

3	QPSK	1	0	13.16	13.06	11.85	14.0
3	QPSK	1	8	13.26	13.19	11.44	
3	QPSK	1	14	13.45	13.02	11.03	
3	QPSK	8	0	13.18	13.29	11.91	14.0
3	QPSK	8	4	13.22	13.06	11.70	
3	QPSK	8	7	13.13	13.05	11.47	
3	QPSK	15	0	13.23	13.37	11.70	14.0
3	16QAM	1	0	13.10	13.22	12.32	
3	16QAM	1	8	13.10	13.05	11.97	
3	16QAM	1	14	13.37	13.13	11.43	14.0
3	16QAM	8	0	13.36	13.11	11.98	
3	16QAM	8	4	13.43	13.05	11.73	
3	16QAM	8	7	13.15	13.17	11.46	14.0
3	16QAM	15	0	13.14	13.29	11.71	
3	64QAM	1	0	13.38	13.22	12.17	
3	64QAM	1	8	13.11	13.45	11.81	14.0
3	64QAM	1	14	13.06	13.29	11.35	
3	64QAM	8	0	13.06	13.01	11.60	
3	64QAM	8	4	13.38	13.18	11.40	14.0
3	64QAM	8	7	13.00	13.43	11.17	
3	64QAM	15	0	13.22	13.38	11.43	
3	256QAM	1	0	13.15	13.42	11.87	14.0
3	256QAM	1	8	13.00	13.40	11.52	
3	256QAM	1	14	13.27	13.21	10.96	
3	256QAM	8	0	13.19	13.19	11.68	14.0
3	256QAM	8	4	13.25	13.15	11.37	
3	256QAM	8	7	13.23	13.07	11.17	
3	256QAM	15	0	13.16	13.10	11.44	Tune-up limit (dBm)
Channel				26047	26340	26683	
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	13.20	13.01	11.48	14.0
1.4	QPSK	1	3	13.40	13.17	11.29	
1.4	QPSK	1	5	13.02	13.29	11.20	
1.4	QPSK	3	0	13.35	13.14	11.38	14.0
1.4	QPSK	3	1	13.09	13.38	11.33	
1.4	QPSK	3	3	13.27	13.42	11.26	
1.4	QPSK	6	0	13.42	13.10	11.52	14.0
1.4	16QAM	1	0	13.29	13.16	11.84	
1.4	16QAM	1	3	13.35	13.29	11.61	
1.4	16QAM	1	5	13.02	13.15	11.47	14.0
1.4	16QAM	3	0	13.12	13.39	11.74	
1.4	16QAM	3	1	13.44	13.39	11.66	
1.4	16QAM	3	3	13.38	13.32	11.61	14.0
1.4	16QAM	6	0	13.23	13.34	11.55	
1.4	64QAM	1	0	13.04	13.06	11.80	
1.4	64QAM	1	3	13.07	13.39	11.54	14.0
1.4	64QAM	1	5	13.41	13.31	11.61	
1.4	64QAM	3	0	13.42	13.12	11.69	
1.4	64QAM	3	1	13.42	13.35	11.61	14.0
1.4	64QAM	3	3	13.37	13.45	11.48	
1.4	64QAM	6	0	13.02	13.44	11.23	
1.4	256QAM	1	0	13.27	13.24	11.36	14.0
1.4	256QAM	1	3	13.17	13.12	11.31	
1.4	256QAM	1	5	13.30	13.11	11.03	
1.4	256QAM	3	0	13.16	13.19	11.25	14.0
1.4	256QAM	3	1	13.43	13.13	11.23	
1.4	256QAM	3	3	13.22	13.37	11.19	
1.4	256QAM	6	0	13.24	13.16	11.23	

**Band26 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				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	20.74	20.87	20.59	21.5
15	QPSK	1	37	20.62	20.69	20.67	
15	QPSK	1	74	20.85	20.63	20.65	
15	QPSK	36	0	20.84	20.66	20.60	21.5
15	QPSK	36	20	20.71	20.78	20.66	
15	QPSK	36	39	20.85	20.74	20.67	
15	QPSK	75	0	19.93	19.83	19.75	
15	16QAM	1	0	20.01	19.86	19.77	20.5
15	16QAM	1	37	19.85	19.66	19.95	
15	16QAM	1	74	19.65	19.79	19.81	
15	16QAM	36	0	18.69	18.74	18.55	19.5
15	16QAM	36	20	18.71	18.58	18.60	
15	16QAM	36	39	18.66	18.72	18.69	
15	16QAM	75	0	18.72	18.68	18.66	
15	64QAM	1	0	18.94	18.85	18.79	19.5
15	64QAM	1	37	18.69	18.64	18.80	
15	64QAM	1	74	18.58	18.88	18.67	
15	64QAM	36	0	17.78	17.74	17.65	18.5
15	64QAM	36	20	17.80	17.56	17.59	
15	64QAM	36	39	17.75	17.67	17.69	
15	64QAM	75	0	17.82	17.66	17.73	
15	256QAM	1	0	16.05	15.81	15.82	16.5
15	256QAM	1	37	15.78	15.82	15.82	
15	256QAM	1	74	15.84	15.82	15.88	
15	256QAM	36	0	15.74	15.70	15.66	16.5
15	256QAM	36	20	15.75	15.65	15.66	
15	256QAM	36	39	15.78	15.69	15.69	
15	256QAM	75	0	15.77	15.69	15.72	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	20.65	20.79	20.73	21.5
10	QPSK	1	25	20.80	20.75	20.69	
10	QPSK	1	49	20.59	20.67	20.69	
10	QPSK	25	0	19.98	19.81	19.75	20.5
10	QPSK	25	12	19.92	19.82	19.76	
10	QPSK	25	25	19.90	19.89	19.82	
10	QPSK	50	0	19.92	19.80	19.79	
10	16QAM	1	0	20.19	19.84	20.01	20.5
10	16QAM	1	25	19.89	20.15	19.98	
10	16QAM	1	49	19.82	20.03	19.95	
10	16QAM	25	0	18.97	18.87	18.84	19.5
10	16QAM	25	12	18.93	18.72	18.74	
10	16QAM	25	25	18.92	18.90	18.83	
10	16QAM	50	0	18.94	18.79	18.78	
10	64QAM	1	0	19.20	18.97	18.89	19.5
10	64QAM	1	25	19.07	18.98	18.94	
10	64QAM	1	49	19.07	18.85	18.94	
10	64QAM	25	0	17.87	17.80	17.79	18.5
10	64QAM	25	12	17.93	17.83	17.75	
10	64QAM	25	25	17.81	17.86	17.81	
10	64QAM	50	0	17.94	17.82	17.81	
10	256QAM	1	0	16.17	16.00	15.85	16.5
10	256QAM	1	25	16.13	16.10	15.97	
10	256QAM	1	49	16.06	16.00	15.86	
10	256QAM	25	0	15.97	15.88	15.81	16.5
10	256QAM	25	12	15.90	15.84	15.85	
10	256QAM	25	25	15.87	15.89	15.83	

