1	25	17.72	17.61	17.51	
10	256QAM	1	49	17.76	17.78	17.65	
10	256QAM	25	0	17.69	17.50	17.67	19.0
10	256QAM	25	12	17.52	17.61	17.55	
10	256QAM	25	25	17.75	17.77	17.77	
10	256QAM	50	0	17.71	17.55	17.80	
Channel				37775	38000	38225	Tune-up limit
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	18.34	18.32	18.27	19.0
5	QPSK	1	12	18.31	18.27	18.31	
5	QPSK	1	24	18.36	18.33	18.29	
5	QPSK	12	0	18.28	18.27	18.26	19.0
5	QPSK	12	7	18.21	18.25	18.24	
5	QPSK	12	13	18.31	18.27	18.36	
5	QPSK	25	0	18.28	18.31	18.30	
5	16QAM	1	0	18.21	18.14	18.29	19.0
5	16QAM	1	12	18.19	18.26	18.18	
5	16QAM	1	24	18.23	18.15	18.12	
5	16QAM	12	0	18.22	18.30	18.26	19.0
5	16QAM	12	7	18.20	18.34	18.21	
5	16QAM	12	13	18.24	18.23	18.24	
5	16QAM	25	0	18.23	18.27	18.31	
5	64QAM	1	0	18.27	18.36	18.35	19.0
5	64QAM	1	12	18.29	18.35	18.26	
5	64QAM	1	24	18.32	18.33	18.31	
5	64QAM	12	0	18.21	18.35	18.26	19.0
5	64QAM	12	7	18.31	18.20	18.33	
5	64QAM	12	13	18.32	18.22	18.35	
5	64QAM	25	0	18.30	18.23	18.30	
5	256QAM	1	0	17.42	17.59	17.60	19.0
5	256QAM	1	12	17.71	17.52	17.57	
5	256QAM	1	24	17.58	17.74	17.69	
5	256QAM	12	0	17.63	17.65	17.65	19.0
5	256QAM	12	7	17.59	17.77	17.53	
5	256QAM	12	13	17.71	17.64	17.67	
5	256QAM	25	0	17.66	17.52	17.78	

Band41 Ant1 DSI3									
BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power Mid CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	18.39	18.26	18.41	18.23	18.36	19.0
20	QPSK	1	49	18.30	18.24	18.28	18.24	18.25	
20	QPSK	1	99	18.26	18.37	18.30	18.20	18.27	
20	QPSK	50	0	18.23	18.26	18.17	18.12	18.30	19.0
20	QPSK	50	24	18.34	18.39	18.22	18.34	18.35	
20	QPSK	50	50	18.27	18.21	18.21	18.32	18.36	
20	QPSK	100	0	18.22	18.26	18.23	18.37	18.34	19.0
20	16QAM	1	0	18.21	18.27	18.09	18.23	18.12	
20	16QAM	1	49	18.19	18.13	18.03	18.24	18.19	
20	16QAM	1	99	18.22	18.19	18.09	18.23	18.10	19.0
20	16QAM	50	0	18.40	18.22	18.15	18.40	18.23	
20	16QAM	50	24	18.33	18.29	18.28	18.26	18.34	
20	16QAM	50	50	18.28	18.23	18.16	18.40	18.22	19.0
20	16QAM	100	0	18.21	18.39	18.28	18.36	18.20	
20	64QAM	1	0	18.35	18.29	18.38	18.38	18.38	
20	64QAM	1	49	18.37	18.38	18.29	18.40	18.33	19.0
20	64QAM	1	99	18.40	18.27	18.36	18.37	18.22	
20	64QAM	50	0	18.22	18.22	18.22	18.36	18.40	
20	64QAM	50	24	18.29	18.29	18.33	18.40	18.40	19.0
20	64QAM	50	50	18.40	18.28	18.24	18.20	18.20	
20	64QAM	100	0	18.26	18.23	18.30	18.24	18.34	
20	256QAM	1	0	17.56	17.54	17.65	17.49	17.46	19.0
20	256QAM	1	49	17.69	17.79	17.66	17.60	17.52	
20	256QAM	1	99	17.53	17.76	17.76	17.66	17.53	
20	256QAM	50	0	17.64	17.52	17.76	17.62	17.55	19.0
20	256QAM	50	24	17.65	17.56	17.79	17.79	17.62	
20	256QAM	50	50	17.63	17.51	17.78	17.74	17.54	
20	256QAM	100	0	17.64	17.59	17.79	17.68	17.75	Tune-up limit
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	18.24	18.37	18.40	18.36	18.29	19.0
15	QPSK	1	37	18.38	18.20	18.39	18.26	18.36	
15	QPSK	1	74	18.34	18.38	18.33	18.20	18.35	
15	QPSK	36	0	18.22	18.21	18.10	18.10	18.13	19.0
15	QPSK	36	20	18.30	18.29	18.36	18.39	18.25	
15	QPSK	39	39	18.28	18.22	18.31	18.37	18.23	
15	QPSK	75	0	18.40	18.20	18.34	18.20	18.40	19.0
15	16QAM	1	0	18.16	18.10	18.17	18.29	18.12	
15	16QAM	1	37	18.11	18.28	18.29	18.13	18.18	
15	16QAM	1	74	18.23	18.13	18.22	18.23	18.23	19.0
15	16QAM	36	0	18.20	18.36	18.39	18.26	18.33	
15	16QAM	36	20	18.31	18.37	18.26	18.35	18.28	
15	16QAM	39	39	18.37	18.37	18.31	18.36	18.35	19.0
15	16QAM	75	0	18.21	18.36	18.27	18.23	18.22	
15	64QAM	1	0	18.23	18.34	18.33	18.22	18.38	
15	64QAM	1	37	18.21	18.20	18.37	18.30	18.40	19.0
15	64QAM	1	74	18.33	18.36	18.38	18.34	18.23	
15	64QAM	36	0	18.22	18.38	18.35	18.33	18.32	
15	64QAM	36	20	18.38	18.35	18.28	18.31	18.20	19.0
15	64QAM	39	39	18.35	18.27	18.34	18.23	18.40	
15	64QAM	75	0	18.38	18.32	18.30	18.27	18.23	
15	256QAM	1	0	17.50	17.60	17.41	17.59	17.53	19.0
15	256QAM	1	37	17.67	17.67	17.77	17.67	17.52	
15	256QAM	1	74	17.59	17.50	17.78	17.71	17.66	
15	256QAM	36	0	17.55	17.71	17.77	17.51	17.78	19.0
15	256QAM	36	20	17.52	17.80	17.52	17.79	17.50	
15	256QAM	39	39	17.61	17.71	17.79	17.73	17.65	
15	256QAM	75	0	17.74	17.68	17.80	17.62	17.52	Tune-up limit
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2510	2547	2593	2639	2685	
10	QPSK	1	0	18.23	18.28	18.24	18.30	18.20	19.0
10	QPSK	1	25	18.39	18.27	18.34	18.32	18.23	
10	QPSK	1	49	18.36	18.39	18.39	18.27	18.27	

10	QPSK	25	0	18.28	18.12	18.18	18.26	18.11	19.0
10	QPSK	25	12	18.31	18.37	18.33	18.20	18.26	
10	QPSK	25	25	18.20	18.39	18.35	18.31	18.29	
10	QPSK	50	0	18.35	18.25	18.36	18.34	18.30	
10	16QAM	1	0	18.22	18.16	18.13	18.21	18.22	19.0
10	16QAM	1	25	18.13	18.26	18.15	18.20	18.27	
10	16QAM	1	49	18.18	18.12	18.11	18.19	18.29	
10	16QAM	25	0	18.28	18.26	18.39	18.23	18.27	19.0
10	16QAM	25	12	18.30	18.39	18.28	18.40	18.25	
10	16QAM	25	25	18.35	18.38	18.29	18.35	18.37	
10	16QAM	50	0	18.33	18.34	18.28	18.25	18.33	
10	64QAM	1	0	18.24	18.34	18.20	18.26	18.34	19.0
10	64QAM	1	25	18.33	18.32	18.37	18.31	18.25	
10	64QAM	1	49	18.22	18.38	18.29	18.20	18.33	
10	64QAM	25	0	18.24	18.29	18.32	18.30	18.32	19.0
10	64QAM	25	12	18.21	18.40	18.20	18.27	18.24	
10	64QAM	25	25	18.35	18.28	18.26	18.21	18.39	
10	64QAM	50	0	18.24	18.28	18.32	18.33	18.22	
10	256QAM	1	0	17.51	17.49	17.43	17.56	17.52	19.0
10	256QAM	1	25	17.63	17.76	17.53	17.52	17.68	
10	256QAM	1	49	17.66	17.74	17.71	17.58	17.55	
10	256QAM	25	0	17.78	17.56	17.50	17.69	17.61	19.0
10	256QAM	25	12	17.79	17.67	17.54	17.75	17.60	
10	256QAM	25	25	17.73	17.53	17.58	17.67	17.59	
10	256QAM	50	0	17.64	17.57	17.59	17.80	17.68	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	18.37	18.36	18.21	18.25	18.23	19.0
5	QPSK	1	12	18.36	18.29	18.36	18.39	18.27	
5	QPSK	1	24	18.30	18.28	18.34	18.30	18.40	
5	QPSK	12	0	18.11	18.28	18.30	18.12	18.24	19.0
5	QPSK	12	7	18.32	18.32	18.20	18.40	18.30	
5	QPSK	12	13	18.23	18.39	18.36	18.38	18.21	
5	QPSK	25	0	18.35	18.24	18.21	18.31	18.39	
5	16QAM	1	0	18.12	18.11	18.21	18.29	18.13	19.0
5	16QAM	1	12	18.19	18.22	18.21	18.18	18.16	
5	16QAM	1	24	18.29	18.14	18.12	18.17	18.27	
5	16QAM	12	0	18.25	18.27	18.32	18.23	18.32	19.0
5	16QAM	12	7	18.34	18.35	18.31	18.20	18.21	
5	16QAM	12	13	18.31	18.33	18.28	18.20	18.29	
5	16QAM	25	0	18.24	18.25	18.29	18.40	18.22	
5	64QAM	1	0	18.31	18.30	18.23	18.33	18.23	19.0
5	64QAM	1	12	18.26	18.34	18.20	18.31	18.34	
5	64QAM	1	24	18.23	18.29	18.33	18.26	18.28	
5	64QAM	12	0	18.37	18.37	18.38	18.36	18.26	19.0
5	64QAM	12	7	18.28	18.33	18.28	18.34	18.38	
5	64QAM	12	13	18.21	18.32	18.30	18.37	18.32	
5	64QAM	25	0	18.27	18.38	18.32	18.35	18.23	
5	256QAM	1	0	17.47	17.47	17.46	17.43	17.56	19.0
5	256QAM	1	12	17.65	17.76	17.80	17.71	17.78	
5	256QAM	1	24	17.60	17.76	17.56	17.64	17.75	
5	256QAM	12	0	17.64	17.54	17.53	17.70	17.72	19.0
5	256QAM	12	7	17.79	17.63	17.79	17.54	17.68	
5	256QAM	12	13	17.72	17.66	17.67	17.68	17.58	
5	256QAM	25	0	17.50	17.68	17.55	17.77	17.57	

Band42 Ant2 DSI3

BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				42190	42590	42990	
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	18.84	18.91	18.76	20.0
20	QPSK	1	49	18.86	18.63	18.73	
20	QPSK	1	99	18.80	18.61	18.70	
20	QPSK	50	0	18.70	18.72	18.76	20.0
20	QPSK	50	24	18.73	18.74	18.84	
20	QPSK	50	50	18.83	18.72	18.81	
20	QPSK	100	0	18.88	18.73	18.82	
20	16QAM	1	0	18.73	18.77	18.89	20.0
20	16QAM	1	49	18.85	18.87	18.79	
20	16QAM	1	99	18.82	18.78	18.75	
20	16QAM	50	0	18.79	18.67	18.81	20.0
20	16QAM	50	24	18.71	18.73	18.81	
20	16QAM	50	50	18.71	18.71	18.81	
20	16QAM	100	0	18.90	18.73	18.80	
20	64QAM	1	0	18.80	18.75	18.85	20.0
20	64QAM	1	49	18.85	18.77	18.78	
20	64QAM	1	99	18.88	18.72	18.74	
20	64QAM	50	0	18.81	18.72	18.75	20.0
20	64QAM	50	24	18.83	18.75	18.82	
20	64QAM	50	50	18.83	18.75	18.80	
20	64QAM	100	0	18.70	18.73	18.86	
20	256QAM	1	0	17.81	17.62	17.56	19.0
20	256QAM	1	49	17.80	17.63	17.64	
20	256QAM	1	99	17.87	17.70	17.71	
20	256QAM	50	0	17.78	17.53	17.58	19.0
20	256QAM	50	24	17.82	17.51	17.69	
20	256QAM	50	50	17.78	17.59	17.67	
20	256QAM	100	0	17.79	17.51	17.66	
Channel				42165	42590	43015	Tune-up limit
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	18.70	18.74	18.78	20.0
15	QPSK	1	37	18.77	18.71	18.83	
15	QPSK	1	74	18.86	18.67	18.81	
15	QPSK	36	0	18.70	18.75	18.76	20.0
15	QPSK	36	20	18.86	18.70	18.81	
15	QPSK	39	39	18.74	18.72	18.84	
15	QPSK	75	0	18.72	18.72	18.83	
15	16QAM	1	0	18.75	18.72	18.82	20.0
15	16QAM	1	37	18.90	18.77	18.85	
15	16QAM	1	74	18.81	18.82	18.83	
15	16QAM	36	0	18.85	18.76	18.73	20.0
15	16QAM	36	20	18.82	18.73	18.82	
15	16QAM	39	39	18.88	18.70	18.77	
15	16QAM	75	0	18.72	18.68	18.80	
15	64QAM	1	0	18.73	18.72	18.79	20.0
15	64QAM	1	37	18.88	18.75	18.77	
15	64QAM	1	74	18.82	18.73	18.81	
15	64QAM	36	0	18.78	18.73	18.78	20.0
15	64QAM	36	20	18.87	18.71	18.81	
15	64QAM	39	39	18.87	18.73	18.80	
15	64QAM	75	0	18.90	18.71	18.85	
15	256QAM	1	0	18.82	17.60	17.55	19.0
15	256QAM	1	37	17.76	17.68	17.75	
15	256QAM	1	74	17.87	17.66	17.67	
15	256QAM	36	0	17.78	17.57	17.60	19.0
15	256QAM	36	20	17.79	17.53	17.62	
15	256QAM	39	39	17.80	17.53	17.66	
15	256QAM	75	0	17.79	17.51	17.65	

Channel				42140	42590	43040	Tune-up limit
Frequency (MHz)				3455	3500	3545	
10	QPSK	1	0	18.89	18.85	18.71	20.0
10	QPSK	1	25	18.70	18.88	18.72	
10	QPSK	1	49	18.86	18.82	18.84	
10	QPSK	25	0	18.82	18.85	18.87	20.0
10	QPSK	25	12	18.90	18.76	18.90	
10	QPSK	25	25	18.76	18.84	18.77	
10	QPSK	50	0	18.81	18.88	18.88	
10	16QAM	1	0	18.79	18.85	18.73	20.0
10	16QAM	1	25	18.83	18.76	18.70	
10	16QAM	1	49	18.81	18.87	18.79	
10	16QAM	25	0	18.72	18.74	18.72	20.0
10	16QAM	25	12	18.70	18.89	18.79	
10	16QAM	25	25	18.70	18.90	18.86	
10	16QAM	50	0	18.84	18.87	18.84	
10	64QAM	1	0	18.79	18.77	18.90	20.0
10	64QAM	1	25	18.86	18.88	18.71	
10	64QAM	1	49	18.84	18.72	18.90	
10	64QAM	25	0	18.70	18.89	18.73	20.0
10	64QAM	25	12	18.81	18.70	18.85	
10	64QAM	25	25	18.76	18.82	18.76	
10	64QAM	50	0	18.85	18.70	18.78	
10	256QAM	1	0	18.02	18.84	17.77	19.0
10	256QAM	1	25	18.18	17.84	18.01	
10	256QAM	1	49	18.01	17.79	17.81	
10	256QAM	25	0	17.94	17.73	17.71	19.0
10	256QAM	25	12	17.96	17.71	17.75	
10	256QAM	25	25	17.89	17.66	17.79	
10	256QAM	50	0	17.94	17.75	17.69	
Channel				42115	42590	43065	Tune-up limit
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	18.86	18.86	18.86	20.0
5	QPSK	1	12	18.80	18.88	18.90	
5	QPSK	1	24	18.80	18.90	18.74	
5	QPSK	12	0	18.77	18.90	18.89	20.0
5	QPSK	12	7	18.84	18.88	18.72	
5	QPSK	12	13	18.83	18.70	18.78	
5	QPSK	25	0	18.70	18.84	18.79	
5	16QAM	1	0	18.72	18.85	18.85	20.0
5	16QAM	1	12	18.70	18.78	18.77	
5	16QAM	1	24	18.90	18.79	18.88	
5	16QAM	12	0	18.83	18.83	18.89	20.0
5	16QAM	12	7	18.89	18.78	18.84	
5	16QAM	12	13	18.89	18.87	18.70	
5	16QAM	25	0	18.81	18.90	18.82	
5	64QAM	1	0	18.76	18.85	18.73	20.0
5	64QAM	1	12	18.81	18.75	18.81	
5	64QAM	1	24	18.76	18.89	18.75	
5	64QAM	12	0	18.70	18.77	18.73	20.0
5	64QAM	12	7	18.78	18.90	18.86	
5	64QAM	12	13	18.82	18.73	18.79	
5	64QAM	25	0	18.75	18.87	18.84	
5	256QAM	1	0	17.69	17.44	17.53	19.0
5	256QAM	1	12	17.82	17.56	17.70	
5	256QAM	1	24	17.77	17.51	17.62	
5	256QAM	12	0	17.57	17.40	17.45	19.0
5	256QAM	12	7	17.64	17.37	17.47	
5	256QAM	12	13	17.62	17.35	17.49	
5	256QAM	25	0	17.62	17.38	17.40	

Band2 Ant1 DSI7

BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	19.67	20.14	19.79	21.5
20	QPSK	1	49	19.44	19.76	19.57	
20	QPSK	1	99	19.56	19.97	18.94	
20	QPSK	50	0	19.58	19.64	19.76	21.5
20	QPSK	50	24	19.37	19.74	19.63	
20	QPSK	50	50	19.38	19.86	19.20	
20	QPSK	100	0	19.43	19.76	19.50	
20	16QAM	1	0	19.74	19.87	20.05	21.5
20	16QAM	1	49	19.60	20.11	19.66	
20	16QAM	1	99	19.47	20.12	19.30	
20	16QAM	50	0	19.62	19.79	19.76	21.5
20	16QAM	50	24	19.50	19.76	19.62	
20	16QAM	50	50	19.44	19.84	19.31	
20	16QAM	100	0	19.44	19.76	19.55	
20	64QAM	1	0	19.87	19.63	19.99	21.5
20	64QAM	1	49	19.61	19.94	19.45	
20	64QAM	1	99	19.73	20.04	19.10	
20	64QAM	50	0	19.25	19.35	19.35	21.5
20	64QAM	50	24	19.06	19.35	19.22	
20	64QAM	50	50	19.00	19.51	18.80	
20	64QAM	100	0	19.10	19.42	19.32	
20	256QAM	1	0	17.93	17.46	17.86	19.0
20	256QAM	1	49	17.54	17.78	17.57	
20	256QAM	1	99	17.37	17.86	16.98	
20	256QAM	50	0	17.49	17.61	17.73	19.0
20	256QAM	50	24	17.35	17.73	17.54	
20	256QAM	50	50	17.40	17.83	17.21	
20	256QAM	100	0	17.39	17.72	17.54	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	19.74	19.49	19.62	21.5
15	QPSK	1	37	19.48	19.75	19.34	
15	QPSK	1	74	19.44	19.81	18.93	
15	QPSK	36	0	19.69	19.75	19.61	21.5
15	QPSK	36	20	19.54	19.79	19.38	
15	QPSK	39	39	19.45	19.89	19.17	
15	QPSK	75	0	19.50	19.71	19.42	
15	16QAM	1	0	19.95	19.71	19.91	21.5
15	16QAM	1	37	19.61	19.81	19.45	
15	16QAM	1	74	19.53	20.06	18.97	
15	16QAM	36	0	19.65	19.83	19.59	21.5
15	16QAM	36	20	19.50	19.82	19.44	
15	16QAM	39	39	19.44	19.89	19.18	
15	16QAM	75	0	19.53	19.75	19.43	
15	64QAM	1	0	19.90	19.75	19.74	21.5
15	64QAM	1	37	19.49	19.70	19.59	
15	64QAM	1	74	19.55	20.02	18.95	
15	64QAM	36	0	19.34	19.35	19.24	21.5
15	64QAM	36	20	19.07	19.44	19.10	
15	64QAM	39	39	19.00	19.49	18.76	
15	64QAM	75	0	19.17	19.36	19.04	
15	256QAM	1	0	17.80	17.73	17.95	19.0
15	256QAM	1	37	17.62	17.79	17.38	
15	256QAM	1	74	17.54	17.93	16.99	
15	256QAM	36	0	17.57	17.67	17.54	19.0
15	256QAM	36	20	17.39	17.65	17.32	
15	256QAM	39	39	17.30	17.80	17.12	
15	256QAM	75	0	17.46	17.75	17.37	

Channel				18650	18900	19150	Tune-up limit
Frequency (MHz)				1855	1880	1905	(dBm)
10	QPSK	1	0	19.92	19.84	19.54	21.5
10	QPSK	1	25	19.78	19.97	19.39	
10	QPSK	1	49	19.60	20.06	19.15	
10	QPSK	25	0	19.87	19.91	19.50	21.5
10	QPSK	25	12	19.81	19.98	19.35	
10	QPSK	25	25	19.66	20.01	19.21	
10	QPSK	50	0	19.80	20.04	19.39	
10	16QAM	1	0	20.03	19.95	19.71	21.5
10	16QAM	1	25	20.06	20.02	19.54	
10	16QAM	1	49	19.84	20.06	19.21	
10	16QAM	25	0	19.91	20.02	19.54	21.5
10	16QAM	25	12	19.83	19.95	19.43	
10	16QAM	25	25	19.69	20.02	19.27	
10	16QAM	50	0	19.85	20.00	19.40	
10	64QAM	1	0	19.97	20.01	19.61	21.5
10	64QAM	1	25	20.02	20.06	19.56	
10	64QAM	1	49	19.75	20.02	19.34	
10	64QAM	25	0	19.52	19.54	19.17	21.5
10	64QAM	25	12	19.45	19.62	19.03	
10	64QAM	25	25	19.28	19.61	18.78	
10	64QAM	50	0	19.45	19.58	19.09	
10	256QAM	1	0	18.11	17.86	17.51	19.0
10	256QAM	1	25	17.84	18.11	17.39	
10	256QAM	1	49	17.65	18.13	17.13	
10	256QAM	25	0	17.79	17.86	17.54	19.0
10	256QAM	25	12	17.70	17.87	17.44	
10	256QAM	25	25	17.56	17.96	17.15	
10	256QAM	50	0	17.72	17.92	17.36	
Channel				18625	18900	19175	Tune-up limit
Frequency (MHz)				1852.5	1880	1907.5	(dBm)
5	QPSK	1	0	19.88	19.86	19.36	21.5
5	QPSK	1	12	19.80	20.02	19.21	
5	QPSK	1	24	19.72	19.94	19.07	
5	QPSK	12	0	19.95	19.97	19.26	21.5
5	QPSK	12	7	19.95	19.99	19.25	
5	QPSK	12	13	19.83	19.93	19.15	
5	QPSK	25	0	19.89	20.00	19.28	
5	16QAM	1	0	20.04	20.05	19.49	21.5
5	16QAM	1	12	20.05	20.11	19.54	
5	16QAM	1	24	19.90	20.09	19.42	
5	16QAM	12	0	19.96	20.01	19.33	21.5
5	16QAM	12	7	20.02	19.96	19.38	
5	16QAM	12	13	19.90	20.09	19.25	
5	16QAM	25	0	19.91	19.96	19.30	
5	64QAM	1	0	20.07	19.99	19.70	21.5
5	64QAM	1	12	20.02	20.13	19.40	
5	64QAM	1	24	19.92	20.00	19.24	
5	64QAM	12	0	19.62	19.62	18.92	21.5
5	64QAM	12	7	19.57	19.59	18.95	
5	64QAM	12	13	19.48	19.64	18.84	
5	64QAM	25	0	19.50	19.58	18.88	
5	256QAM	1	0	18.03	17.93	17.37	19.0
5	256QAM	1	12	18.06	18.11	17.18	
5	256QAM	1	24	17.74	17.96	17.22	
5	256QAM	12	0	17.91	17.86	17.30	19.0
5	256QAM	12	7	17.82	17.93	17.28	
5	256QAM	12	13	17.80	17.90	17.14	
5	256QAM	25	0	17.75	17.90	17.15	
Channel				18615	18900	19185	Tune-up limit
Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	19.91	19.85	19.13	

3	QPSK	1	8	19.92	19.96	19.17	21.5
3	QPSK	1	14	19.77	19.86	19.12	
3	QPSK	8	0	19.95	19.96	19.23	21.5
3	QPSK	8	4	19.91	19.88	19.25	
3	QPSK	8	7	19.87	19.94	19.24	
3	QPSK	15	0	19.86	19.92	19.20	
3	16QAM	1	0	19.98	19.96	19.36	21.5
3	16QAM	1	8	19.99	19.32	19.22	
3	16QAM	1	14	19.90	20.03	19.39	
3	16QAM	8	0	19.98	20.04	19.30	21.5
3	16QAM	8	4	20.00	19.96	19.38	
3	16QAM	8	7	19.91	20.01	19.19	
3	16QAM	15	0	19.85	19.88	19.15	
3	64QAM	1	0	20.08	20.13	19.32	21.5
3	64QAM	1	8	20.00	20.01	19.32	
3	64QAM	1	14	19.86	20.06	19.19	
3	64QAM	8	0	19.65	19.58	18.88	21.5
3	64QAM	8	4	19.63	19.56	18.92	
3	64QAM	8	7	19.45	19.57	18.85	
3	64QAM	15	0	19.53	19.51	18.88	
3	256QAM	1	0	17.94	17.98	17.19	19.0
3	256QAM	1	8	18.15	18.06	17.34	
3	256QAM	1	14	17.78	17.98	17.17	
3	256QAM	8	0	17.90	17.98	17.21	19.0
3	256QAM	8	4	17.91	17.87	17.18	
3	256QAM	8	7	17.81	17.85	17.17	
3	256QAM	15	0	17.74	17.85	17.10	
Channel				18607	18900	19193	Tune-up limit
Frequency (MHz)				1850.7	1880	1909.3	(dBm)
1.4	QPSK	1	0	19.89	19.89	19.01	21.5
1.4	QPSK	1	3	19.89	19.88	19.11	
1.4	QPSK	1	5	19.90	19.93	19.02	
1.4	QPSK	3	0	19.89	19.92	19.12	21.5
1.4	QPSK	3	1	19.93	19.95	19.17	
1.4	QPSK	3	3	19.87	19.89	19.14	
1.4	QPSK	6	0	19.87	19.92	19.12	
1.4	16QAM	1	0	19.98	19.97	19.35	21.5
1.4	16QAM	1	3	20.04	20.03	19.34	
1.4	16QAM	1	5	20.07	20.03	19.29	
1.4	16QAM	3	0	20.00	19.97	19.24	21.5
1.4	16QAM	3	1	19.98	20.10	19.21	
1.4	16QAM	3	3	19.97	20.06	19.18	
1.4	16QAM	6	0	20.01	20.02	19.18	
1.4	64QAM	1	0	20.01	20.05	19.26	21.5
1.4	64QAM	1	3	20.07	20.06	19.23	
1.4	64QAM	1	5	20.09	20.03	19.16	
1.4	64QAM	3	0	20.10	19.99	19.24	21.5
1.4	64QAM	3	1	20.12	19.99	19.22	
1.4	64QAM	3	3	20.01	20.01	19.14	
1.4	64QAM	6	0	19.58	19.62	18.81	
1.4	256QAM	1	0	17.95	18.02	17.25	19.0
1.4	256QAM	1	3	18.01	17.93	17.22	
1.4	256QAM	1	5	17.93	17.90	17.13	
1.4	256QAM	3	0	17.89	17.98	17.07	19.0
1.4	256QAM	3	1	17.96	18.05	17.11	
1.4	256QAM	3	3	17.90	17.92	17.17	
1.4	256QAM	6	0	17.91	17.94	17.10	

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BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	15.21	15.27	14.69	16.0
20	QPSK	1	49	14.98	14.83	14.89	
20	QPSK	1	99	14.76	15.06	14.88	
20	QPSK	50	0	15.09	14.79	14.78	16.0
20	QPSK	50	24	14.99	14.86	15.16	
20	QPSK	50	50	14.94	15.02	14.77	
20	QPSK	100	0	15.10	14.90	15.02	
20	16QAM	1	0	14.72	15.00	15.03	16.0
20	16QAM	1	49	15.15	15.12	15.01	
20	16QAM	1	99	15.09	15.24	15.20	
20	16QAM	50	0	15.05	14.78	14.94	16.0
20	16QAM	50	24	15.06	14.87	14.83	
20	16QAM	50	50	15.17	15.03	14.70	
20	16QAM	100	0	15.11	14.92	15.17	
20	64QAM	1	0	15.19	14.98	15.10	16.0
20	64QAM	1	49	15.01	15.09	15.09	
20	64QAM	1	99	14.98	15.24	15.10	
20	64QAM	50	0	14.80	14.44	15.16	16.0
20	64QAM	50	24	14.74	14.44	14.94	
20	64QAM	50	50	14.51	14.53	15.16	
20	64QAM	100	0	14.66	14.47	14.85	
20	256QAM	1	0	13.07	12.59	12.73	14.0
20	256QAM	1	49	12.73	12.62	13.15	
20	256QAM	1	99	12.61	12.81	13.65	
20	256QAM	50	0	12.81	12.46	12.68	14.0
20	256QAM	50	24	12.62	12.45	12.97	
20	256QAM	50	50	12.56	12.62	13.17	
20	256QAM	100	0	12.65	12.48	12.98	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	14.72	15.05	15.09	16.0
15	QPSK	1	37	15.04	15.19	15.02	
15	QPSK	1	74	14.97	14.85	14.73	
15	QPSK	36	0	15.04	15.08	15.15	16.0
15	QPSK	36	20	14.94	14.77	15.15	
15	QPSK	39	39	15.13	15.19	15.15	
15	QPSK	75	0	14.80	15.20	14.77	
15	16QAM	1	0	14.72	14.98	14.99	16.0
15	16QAM	1	37	14.86	15.12	14.99	
15	16QAM	1	74	14.99	14.71	15.08	
15	16QAM	36	0	15.12	14.91	14.85	16.0
15	16QAM	36	20	14.73	14.70	14.85	
15	16QAM	39	39	15.06	14.97	14.85	
15	16QAM	75	0	14.85	15.15	14.86	
15	64QAM	1	0	14.86	15.12	15.00	16.0
15	64QAM	1	37	14.80	14.83	15.14	
15	64QAM	1	74	14.73	14.70	15.13	
15	64QAM	36	0	14.91	15.15	15.03	16.0
15	64QAM	36	20	15.19	15.07	14.95	
15	64QAM	39	39	14.93	14.80	14.86	
15	64QAM	75	0	15.08	14.97	15.19	
15	256QAM	1	0	12.84	12.84	12.65	14.0
15	256QAM	1	37	12.65	12.62	13.04	
15	256QAM	1	74	13.07	12.90	13.02	
15	256QAM	36	0	12.82	12.75	12.90	14.0
15	256QAM	36	20	12.92	12.64	13.06	
15	256QAM	39	39	12.97	12.89	13.10	
15	256QAM	75	0	12.90	12.90	12.96	