10	256QAM	50	0	15.95	15.88	15.82	
Channel				26715	26865	27015	Tune-up limit
Frequency (MHz)				816.5	831.5	846.5	(dBm)
5	QPSK	1	0	20.70	20.73	20.74	21.5
5	QPSK	1	12	20.80	20.69	20.70	
5	QPSK	1	24	20.68	20.74	20.63	
5	QPSK	12	0	19.94	19.73	19.77	20.5
5	QPSK	12	7	19.96	19.82	19.86	
5	QPSK	12	13	19.90	19.82	19.78	
5	QPSK	25	0	19.96	19.71	19.77	20.5
5	16QAM	1	0	20.24	20.04	19.96	
5	16QAM	1	12	20.28	20.09	20.06	
5	16QAM	1	24	19.97	19.94	19.85	19.5
5	16QAM	12	0	19.00	18.79	18.88	
5	16QAM	12	7	19.07	18.89	18.89	
5	16QAM	12	13	18.92	18.83	18.79	19.5
5	16QAM	25	0	18.95	18.81	18.76	
5	64QAM	1	0	19.17	19.00	18.87	
5	64QAM	1	12	19.03	19.11	18.77	19.5
5	64QAM	1	24	18.85	18.88	18.94	
5	64QAM	12	0	17.95	17.79	17.84	
5	64QAM	12	7	17.99	17.79	17.89	18.5
5	64QAM	12	13	17.91	17.94	17.82	
5	64QAM	25	0	17.96	17.80	17.80	
5	256QAM	1	0	16.05	16.00	16.01	16.5
5	256QAM	1	12	16.14	15.94	15.95	
5	256QAM	1	24	15.93	15.98	15.93	
5	256QAM	12	0	16.02	15.82	15.89	16.5
5	256QAM	12	7	15.97	15.92	15.90	
5	256QAM	12	13	16.05	15.90	15.80	
5	256QAM	25	0	15.92	15.82	15.90	
Channel				26705	26865	27025	Tune-up limit
Frequency (MHz)				815.5	831.5	847.5	(dBm)
3	QPSK	1	0	20.83	20.65	20.64	21.5
3	QPSK	1	8	20.64	20.71	20.66	
3	QPSK	1	14	20.75	20.65	20.55	
3	QPSK	8	0	20.03	19.79	19.78	20.5
3	QPSK	8	4	20.00	19.90	19.82	
3	QPSK	8	7	19.94	19.78	19.72	
3	QPSK	15	0	20.00	19.79	19.84	20.5
3	16QAM	1	0	20.00	19.98	20.02	
3	16QAM	1	8	20.12	20.01	20.05	
3	16QAM	1	14	20.08	19.98	19.85	19.5
3	16QAM	8	0	19.03	18.83	18.83	
3	16QAM	8	4	19.04	18.88	18.86	
3	16QAM	8	7	18.95	18.95	18.85	19.5
3	16QAM	15	0	19.00	18.79	18.82	
3	64QAM	1	0	18.99	18.88	18.92	
3	64QAM	1	8	19.17	19.00	18.96	19.5
3	64QAM	1	14	18.84	18.81	18.64	
3	64QAM	8	0	18.06	17.81	17.85	
3	64QAM	8	4	18.03	17.95	17.86	18.5
3	64QAM	8	7	18.08	17.86	17.83	
3	64QAM	15	0	17.96	17.78	17.80	
3	256QAM	1	0	16.05	15.86	15.95	16.5
3	256QAM	1	8	16.14	16.02	16.04	
3	256QAM	1	14	16.07	16.01	15.95	
3	256QAM	8	0	16.02	15.75	15.84	16.5
3	256QAM	8	4	16.04	15.88	15.82	
3	256QAM	8	7	15.93	15.85	15.84	
3	256QAM	15	0	15.97	15.86	15.81	
Channel				26697	26865	27033	Tune-up limit
Frequency (MHz)				814.7	831.5	848.3	(dBm)

1.4	QPSK	1	0	20.61	20.49	20.44	21.5
1.4	QPSK	1	3	20.61	20.42	20.51	
1.4	QPSK	1	5	20.48	20.42	20.36	
1.4	QPSK	3	0	19.66	19.65	19.60	21.5
1.4	QPSK	3	1	19.69	19.56	19.61	
1.4	QPSK	3	3	20.85	20.74	20.67	
1.4	QPSK	6	0	19.93	19.83	19.75	20.5
1.4	16QAM	1	0	19.95	19.86	19.87	20.5
1.4	16QAM	1	3	20.02	20.03	19.89	
1.4	16QAM	1	5	20.11	19.85	19.82	
1.4	16QAM	3	0	20.07	19.89	19.86	20.5
1.4	16QAM	3	1	20.00	19.95	19.84	
1.4	16QAM	3	3	19.98	19.87	19.82	
1.4	16QAM	6	0	18.97	18.86	18.71	19.5
1.4	64QAM	1	0	19.14	18.90	18.84	19.5
1.4	64QAM	1	3	19.15	19.07	18.79	
1.4	64QAM	1	5	19.10	19.04	18.83	
1.4	64QAM	3	0	19.05	18.80	18.89	19.5
1.4	64QAM	3	1	18.97	18.90	18.81	
1.4	64QAM	3	3	18.99	18.93	18.93	
1.4	64QAM	6	0	18.07	17.82	17.80	18.5
1.4	256QAM	1	0	16.07	15.89	15.77	16.5
1.4	256QAM	1	3	16.04	16.01	16.01	
1.4	256QAM	1	5	16.15	15.93	15.91	
1.4	256QAM	3	0	16.12	15.89	15.78	16.5
1.4	256QAM	3	1	16.16	15.86	15.81	
1.4	256QAM	3	3	16.06	15.86	15.88	
1.4	256QAM	6	0	15.90	15.79	15.80	