Channel				20000	20175	20350	Tune-up limit
Frequency (MHz)				1715	1732.5	1750	(dBm)
10	QPSK	1	0	15.14	15.11	15.11	16.0
10	QPSK	1	25	14.93	14.73	14.73	
10	QPSK	1	49	14.96	15.18	14.74	
10	QPSK	25	0	14.95	14.76	14.79	16.0
10	QPSK	25	12	15.16	15.19	15.00	
10	QPSK	25	25	15.13	14.92	14.99	
10	QPSK	50	0	14.86	14.82	14.96	
10	16QAM	1	0	14.82	14.94	14.89	16.0
10	16QAM	1	25	15.08	14.84	14.72	
10	16QAM	1	49	14.80	14.83	15.15	
10	16QAM	25	0	14.73	14.75	14.80	16.0
10	16QAM	25	12	14.91	14.79	15.18	
10	16QAM	25	25	15.11	15.08	14.71	
10	16QAM	50	0	14.96	15.09	14.87	
10	64QAM	1	0	14.84	15.05	14.78	16.0
10	64QAM	1	25	15.02	14.92	15.09	
10	64QAM	1	49	15.12	14.76	14.94	
10	64QAM	25	0	14.79	14.72	15.13	16.0
10	64QAM	25	12	14.85	14.74	14.92	
10	64QAM	25	25	14.80	14.88	15.09	
10	64QAM	50	0	14.79	14.86	14.74	
10	256QAM	1	0	13.01	12.91	13.04	14.0
10	256QAM	1	25	12.63	12.64	12.93	
10	256QAM	1	49	12.64	12.76	12.67	
10	256QAM	25	0	12.70	12.64	12.67	14.0
10	256QAM	25	12	12.68	12.92	12.64	
10	256QAM	25	25	12.71	13.05	12.96	
10	256QAM	50	0	12.64	12.67	12.95	
Channel				19975	20175	20375	Tune-up limit
Frequency (MHz)				1712.5	1732.5	1752.5	(dBm)
5	QPSK	1	0	14.95	15.07	15.12	16.0
5	QPSK	1	12	15.11	15.09	14.82	
5	QPSK	1	24	14.74	14.75	15.00	
5	QPSK	12	0	14.74	14.90	14.82	16.0
5	QPSK	12	7	15.14	15.08	14.84	
5	QPSK	12	13	14.90	14.97	14.74	
5	QPSK	25	0	14.80	15.04	15.04	
5	16QAM	1	0	14.96	15.03	15.20	16.0
5	16QAM	1	12	15.08	14.73	14.84	
5	16QAM	1	24	14.77	14.97	15.01	
5	16QAM	12	0	14.95	14.92	15.09	16.0
5	16QAM	12	7	15.03	15.15	14.73	
5	16QAM	12	13	15.18	14.84	14.89	
5	16QAM	25	0	14.78	14.93	14.72	
5	64QAM	1	0	14.99	15.12	14.73	16.0
5	64QAM	1	12	14.77	14.80	15.07	
5	64QAM	1	24	15.20	15.03	14.98	
5	64QAM	12	0	15.02	14.87	14.89	16.0
5	64QAM	12	7	15.01	14.91	14.94	
5	64QAM	12	13	15.19	15.08	14.83	
5	64QAM	25	0	15.11	14.81	14.96	
5	256QAM	1	0	13.01	13.09	12.61	14.0
5	256QAM	1	12	12.94	12.69	12.75	
5	256QAM	1	24	12.65	12.94	12.78	
5	256QAM	12	0	13.06	12.97	13.01	14.0
5	256QAM	12	7	12.73	12.91	13.08	
5	256QAM	12	13	12.85	12.75	12.89	
5	256QAM	25	0	12.74	12.74	12.66	
Channel				19965	20175	20385	Tune-up limit
Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	15.05	14.76	15.17	

3	QPSK	1	8	14.78	14.79	14.73	16.0
3	QPSK	1	14	14.88	14.79	14.70	
3	QPSK	8	0	14.92	14.98	14.82	16.0
3	QPSK	8	4	15.12	14.93	14.96	
3	QPSK	8	7	14.76	14.90	15.15	
3	QPSK	15	0	14.75	14.93	15.11	
3	16QAM	1	0	14.97	14.96	14.71	16.0
3	16QAM	1	8	15.13	15.10	15.06	
3	16QAM	1	14	15.16	15.15	15.09	
3	16QAM	8	0	14.99	15.00	14.98	16.0
3	16QAM	8	4	15.10	14.97	15.14	
3	16QAM	8	7	15.19	14.99	14.98	
3	16QAM	15	0	14.95	15.01	15.00	
3	64QAM	1	0	15.11	15.16	14.92	16.0
3	64QAM	1	8	15.18	14.74	14.86	
3	64QAM	1	14	14.97	14.90	14.79	
3	64QAM	8	0	14.85	14.84	14.77	16.0
3	64QAM	8	4	14.94	14.72	14.96	
3	64QAM	8	7	15.14	15.05	14.76	
3	64QAM	15	0	15.00	15.19	14.73	
3	256QAM	1	0	12.89	12.76	12.60	14.0
3	256QAM	1	8	13.04	12.93	13.03	
3	256QAM	1	14	13.09	12.68	12.81	
3	256QAM	8	0	12.68	12.84	12.99	14.0
3	256QAM	8	4	12.82	13.03	12.89	
3	256QAM	8	7	12.89	12.80	12.82	
3	256QAM	15	0	12.93	12.92	13.03	
Channel				19957	20175	20393	Tune-up limit
Frequency (MHz)				1710.7	1732.5	1754.3	(dBm)
1.4	QPSK	1	0	15.14	14.87	14.84	16.0
1.4	QPSK	1	3	14.72	15.00	15.19	
1.4	QPSK	1	5	14.71	14.72	15.03	
1.4	QPSK	3	0	14.75	15.06	14.77	16.0
1.4	QPSK	3	1	15.02	14.70	14.99	
1.4	QPSK	3	3	14.94	14.85	15.07	
1.4	QPSK	6	0	14.96	15.16	15.12	
1.4	16QAM	1	0	14.79	15.18	15.01	16.0
1.4	16QAM	1	3	14.84	14.96	15.17	
1.4	16QAM	1	5	14.70	14.89	15.15	
1.4	16QAM	3	0	14.82	14.96	15.14	16.0
1.4	16QAM	3	1	14.91	14.84	14.78	
1.4	16QAM	3	3	14.72	14.88	15.01	
1.4	16QAM	6	0	14.85	15.09	15.08	
1.4	64QAM	1	0	14.72	14.80	15.11	16.0
1.4	64QAM	1	3	14.78	14.99	14.72	
1.4	64QAM	1	5	14.98	14.89	14.83	
1.4	64QAM	3	0	15.03	15.16	14.76	16.0
1.4	64QAM	3	1	14.95	14.86	15.12	
1.4	64QAM	3	3	15.04	14.99	14.88	
1.4	64QAM	6	0	15.03	15.01	14.97	
1.4	256QAM	1	0	12.90	13.00	12.93	14.0
1.4	256QAM	1	3	12.74	12.91	13.09	
1.4	256QAM	1	5	13.02	12.63	12.76	
1.4	256QAM	3	0	12.63	13.04	13.05	14.0
1.4	256QAM	3	1	12.67	13.04	13.08	
1.4	256QAM	3	3	12.98	13.08	12.88	
1.4	256QAM	6	0	12.96	12.72	12.61	

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BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	19.76	19.84	19.80	21.0
20	QPSK	1	49	19.33	19.62	19.82	
20	QPSK	1	99	19.32	19.67	19.40	
20	QPSK	50	0	19.29	19.79	19.56	21.0
20	QPSK	50	24	19.37	19.76	19.47	
20	QPSK	50	50	19.39	19.69	19.44	
20	QPSK	100	0	19.33	19.67	19.41	
20	16QAM	1	0	19.40	19.62	19.58	21.0
20	16QAM	1	49	19.30	19.81	19.60	
20	16QAM	1	99	19.52	19.70	19.55	
20	16QAM	50	0	19.25	19.66	19.57	21.0
20	16QAM	50	24	19.31	19.68	19.47	
20	16QAM	50	50	19.52	19.51	19.50	
20	16QAM	100	0	19.38	19.50	19.58	
20	64QAM	1	0	19.22	19.41	19.55	21.0
20	64QAM	1	49	19.30	19.43	19.40	
20	64QAM	1	99	19.58	19.51	19.59	
20	64QAM	50	0	19.09	19.54	19.52	21.0
20	64QAM	50	24	19.36	19.47	19.49	
20	64QAM	50	50	19.43	19.66	19.47	
20	64QAM	100	0	19.44	19.70	19.40	
20	256QAM	1	0	17.83	18.13	19.45	20.0
20	256QAM	1	49	17.82	18.19	19.48	
20	256QAM	1	99	17.89	18.23	19.44	
20	256QAM	50	0	17.72	18.04	18.30	19.0
20	256QAM	50	24	17.88	18.10	18.31	
20	256QAM	50	50	17.84	18.23	18.29	
20	256QAM	100	0	17.74	18.14	18.30	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	19.21	19.51	19.77	21.0
15	QPSK	1	37	19.35	19.62	19.79	
15	QPSK	1	74	19.28	19.67	19.71	
15	QPSK	36	0	19.39	19.66	19.80	21.0
15	QPSK	36	20	19.32	19.64	19.77	
15	QPSK	39	39	19.30	19.54	19.58	
15	QPSK	75	0	19.37	19.61	19.42	
15	16QAM	1	0	19.30	19.70	19.40	21.0
15	16QAM	1	37	19.42	19.76	19.50	
15	16QAM	1	74	19.35	19.63	19.45	
15	16QAM	36	0	19.43	19.67	19.58	21.0
15	16QAM	36	20	19.33	19.42	19.60	
15	16QAM	39	39	19.39	19.54	19.49	
15	16QAM	75	0	19.45	19.42	19.41	
15	64QAM	1	0	19.32	19.57	19.49	21.0
15	64QAM	1	37	19.47	19.50	19.60	
15	64QAM	1	74	19.33	19.56	19.56	
15	64QAM	36	0	19.30	19.55	19.53	21.0
15	64QAM	36	20	19.37	19.68	19.59	
15	64QAM	39	39	19.30	19.78	19.40	
15	64QAM	75	0	19.45	19.77	19.47	
15	256QAM	1	0	17.87	18.12	18.21	20.0
15	256QAM	1	37	17.77	18.15	18.44	
15	256QAM	1	74	17.94	18.21	18.31	
15	256QAM	36	0	17.75	18.05	18.30	19.0
15	256QAM	36	20	17.81	18.14	18.18	
15	256QAM	39	39	17.81	18.13	18.25	
15	256QAM	75	0	17.77	18.08	18.19	

Channel				20800	21100	21400	Tune-up limit
Frequency (MHz)				2505	2535	2565	(dBm)
10	QPSK	1	0	19.40	19.58	19.57	21.0
10	QPSK	1	25	19.39	19.42	19.42	
10	QPSK	1	49	19.43	19.57	19.41	
10	QPSK	25	0	19.43	19.52	19.58	21.0
10	QPSK	25	12	19.33	19.44	19.40	
10	QPSK	25	25	19.52	19.48	19.51	
10	QPSK	50	0	19.46	19.60	19.52	21.0
10	16QAM	1	0	19.63	19.45	19.48	
10	16QAM	1	25	19.73	19.58	19.55	
10	16QAM	1	49	19.64	19.41	19.60	21.0
10	16QAM	25	0	19.32	19.46	19.54	
10	16QAM	25	12	19.43	19.50	19.53	
10	16QAM	25	25	19.43	19.83	19.51	21.0
10	16QAM	50	0	19.47	19.80	19.45	
10	64QAM	1	0	19.58	19.77	19.55	
10	64QAM	1	25	19.63	19.58	19.59	21.0
10	64QAM	1	49	19.37	19.43	19.44	
10	64QAM	25	0	19.45	19.51	19.52	
10	64QAM	25	12	19.52	19.40	19.55	21.0
10	64QAM	25	25	19.44	19.52	19.42	
10	64QAM	50	0	19.55	19.49	19.47	
10	256QAM	1	0	18.02	19.60	19.56	20.0
10	256QAM	1	25	17.93	18.47	19.54	
10	256QAM	1	49	17.99	18.34	19.54	
10	256QAM	25	0	17.90	18.26	18.42	19.0
10	256QAM	25	12	17.93	18.23	18.46	
10	256QAM	25	25	17.94	18.31	18.31	
10	256QAM	50	0	17.88	18.22	18.29	
Channel				20775	21100	21425	Tune-up limit
Frequency (MHz)				2502.5	2535	2567.5	(dBm)
5	QPSK	1	0	19.39	19.58	19.40	21.0
5	QPSK	1	12	19.40	19.42	19.58	
5	QPSK	1	24	19.39	19.57	19.59	
5	QPSK	12	0	19.42	19.48	19.50	21.0
5	QPSK	12	7	19.47	19.60	19.55	
5	QPSK	12	13	19.41	19.49	19.51	
5	QPSK	25	0	19.42	19.51	19.57	21.0
5	16QAM	1	0	19.74	19.46	19.44	
5	16QAM	1	12	19.54	19.56	19.55	
5	16QAM	1	24	19.57	19.56	19.59	21.0
5	16QAM	12	0	19.46	19.51	19.47	
5	16QAM	12	7	19.49	19.45	19.59	
5	16QAM	12	13	19.45	19.58	19.54	21.0
5	16QAM	25	0	19.45	19.49	19.46	
5	64QAM	1	0	19.50	19.55	19.48	
5	64QAM	1	12	19.58	19.49	19.47	21.0
5	64QAM	1	24	19.44	19.46	19.50	
5	64QAM	12	0	19.44	19.49	19.58	
5	64QAM	12	7	19.55	19.56	19.43	21.0
5	64QAM	12	13	19.50	19.41	19.46	
5	64QAM	25	0	19.53	19.60	19.54	
5	256QAM	1	0	17.98	19.47	18.47	20.0
5	256QAM	1	12	18.12	19.48	18.54	
5	256QAM	1	24	17.95	19.56	18.48	
5	256QAM	12	0	17.88	18.26	18.34	19.0
5	256QAM	12	7	17.90	18.32	18.39	
5	256QAM	12	13	17.84	18.39	18.34	
5	256QAM	25	0	17.87	18.17	18.35	

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BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	20.43	20.89	20.66	21.5
20	QPSK	1	49	20.24	20.38	20.69	
20	QPSK	1	99	20.14	20.54	20.35	
20	QPSK	50	0	20.39	20.33	20.75	21.5
20	QPSK	50	24	20.36	20.42	20.63	
20	QPSK	50	50	20.20	20.51	20.54	
20	QPSK	100	0	20.33	20.41	20.73	
20	16QAM	1	0	20.59	20.09	20.69	21.5
20	16QAM	1	49	20.59	20.56	20.59	
20	16QAM	1	99	20.51	20.86	20.43	
20	16QAM	50	0	20.45	20.35	20.83	21.5
20	16QAM	50	24	20.32	20.48	20.80	
20	16QAM	50	50	20.18	20.57	20.53	
20	16QAM	100	0	20.37	20.45	20.70	
20	64QAM	1	0	20.44	20.30	20.66	21.5
20	64QAM	1	49	20.44	20.49	20.77	
20	64QAM	1	99	20.31	20.55	20.47	
20	64QAM	50	0	19.92	19.92	20.42	21.5
20	64QAM	50	24	19.87	20.01	20.30	
20	64QAM	50	50	19.85	20.16	20.20	
20	64QAM	100	0	19.86	20.11	20.20	
20	256QAM	1	0	18.39	17.94	18.34	19.0
20	256QAM	1	49	18.06	18.13	18.33	
20	256QAM	1	99	18.03	18.27	18.04	
20	256QAM	50	0	18.03	18.03	18.34	19.0
20	256QAM	50	24	17.88	18.03	18.30	
20	256QAM	50	50	17.81	18.11	18.22	
20	256QAM	100	0	17.98	18.02	18.32	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	20.55	20.16	20.47	21.5
15	QPSK	1	37	20.27	20.44	20.46	
15	QPSK	1	74	20.27	20.43	20.30	
15	QPSK	36	0	20.47	20.37	20.62	21.5
15	QPSK	36	20	20.31	20.39	20.49	
15	QPSK	39	39	20.33	20.54	20.30	
15	QPSK	75	0	20.24	20.42	20.51	
15	16QAM	1	0	20.63	20.23	20.81	21.5
15	16QAM	1	37	20.52	20.69	20.68	
15	16QAM	1	74	20.39	20.61	20.27	
15	16QAM	36	0	20.51	20.42	20.71	21.5
15	16QAM	36	20	20.35	20.43	20.52	
15	16QAM	39	39	20.31	20.58	20.37	
15	16QAM	75	0	20.29	20.49	20.51	
15	64QAM	1	0	20.59	20.26	20.62	21.5
15	64QAM	1	37	20.52	20.52	20.44	
15	64QAM	1	74	20.42	20.79	20.37	
15	64QAM	36	0	20.11	20.01	20.16	21.5
15	64QAM	36	20	19.92	20.02	20.08	
15	64QAM	39	39	19.86	20.11	20.03	
15	64QAM	75	0	19.89	20.10	20.15	
15	256QAM	1	0	18.28	18.07	18.38	19.0
15	256QAM	1	37	18.10	18.12	18.36	
15	256QAM	1	74	18.07	18.35	17.84	
15	256QAM	36	0	18.11	18.03	18.22	19.0
15	256QAM	36	20	17.96	18.03	18.12	
15	256QAM	39	39	17.88	18.10	18.02	
15	256QAM	75	0	18.03	18.12	18.12	

Channel				26090	26340	26640	Tune-up limit
Frequency (MHz)				1855	1880	1910	(dBm)
10	QPSK	1	0	20.79	20.47	20.67	21.5
10	QPSK	1	25	20.61	20.70	20.65	
10	QPSK	1	49	20.40	20.72	20.38	
10	QPSK	25	0	20.71	20.56	20.70	21.5
10	QPSK	25	12	20.67	20.67	20.62	
10	QPSK	25	25	20.57	20.67	20.54	
10	QPSK	50	0	20.50	20.60	20.53	
10	16QAM	1	0	20.79	20.77	20.88	21.5
10	16QAM	1	25	20.76	20.75	20.67	
10	16QAM	1	49	20.56	20.63	20.46	
10	16QAM	25	0	20.69	20.58	20.70	21.5
10	16QAM	25	12	20.53	20.62	20.68	
10	16QAM	25	25	20.52	20.73	20.52	
10	16QAM	50	0	20.55	20.67	20.62	
10	64QAM	1	0	20.79	20.57	20.78	21.5
10	64QAM	1	25	20.74	20.80	20.78	
10	64QAM	1	49	20.49	20.59	20.41	
10	64QAM	25	0	20.32	20.10	20.27	21.5
10	64QAM	25	12	20.21	20.19	20.23	
10	64QAM	25	25	20.13	20.26	20.09	
10	64QAM	50	0	20.16	20.27	20.11	
10	256QAM	1	0	18.54	18.14	18.41	19.0
10	256QAM	1	25	18.56	18.24	18.36	
10	256QAM	1	49	18.11	18.58	18.16	
10	256QAM	25	0	18.36	18.24	18.32	19.0
10	256QAM	25	12	18.27	18.23	18.25	
10	256QAM	25	25	18.15	18.35	18.16	
10	256QAM	50	0	18.19	18.29	18.24	
Channel				26065	26340	26665	Tune-up limit
Frequency (MHz)				1852.5	1880	1912.5	(dBm)
5	QPSK	1	0	20.77	20.49	20.51	21.5
5	QPSK	1	12	20.74	20.61	20.44	
5	QPSK	1	24	20.65	20.56	20.30	
5	QPSK	12	0	20.78	20.59	20.56	21.5
5	QPSK	12	7	20.74	20.57	20.55	
5	QPSK	12	13	20.64	20.56	20.47	
5	QPSK	25	0	20.74	20.52	20.52	
5	16QAM	1	0	20.84	20.77	20.72	21.5
5	16QAM	1	12	20.85	20.83	20.81	
5	16QAM	1	24	20.65	20.66	20.64	
5	16QAM	12	0	20.79	20.67	20.57	21.5
5	16QAM	12	7	20.82	20.58	20.55	
5	16QAM	12	13	20.72	20.63	20.47	
5	16QAM	25	0	20.74	20.68	20.51	
5	64QAM	1	0	20.87	20.81	20.67	21.5
5	64QAM	1	12	20.82	20.80	20.60	
5	64QAM	1	24	20.66	20.87	20.34	
5	64QAM	12	0	20.36	20.26	20.15	21.5
5	64QAM	12	7	20.40	20.22	20.18	
5	64QAM	12	13	20.33	20.20	20.07	
5	64QAM	25	0	20.31	20.27	20.14	
5	256QAM	1	0	18.47	18.35	18.13	19.0
5	256QAM	1	12	18.50	18.48	18.18	
5	256QAM	1	24	18.36	18.42	18.00	
5	256QAM	12	0	18.37	18.29	18.10	19.0
5	256QAM	12	7	18.39	18.24	18.16	
5	256QAM	12	13	18.35	18.23	18.14	
5	256QAM	25	0	18.36	18.20	18.16	
Channel				26055	26340	26675	Tune-up limit
Frequency (MHz)				1851.5	1880	1913.5	(dBm)
3	QPSK	1	0	20.72	20.45	20.35	

3	QPSK	1	8	20.74	20.68	20.46	21.5
3	QPSK	1	14	20.66	20.51	20.33	
3	QPSK	8	0	20.76	20.58	20.47	
3	QPSK	8	4	20.76	20.66	20.49	21.5
3	QPSK	8	7	20.72	20.59	20.41	
3	QPSK	15	0	20.72	20.63	20.49	
3	16QAM	1	0	20.76	20.80	20.48	21.5
3	16QAM	1	8	20.65	20.87	20.65	
3	16QAM	1	14	20.83	20.81	20.55	
3	16QAM	8	0	20.83	20.65	20.51	
3	16QAM	8	4	20.76	20.65	20.51	21.5
3	16QAM	8	7	20.79	20.59	20.46	
3	16QAM	15	0	20.83	20.60	20.46	
3	64QAM	1	0	20.73	20.67	20.64	21.5
3	64QAM	1	8	20.59	20.81	20.62	
3	64QAM	1	14	20.69	20.80	20.43	
3	64QAM	8	0	20.38	20.26	20.11	
3	64QAM	8	4	20.37	20.23	20.10	21.5
3	64QAM	8	7	20.22	20.28	20.09	
3	64QAM	15	0	20.30	20.17	20.12	
3	256QAM	1	0	18.50	18.26	18.32	19.0
3	256QAM	1	8	18.65	18.60	18.05	
3	256QAM	1	14	18.41	18.40	18.05	
3	256QAM	8	0	18.42	18.23	18.14	19.0
3	256QAM	8	4	18.39	18.27	18.13	
3	256QAM	8	7	18.39	18.26	18.06	
3	256QAM	15	0	18.35	18.18	18.09	
Channel				26047	26340	26683	Tune-up limit
Frequency (MHz)				1850.7	1880	1914.3	(dBm)
1.4	QPSK	1	0	20.75	20.54	20.41	21.5
1.4	QPSK	1	3	20.75	20.67	20.43	
1.4	QPSK	1	5	20.70	20.63	20.36	
1.4	QPSK	3	0	20.76	20.61	20.36	21.5
1.4	QPSK	3	1	20.77	20.58	20.38	
1.4	QPSK	3	3	20.73	20.63	20.36	
1.4	QPSK	6	0	20.74	20.60	20.39	
1.4	16QAM	1	0	20.74	20.82	20.65	21.5
1.4	16QAM	1	3	20.69	20.75	20.44	
1.4	16QAM	1	5	20.69	20.69	20.56	
1.4	16QAM	3	0	20.69	20.69	20.49	
1.4	16QAM	3	1	20.69	20.63	20.47	21.5
1.4	16QAM	3	3	20.82	20.77	20.49	
1.4	16QAM	6	0	20.82	20.56	20.43	
1.4	64QAM	1	0	20.81	20.65	20.55	21.5
1.4	64QAM	1	3	20.69	20.70	20.58	
1.4	64QAM	1	5	20.83	20.49	20.55	
1.4	64QAM	3	0	20.73	20.52	20.61	
1.4	64QAM	3	1	20.72	20.62	20.40	21.5
1.4	64QAM	3	3	20.75	20.70	20.48	
1.4	64QAM	6	0	20.45	20.08	20.06	
1.4	256QAM	1	0	18.42	18.37	18.10	19.0
1.4	256QAM	1	3	18.52	18.54	18.13	
1.4	256QAM	1	5	18.42	18.32	18.21	
1.4	256QAM	3	0	18.31	18.26	17.99	
1.4	256QAM	3	1	18.56	18.24	18.16	19.0
1.4	256QAM	3	3	18.47	18.20	18.15	
1.4	256QAM	6	0	18.36	18.25	18.00	

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BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	20.15	20.48	20.26	21.0
20	QPSK	1	49	20.23	20.21	20.44	
20	QPSK	1	99	20.26	20.36	20.46	
20	QPSK	50	0	20.20	20.21	20.47	21.0
20	QPSK	50	24	20.09	20.34	20.07	
20	QPSK	50	50	20.10	20.28	20.07	
20	QPSK	100	0	20.04	20.19	20.14	
20	16QAM	1	0	20.01	20.37	20.02	21.0
20	16QAM	1	49	20.08	20.04	20.09	
20	16QAM	1	99	20.19	20.23	20.24	
20	16QAM	50	0	20.13	20.04	20.00	21.0
20	16QAM	50	24	20.11	20.09	20.24	
20	16QAM	50	50	20.08	20.28	20.06	
20	16QAM	100	0	20.09	20.14	20.10	
20	64QAM	1	0	20.21	20.06	20.02	21.0
20	64QAM	1	49	20.08	20.18	20.15	
20	64QAM	1	99	20.20	20.11	20.07	
20	64QAM	50	0	19.84	20.13	20.12	21.0
20	64QAM	50	24	19.67	20.18	20.14	
20	64QAM	50	50	19.72	20.16	20.03	
20	64QAM	100	0	19.76	20.16	20.04	
20	256QAM	1	0	18.23	18.21	18.17	20.0
20	256QAM	1	49	18.26	18.49	18.39	
20	256QAM	1	99	18.16	18.36	18.66	
20	256QAM	50	0	18.05	18.04	18.38	20.0
20	256QAM	50	24	18.00	18.17	18.42	
20	256QAM	50	50	17.98	18.23	18.42	
20	256QAM	100	0	18.00	18.11	18.39	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	20.43	20.04	19.97	21.0
15	QPSK	1	37	20.37	20.01	20.07	
15	QPSK	1	74	20.21	20.14	20.18	
15	QPSK	36	0	20.21	20.19	20.26	21.0
15	QPSK	36	20	20.20	19.98	20.02	
15	QPSK	39	39	20.09	20.04	20.01	
15	QPSK	75	0	20.28	20.10	20.11	
15	16QAM	1	0	20.02	20.17	19.96	21.0
15	16QAM	1	37	20.27	20.23	20.34	
15	16QAM	1	74	20.15	20.18	20.44	
15	16QAM	36	0	20.46	20.19	20.22	21.0
15	16QAM	36	20	20.46	20.13	20.20	
15	16QAM	39	39	20.27	20.13	20.29	
15	16QAM	75	0	20.13	20.09	20.18	
15	64QAM	1	0	20.25	20.03	20.07	21.0
15	64QAM	1	37	20.17	20.15	20.43	
15	64QAM	1	74	20.15	20.15	20.32	
15	64QAM	36	0	20.10	19.78	19.74	21.0
15	64QAM	36	20	20.13	19.62	19.83	
15	64QAM	39	39	19.94	19.75	19.93	
15	64QAM	75	0	20.08	19.70	19.87	
15	256QAM	1	0	18.46	18.00	18.05	20.0
15	256QAM	1	37	18.27	17.93	18.21	
15	256QAM	1	74	18.44	17.97	18.27	
15	256QAM	36	0	18.45	18.09	18.13	20.0
15	256QAM	36	20	18.44	17.95	18.05	
15	256QAM	39	39	18.33	18.05	18.21	
15	256QAM	75	0	18.41	18.12	18.12	

Channel				132022	132322	132622	Tune-up limit
Frequency (MHz)				1715	1745	1775	(dBm)
10	QPSK	1	0	20.23	20.22	20.39	21.0
10	QPSK	1	25	20.23	20.33	20.16	
10	QPSK	1	49	20.12	20.44	20.17	
10	QPSK	25	0	20.28	20.28	20.11	21.0
10	QPSK	25	12	20.23	20.37	20.18	
10	QPSK	25	25	20.15	20.36	20.22	
10	QPSK	50	0	20.22	20.29	20.00	
10	16QAM	1	0	20.45	20.31	20.23	21.0
10	16QAM	1	25	20.43	20.10	20.01	
10	16QAM	1	49	20.30	20.29	20.15	
10	16QAM	25	0	20.33	20.06	20.21	21.0
10	16QAM	25	12	20.31	20.25	20.06	
10	16QAM	25	25	20.14	20.15	20.11	
10	16QAM	50	0	20.20	20.11	20.25	
10	64QAM	1	0	20.38	20.05	20.12	21.0
10	64QAM	1	25	20.38	20.27	20.20	
10	64QAM	1	49	20.38	20.25	20.21	
10	64QAM	25	0	19.95	19.93	20.04	21.0
10	64QAM	25	12	19.90	20.00	20.22	
10	64QAM	25	25	19.79	19.95	20.28	
10	64QAM	50	0	19.82	19.82	20.19	
10	256QAM	1	0	18.18	18.31	18.42	20.0
10	256QAM	1	25	18.24	18.40	18.65	
10	256QAM	1	49	18.34	18.35	18.69	
10	256QAM	25	0	18.27	18.23	18.49	20.0
10	256QAM	25	12	18.15	18.22	18.54	
10	256QAM	25	25	18.22	18.24	18.53	
10	256QAM	50	0	18.17	18.21	18.48	
Channel				131997	132322	132647	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	(dBm)
5	QPSK	1	0	20.21	20.19	20.00	21.0
5	QPSK	1	12	20.27	20.35	20.18	
5	QPSK	1	24	20.21	20.28	20.02	
5	QPSK	12	0	20.25	20.30	20.07	21.0
5	QPSK	12	7	20.39	20.29	20.24	
5	QPSK	12	13	20.33	20.29	20.30	
5	QPSK	25	0	20.00	20.26	20.16	
5	16QAM	1	0	20.30	20.01	20.24	21.0
5	16QAM	1	12	20.09	20.20	20.21	
5	16QAM	1	24	20.26	20.14	20.15	
5	16QAM	12	0	20.08	20.23	20.19	21.0
5	16QAM	12	7	20.39	20.28	20.30	
5	16QAM	12	13	20.34	20.19	20.04	
5	16QAM	25	0	20.29	20.28	20.24	
5	64QAM	1	0	20.27	20.15	20.01	21.0
5	64QAM	1	12	20.30	20.20	20.03	
5	64QAM	1	24	20.27	20.09	20.11	
5	64QAM	12	0	20.07	20.26	20.07	21.0
5	64QAM	12	7	20.07	20.20	20.29	
5	64QAM	12	13	19.93	20.21	20.13	
5	64QAM	25	0	19.87	20.09	20.17	
5	256QAM	1	0	18.33	18.22	18.45	20.0
5	256QAM	1	12	18.31	18.32	18.69	
5	256QAM	1	24	18.33	18.34	18.57	
5	256QAM	12	0	18.25	18.25	18.47	20.0
5	256QAM	12	7	18.33	18.23	18.48	
5	256QAM	12	13	18.28	18.26	18.58	
5	256QAM	25	0	18.24	18.17	18.45	
Channel				131987	132322	132657	Tune-up limit
Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	20.21	20.25	20.19	