**Band66 Ant4 DS17**

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	15.83	15.97	15.55	17.0
20	QPSK	1	49	15.93	15.68	15.62	
20	QPSK	1	99	15.54	15.64	15.78	
20	QPSK	50	0	15.54	15.60	15.58	17.0
20	QPSK	50	24	15.86	15.72	15.43	
20	QPSK	50	50	15.83	15.46	15.70	
20	QPSK	100	0	15.84	15.79	15.43	17.0
20	16QAM	1	0	15.93	15.42	15.50	
20	16QAM	1	49	15.60	15.86	15.86	
20	16QAM	1	99	15.65	15.57	15.51	17.0
20	16QAM	50	0	15.89	15.66	15.86	
20	16QAM	50	24	15.94	15.87	15.57	
20	16QAM	50	50	15.91	15.57	15.58	17.0
20	16QAM	100	0	15.59	15.56	15.69	
20	64QAM	1	0	15.66	15.70	15.67	
20	64QAM	1	49	15.75	15.88	15.94	17.0
20	64QAM	1	99	15.67	15.66	15.94	
20	64QAM	50	0	15.67	15.66	15.62	
20	64QAM	50	24	15.58	15.46	15.88	17.0
20	64QAM	50	50	15.48	15.88	15.60	
20	64QAM	100	0	15.87	15.76	15.43	
20	256QAM	1	0	15.86	15.82	15.48	17.0
20	256QAM	1	49	15.75	15.80	15.72	
20	256QAM	1	99	15.73	15.90	15.51	
20	256QAM	50	0	15.77	15.46	15.95	17.0
20	256QAM	50	24	15.48	15.85	15.45	
20	256QAM	50	50	15.59	15.79	15.79	
20	256QAM	100	0	15.82	15.84	15.68	Tune-up limit (dBm)
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	15.60	15.85	15.44	17.0
15	QPSK	1	37	15.68	15.68	15.90	
15	QPSK	1	74	15.47	15.47	15.94	
15	QPSK	36	0	15.52	15.48	15.81	17.0
15	QPSK	36	20	15.75	15.44	15.48	
15	QPSK	39	39	15.50	15.86	15.80	
15	QPSK	75	0	15.54	15.66	15.70	17.0
15	16QAM	1	0	15.60	15.83	15.67	
15	16QAM	1	37	15.54	15.63	15.55	
15	16QAM	1	74	15.51	15.56	15.45	17.0
15	16QAM	36	0	15.54	15.40	15.72	
15	16QAM	36	20	15.86	15.80	15.82	
15	16QAM	39	39	15.52	15.72	15.93	17.0
15	16QAM	75	0	15.76	15.65	15.64	
15	64QAM	1	0	15.47	15.52	15.74	
15	64QAM	1	37	15.92	15.90	15.49	17.0
15	64QAM	1	74	15.85	15.75	15.57	
15	64QAM	36	0	15.74	15.91	15.41	
15	64QAM	36	20	15.86	15.81	15.80	17.0
15	64QAM	39	39	15.88	15.92	15.86	
15	64QAM	75	0	15.75	15.48	15.92	
15	256QAM	1	0	15.47	15.84	15.59	17.0
15	256QAM	1	37	15.93	15.74	15.87	
15	256QAM	1	74	15.49	15.56	15.63	
15	256QAM	36	0	15.91	15.87	15.49	17.0
15	256QAM	36	20	15.46	15.88	15.86	
15	256QAM	39	39	15.84	15.66	15.40	

15	256QAM	75	0	15.86	15.78	15.59	
Channel				132022	132322	132622	Tune-up limit
Frequency (MHz)				1715	1745	1775	(dBm)
10	QPSK	1	0	15.76	15.84	15.63	17.0
10	QPSK	1	25	15.60	15.51	15.59	
10	QPSK	1	49	15.47	15.42	15.66	
10	QPSK	25	0	15.49	15.77	15.46	17.0
10	QPSK	25	12	15.65	15.93	15.64	
10	QPSK	25	25	15.93	15.51	15.53	
10	QPSK	50	0	15.44	15.89	15.58	17.0
10	16QAM	1	0	15.85	15.53	15.69	
10	16QAM	1	25	15.60	15.94	15.62	
10	16QAM	1	49	15.66	15.72	15.78	17.0
10	16QAM	25	0	15.54	15.74	15.69	
10	16QAM	25	12	15.77	15.54	15.56	
10	16QAM	25	25	15.67	15.77	15.44	17.0
10	16QAM	50	0	15.83	15.72	15.57	
10	64QAM	1	0	15.69	15.82	15.57	
10	64QAM	1	25	15.50	15.44	15.88	17.0
10	64QAM	1	49	15.90	15.45	15.87	
10	64QAM	25	0	15.82	15.80	15.73	
10	64QAM	25	12	15.40	15.73	15.43	17.0
10	64QAM	25	25	15.57	15.64	15.59	
10	64QAM	50	0	15.75	15.92	15.73	
10	256QAM	1	0	15.53	15.80	15.78	17.0
10	256QAM	1	25	15.60	15.79	15.79	
10	256QAM	1	49	15.45	15.76	15.60	
10	256QAM	25	0	15.52	15.86	15.60	17.0
10	256QAM	25	12	15.89	15.58	15.44	
10	256QAM	25	25	15.62	15.48	15.46	
10	256QAM	50	0	15.81	15.85	15.94	
Channel				131997	132322	132647	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	(dBm)
5	QPSK	1	0	15.55	15.81	15.79	17.0
5	QPSK	1	12	15.46	15.95	15.69	
5	QPSK	1	24	15.63	15.95	15.62	
5	QPSK	12	0	15.89	15.73	15.63	17.0
5	QPSK	12	7	15.40	15.44	15.66	
5	QPSK	12	13	15.43	15.70	15.76	
5	QPSK	25	0	15.64	15.44	15.45	17.0
5	16QAM	1	0	15.75	15.84	15.64	
5	16QAM	1	12	15.88	15.63	15.59	
5	16QAM	1	24	15.50	15.86	15.68	17.0
5	16QAM	12	0	15.41	15.94	15.78	
5	16QAM	12	7	15.65	15.91	15.76	
5	16QAM	12	13	15.60	15.45	15.57	17.0
5	16QAM	25	0	15.68	15.65	15.71	
5	64QAM	1	0	15.94	15.55	15.91	
5	64QAM	1	12	15.44	15.66	15.65	17.0
5	64QAM	1	24	15.48	15.46	15.62	
5	64QAM	12	0	15.49	15.62	15.60	
5	64QAM	12	7	15.41	15.64	15.52	17.0
5	64QAM	12	13	15.54	15.60	15.64	
5	64QAM	25	0	15.45	15.92	15.70	
5	256QAM	1	0	15.50	15.51	15.74	17.0
5	256QAM	1	12	15.87	15.68	15.85	
5	256QAM	1	24	15.69	15.50	15.46	
5	256QAM	12	0	15.54	15.94	15.50	17.0
5	256QAM	12	7	15.79	15.62	15.63	
5	256QAM	12	13	15.58	15.54	15.67	
5	256QAM	25	0	15.96	15.43	15.84	
Channel				131987	132322	132657	Tune-up limit
Frequency (MHz)				1711.5	1745	1778.5	(dBm)