3	QPSK	1	8	20.32	20.37	20.26	21.0
3	QPSK	1	14	20.30	20.27	20.19	
3	QPSK	8	0	20.28	20.28	20.02	
3	QPSK	8	4	20.30	20.30	20.00	21.0
3	QPSK	8	7	20.26	20.25	20.29	
3	QPSK	15	0	20.22	20.08	20.22	
3	16QAM	1	0	20.16	20.16	20.14	
3	16QAM	1	8	20.03	20.15	20.17	21.0
3	16QAM	1	14	20.29	20.41	20.01	
3	16QAM	8	0	20.21	20.40	20.00	
3	16QAM	8	4	20.41	20.43	20.25	21.0
3	16QAM	8	7	20.35	20.30	20.28	
3	16QAM	15	0	20.34	20.26	20.27	
3	64QAM	1	0	20.35	20.42	20.05	
3	64QAM	1	8	20.41	20.21	20.07	21.0
3	64QAM	1	14	20.42	20.20	20.11	
3	64QAM	8	0	19.96	20.02	20.28	
3	64QAM	8	4	19.94	20.08	20.25	21.0
3	64QAM	8	7	19.96	20.23	20.21	
3	64QAM	15	0	19.93	19.91	20.16	
3	256QAM	1	0	18.30	18.27	18.59	
3	256QAM	1	8	18.22	18.43	18.70	20.0
3	256QAM	1	14	18.31	18.22	18.65	
3	256QAM	8	0	18.35	18.28	18.44	
3	256QAM	8	4	18.28	18.34	18.53	20.0
3	256QAM	8	7	18.27	18.24	18.52	
3	256QAM	15	0	18.22	18.20	18.46	
Channel				131979	132322	132665	Tune-up limit
Frequency (MHz)				1710.7	1745	1779.3	(dBm)
1.4	QPSK	1	0	20.25	20.27	20.21	
1.4	QPSK	1	3	20.29	20.34	20.23	21.0
1.4	QPSK	1	5	20.21	20.27	20.13	
1.4	QPSK	3	0	20.27	20.32	20.23	
1.4	QPSK	3	1	20.27	20.23	20.22	21.0
1.4	QPSK	3	3	20.26	20.30	20.28	
1.4	QPSK	6	0	20.30	20.26	20.01	
1.4	16QAM	1	0	20.42	20.06	20.07	
1.4	16QAM	1	3	20.44	20.02	20.26	21.0
1.4	16QAM	1	5	20.36	20.16	20.18	
1.4	16QAM	3	0	20.31	20.10	20.24	
1.4	16QAM	3	1	20.29	20.33	20.27	21.0
1.4	16QAM	3	3	20.32	20.37	20.13	
1.4	16QAM	6	0	20.31	20.23	20.25	
1.4	64QAM	1	0	20.29	20.34	20.10	
1.4	64QAM	1	3	20.47	20.43	20.26	21.0
1.4	64QAM	1	5	20.42	20.36	20.12	
1.4	64QAM	3	0	20.32	20.35	20.29	
1.4	64QAM	3	1	20.45	20.37	20.15	21.0
1.4	64QAM	3	3	20.43	20.46	20.03	
1.4	64QAM	6	0	19.91	19.88	20.18	
1.4	256QAM	1	0	18.21	18.30	20.20	
1.4	256QAM	1	3	18.28	18.32	20.04	20.0
1.4	256QAM	1	5	18.29	18.39	20.01	
1.4	256QAM	3	0	18.30	18.14	20.14	
1.4	256QAM	3	1	18.31	18.33	20.04	20.0
1.4	256QAM	3	3	18.29	18.30	18.45	
1.4	256QAM	6	0	18.21	18.31	18.46	

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BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	23.06	23.10	23.00	24.0
20	QPSK	1	49	23.00	22.94	22.88	
20	QPSK	1	99	22.83	22.83	22.83	
20	QPSK	50	0	21.24	21.18	21.12	22.0
20	QPSK	50	24	21.26	21.12	21.10	
20	QPSK	50	50	21.20	21.10	21.10	
20	QPSK	100	0	21.28	21.12	21.08	
20	16QAM	1	0	21.38	21.39	21.26	22.0
20	16QAM	1	49	21.38	21.45	21.20	
20	16QAM	1	99	21.19	21.15	21.09	
20	16QAM	50	0	20.21	20.17	20.14	21.0
20	16QAM	50	24	20.27	20.12	20.14	
20	16QAM	50	50	20.18	20.15	20.14	
20	16QAM	100	0	20.26	20.11	20.12	
20	64QAM	1	0	20.29	20.29	20.14	21.0
20	64QAM	1	49	20.19	20.21	20.15	
20	64QAM	1	99	20.11	20.17	20.06	
20	64QAM	50	0	19.21	19.19	19.13	20.0
20	64QAM	50	24	19.24	19.16	19.13	
20	64QAM	50	50	19.23	19.21	19.17	
20	64QAM	100	0	19.30	19.14	19.14	
20	256QAM	1	0	17.36	17.33	17.28	19.0
20	256QAM	1	49	17.31	17.22	17.06	
20	256QAM	1	99	17.22	17.26	17.26	
20	256QAM	50	0	17.27	17.18	17.12	19.0
20	256QAM	50	24	17.27	17.15	17.10	
20	256QAM	50	50	17.18	17.14	17.16	
20	256QAM	100	0	17.23	17.09	17.11	
Channel				37825	38000	38175	Tune-up limit
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	23.05	23.03	23.02	24.0
15	QPSK	1	37	23.00	22.90	23.05	
15	QPSK	1	74	22.81	22.74	22.72	
15	QPSK	36	0	21.20	21.03	21.01	22.0
15	QPSK	36	20	21.10	21.04	21.01	
15	QPSK	39	39	21.20	21.08	21.09	
15	QPSK	75	0	21.10	21.00	21.10	
15	16QAM	1	0	21.37	21.39	21.21	22.0
15	16QAM	1	37	21.23	21.02	21.23	
15	16QAM	1	74	21.15	21.10	21.18	
15	16QAM	36	0	21.00	21.00	21.15	21.0
15	16QAM	36	20	21.15	21.10	21.19	
15	16QAM	39	39	21.17	21.00	21.06	
15	16QAM	75	0	21.13	21.19	21.13	
15	64QAM	1	0	21.06	21.08	21.04	21.0
15	64QAM	1	37	21.16	21.01	21.16	
15	64QAM	1	74	21.13	21.00	21.13	
15	64QAM	36	0	19.06	19.06	19.07	20.0
15	64QAM	36	20	19.13	19.20	19.13	
15	64QAM	39	39	19.06	19.13	19.03	
15	64QAM	75	0	19.03	19.18	19.10	
15	256QAM	1	0	17.08	17.05	17.30	19.0
15	256QAM	1	37	17.28	17.22	17.08	
15	256QAM	1	74	17.04	17.22	17.08	
15	256QAM	36	0	17.27	17.21	17.02	19.0
15	256QAM	36	20	17.27	17.02	17.01	
15	256QAM	39	39	17.16	17.15	17.11	
15	256QAM	75	0	17.05	17.26	17.25	

Channel				37800	38000	38200	Tune-up limit
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	23.01	23.00	23.03	24.0
10	QPSK	1	25	22.95	23.04	22.91	
10	QPSK	1	49	22.82	22.81	22.89	
10	QPSK	25	0	21.11	21.12	21.06	22.0
10	QPSK	25	12	21.15	21.10	21.19	
10	QPSK	25	25	21.17	21.07	21.02	
10	QPSK	50	0	21.15	21.05	21.00	
10	16QAM	1	0	21.01	21.38	21.37	22.0
10	16QAM	1	25	21.39	21.26	21.17	
10	16QAM	1	49	21.11	21.02	21.15	
10	16QAM	25	0	21.17	21.17	21.02	21.0
10	16QAM	25	12	21.11	21.18	21.02	
10	16QAM	25	25	21.05	21.11	21.15	
10	16QAM	50	0	21.06	21.08	21.01	
10	64QAM	1	0	21.18	21.19	21.14	21.0
10	64QAM	1	25	21.00	21.10	21.02	
10	64QAM	1	49	21.10	21.01	21.11	
10	64QAM	25	0	19.08	19.11	19.05	20.0
10	64QAM	25	12	19.16	19.05	19.16	
10	64QAM	25	25	19.05	19.00	19.06	
10	64QAM	50	0	19.15	19.12	19.13	
10	256QAM	1	0	17.18	17.30	17.03	19.0
10	256QAM	1	25	17.04	17.24	17.28	
10	256QAM	1	49	17.30	17.01	17.13	
10	256QAM	25	0	17.08	17.24	17.03	19.0
10	256QAM	25	12	17.17	17.15	17.27	
10	256QAM	25	25	17.13	17.24	17.09	
10	256QAM	50	0	17.03	17.20	17.00	
Channel				37775	38000	38225	Tune-up limit
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	23.03	23.04	23.07	24.0
5	QPSK	1	12	22.99	23.00	23.05	
5	QPSK	1	24	22.81	22.85	22.80	
5	QPSK	12	0	21.17	21.07	21.18	22.0
5	QPSK	12	7	21.01	21.09	21.00	
5	QPSK	12	13	21.03	21.03	21.08	
5	QPSK	25	0	21.09	21.14	21.15	
5	16QAM	1	0	21.16	21.01	21.11	22.0
5	16QAM	1	12	21.24	21.21	21.30	
5	16QAM	1	24	21.03	21.16	21.04	
5	16QAM	12	0	21.02	21.11	21.05	21.0
5	16QAM	12	7	21.20	21.19	21.04	
5	16QAM	12	13	21.14	21.20	21.09	
5	16QAM	25	0	21.06	21.09	21.14	
5	64QAM	1	0	21.01	21.12	21.18	21.0
5	64QAM	1	12	21.18	21.14	21.02	
5	64QAM	1	24	21.01	21.06	21.03	
5	64QAM	12	0	19.07	19.09	19.20	20.0
5	64QAM	12	7	19.02	19.01	19.00	
5	64QAM	12	13	19.08	19.17	19.02	
5	64QAM	25	0	19.06	19.19	19.00	
5	256QAM	1	0	17.29	17.07	17.02	19.0
5	256QAM	1	12	17.22	17.11	17.17	
5	256QAM	1	24	17.17	17.10	17.02	
5	256QAM	12	0	17.14	17.22	17.10	19.0
5	256QAM	12	7	17.01	17.22	17.09	
5	256QAM	12	13	17.29	17.01	17.01	
5	256QAM	25	0	17.10	17.13	17.00	

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BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power Mid CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.21	23.06	23.19	23.15	23.08	24.0
20	QPSK	1	49	22.16	23.04	23.07	23.08	23.02	
20	QPSK	1	99	22.19	23.12	23.07	23.06	22.96	
20	QPSK	50	0	20.78	21.03	21.15	21.05	21.15	22.0
20	QPSK	50	24	20.31	21.01	21.31	21.12	21.11	
20	QPSK	50	50	20.30	21.10	21.23	21.10	21.17	
20	QPSK	100	0	20.34	21.12	21.25	21.08	21.18	
20	16QAM	1	0	20.49	21.07	21.35	21.10	21.45	22.0
20	16QAM	1	49	20.52	21.11	21.41	21.05	21.34	
20	16QAM	1	99	20.51	21.01	21.39	21.01	21.33	
20	16QAM	50	0	19.27	20.09	20.30	20.21	20.21	21.0
20	16QAM	50	24	19.38	20.05	20.36	20.21	20.13	
20	16QAM	50	50	19.34	20.16	20.27	20.02	20.16	
20	16QAM	100	0	19.37	20.26	20.28	20.20	20.20	
20	64QAM	1	0	19.39	20.16	20.32	20.02	20.33	21.0
20	64QAM	1	49	19.40	20.16	20.36	20.21	20.30	
20	64QAM	1	99	19.36	20.04	20.40	20.21	20.22	
20	64QAM	50	0	18.25	19.32	19.27	19.21	19.15	20.0
20	64QAM	50	24	18.28	19.35	19.35	19.37	19.12	
20	64QAM	50	50	18.29	19.32	19.24	19.32	19.23	
20	64QAM	100	0	18.38	19.15	19.27	19.21	19.23	
20	256QAM	1	0	16.46	17.08	17.30	17.26	17.42	19.0
20	256QAM	1	49	16.44	17.06	17.49	17.17	17.21	
20	256QAM	1	99	16.48	17.14	17.24	17.15	17.23	
20	256QAM	50	0	16.30	17.13	17.18	17.15	17.20	19.0
20	256QAM	50	24	16.35	17.00	17.29	17.23	17.14	
20	256QAM	50	50	16.33	17.09	17.23	17.14	17.18	
20	256QAM	100	0	16.39	17.19	17.20	17.04	17.19	
Channel				39725	40173	40620	41068	41515	Tune-up limit
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.14	23.03	22.51	23.08	23.06	24.0
15	QPSK	1	37	22.11	23.12	22.48	23.04	23.03	
15	QPSK	1	74	22.05	23.08	22.52	23.11	23.04	
15	QPSK	36	0	20.15	21.12	20.54	21.05	21.08	22.0
15	QPSK	36	20	20.19	21.12	20.62	21.06	21.03	
15	QPSK	39	39	20.18	21.03	20.61	21.11	21.12	
15	QPSK	75	0	20.22	21.00	20.63	21.03	21.08	
15	16QAM	1	0	20.25	21.01	20.72	21.14	21.20	22.0
15	16QAM	1	37	20.34	21.15	20.66	21.09	21.33	
15	16QAM	1	74	20.23	21.11	20.68	21.03	21.32	
15	16QAM	36	0	19.14	20.20	19.61	20.01	20.17	21.0
15	16QAM	36	20	19.28	20.21	19.65	20.00	20.10	
15	16QAM	39	39	19.22	20.12	19.66	20.01	20.14	
15	16QAM	75	0	19.24	20.05	19.67	20.27	20.14	
15	64QAM	1	0	19.25	20.25	19.75	20.17	20.15	21.0
15	64QAM	1	37	19.20	20.02	19.65	20.15	20.18	
15	64QAM	1	74	19.25	20.25	19.67	20.10	20.12	
15	64QAM	36	0	18.12	19.34	18.62	19.16	19.15	20.0
15	64QAM	36	20	18.20	19.15	18.69	19.16	19.05	
15	64QAM	39	39	18.24	19.21	18.70	19.22	19.14	
15	64QAM	75	0	18.31	19.24	18.64	19.21	19.09	
15	256QAM	1	0	16.31	17.04	16.80	17.06	17.26	19.0
15	256QAM	1	37	16.30	17.06	16.82	17.13	17.19	
15	256QAM	1	74	16.33	17.21	16.79	17.25	17.12	
15	256QAM	36	0	16.24	17.10	16.58	17.07	17.13	19.0
15	256QAM	36	20	16.31	17.01	16.63	17.05	17.05	
15	256QAM	39	39	16.28	17.03	16.60	17.08	17.17	
15	256QAM	75	0	16.28	17.26	16.62	17.24	17.03	
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2510	2547	2593	2639	2685	
10	QPSK	1	0	22.26	23.04	22.63	23.06	23.10	24.0
10	QPSK	1	25	22.23	23.05	22.68	23.11	23.11	
10	QPSK	1	49	22.13	23.07	22.57	23.10	23.09	

10	QPSK	25	0	20.40	21.10	20.72	21.08	21.21	22.0
10	QPSK	25	12	20.32	21.10	20.74	21.08	21.29	
10	QPSK	25	25	20.31	21.14	20.76	21.11	21.24	
10	QPSK	50	0	20.36	21.10	20.75	21.09	21.28	
10	16QAM	1	0	20.44	21.15	20.83	21.01	21.43	22.0
10	16QAM	1	25	20.44	21.01	20.87	21.02	21.49	
10	16QAM	1	49	20.45	21.14	20.90	21.11	21.35	
10	16QAM	25	0	19.35	20.05	19.69	20.15	20.26	21.0
10	16QAM	25	12	19.38	20.11	19.79	20.02	20.29	
10	16QAM	25	25	19.32	20.26	19.81	20.28	20.27	
10	16QAM	50	0	19.38	20.18	19.76	20.07	20.28	
10	64QAM	1	0	19.61	20.02	19.76	20.11	20.53	21.0
10	64QAM	1	25	19.49	20.10	19.87	20.18	20.62	
10	64QAM	1	49	19.52	20.01	19.75	20.13	20.28	
10	64QAM	25	0	18.34	19.26	18.71	19.16	19.24	20.0
10	64QAM	25	12	18.31	19.35	18.83	19.22	19.34	
10	64QAM	25	25	18.32	19.16	18.76	19.31	19.31	
10	64QAM	50	0	18.37	19.20	18.74	19.36	19.30	
10	256QAM	1	0	16.53	17.18	16.70	17.26	17.16	19.0
10	256QAM	1	25	16.49	17.23	16.85	17.14	17.27	
10	256QAM	1	49	16.37	17.13	16.81	17.13	17.22	
10	256QAM	25	0	16.37	17.20	16.69	17.24	17.20	19.0
10	256QAM	25	12	16.38	17.22	16.79	17.25	17.31	
10	256QAM	25	25	16.32	17.00	16.77	17.17	17.26	
10	256QAM	50	0	16.36	17.15	16.76	17.18	17.27	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	22.26	23.04	22.55	23.01	22.59	24.0
5	QPSK	1	12	22.22	23.13	22.65	23.08	22.50	
5	QPSK	1	24	22.16	23.07	22.53	23.12	22.49	
5	QPSK	12	0	20.34	21.00	20.73	21.12	20.60	22.0
5	QPSK	12	7	20.36	21.09	20.73	21.02	20.72	
5	QPSK	12	13	20.31	21.03	20.70	21.08	20.64	
5	QPSK	25	0	20.37	21.09	20.74	21.10	20.67	
5	16QAM	1	0	20.57	21.00	20.81	21.14	20.91	22.0
5	16QAM	1	12	20.62	21.11	20.91	21.12	20.92	
5	16QAM	1	24	20.45	21.03	20.84	21.11	20.80	
5	16QAM	12	0	19.44	20.25	19.75	20.28	19.67	21.0
5	16QAM	12	7	19.44	20.10	19.80	20.04	19.71	
5	16QAM	12	13	19.33	20.02	19.71	20.12	19.70	
5	16QAM	25	0	19.42	20.12	19.74	20.22	19.69	
5	64QAM	1	0	19.42	20.27	19.71	20.02	19.84	21.0
5	64QAM	1	12	19.46	20.02	19.76	20.25	19.73	
5	64QAM	1	24	19.42	20.16	19.75	20.20	19.72	
5	64QAM	12	0	18.37	19.15	18.78	19.22	18.68	20.0
5	64QAM	12	7	18.39	19.17	18.76	19.29	18.74	
5	64QAM	12	13	18.30	19.16	18.73	19.15	18.73	
5	64QAM	25	0	18.43	19.31	18.69	19.20	18.72	
5	256QAM	1	0	16.49	17.11	16.68	17.17	16.69	19.0
5	256QAM	1	12	16.54	17.04	16.88	17.02	16.73	
5	256QAM	1	24	16.36	17.22	16.81	17.17	16.78	
5	256QAM	12	0	16.36	17.26	16.69	17.25	16.62	19.0
5	256QAM	12	7	16.43	17.22	16.70	17.21	16.68	
5	256QAM	12	13	16.33	17.01	16.69	17.22	16.67	
5	256QAM	25	0	16.36	17.07	16.75	17.23	16.68	