3	QPSK	1	0	15.67	15.54	15.48	17.0
3	QPSK	1	8	15.42	15.82	15.89	
3	QPSK	1	14	15.78	15.57	15.76	
3	QPSK	8	0	15.94	15.68	15.40	17.0
3	QPSK	8	4	15.64	15.88	15.85	
3	QPSK	8	7	15.42	15.66	15.80	
3	QPSK	15	0	15.47	15.87	15.56	17.0
3	16QAM	1	0	15.66	15.90	15.71	
3	16QAM	1	8	15.73	15.54	15.69	
3	16QAM	1	14	15.84	15.61	15.44	17.0
3	16QAM	8	0	15.70	15.84	15.71	
3	16QAM	8	4	15.69	15.48	15.72	
3	16QAM	8	7	15.63	15.94	15.74	17.0
3	16QAM	15	0	15.54	15.86	15.83	
3	64QAM	1	0	15.76	15.66	15.66	
3	64QAM	1	8	15.78	15.72	15.80	17.0
3	64QAM	1	14	15.69	15.80	15.88	
3	64QAM	8	0	15.74	15.85	15.68	
3	64QAM	8	4	15.64	15.85	15.75	17.0
3	64QAM	8	7	15.41	15.45	15.42	
3	64QAM	15	0	15.95	15.82	15.67	
3	256QAM	1	0	15.73	15.69	15.59	17.0
3	256QAM	1	8	15.61	15.93	15.61	
3	256QAM	1	14	15.54	15.90	15.51	
3	256QAM	8	0	15.76	15.58	15.55	17.0
3	256QAM	8	4	15.50	15.92	15.53	
3	256QAM	8	7	15.87	15.54	15.95	
3	256QAM	15	0	15.90	15.89	15.82	Tune-up limit (dBm)
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	15.87	15.45	15.67	17.0
1.4	QPSK	1	3	15.67	15.69	15.87	
1.4	QPSK	1	5	15.61	15.92	15.91	
1.4	QPSK	3	0	15.75	15.69	15.63	17.0
1.4	QPSK	3	1	15.77	15.77	15.79	
1.4	QPSK	3	3	15.52	15.83	15.67	
1.4	QPSK	6	0	15.64	15.96	15.44	17.0
1.4	16QAM	1	0	15.62	15.70	15.73	
1.4	16QAM	1	3	15.75	15.64	15.86	
1.4	16QAM	1	5	15.64	15.70	15.53	17.0
1.4	16QAM	3	0	15.50	15.41	15.47	
1.4	16QAM	3	1	15.72	15.96	15.75	
1.4	16QAM	3	3	15.54	15.88	15.76	17.0
1.4	16QAM	6	0	15.59	15.83	15.84	
1.4	64QAM	1	0	15.67	15.87	15.96	
1.4	64QAM	1	3	15.90	15.59	15.55	17.0
1.4	64QAM	1	5	15.74	15.54	15.91	
1.4	64QAM	3	0	15.76	15.63	15.70	
1.4	64QAM	3	1	15.47	15.60	15.68	17.0
1.4	64QAM	3	3	15.65	15.64	15.73	
1.4	64QAM	6	0	15.48	15.41	15.53	
1.4	256QAM	1	0	15.75	15.66	15.44	17.0
1.4	256QAM	1	3	15.65	15.81	15.95	
1.4	256QAM	1	5	15.66	15.83	15.94	
1.4	256QAM	3	0	15.75	15.65	15.96	17.0
1.4	256QAM	3	1	15.77	15.75	15.86	
1.4	256QAM	3	3	15.86	15.56	15.93	
1.4	256QAM	6	0	15.79	15.67	15.78	

**Band7 Ant4 DSI7**

BW(MHz)	Moudulation	RB Size	RB Offset	Power Low	Power Mid	Power High	Tune-up limit (dBm)
				CH./Freq.	CH./Freq.	CH./Freq.	
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	16.42	16.43	16.30	17.0
20	QPSK	1	49	16.41	16.35	16.33	
20	QPSK	1	99	8.68	8.76	8.74	9.0
20	QPSK	50	0	16.15	16.21	16.26	17.0
20	QPSK	50	24	16.22	16.23	16.07	
20	QPSK	50	50	15.27	15.32	15.15	16.0
20	QPSK	100	0	15.70	15.70	15.65	
20	16QAM	1	0	16.01	16.10	16.11	17.0
20	16QAM	1	49	16.16	16.14	16.08	
20	16QAM	1	99	8.69	8.61	8.75	9.0
20	16QAM	50	0	16.16	16.13	16.12	17.0
20	16QAM	50	24	16.02	16.23	16.15	
20	16QAM	50	50	15.30	15.18	15.17	16.0
20	16QAM	100	0	15.64	15.69	15.67	
20	64QAM	1	0	16.29	16.42	16.37	17.0
20	64QAM	1	49	16.28	16.31	16.32	
20	64QAM	1	99	8.69	8.95	8.78	9.0
20	64QAM	50	0	16.20	16.18	16.04	17.0
20	64QAM	50	24	16.12	16.27	16.29	
20	64QAM	50	50	15.70	15.27	15.69	16.0
20	64QAM	100	0	15.68	15.72	15.63	
20	256QAM	1	0	16.00	16.21	16.04	17.0
20	256QAM	1	49	16.22	16.33	16.23	
20	256QAM	1	99	8.78	8.90	8.67	10.0
20	256QAM	50	0	16.19	16.22	16.02	17.0
20	256QAM	50	24	15.27	15.28	15.21	16.0
20	256QAM	50	50	15.63	15.39	15.68	17.0
20	256QAM	100	0	16.11	15.80	16.25	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	16.38	16.29	16.41	17.0
15	QPSK	1	37	16.35	16.35	16.34	
15	QPSK	1	74	8.68	8.64	8.68	9.0
15	QPSK	36	0	16.27	16.23	16.14	17.0
15	QPSK	36	20	16.05	16.11	16.26	
15	QPSK	39	39	15.30	15.23	15.20	16.0
15	QPSK	75	0	15.70	15.70	15.69	
15	16QAM	1	0	16.12	16.14	16.09	17.0
15	16QAM	1	37	16.02	16.20	16.14	
15	16QAM	1	74	8.62	8.72	8.79	9.0
15	16QAM	36	0	16.16	16.17	16.13	17.0
15	16QAM	36	20	16.00	16.09	16.02	
15	16QAM	39	39	15.22	15.27	15.29	16.0
15	16QAM	75	0	15.60	15.65	15.65	
15	64QAM	1	0	16.32	16.35	16.36	17.0
15	64QAM	1	37	16.28	16.39	16.42	
15	64QAM	1	74	8.70	8.61	8.74	9.0
15	64QAM	36	0	16.11	16.09	16.02	17.0
15	64QAM	36	20	16.08	16.22	16.14	
15	64QAM	39	39	15.60	15.66	15.72	16.0
15	64QAM	75	0	15.60	15.60	15.67	
15	256QAM	1	0	16.03	16.21	16.20	17.0
15	256QAM	1	37	16.20	16.25	16.18	
15	256QAM	1	74	8.60	8.69	8.80	10.0
15	256QAM	36	0	16.09	16.09	16.13	17.0
15	256QAM	36	20	15.30	15.23	15.17	16.0
15	256QAM	39	39	15.71	15.61	15.68	17.0



15	256QAM	75	0	16.13	16.10	16.24	17.0
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	16.31	16.42	16.37	17.0
10	QPSK	1	25	16.36	16.36	16.41	
10	QPSK	1	49	8.77	8.65	8.80	9.0
10	QPSK	25	0	16.05	16.19	16.14	17.0
10	QPSK	25	12	16.19	16.04	16.05	
10	QPSK	25	25	15.20	15.25	15.30	16.0
10	QPSK	50	0	15.63	15.66	15.61	
10	16QAM	1	0	16.07	16.05	16.04	17.0
10	16QAM	1	25	16.07	16.17	16.17	
10	16QAM	1	49	8.77	8.75	8.65	9.0
10	16QAM	25	0	16.01	16.19	16.06	17.0
10	16QAM	25	12	16.23	16.29	16.25	
10	16QAM	25	25	15.18	15.24	15.20	16.0
10	16QAM	50	0	15.63	15.66	15.62	
10	64QAM	1	0	16.34	16.29	16.34	17.0
10	64QAM	1	25	16.42	16.37	16.38	
10	64QAM	1	49	8.65	8.63	8.63	9.0
10	64QAM	25	0	16.12	16.17	16.13	17.0
10	64QAM	25	12	16.13	16.23	16.23	
10	64QAM	25	25	15.70	15.64	15.60	16.0
10	64QAM	50	0	15.65	15.64	15.69	
10	256QAM	1	0	16.24	16.25	16.25	17.0
10	256QAM	1	25	16.17	16.19	16.29	
10	256QAM	1	49	8.78	8.72	8.74	10.0
10	256QAM	25	0	16.02	16.18	16.01	17.0
10	256QAM	25	12	15.21	15.17	15.16	16.0
10	256QAM	25	25	15.72	15.61	15.66	17.0
10	256QAM	50	0	16.24	16.30	16.03	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	16.29	16.32	16.42	17.0
5	QPSK	1	12	16.38	16.33	16.29	
5	QPSK	1	24	8.70	8.76	8.74	9.0
5	QPSK	12	0	16.12	16.12	16.16	17.0
5	QPSK	12	7	16.15	16.15	16.09	
5	QPSK	12	13	15.27	15.16	15.18	16.0
5	QPSK	25	0	15.61	15.66	15.64	
5	16QAM	1	0	16.18	16.03	16.05	17.0
5	16QAM	1	12	16.16	16.19	16.02	
5	16QAM	1	24	8.77	8.60	8.64	9.0
5	16QAM	12	0	16.16	16.04	16.10	17.0
5	16QAM	12	7	16.11	16.12	16.24	
5	16QAM	12	13	15.29	15.31	15.24	16.0
5	16QAM	25	0	15.66	15.70	15.62	
5	64QAM	1	0	16.35	16.39	16.31	17.0
5	64QAM	1	12	16.34	16.31	16.41	
5	64QAM	1	24	8.62	8.63	8.80	9.0
5	64QAM	12	0	16.15	16.07	16.04	17.0
5	64QAM	12	7	16.09	16.23	16.13	
5	64QAM	12	13	15.61	15.67	15.69	16.0
5	64QAM	25	0	15.65	15.71	15.68	
5	256QAM	1	0	16.00	16.23	16.00	17.0
5	256QAM	1	12	16.09	16.14	16.07	
5	256QAM	1	24	8.73	8.79	8.74	10.0
5	256QAM	12	0	16.03	16.20	16.15	17.0
5	256QAM	12	7	15.31	15.24	15.25	16.0
5	256QAM	12	13	15.68	15.68	15.69	17.0
5	256QAM	25	0	16.00	16.30	16.21	

**Band38 Ant4 DSI7**

BW(MHz)	Moudulation	RB Size	RB Offset	Power Low	Power Mid	Power High	Tune-up limit (dBm)
				CH./Freq.	CH./Freq.	CH./Freq.	
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	16.20	16.36	16.27	17.0
20	QPSK	1	49	16.25	16.21	16.34	
20	QPSK	1	99	16.29	16.24	16.19	
20	QPSK	50	0	16.30	16.24	16.27	17.0
20	QPSK	50	24	16.21	16.20	16.27	
20	QPSK	50	50	16.34	16.31	16.22	
20	QPSK	100	0	16.35	16.23	16.28	
20	16QAM	1	0	16.03	16.06	16.08	17.0
20	16QAM	1	49	16.09	16.10	16.11	
20	16QAM	1	99	16.03	16.01	16.01	
20	16QAM	50	0	16.10	16.14	16.12	17.0
20	16QAM	50	24	16.34	16.15	16.20	
20	16QAM	50	50	16.32	16.24	16.34	
20	16QAM	100	0	16.19	16.17	16.32	
20	64QAM	1	0	16.27	16.33	16.31	17.0
20	64QAM	1	49	16.18	16.31	16.22	
20	64QAM	1	99	16.28	16.32	16.27	
20	64QAM	50	0	16.22	16.25	16.21	
20	64QAM	50	24	16.21	16.27	16.30	17.0
20	64QAM	50	50	16.24	16.35	16.20	
20	64QAM	100	0	16.24	16.22	16.30	
20	256QAM	1	0	16.20	16.17	16.28	17.0
20	256QAM	1	49	16.01	16.27	16.08	
20	256QAM	1	99	16.27	16.34	16.35	
20	256QAM	50	0	16.24	16.28	16.27	17.0
20	256QAM	50	24	16.29	16.28	16.31	
20	256QAM	50	50	16.31	16.34	16.28	
20	256QAM	100	0	16.20	16.21	16.30	
Channel				37825	38000	38175	Tune-up limit
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	16.22	16.29	16.24	17.0
15	QPSK	1	37	16.21	16.21	16.28	
15	QPSK	1	74	16.33	16.33	16.21	
15	QPSK	36	0	16.32	16.26	16.18	17.0
15	QPSK	36	20	16.27	16.22	16.30	
15	QPSK	39	39	16.33	16.30	16.19	
15	QPSK	75	0	16.30	16.27	16.27	
15	16QAM	1	0	16.06	16.01	16.02	17.0
15	16QAM	1	37	16.05	16.07	16.07	
15	16QAM	1	74	16.06	16.12	16.05	
15	16QAM	36	0	16.05	16.02	16.08	17.0
15	16QAM	36	20	16.23	16.31	16.18	
15	16QAM	39	39	16.30	16.24	16.33	
15	16QAM	75	0	16.20	16.21	16.28	
15	64QAM	1	0	16.22	16.21	16.31	17.0
15	64QAM	1	37	16.34	16.19	16.26	
15	64QAM	1	74	16.24	16.22	16.32	
15	64QAM	36	0	16.20	16.19	16.21	17.0
15	64QAM	36	20	16.30	16.30	16.27	
15	64QAM	39	39	16.25	16.19	16.26	
15	64QAM	75	0	16.28	16.20	16.29	
15	256QAM	1	0	16.26	16.34	16.34	17.0
15	256QAM	1	37	16.06	16.12	16.03	
15	256QAM	1	74	16.24	16.23	16.20	
15	256QAM	36	0	16.25	16.27	16.31	17.0
15	256QAM	36	20	16.34	16.27	16.24	
15	256QAM	39	39	16.18	16.19	16.19	
15	256QAM	39	39	16.18	16.19	16.19	