Band2 Ant4 DSI7

BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	13.17	13.35	13.32	14.0
20	QPSK	1	49	13.27	12.99	13.14	
20	QPSK	1	99	13.11	13.25	13.13	
20	QPSK	50	0	13.25	13.12	13.33	14.0
20	QPSK	50	24	13.00	13.09	12.96	
20	QPSK	50	50	13.01	13.32	12.96	
20	QPSK	100	0	13.00	13.27	13.26	
20	16QAM	1	0	13.05	13.05	13.17	14.0
20	16QAM	1	49	13.20	13.31	12.98	
20	16QAM	1	99	13.17	13.25	13.14	
20	16QAM	50	0	13.16	13.19	13.12	14.0
20	16QAM	50	24	13.12	13.19	13.13	
20	16QAM	50	50	13.06	13.27	13.23	
20	16QAM	100	0	13.21	13.04	13.21	
20	64QAM	1	0	13.03	13.01	13.20	14.0
20	64QAM	1	49	13.02	13.06	13.25	
20	64QAM	1	99	13.03	13.16	13.13	
20	64QAM	50	0	13.29	12.86	13.21	14.0
20	64QAM	50	24	13.31	13.32	13.21	
20	64QAM	50	50	13.12	13.15	13.31	
20	64QAM	100	0	13.16	13.08	13.16	
20	256QAM	1	0	13.12	13.20	13.14	14.0
20	256QAM	1	49	12.95	13.22	13.02	
20	256QAM	1	99	13.21	13.14	13.15	
20	256QAM	50	0	12.96	13.07	13.08	14.0
20	256QAM	50	24	13.32	12.79	13.26	
20	256QAM	50	50	12.96	12.97	13.02	
20	256QAM	100	0	13.22	12.91	13.30	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	13.24	12.90	12.80	14.0
15	QPSK	1	37	13.00	12.93	12.30	
15	QPSK	1	74	13.10	13.20	12.18	
15	QPSK	36	0	13.25	13.03	12.68	14.0
15	QPSK	36	20	13.11	13.03	12.46	
15	QPSK	39	39	12.96	12.97	12.46	
15	QPSK	75	0	13.02	13.15	12.56	
15	16QAM	1	0	13.26	13.28	13.10	14.0
15	16QAM	1	37	12.99	12.96	12.50	
15	16QAM	1	74	13.00	13.17	12.58	
15	16QAM	36	0	13.23	13.18	12.57	14.0
15	16QAM	36	20	13.07	13.22	12.33	
15	16QAM	39	39	13.14	13.08	12.31	
15	16QAM	75	0	13.01	13.00	12.46	
15	64QAM	1	0	13.19	13.15	13.03	14.0
15	64QAM	1	37	13.28	13.26	12.55	
15	64QAM	1	74	12.97	13.18	12.40	
15	64QAM	36	0	13.02	13.30	12.47	14.0
15	64QAM	36	20	13.27	13.31	12.18	
15	64QAM	39	39	13.18	13.00	12.10	
15	64QAM	75	0	13.29	13.32	12.27	
15	256QAM	1	0	13.18	12.91	13.02	14.0
15	256QAM	1	37	13.29	12.94	12.28	
15	256QAM	1	74	13.30	13.20	12.26	
15	256QAM	36	0	13.20	12.77	12.41	14.0
15	256QAM	36	20	13.19	12.74	12.17	
15	256QAM	39	39	13.15	12.84	12.08	

15	256QAM	75	0	13.08	12.81	12.27	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	13.33	13.18	12.41	14.0
10	QPSK	1	25	13.22	13.33	12.27	
10	QPSK	1	49	13.30	13.32	12.23	
10	QPSK	25	0	13.27	12.96	12.55	14.0
10	QPSK	25	12	13.21	13.32	12.51	
10	QPSK	25	25	13.15	13.22	12.56	
10	QPSK	50	0	13.16	12.96	12.55	14.0
10	16QAM	1	0	12.99	13.23	12.80	
10	16QAM	1	25	13.16	13.04	12.64	
10	16QAM	1	49	13.28	13.30	12.65	14.0
10	16QAM	25	0	13.15	13.28	12.43	
10	16QAM	25	12	13.18	13.06	12.37	
10	16QAM	25	25	13.16	13.08	12.41	14.0
10	16QAM	50	0	13.10	12.99	12.40	
10	64QAM	1	0	13.15	13.30	12.54	
10	64QAM	1	25	13.16	12.95	12.52	14.0
10	64QAM	1	49	12.95	13.33	12.36	
10	64QAM	25	0	13.17	12.97	12.27	
10	64QAM	25	12	13.28	12.96	12.19	14.0
10	64QAM	25	25	13.20	13.26	12.20	
10	64QAM	50	0	12.98	13.11	12.20	
10	256QAM	1	0	12.95	13.14	12.68	14.0
10	256QAM	1	25	13.30	13.07	12.29	
10	256QAM	1	49	13.24	12.98	12.40	
10	256QAM	25	0	12.99	13.21	12.26	14.0
10	256QAM	25	12	13.17	13.15	12.16	
10	256QAM	25	25	13.32	13.17	12.14	
10	256QAM	50	0	13.14	13.07	12.19	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	13.10	13.00	12.29	14.0
5	QPSK	1	12	12.95	13.02	12.34	
5	QPSK	1	24	13.05	12.79	12.24	
5	QPSK	12	0	13.12	13.12	12.48	14.0
5	QPSK	12	7	13.01	13.13	12.48	
5	QPSK	12	13	13.24	13.04	12.44	
5	QPSK	25	0	13.29	13.10	12.46	14.0
5	16QAM	1	0	13.22	13.23	12.69	
5	16QAM	1	12	13.13	13.33	12.84	
5	16QAM	1	24	12.98	13.17	12.64	14.0
5	16QAM	12	0	13.19	13.08	12.41	
5	16QAM	12	7	12.95	13.11	12.37	
5	16QAM	12	13	13.08	12.99	12.34	14.0
5	16QAM	25	0	13.16	12.98	12.33	
5	64QAM	1	0	13.05	13.10	12.51	
5	64QAM	1	12	13.15	13.08	12.57	14.0
5	64QAM	1	24	12.96	12.99	12.36	
5	64QAM	12	0	13.13	12.88	12.18	
5	64QAM	12	7	13.32	12.90	12.19	14.0
5	64QAM	12	13	13.02	12.79	12.12	
5	64QAM	25	0	13.07	12.82	12.19	
5	256QAM	1	0	13.08	12.96	12.26	14.0
5	256QAM	1	12	13.29	12.99	12.34	
5	256QAM	1	24	13.12	12.80	12.18	
5	256QAM	12	0	13.07	12.87	12.16	14.0
5	256QAM	12	7	13.23	12.87	12.18	
5	256QAM	12	13	12.97	12.74	12.15	
5	256QAM	25	0	13.00	12.79	12.10	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	

3	QPSK	1	0	13.07	13.02	12.28	14.0
3	QPSK	1	8	13.25	13.04	12.30	
3	QPSK	1	14	13.01	12.92	12.18	
3	QPSK	8	0	13.02	13.14	12.45	14.0
3	QPSK	8	4	13.10	13.12	12.47	
3	QPSK	8	7	13.31	13.08	12.45	
3	QPSK	15	0	13.23	13.10	12.46	14.0
3	16QAM	1	0	12.96	13.30	12.62	
3	16QAM	1	8	13.24	13.27	12.60	
3	16QAM	1	14	13.03	13.22	12.65	14.0
3	16QAM	8	0	13.06	13.30	12.34	
3	16QAM	8	4	13.14	13.20	12.36	
3	16QAM	8	7	13.33	13.13	12.32	14.0
3	16QAM	15	0	13.00	13.15	12.29	
3	64QAM	1	0	13.16	13.08	12.36	
3	64QAM	1	8	13.10	13.10	12.50	14.0
3	64QAM	1	14	13.23	12.95	12.38	
3	64QAM	8	0	13.28	12.92	12.14	
3	64QAM	8	4	13.16	12.88	12.18	14.0
3	64QAM	8	7	13.18	12.87	12.11	
3	64QAM	15	0	13.24	12.90	12.16	
3	256QAM	1	0	13.17	13.06	12.04	14.0
3	256QAM	1	8	13.04	13.09	12.38	
3	256QAM	1	14	13.10	12.86	12.20	
3	256QAM	8	0	12.95	12.88	12.16	14.0
3	256QAM	8	4	12.96	12.85	12.17	
3	256QAM	8	7	13.12	12.81	12.09	
3	256QAM	15	0	13.08	12.83	12.11	Tune-up limit (dBm)
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	13.06	13.00	12.24	14.0
1.4	QPSK	1	3	13.22	12.96	12.29	
1.4	QPSK	1	5	13.18	12.96	12.19	
1.4	QPSK	3	0	13.12	13.00	12.26	14.0
1.4	QPSK	3	1	13.16	13.00	12.27	
1.4	QPSK	3	3	13.21	12.97	12.25	
1.4	QPSK	6	0	13.06	13.06	12.43	14.0
1.4	16QAM	1	0	13.22	13.29	12.54	
1.4	16QAM	1	3	12.97	13.15	12.51	
1.4	16QAM	1	5	13.19	13.16	12.53	14.0
1.4	16QAM	3	0	13.05	13.15	12.50	
1.4	16QAM	3	1	13.09	13.18	12.51	
1.4	16QAM	3	3	13.03	13.17	12.53	14.0
1.4	16QAM	6	0	13.11	12.97	12.30	
1.4	64QAM	1	0	13.05	13.08	12.39	
1.4	64QAM	1	3	13.12	13.02	12.31	14.0
1.4	64QAM	1	5	13.17	13.07	12.34	
1.4	64QAM	3	0	13.06	13.02	12.36	
1.4	64QAM	3	1	13.10	12.95	12.48	14.0
1.4	64QAM	3	3	13.16	12.99	12.34	
1.4	64QAM	6	0	13.02	12.79	12.17	
1.4	256QAM	1	0	13.01	13.00	12.04	14.0
1.4	256QAM	1	3	13.09	12.70	12.18	
1.4	256QAM	1	5	13.10	12.82	12.15	
1.4	256QAM	3	0	13.01	12.85	12.12	14.0
1.4	256QAM	3	1	13.00	12.80	12.05	
1.4	256QAM	3	3	13.10	12.77	12.11	
1.4	256QAM	6	0	12.96	12.79	12.07	

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BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	15.45	15.89	15.84	17.0
20	QPSK	1	49	15.77	15.71	15.61	
20	QPSK	1	99	15.84	15.66	15.75	
20	QPSK	50	0	15.81	15.45	15.54	17.0
20	QPSK	50	24	15.67	15.49	15.81	
20	QPSK	50	50	15.83	15.45	15.45	
20	QPSK	100	0	15.60	15.75	15.70	
20	16QAM	1	0	15.84	15.73	15.79	17.0
20	16QAM	1	49	15.72	15.51	15.53	
20	16QAM	1	99	15.47	15.72	15.78	
20	16QAM	50	0	15.76	15.81	15.88	17.0
20	16QAM	50	24	15.48	15.68	15.68	
20	16QAM	50	50	15.41	15.46	15.76	
20	16QAM	100	0	15.46	15.47	15.78	
20	64QAM	1	0	15.76	15.88	15.58	17.0
20	64QAM	1	49	15.62	15.76	15.81	
20	64QAM	1	99	15.69	15.78	15.66	
20	64QAM	50	0	15.46	15.47	15.67	17.0
20	64QAM	50	24	15.87	15.43	15.71	
20	64QAM	50	50	15.42	15.62	15.84	
20	64QAM	100	0	15.85	15.59	15.74	
20	256QAM	1	0	15.45	15.50	15.45	17.0
20	256QAM	1	49	15.41	15.79	15.88	
20	256QAM	1	99	15.63	15.49	15.70	
20	256QAM	50	0	15.76	15.87	15.75	17.0
20	256QAM	50	24	15.42	15.52	15.70	
20	256QAM	50	50	15.52	15.73	15.57	
20	256QAM	100	0	15.42	15.74	15.76	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	15.69	15.69	15.63	17.0
15	QPSK	1	37	15.68	15.71	15.55	
15	QPSK	1	74	15.58	15.55	15.65	
15	QPSK	36	0	15.66	15.82	15.81	17.0
15	QPSK	36	20	15.65	15.42	15.49	
15	QPSK	39	39	15.88	15.47	15.48	
15	QPSK	75	0	15.51	15.62	15.64	
15	16QAM	1	0	15.73	15.42	15.56	17.0
15	16QAM	1	37	15.40	15.48	15.50	
15	16QAM	1	74	15.69	15.59	15.62	
15	16QAM	36	0	15.45	15.46	15.49	17.0
15	16QAM	36	20	15.78	15.50	15.47	
15	16QAM	39	39	15.71	15.61	15.74	
15	16QAM	75	0	15.42	15.77	15.77	
15	64QAM	1	0	15.57	15.76	15.88	17.0
15	64QAM	1	37	15.45	15.43	15.84	
15	64QAM	1	74	15.46	15.52	15.74	
15	64QAM	36	0	15.77	15.64	15.51	17.0
15	64QAM	36	20	15.81	15.62	15.43	
15	64QAM	39	39	15.84	15.67	15.66	
15	64QAM	75	0	15.67	15.61	15.79	
15	256QAM	1	0	15.67	15.64	15.43	17.0
15	256QAM	1	37	15.78	15.48	15.77	
15	256QAM	1	74	15.45	15.61	15.73	
15	256QAM	36	0	15.54	15.60	15.74	17.0
15	256QAM	36	20	15.42	15.87	15.41	
15	256QAM	39	39	15.81	15.46	15.64	