15	256QAM	75	0	16.33	16.29	16.19	
Channel				37800	38000	38200	Tune-up limit
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	16.18	16.20	16.21	17.0
10	QPSK	1	25	16.25	16.32	16.21	
10	QPSK	1	49	16.33	16.31	16.33	
10	QPSK	25	0	16.26	16.25	16.31	17.0
10	QPSK	25	12	16.31	16.26	16.34	
10	QPSK	25	25	16.20	16.25	16.19	
10	QPSK	50	0	16.25	16.34	16.24	17.0
10	16QAM	1	0	16.01	16.07	16.06	
10	16QAM	1	25	16.08	16.05	16.12	
10	16QAM	1	49	16.04	16.09	16.05	17.0
10	16QAM	25	0	16.12	16.05	16.00	
10	16QAM	25	12	16.31	16.23	16.18	
10	16QAM	25	25	16.19	16.24	16.32	17.0
10	16QAM	50	0	16.23	16.18	16.18	
10	64QAM	1	0	16.25	16.30	16.18	
10	64QAM	1	25	16.33	16.26	16.24	17.0
10	64QAM	1	49	16.23	16.31	16.22	
10	64QAM	25	0	16.25	16.25	16.28	
10	64QAM	25	12	16.28	16.31	16.32	17.0
10	64QAM	25	25	16.33	16.32	16.25	
10	64QAM	50	0	16.28	16.25	16.29	
10	256QAM	1	0	16.25	16.33	16.20	17.0
10	256QAM	1	25	16.03	16.06	16.12	
10	256QAM	1	49	16.32	16.18	16.31	
10	256QAM	25	0	16.34	16.27	16.25	17.0
10	256QAM	25	12	16.24	16.34	16.24	
10	256QAM	25	25	16.30	16.18	16.32	
10	256QAM	50	0	16.34	16.33	16.29	
Channel				37775	38000	38225	Tune-up limit
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	16.26	16.22	16.30	17.0
5	QPSK	1	12	16.25	16.23	16.31	
5	QPSK	1	24	16.25	16.19	16.22	
5	QPSK	12	0	16.23	16.29	16.20	17.0
5	QPSK	12	7	16.27	16.32	16.21	
5	QPSK	12	13	16.27	16.31	16.29	
5	QPSK	25	0	16.26	16.27	16.29	17.0
5	16QAM	1	0	16.05	16.00	16.08	
5	16QAM	1	12	16.06	16.11	16.09	
5	16QAM	1	24	16.08	16.09	16.12	17.0
5	16QAM	12	0	16.06	16.08	16.06	
5	16QAM	12	7	16.25	16.19	16.29	
5	16QAM	12	13	16.33	16.30	16.25	17.0
5	16QAM	25	0	16.21	16.30	16.22	
5	64QAM	1	0	16.21	16.26	16.18	
5	64QAM	1	12	16.27	16.34	16.26	17.0
5	64QAM	1	24	16.28	16.33	16.23	
5	64QAM	12	0	16.21	16.22	16.24	
5	64QAM	12	7	16.26	16.23	16.24	17.0
5	64QAM	12	13	16.33	16.22	16.29	
5	64QAM	25	0	16.31	16.20	16.18	
5	256QAM	1	0	16.18	16.33	16.30	17.0
5	256QAM	1	12	16.01	16.07	16.01	
5	256QAM	1	24	16.20	16.24	16.19	
5	256QAM	12	0	16.24	16.18	16.27	17.0
5	256QAM	12	7	16.32	16.19	16.20	
5	256QAM	12	13	16.28	16.20	16.18	
5	256QAM	25	0	16.29	16.33	16.18	

**Band41 Ant4 DSI7**

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	16.27	16.21	16.37	16.35	16.33	17.0	
20	QPSK	1	49	16.25	16.26	16.24	16.28	16.21		
20	QPSK	1	99	16.35	16.25	16.20	16.20	16.28		
20	QPSK	50	0	16.25	16.22	16.14	16.36	16.22	17.0	
20	QPSK	50	24	16.29	16.21	16.28	16.31	16.30		
20	QPSK	50	50	16.26	16.18	16.25	16.18	16.30		
20	QPSK	100	0	16.22	16.27	16.30	16.33	16.22	17.0	
20	16QAM	1	0	16.00	16.06	16.03	16.01	16.08		
20	16QAM	1	49	16.03	16.03	16.03	16.06	16.09		
20	16QAM	1	99	16.06	16.12	16.04	16.06	16.07	17.0	
20	16QAM	50	0	16.06	16.12	16.13	16.07	16.06		
20	16QAM	50	24	16.21	16.30	16.24	16.36	16.20		
20	16QAM	50	50	16.34	16.27	16.18	16.26	16.26	17.0	
20	16QAM	100	0	16.19	16.18	16.27	16.27	16.34		
20	64QAM	1	0	16.22	16.18	16.36	16.18	16.18		
20	64QAM	1	49	16.31	16.32	16.34	16.35	16.33	17.0	
20	64QAM	1	99	16.29	16.23	16.33	16.28	16.18		
20	64QAM	50	0	16.18	16.25	16.23	16.19	16.26		
20	64QAM	50	24	16.21	16.35	16.30	16.32	16.21	17.0	
20	64QAM	50	50	16.35	16.24	16.30	16.22	16.34		
20	64QAM	100	0	16.28	16.35	16.26	16.27	16.26		
20	256QAM	1	0	16.35	16.26	16.12	16.35	16.26	17.0	
20	256QAM	1	49	16.01	16.08	16.15	16.11	16.04		
20	256QAM	1	99	16.36	16.25	16.26	16.23	16.31		
20	256QAM	50	0	16.21	16.24	16.23	16.36	16.35	17.0	
20	256QAM	50	24	16.30	16.35	16.33	16.36	16.19		
20	256QAM	50	50	16.25	16.28	16.30	16.18	16.32		
20	256QAM	100	0	16.23	16.33	16.31	16.20	16.35	17.0	
Channel				39725	40173	40620	41068	41515		Tune-up limit
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	16.24	16.33	16.36	16.18	16.31	17.0	
15	QPSK	1	37	16.29	16.20	16.20	16.36	16.32		
15	QPSK	1	74	16.33	16.34	16.24	16.18	16.24		
15	QPSK	36	0	16.20	16.20	16.28	16.21	16.29	17.0	
15	QPSK	36	20	16.29	16.19	16.20	16.24	16.26		
15	QPSK	39	39	16.23	16.19	16.23	16.26	16.32		
15	QPSK	75	0	16.21	16.36	16.34	16.33	16.25	17.0	
15	16QAM	1	0	16.05	16.00	16.11	16.03	16.09		
15	16QAM	1	37	16.03	16.11	16.08	16.02	16.04		
15	16QAM	1	74	16.05	16.01	16.06	16.11	16.05	17.0	
15	16QAM	36	0	16.03	16.03	16.01	16.03	16.11		
15	16QAM	36	20	16.33	16.21	16.30	16.31	16.23		
15	16QAM	39	39	16.30	16.32	16.30	16.25	16.31	17.0	
15	16QAM	75	0	16.30	16.35	16.32	16.18	16.26		
15	64QAM	1	0	16.21	16.34	16.23	16.28	16.21		
15	64QAM	1	37	16.28	16.32	16.26	16.21	16.24	17.0	
15	64QAM	1	74	16.18	16.24	16.30	16.31	16.28		
15	64QAM	36	0	16.18	16.28	16.21	16.29	16.25		
15	64QAM	36	20	16.25	16.20	16.18	16.23	16.30	17.0	
15	64QAM	39	39	16.36	16.27	16.33	16.21	16.21		
15	64QAM	75	0	16.26	16.33	16.25	16.20	16.31		
15	256QAM	1	0	16.35	16.36	16.33	16.20	16.20	17.0	
15	256QAM	1	37	16.09	16.10	16.12	16.03	16.10		
15	256QAM	1	74	16.33	16.25	16.30	16.27	16.26		
15	256QAM	36	0	16.33	16.31	16.33	16.23	16.30	17.0	
15	256QAM	36	20	16.20	16.32	16.25	16.20	16.21		
15	256QAM	39	39	16.24	16.28	16.23	16.27	16.34		
15	256QAM	75	0	16.25	16.26	16.25	16.29	16.21	17.0	
Channel				39700	40160	40620	41080	41540		Tune-up limit
Frequency (MHz)				2510	2547	2593	2639	2685		
10	QPSK	1	0	16.25	16.23	16.22	16.26	16.22	17.0	
10	QPSK	1	25	16.23	16.27	16.21	16.30	16.21		
10	QPSK	1	49	16.28	16.23	16.26	16.25	16.36		
10	QPSK	25	0	16.33	16.21	16.34	16.31	16.27		

10	QPSK	25	12	16.26	16.34	16.19	16.26	16.31	17.0
10	QPSK	25	25	16.33	16.26	16.28	16.36	16.26	
10	QPSK	50	0	16.25	16.19	16.22	16.27	16.27	
10	16QAM	1	0	16.08	16.11	16.09	16.06	16.04	17.0
10	16QAM	1	25	16.10	16.10	16.00	16.02	16.07	
10	16QAM	1	49	16.09	16.04	16.05	16.07	16.01	
10	16QAM	25	0	16.02	16.01	16.03	16.07	16.02	17.0
10	16QAM	25	12	16.21	16.26	16.31	16.24	16.34	
10	16QAM	25	25	16.28	16.22	16.21	16.34	16.26	
10	16QAM	50	0	16.29	16.27	16.34	16.31	16.27	17.0
10	64QAM	1	0	16.32	16.24	16.35	16.21	16.19	
10	64QAM	1	25	16.21	16.22	16.19	16.36	16.30	
10	64QAM	1	49	16.20	16.35	16.32	16.24	16.25	17.0
10	64QAM	25	0	16.36	16.34	16.24	16.23	16.28	
10	64QAM	25	12	16.25	16.31	16.25	16.22	16.22	
10	64QAM	25	25	16.30	16.29	16.28	16.18	16.20	17.0
10	64QAM	50	0	16.34	16.32	16.26	16.21	16.28	
10	256QAM	1	0	16.25	16.22	16.36	16.29	16.28	
10	256QAM	1	25	16.03	16.02	16.02	16.05	16.02	17.0
10	256QAM	1	49	16.35	16.29	16.33	16.24	16.22	
10	256QAM	25	0	16.29	16.36	16.36	16.30	16.30	
10	256QAM	25	12	16.19	16.21	16.35	16.23	16.19	17.0
10	256QAM	25	25	16.22	16.27	16.33	16.20	16.24	
10	256QAM	50	0	16.20	16.29	16.28	16.26	16.32	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	16.36	16.22	16.36	16.21	16.24	17.0
5	QPSK	1	12	16.23	16.32	16.33	16.34	16.25	
5	QPSK	1	24	16.19	16.29	16.19	16.36	16.21	
5	QPSK	12	0	16.20	16.22	16.33	16.30	16.20	17.0
5	QPSK	12	7	16.21	16.21	16.22	16.31	16.34	
5	QPSK	12	13	16.21	16.30	16.27	16.31	16.23	
5	QPSK	25	0	16.30	16.33	16.18	16.33	16.19	17.0
5	16QAM	1	0	16.03	16.10	16.03	16.11	16.08	
5	16QAM	1	12	16.12	16.11	16.04	16.06	16.04	
5	16QAM	1	24	16.00	16.05	16.08	16.07	16.08	17.0
5	16QAM	12	0	16.03	16.06	16.08	16.08	16.04	
5	16QAM	12	7	16.26	16.33	16.20	16.29	16.23	
5	16QAM	12	13	16.19	16.23	16.31	16.29	16.31	17.0
5	16QAM	25	0	16.23	16.26	16.20	16.36	16.25	
5	64QAM	1	0	16.28	16.27	16.22	16.22	16.26	
5	64QAM	1	12	16.22	16.34	16.35	16.27	16.27	17.0
5	64QAM	1	24	16.24	16.36	16.36	16.19	16.25	
5	64QAM	12	0	16.31	16.31	16.36	16.18	16.25	
5	64QAM	12	7	16.33	16.18	16.30	16.36	16.26	17.0
5	64QAM	12	13	16.24	16.20	16.30	16.24	16.28	
5	64QAM	25	0	16.31	16.22	16.30	16.20	16.22	
5	256QAM	1	0	16.30	16.23	16.28	16.31	16.33	17.0
5	256QAM	1	12	16.10	16.09	16.00	16.00	16.00	
5	256QAM	1	24	16.23	16.21	16.27	16.26	16.36	
5	256QAM	12	0	16.28	16.24	16.29	16.32	16.18	17.0
5	256QAM	12	7	16.30	16.35	16.29	16.36	16.25	
5	256QAM	12	13	16.26	16.22	16.36	16.20	16.34	
5	256QAM	25	0	16.25	16.28	16.34	16.20	16.19	