15	256QAM	75	0	15.83	15.46	15.86	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	15.62	15.62	15.85	17.0
10	QPSK	1	25	15.73	15.76	15.60	
10	QPSK	1	49	15.69	15.41	15.50	
10	QPSK	25	0	15.69	15.43	15.58	17.0
10	QPSK	25	12	15.56	15.65	15.43	
10	QPSK	25	25	15.75	15.71	15.43	
10	QPSK	50	0	15.71	15.67	15.72	17.0
10	16QAM	1	0	15.43	15.46	15.49	
10	16QAM	1	25	15.65	15.48	15.52	
10	16QAM	1	49	15.43	15.42	15.51	17.0
10	16QAM	25	0	15.66	15.81	15.44	
10	16QAM	25	12	15.50	15.41	15.58	
10	16QAM	25	25	15.86	15.45	15.68	17.0
10	16QAM	50	0	15.77	15.85	15.71	
10	64QAM	1	0	15.65	15.52	15.42	
10	64QAM	1	25	15.61	15.85	15.48	17.0
10	64QAM	1	49	15.48	15.61	15.85	
10	64QAM	25	0	15.49	15.66	15.86	
10	64QAM	25	12	15.65	15.76	15.63	17.0
10	64QAM	25	25	15.53	15.42	15.50	
10	64QAM	50	0	15.88	15.44	15.81	
10	256QAM	1	0	15.86	15.84	15.72	17.0
10	256QAM	1	25	15.75	15.47	15.80	
10	256QAM	1	49	15.62	15.68	15.49	
10	256QAM	25	0	15.51	15.51	15.52	17.0
10	256QAM	25	12	15.48	15.51	15.52	
10	256QAM	25	25	15.71	15.43	15.82	
10	256QAM	50	0	15.72	15.81	15.54	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	15.57	15.42	15.49	17.0
5	QPSK	1	12	15.52	15.84	15.43	
5	QPSK	1	24	15.88	15.63	15.61	
5	QPSK	12	0	15.55	15.66	15.72	17.0
5	QPSK	12	7	15.42	15.72	15.48	
5	QPSK	12	13	15.63	15.70	15.41	
5	QPSK	25	0	15.73	15.75	15.41	17.0
5	16QAM	1	0	15.45	15.75	15.83	
5	16QAM	1	12	15.46	15.60	15.47	
5	16QAM	1	24	15.67	15.64	15.42	17.0
5	16QAM	12	0	15.48	15.64	15.83	
5	16QAM	12	7	15.41	15.40	15.52	
5	16QAM	12	13	15.75	15.56	15.65	17.0
5	16QAM	25	0	15.87	15.60	15.73	
5	64QAM	1	0	15.72	15.75	15.61	
5	64QAM	1	12	15.64	15.62	15.72	17.0
5	64QAM	1	24	15.83	15.69	15.53	
5	64QAM	12	0	15.61	15.48	15.60	
5	64QAM	12	7	15.83	15.69	15.56	17.0
5	64QAM	12	13	15.53	15.56	15.70	
5	64QAM	25	0	15.43	15.84	15.57	
5	256QAM	1	0	15.66	15.79	15.78	17.0
5	256QAM	1	12	15.49	15.75	15.57	
5	256QAM	1	24	15.45	15.69	15.54	
5	256QAM	12	0	15.85	15.76	15.44	17.0
5	256QAM	12	7	15.40	15.79	15.48	
5	256QAM	12	13	15.46	15.80	15.64	
5	256QAM	25	0	15.76	15.58	15.45	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	

3	QPSK	1	0	15.82	15.60	15.76	17.0
3	QPSK	1	8	15.67	15.51	15.43	
3	QPSK	1	14	15.85	15.62	15.60	
3	QPSK	8	0	15.63	15.62	15.67	17.0
3	QPSK	8	4	15.72	15.77	15.85	
3	QPSK	8	7	15.82	15.63	15.69	
3	QPSK	15	0	15.50	15.72	15.56	17.0
3	16QAM	1	0	15.47	15.69	15.44	
3	16QAM	1	8	15.71	15.48	15.48	
3	16QAM	1	14	15.84	15.75	15.55	17.0
3	16QAM	8	0	15.86	15.78	15.82	
3	16QAM	8	4	15.63	15.66	15.52	
3	16QAM	8	7	15.71	15.77	15.52	17.0
3	16QAM	15	0	15.59	15.58	15.46	
3	64QAM	1	0	15.64	15.71	15.61	
3	64QAM	1	8	15.88	15.45	15.73	17.0
3	64QAM	1	14	15.51	15.42	15.87	
3	64QAM	8	0	15.63	15.64	15.67	
3	64QAM	8	4	15.42	15.88	15.49	17.0
3	64QAM	8	7	15.75	15.58	15.57	
3	64QAM	15	0	15.76	15.40	15.59	
3	256QAM	1	0	15.51	15.87	15.60	17.0
3	256QAM	1	8	15.73	15.45	15.50	
3	256QAM	1	14	15.66	15.54	15.71	
3	256QAM	8	0	15.43	15.68	15.70	17.0
3	256QAM	8	4	15.46	15.64	15.43	
3	256QAM	8	7	15.45	15.60	15.64	
3	256QAM	15	0	15.52	15.59	15.75	Tune-up limit (dBm)
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	15.43	15.54	15.60	17.0
1.4	QPSK	1	3	15.48	15.65	15.61	
1.4	QPSK	1	5	15.58	15.57	15.83	
1.4	QPSK	3	0	15.41	15.57	15.76	17.0
1.4	QPSK	3	1	15.81	15.42	15.73	
1.4	QPSK	3	3	15.44	15.75	15.83	
1.4	QPSK	6	0	15.47	15.47	15.65	17.0
1.4	16QAM	1	0	15.58	15.59	15.49	
1.4	16QAM	1	3	15.82	15.42	15.43	
1.4	16QAM	1	5	15.79	15.56	15.54	17.0
1.4	16QAM	3	0	15.64	15.67	15.55	
1.4	16QAM	3	1	15.48	15.87	15.80	
1.4	16QAM	3	3	15.78	15.88	15.65	17.0
1.4	16QAM	6	0	15.50	15.51	15.83	
1.4	64QAM	1	0	15.86	15.70	15.51	
1.4	64QAM	1	3	15.77	15.84	15.67	17.0
1.4	64QAM	1	5	15.49	15.85	15.84	
1.4	64QAM	3	0	15.69	15.47	15.51	
1.4	64QAM	3	1	15.49	15.58	15.79	17.0
1.4	64QAM	3	3	15.76	15.50	15.63	
1.4	64QAM	6	0	15.51	15.84	15.50	
1.4	256QAM	1	0	15.46	15.49	15.72	17.0
1.4	256QAM	1	3	15.72	15.50	15.65	
1.4	256QAM	1	5	15.43	15.46	15.88	
1.4	256QAM	3	0	15.88	15.85	15.73	17.0
1.4	256QAM	3	1	15.67	15.46	15.67	
1.4	256QAM	3	3	15.69	15.66	15.65	
1.4	256QAM	6	0	15.85	15.46	15.56	

Band5 Ant4 DSI7

BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	20.70	20.83	20.74	21.5
10	QPSK	1	25	20.61	20.75	20.73	
10	QPSK	1	49	20.66	20.67	20.59	
10	QPSK	25	0	19.73	19.79	19.75	20.5
10	QPSK	25	12	19.88	19.78	19.85	
10	QPSK	25	25	19.83	19.80	19.82	
10	QPSK	50	0	19.91	19.82	19.72	
10	16QAM	1	0	19.97	20.00	19.88	20.5
10	16QAM	1	25	19.93	20.04	19.85	
10	16QAM	1	49	19.81	20.12	19.96	
10	16QAM	25	0	18.88	18.87	18.79	19.5
10	16QAM	25	12	18.92	18.89	18.82	
10	16QAM	25	25	18.80	18.87	18.91	
10	16QAM	50	0	18.87	18.79	18.72	
10	64QAM	1	0	19.09	18.93	19.11	19.5
10	64QAM	1	25	19.05	18.96	19.02	
10	64QAM	1	49	18.93	18.90	18.93	
10	64QAM	25	0	17.83	17.83	17.79	18.5
10	64QAM	25	12	17.97	17.82	17.83	
10	64QAM	25	25	17.84	17.91	17.81	
10	64QAM	50	0	17.88	17.81	17.79	
10	256QAM	1	0	15.86	15.84	15.91	16.5
10	256QAM	1	25	15.97	15.96	15.91	
10	256QAM	1	49	16.05	16.00	15.89	
10	256QAM	25	0	15.84	15.86	15.85	16.5
10	256QAM	25	12	15.92	15.93	15.86	
10	256QAM	25	25	15.89	15.87	15.88	
10	256QAM	50	0	15.86	15.83	15.84	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	20.69	20.67	20.67	21.5
5	QPSK	1	12	20.77	20.79	20.75	
5	QPSK	1	24	20.71	20.61	20.64	
5	QPSK	12	0	19.86	19.78	19.75	20.5
5	QPSK	12	7	19.86	19.83	19.80	
5	QPSK	12	13	19.89	19.87	19.85	
5	QPSK	25	0	19.85	19.80	19.75	
5	16QAM	1	0	20.02	19.78	20.00	20.5
5	16QAM	1	12	20.15	20.11	20.09	
5	16QAM	1	24	20.04	20.06	20.10	
5	16QAM	12	0	18.95	18.77	18.71	19.5
5	16QAM	12	7	18.91	18.93	18.73	
5	16QAM	12	13	18.92	18.85	18.84	
5	16QAM	25	0	18.86	18.81	18.76	
5	64QAM	1	0	18.87	19.03	18.95	19.5
5	64QAM	1	12	19.09	18.92	19.01	
5	64QAM	1	24	18.82	18.92	18.98	
5	64QAM	12	0	17.92	17.83	17.77	18.5
5	64QAM	12	7	17.92	17.94	17.83	
5	64QAM	12	13	17.84	17.82	17.85	
5	64QAM	25	0	17.86	17.79	17.72	
5	256QAM	1	0	16.09	15.99	15.70	16.5
5	256QAM	1	12	16.06	16.15	16.15	
5	256QAM	1	24	16.12	16.03	15.98	
5	256QAM	12	0	15.92	15.84	15.75	16.5
5	256QAM	12	7	15.95	15.88	15.88	
5	256QAM	12	13	15.86	15.87	15.81	

5	256QAM	25	0	15.85	15.82	15.79	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	20.78	20.63	20.63	21.5
3	QPSK	1	8	20.81	20.71	20.68	
3	QPSK	1	14	20.67	20.69	20.58	
3	QPSK	8	0	19.92	19.77	19.78	20.5
3	QPSK	8	4	19.96	19.81	19.86	
3	QPSK	8	7	19.84	19.82	19.83	
3	QPSK	15	0	19.86	19.78	19.87	20.5
3	16QAM	1	0	19.95	20.02	19.97	
3	16QAM	1	8	20.07	20.00	19.97	
3	16QAM	1	14	20.13	19.90	19.93	19.5
3	16QAM	8	0	18.90	18.81	18.89	
3	16QAM	8	4	18.86	18.90	18.87	
3	16QAM	8	7	18.90	18.84	18.81	19.5
3	16QAM	15	0	18.84	18.80	18.76	
3	64QAM	1	0	19.14	18.77	18.84	
3	64QAM	1	8	19.03	19.06	18.97	18.5
3	64QAM	1	14	18.92	18.94	18.79	
3	64QAM	8	0	17.91	17.75	17.84	
3	64QAM	8	4	17.99	17.91	17.82	16.5
3	64QAM	8	7	17.91	17.86	17.89	
3	64QAM	15	0	17.92	17.77	17.86	
3	256QAM	1	0	16.02	15.97	15.86	16.5
3	256QAM	1	8	16.04	15.86	15.82	
3	256QAM	1	14	15.95	15.87	15.85	
3	256QAM	8	0	15.92	15.90	15.90	16.5
3	256QAM	8	4	16.02	15.86	15.85	
3	256QAM	8	7	15.98	15.89	15.87	
3	256QAM	15	0	15.95	15.84	15.83	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	20.73	20.58	20.66	21.5
1.4	QPSK	1	3	20.72	20.73	20.63	
1.4	QPSK	1	5	20.74	20.63	20.61	
1.4	QPSK	3	0	20.78	20.61	20.66	21.5
1.4	QPSK	3	1	20.77	20.72	20.60	
1.4	QPSK	3	3	20.75	20.63	20.71	
1.4	QPSK	6	0	19.84	19.82	19.77	20.5
1.4	16QAM	1	0	19.93	19.99	19.89	20.5
1.4	16QAM	1	3	19.98	19.90	19.78	
1.4	16QAM	1	5	19.90	19.68	19.95	
1.4	16QAM	3	0	19.89	19.85	19.91	20.5
1.4	16QAM	3	1	19.93	19.93	19.88	
1.4	16QAM	3	3	19.90	19.95	19.87	
1.4	16QAM	6	0	18.82	18.79	18.84	19.5
1.4	64QAM	1	0	19.01	18.94	18.80	19.5
1.4	64QAM	1	3	19.00	19.01	18.95	
1.4	64QAM	1	5	18.91	18.84	18.85	
1.4	64QAM	3	0	18.94	18.83	18.88	19.5
1.4	64QAM	3	1	19.01	18.83	18.86	
1.4	64QAM	3	3	18.96	18.84	18.80	
1.4	64QAM	6	0	17.88	17.79	17.69	18.5
1.4	256QAM	1	0	16.03	15.82	15.81	16.5
1.4	256QAM	1	3	15.97	16.01	15.89	
1.4	256QAM	1	5	15.94	16.03	15.82	
1.4	256QAM	3	0	15.94	15.83	15.85	16.5
1.4	256QAM	3	1	16.01	15.84	15.84	
1.4	256QAM	3	3	15.86	15.90	15.91	
1.4	256QAM	6	0	15.88	15.87	15.79	

Band12 Ant4 DSI7

BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				20360	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	21.87	21.97	21.77	23.0
10	QPSK	1	25	21.88	21.81	21.74	
10	QPSK	1	49	21.72	21.64	21.64	
10	QPSK	25	0	20.97	20.94	20.90	22.0
10	QPSK	25	12	21.00	20.91	20.92	
10	QPSK	25	25	20.96	20.93	20.85	
10	QPSK	50	0	21.04	20.88	20.92	
10	16QAM	1	0	21.20	21.01	21.19	22.0
10	16QAM	1	25	21.12	21.04	21.02	
10	16QAM	1	49	20.92	20.88	20.85	
10	16QAM	25	0	20.00	19.96	19.91	21.0
10	16QAM	25	12	19.99	19.83	19.92	
10	16QAM	25	25	19.97	19.94	19.85	
10	16QAM	50	0	19.93	19.88	19.82	
10	64QAM	1	0	20.09	20.11	20.03	21.0
10	64QAM	1	25	20.07	20.01	19.92	
10	64QAM	1	49	19.95	19.87	19.83	
10	64QAM	25	0	18.98	18.94	18.91	20.0
10	64QAM	25	12	19.00	18.92	18.85	
10	64QAM	25	25	18.98	18.93	18.88	
10	64QAM	50	0	19.03	18.88	18.76	
10	256QAM	1	0	17.27	17.32	17.11	18.0
10	256QAM	1	25	17.20	17.29	17.27	
10	256QAM	1	49	17.09	17.20	16.91	
10	256QAM	25	0	17.10	17.11	17.05	18.0
10	256QAM	25	12	17.22	17.14	17.04	
10	256QAM	25	25	17.19	17.16	17.10	
10	256QAM	50	0	17.12	17.12	17.05	
Channel				23035	23095	23155	Tune-up limit
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	21.86	21.80	21.80	23.0
5	QPSK	1	12	21.80	21.79	21.72	
5	QPSK	1	24	21.67	21.70	21.58	
5	QPSK	12	0	20.97	20.93	20.81	22.0
5	QPSK	12	7	20.99	20.93	20.78	
5	QPSK	12	13	20.87	20.91	20.81	
5	QPSK	25	0	20.96	20.85	20.77	
5	16QAM	1	0	21.27	21.09	21.07	22.0
5	16QAM	1	12	21.16	21.15	21.15	
5	16QAM	1	24	20.98	21.02	20.86	
5	16QAM	12	0	20.03	19.91	19.80	21.0
5	16QAM	12	7	20.00	19.93	19.80	
5	16QAM	12	13	20.02	19.91	19.86	
5	16QAM	25	0	19.96	19.87	19.77	
5	64QAM	1	0	20.07	19.99	19.97	21.0
5	64QAM	1	12	20.23	20.18	19.89	
5	64QAM	1	24	19.93	19.90	19.82	
5	64QAM	12	0	19.03	18.89	18.76	20.0
5	64QAM	12	7	18.98	18.98	18.81	
5	64QAM	12	13	18.95	18.95	18.81	
5	64QAM	25	0	18.95	18.88	18.76	
5	256QAM	1	0	17.27	16.98	16.90	18.0
5	256QAM	1	12	17.47	17.21	17.11	
5	256QAM	1	24	17.04	17.23	17.18	
5	256QAM	12	0	17.17	17.09	17.00	18.0
5	256QAM	12	7	17.19	17.05	17.03	
5	256QAM	12	13	17.18	17.05	16.99	

5	256QAM	25	0	17.16	17.11	16.94	
Channel				23025	23095	23165	Tune-up limit
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	21.86	21.68	21.55	23.0
3	QPSK	1	8	21.87	21.82	21.64	
3	QPSK	1	14	21.83	21.68	21.57	
3	QPSK	8	0	21.02	20.87	20.70	22.0
3	QPSK	8	4	20.94	20.93	20.84	
3	QPSK	8	7	21.00	20.99	20.78	
3	QPSK	15	0	21.00	20.83	20.75	22.0
3	16QAM	1	0	21.13	21.02	20.71	
3	16QAM	1	8	21.05	21.09	21.01	
3	16QAM	1	14	21.02	21.08	20.74	21.0
3	16QAM	8	0	20.09	19.90	19.80	
3	16QAM	8	4	20.08	19.96	19.88	
3	16QAM	8	7	20.01	20.04	19.85	21.0
3	16QAM	15	0	19.99	19.91	19.77	
3	64QAM	1	0	20.10	20.01	19.63	
3	64QAM	1	8	20.10	19.90	20.01	20.0
3	64QAM	1	14	19.74	20.00	19.79	
3	64QAM	8	0	19.06	18.95	18.76	
3	64QAM	8	4	18.96	18.97	18.87	18.0
3	64QAM	8	7	19.03	18.99	18.83	
3	64QAM	15	0	19.04	18.96	18.74	
3	256QAM	1	0	17.26	17.07	17.14	18.0
3	256QAM	1	8	17.36	17.26	17.15	
3	256QAM	1	14	17.18	17.27	17.06	
3	256QAM	8	0	17.16	17.10	17.01	18.0
3	256QAM	8	4	17.22	17.20	17.04	
3	256QAM	8	7	17.20	17.18	16.97	
3	256QAM	15	0	17.19	17.04	16.88	
Channel				23025	23095	23165	Tune-up limit
Frequency (MHz)				700.5	707.5	714.5	
1.4	QPSK	1	0	21.87	21.67	21.58	23.0
1.4	QPSK	1	3	21.96	21.79	21.61	
1.4	QPSK	1	5	21.90	21.74	21.49	
1.4	QPSK	3	0	21.95	21.75	21.61	22.0
1.4	QPSK	3	1	21.94	21.72	21.58	
1.4	QPSK	3	3	21.95	21.70	21.64	
1.4	QPSK	6	0	21.07	20.84	20.77	22.0
1.4	16QAM	1	0	21.05	20.97	20.82	
1.4	16QAM	1	3	21.15	21.00	20.85	
1.4	16QAM	1	5	21.05	20.79	20.69	21.5
1.4	16QAM	3	0	21.09	20.95	20.79	
1.4	16QAM	3	1	21.10	20.93	20.74	
1.4	16QAM	3	3	21.22	20.90	20.82	20.5
1.4	16QAM	6	0	20.11	19.83	19.70	
1.4	64QAM	1	0	20.21	20.06	19.73	
1.4	64QAM	1	3	20.22	20.01	19.94	21.0
1.4	64QAM	1	5	20.05	19.86	19.73	
1.4	64QAM	3	0	20.15	20.02	19.75	
1.4	64QAM	3	1	20.21	19.97	19.75	20.5
1.4	64QAM	3	3	20.14	19.98	19.86	
1.4	64QAM	6	0	19.05	18.79	18.81	
1.4	256QAM	1	0	17.32	17.13	16.98	18.0
1.4	256QAM	1	3	17.41	17.24	17.01	
1.4	256QAM	1	5	17.36	17.27	16.97	
1.4	256QAM	3	0	17.36	17.02	17.11	18.0
1.4	256QAM	3	1	17.36	17.09	16.99	
1.4	256QAM	3	3	17.16	17.19	16.88	
1.4	256QAM	6	0	17.26	17.02	16.91	

Band13 Ant4 DSI7

BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0		21.31		22.0
10	QPSK	1	25		21.22		
10	QPSK	1	49		21.02		
10	QPSK	25	0		20.29		21.0
10	QPSK	25	12		20.35		
10	QPSK	25	25		20.34		
10	QPSK	50	0		20.21		21.0
10	16QAM	1	0		20.61		
10	16QAM	1	25		20.55		
10	16QAM	1	49		20.22		20.0
10	16QAM	25	0		19.34		
10	16QAM	25	12		19.38		
10	16QAM	25	25		19.32		20.0
10	16QAM	50	0		19.30		
10	64QAM	1	0		19.62		
10	64QAM	1	25		19.57		20.0
10	64QAM	1	49		19.35		
10	64QAM	25	0		18.39		
10	64QAM	25	12		18.33		19.0
10	64QAM	25	25		18.33		
10	64QAM	50	0		18.28		
10	256QAM	1	0		16.32		17.0
10	256QAM	1	25		16.66		
10	256QAM	1	49		16.35		
10	256QAM	25	0		16.42		17.0
10	256QAM	25	12		16.36		
10	256QAM	25	25		16.34		
10	256QAM	50	0		16.39		
Channel				23205	23230	23255	Tune-up limit
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	21.27	21.23	21.14	22.0
5	QPSK	1	12	21.29	21.22	21.17	
5	QPSK	1	24	21.18	21.25	21.11	
5	QPSK	12	0	20.28	20.25	20.25	21.0
5	QPSK	12	7	20.42	20.26	20.20	
5	QPSK	12	13	20.35	20.27	20.32	
5	QPSK	25	0	20.35	20.26	20.18	21.0
5	16QAM	1	0	20.75	20.57	20.55	
5	16QAM	1	12	20.63	20.48	20.55	
5	16QAM	1	24	20.38	20.56	20.39	20.0
5	16QAM	12	0	19.38	19.35	19.34	
5	16QAM	12	7	19.42	19.32	19.30	
5	16QAM	12	13	19.34	19.37	19.36	20.0
5	16QAM	25	0	19.37	19.35	19.26	
5	64QAM	1	0	19.45	19.45	19.48	
5	64QAM	1	12	19.49	19.47	19.40	20.0
5	64QAM	1	24	19.39	19.49	19.31	
5	64QAM	12	0	18.39	18.26	18.34	
5	64QAM	12	7	18.41	18.34	18.25	19.0
5	64QAM	12	13	18.37	18.34	18.32	
5	64QAM	25	0	18.45	18.34	18.26	
5	256QAM	1	0	16.28	16.49	16.35	17.0
5	256QAM	1	12	16.49	16.41	16.48	
5	256QAM	1	24	16.43	16.39	16.45	
5	256QAM	12	0	16.38	16.34	16.34	17.0
5	256QAM	12	7	16.44	16.33	16.38	
5	256QAM	12	13	16.35	16.34	16.29	
5	256QAM	25	0	16.41	16.35	16.23	

Band17 Ant4 DSI7

BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	21.83	21.85	21.69	23.0
10	QPSK	1	25	21.70	21.79	21.71	
10	QPSK	1	49	21.65	21.67	21.53	
10	QPSK	25	0	20.86	20.91	20.91	22.0
10	QPSK	25	12	20.97	20.78	20.83	
10	QPSK	25	25	20.86	20.86	20.86	
10	QPSK	50	0	20.76	20.82	20.81	
10	16QAM	1	0	21.12	21.00	21.13	22.0
10	16QAM	1	25	20.95	20.94	21.11	
10	16QAM	1	49	20.87	20.88	20.89	
10	16QAM	25	0	19.83	19.89	19.89	21.0
10	16QAM	25	12	19.97	19.79	19.87	
10	16QAM	25	25	19.83	19.86	19.85	
10	16QAM	50	0	19.86	19.89	19.80	
10	64QAM	1	0	20.01	19.87	20.02	21.0
10	64QAM	1	25	20.02	20.06	20.07	
10	64QAM	1	49	19.95	19.95	19.92	
10	64QAM	25	0	18.85	18.91	18.80	20.0
10	64QAM	25	12	18.96	18.79	18.81	
10	64QAM	25	25	18.85	18.90	18.87	
10	64QAM	50	0	18.73	18.85	18.87	
10	256QAM	1	0	17.04	16.97	17.06	18.0
10	256QAM	1	25	17.15	17.07	17.08	
10	256QAM	1	49	16.95	16.94	17.05	
10	256QAM	25	0	16.85	16.93	16.94	18.0
10	256QAM	25	12	16.99	16.92	16.97	
10	256QAM	25	25	16.97	16.88	16.89	
10	256QAM	50	0	16.95	16.83	16.86	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	21.79	21.67	21.70	23.0
5	QPSK	1	12	21.76	21.82	21.73	
5	QPSK	1	24	21.74	21.66	21.69	
5	QPSK	12	0	20.86	20.90	20.83	22.0
5	QPSK	12	7	20.87	20.84	20.80	
5	QPSK	12	13	20.78	20.88	20.82	
5	QPSK	25	0	20.86	20.82	20.77	
5	16QAM	1	0	21.05	20.92	20.92	22.0
5	16QAM	1	12	21.19	21.15	21.06	
5	16QAM	1	24	20.81	21.16	21.10	
5	16QAM	12	0	19.97	19.92	19.81	21.0
5	16QAM	12	7	19.96	19.86	19.81	
5	16QAM	12	13	19.92	19.91	19.88	
5	16QAM	25	0	19.99	19.83	19.76	
5	64QAM	1	0	20.03	19.98	19.82	21.0
5	64QAM	1	12	20.01	19.93	20.02	
5	64QAM	1	24	19.84	19.91	19.74	
5	64QAM	12	0	18.89	18.91	18.72	20.0
5	64QAM	12	7	18.94	18.85	18.83	
5	64QAM	12	13	18.88	18.94	18.81	
5	64QAM	25	0	18.89	18.84	18.80	
5	256QAM	1	0	16.97	17.00	16.99	18.0
5	256QAM	1	12	16.91	17.08	17.13	
5	256QAM	1	24	16.97	16.84	16.98	
5	256QAM	12	0	16.91	16.86	16.84	18.0
5	256QAM	12	7	16.88	16.90	16.94	
5	256QAM	12	13	16.95	16.90	16.81	
5	256QAM	25	0	16.92	16.86	16.88	

Band25 Ant4 DSI7

BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	13.38	13.47	13.09	14.0
20	QPSK	1	49	13.36	13.26	13.21	
20	QPSK	1	99	13.21	13.24	13.25	
20	QPSK	50	0	13.18	13.23	13.31	14.0
20	QPSK	50	24	13.27	13.07	13.09	
20	QPSK	50	50	13.00	13.13	13.01	
20	QPSK	100	0	13.40	13.12	13.31	
20	16QAM	1	0	13.15	13.31	13.02	14.0
20	16QAM	1	49	13.35	13.26	13.34	
20	16QAM	1	99	13.13	13.06	13.25	
20	16QAM	50	0	13.34	13.19	13.44	14.0
20	16QAM	50	24	13.37	13.10	13.33	
20	16QAM	50	50	13.25	13.06	13.27	
20	16QAM	100	0	13.11	13.43	13.30	
20	64QAM	1	0	13.31	13.02	13.09	14.0
20	64QAM	1	49	13.10	13.09	13.22	
20	64QAM	1	99	13.32	13.00	13.19	
20	64QAM	50	0	13.09	13.04	13.17	14.0
20	64QAM	50	24	13.17	13.19	13.43	
20	64QAM	50	50	13.34	13.20	13.07	
20	64QAM	100	0	13.43	13.08	13.03	
20	256QAM	1	0	13.08	13.39	13.37	14.0
20	256QAM	1	49	13.15	13.44	13.28	
20	256QAM	1	99	13.45	13.08	13.11	
20	256QAM	50	0	13.38	13.05	13.04	14.0
20	256QAM	50	24	13.37	13.35	13.27	
20	256QAM	50	50	13.23	13.22	13.21	
20	256QAM	100	0	13.32	13.06	12.38	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	13.42	13.07	12.43	14.0
15	QPSK	1	37	13.45	13.14	12.48	
15	QPSK	1	74	13.34	13.16	11.18	
15	QPSK	36	0	13.28	13.06	12.60	14.0
15	QPSK	36	20	13.09	13.10	12.60	
15	QPSK	39	39	13.32	13.07	12.36	
15	QPSK	75	0	13.39	13.22	12.48	
15	16QAM	1	0	13.22	13.24	12.73	14.0
15	16QAM	1	37	13.13	13.32	12.88	
15	16QAM	1	74	13.12	13.21	11.47	
15	16QAM	36	0	13.41	13.35	12.61	14.0
15	16QAM	36	20	13.23	13.24	12.55	
15	16QAM	39	39	13.21	13.05	12.29	
15	16QAM	75	0	13.06	13.24	12.45	
15	64QAM	1	0	13.42	13.19	12.54	14.0
15	64QAM	1	37	13.18	13.01	12.73	
15	64QAM	1	74	13.03	13.22	11.51	
15	64QAM	36	0	13.30	13.16	12.30	14.0
15	64QAM	36	20	13.25	13.13	12.28	
15	64QAM	39	39	13.06	13.26	11.96	
15	64QAM	75	0	13.02	13.12	12.12	
15	256QAM	1	0	13.29	13.44	12.60	14.0
15	256QAM	1	37	13.45	13.45	12.43	
15	256QAM	1	74	13.20	13.12	11.19	
15	256QAM	36	0	13.17	13.28	12.27	14.0
15	256QAM	36	20	13.33	13.40	12.23	
15	256QAM	39	39	13.39	13.00	11.91	

15	256QAM	75	0	13.22	13.26	12.11	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	13.43	13.35	12.43	14.0
10	QPSK	1	25	13.04	13.18	12.35	
10	QPSK	1	49	13.43	13.38	11.18	
10	QPSK	25	0	13.10	13.23	12.69	14.0
10	QPSK	25	12	13.34	13.03	12.55	
10	QPSK	25	25	13.22	13.29	12.14	
10	QPSK	50	0	13.28	13.03	12.43	14.0
10	16QAM	1	0	13.31	13.10	12.77	
10	16QAM	1	25	13.12	13.35	12.70	
10	16QAM	1	49	13.15	13.43	11.43	14.0
10	16QAM	25	0	13.02	13.24	12.66	
10	16QAM	25	12	13.25	13.16	12.49	
10	16QAM	25	25	13.36	13.24	12.05	14.0
10	16QAM	50	0	13.40	13.00	12.36	
10	64QAM	1	0	13.01	13.10	12.54	
10	64QAM	1	25	13.25	13.42	12.52	14.0
10	64QAM	1	49	13.44	13.02	11.38	
10	64QAM	25	0	13.16	13.44	12.39	
10	64QAM	25	12	13.14	13.42	12.23	14.0
10	64QAM	25	25	13.08	13.10	11.81	
10	64QAM	50	0	13.37	13.36	12.10	
10	256QAM	1	0	13.33	13.27	12.74	14.0
10	256QAM	1	25	13.08	13.42	12.47	
10	256QAM	1	49	13.37	13.36	11.34	
10	256QAM	25	0	13.27	13.17	12.37	14.0
10	256QAM	25	12	13.40	13.04	12.16	
10	256QAM	25	25	13.12	13.27	11.75	
10	256QAM	50	0	13.37	13.41	12.04	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	13.15	13.10	12.28	14.0
5	QPSK	1	12	13.37	13.06	11.85	
5	QPSK	1	24	13.23	13.00	11.12	
5	QPSK	12	0	13.35	13.35	12.32	14.0
5	QPSK	12	7	13.22	13.39	12.05	
5	QPSK	12	13	13.29	13.19	11.65	
5	QPSK	25	0	13.20	13.32	12.01	14.0
5	16QAM	1	0	13.30	13.30	12.72	
5	16QAM	1	12	13.29	13.40	12.25	
5	16QAM	1	24	13.26	13.23	11.54	14.0
5	16QAM	12	0	13.39	13.40	12.30	
5	16QAM	12	7	13.13	13.37	12.05	
5	16QAM	12	13	13.06	13.24	11.68	14.0
5	16QAM	25	0	13.17	13.08	11.99	
5	64QAM	1	0	13.31	13.40	12.51	
5	64QAM	1	12	13.44	13.44	12.18	14.0
5	64QAM	1	24	13.27	13.13	11.44	
5	64QAM	12	0	13.30	13.38	11.99	
5	64QAM	12	7	13.23	13.02	11.70	14.0
5	64QAM	12	13	13.05	13.40	11.35	
5	64QAM	25	0	13.43	13.17	11.69	
5	256QAM	1	0	13.05	13.41	12.36	14.0
5	256QAM	1	12	13.25	13.14	11.93	
5	256QAM	1	24	13.31	13.39	11.00	
5	256QAM	12	0	13.16	13.19	11.98	14.0
5	256QAM	12	7	13.21	13.40	11.71	
5	256QAM	12	13	13.20	13.21	11.30	
5	256QAM	25	0	13.13	13.22	11.65	
Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	