**Band42 Ant2 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				42190	42590	42990	
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	16.42	16.58	16.42	17.0
20	QPSK	1	49	16.39	16.05	16.43	
20	QPSK	1	99	16.35	16.01	16.38	
20	QPSK	50	0	16.48	16.14	16.42	17.0
20	QPSK	50	24	16.48	16.12	16.50	
20	QPSK	50	50	16.47	16.16	16.49	
20	QPSK	100	0	16.45	16.13	16.49	
20	16QAM	1	0	16.47	16.28	16.48	17.0
20	16QAM	1	49	16.51	16.30	16.52	
20	16QAM	1	99	16.46	16.25	16.25	
20	16QAM	50	0	16.42	16.14	16.47	17.0
20	16QAM	50	24	16.42	16.13	16.35	
20	16QAM	50	50	16.49	16.15	16.52	
20	16QAM	100	0	16.45	16.13	16.51	
20	64QAM	1	0	16.45	16.20	16.45	17.0
20	64QAM	1	49	16.52	16.27	16.32	
20	64QAM	1	99	16.47	16.10	16.48	
20	64QAM	50	0	16.43	16.14	16.29	17.0
20	64QAM	50	24	16.47	16.14	16.42	
20	64QAM	50	50	16.43	16.17	16.51	
20	64QAM	100	0	16.45	16.11	16.46	
20	256QAM	1	0	16.48	16.31	16.43	17.0
20	256QAM	1	49	16.40	16.23	16.36	
20	256QAM	1	99	16.33	16.33	16.41	
20	256QAM	50	0	16.46	16.16	16.52	17.0
20	256QAM	50	24	16.38	16.20	16.53	
20	256QAM	50	50	16.49	16.16	16.45	
20	256QAM	100	0	16.42	16.15	16.51	
Channel				42165	42590	43015	Tune-up limit
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	16.40	16.13	16.43	17.0
15	QPSK	1	37	16.40	16.12	16.47	
15	QPSK	1	74	16.37	16.08	16.40	
15	QPSK	36	0	16.42	16.12	16.41	17.0
15	QPSK	36	20	16.37	16.12	16.45	
15	QPSK	39	39	16.42	16.15	16.45	
15	QPSK	75	0	16.41	16.16	16.47	
15	16QAM	1	0	16.48	16.23	16.47	17.0
15	16QAM	1	37	16.50	16.18	16.35	
15	16QAM	1	74	16.35	16.09	16.51	
15	16QAM	36	0	16.44	16.11	16.27	17.0
15	16QAM	36	20	16.43	16.14	16.31	
15	16QAM	39	39	16.46	16.14	16.55	
15	16QAM	75	0	16.38	16.09	16.51	
15	64QAM	1	0	16.38	16.00	16.45	17.0
15	64QAM	1	37	16.41	16.23	16.42	
15	64QAM	1	74	16.31	16.01	16.46	
15	64QAM	36	0	16.37	16.08	16.41	17.0
15	64QAM	36	20	16.41	16.11	16.44	
15	64QAM	39	39	16.40	16.12	16.50	
15	64QAM	75	0	16.40	16.10	16.42	
15	256QAM	1	0	16.45	16.21	16.29	17.0
15	256QAM	1	37	16.50	16.21	16.30	
15	256QAM	1	74	16.51	16.22	16.51	
15	256QAM	36	0	16.43	16.17	16.47	17.0
15	256QAM	36	20	16.41	16.15	16.51	
15	256QAM	39	39	16.44	16.14	16.52	
15	256QAM	75	0	16.45	16.15	16.51	

Channel				42140	42590	43040	Tune-up limit
Frequency (MHz)				3455	3500	3545	
10	QPSK	1	0	16.52	16.27	16.44	17.0
10	QPSK	1	25	16.56	16.27	16.32	
10	QPSK	1	49	16.51	16.20	16.31	
10	QPSK	25	0	16.55	16.26	16.30	17.0
10	QPSK	25	12	16.57	16.29	16.54	
10	QPSK	25	25	16.50	16.26	16.27	
10	QPSK	50	0	16.41	16.23	16.26	
10	16QAM	1	0	16.52	16.46	16.52	17.0
10	16QAM	1	25	16.53	16.27	16.27	
10	16QAM	1	49	16.28	16.29	16.47	
10	16QAM	25	0	16.53	16.25	16.34	17.0
10	16QAM	25	12	16.24	16.25	16.52	
10	16QAM	25	25	16.54	16.26	16.43	
10	16QAM	50	0	16.54	16.27	16.45	
10	64QAM	1	0	16.34	16.42	16.38	17.0
10	64QAM	1	25	16.43	16.37	16.25	
10	64QAM	1	49	16.54	16.39	16.39	
10	64QAM	25	0	16.34	16.27	16.28	17.0
10	64QAM	25	12	16.37	16.31	16.41	
10	64QAM	25	25	16.54	16.28	16.25	
10	64QAM	50	0	16.56	16.30	16.52	
10	256QAM	1	0	16.44	16.32	16.52	17.0
10	256QAM	1	25	16.53	16.35	16.46	
10	256QAM	1	49	16.49	16.45	16.27	
10	256QAM	25	0	16.51	16.27	16.51	17.0
10	256QAM	25	12	16.44	16.24	16.49	
10	256QAM	25	25	16.54	16.25	16.37	
10	256QAM	50	0	16.56	16.25	16.27	
Channel				42115	42590	43065	Tune-up limit
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	16.56	16.20	16.34	17.0
5	QPSK	1	12	16.55	16.25	16.27	
5	QPSK	1	24	16.50	16.19	16.30	
5	QPSK	12	0	16.53	16.23	16.29	17.0
5	QPSK	12	7	16.56	16.26	16.44	
5	QPSK	12	13	16.30	16.23	16.27	
5	QPSK	25	0	16.36	16.22	16.31	
5	16QAM	1	0	16.24	16.45	16.31	17.0
5	16QAM	1	12	16.34	16.38	16.24	
5	16QAM	1	24	16.31	16.44	16.49	
5	16QAM	12	0	16.55	16.27	16.54	17.0
5	16QAM	12	7	16.39	16.34	16.35	
5	16QAM	12	13	16.55	16.27	16.54	
5	16QAM	25	0	16.42	16.26	16.55	
5	64QAM	1	0	16.41	16.26	16.33	17.0
5	64QAM	1	12	16.37	16.39	16.25	
5	64QAM	1	24	16.31	16.32	16.37	
5	64QAM	12	0	16.51	16.26	16.27	17.0
5	64QAM	12	7	16.41	16.32	16.34	
5	64QAM	12	13	16.37	16.26	16.26	
5	64QAM	25	0	16.25	16.25	16.40	
5	256QAM	1	0	16.27	16.33	16.35	17.0
5	256QAM	1	12	16.48	16.38	16.34	
5	256QAM	1	24	16.40	16.21	16.32	
5	256QAM	12	0	16.24	16.21	16.27	17.0
5	256QAM	12	7	16.33	16.26	16.34	
5	256QAM	12	13	16.51	16.29	16.38	
5	256QAM	25	0	16.24	16.22	16.30	

**Band7 Ant1 DSI6**

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	22.37	22.42	22.15	23.0
20	QPSK	1	49	21.80	22.20	22.33	
20	QPSK	1	99	21.68	22.16	22.32	
20	QPSK	50	0	21.63	22.02	22.28	23.0
20	QPSK	50	24	21.69	22.17	22.26	
20	QPSK	50	50	21.65	22.10	22.26	
20	QPSK	100	0	21.63	22.02	22.32	
20	16QAM	1	0	21.85	22.28	22.12	23.0
20	16QAM	1	49	21.92	22.30	22.40	
20	16QAM	1	99	21.95	22.17	22.36	
20	16QAM	50	0	20.68	21.13	21.30	22.0
20	16QAM	50	24	20.74	21.21	21.31	
20	16QAM	50	50	20.69	21.14	21.23	
20	16QAM	100	0	20.65	21.07	21.18	
20	64QAM	1	0	20.70	21.11	21.35	22.0
20	64QAM	1	49	20.83	21.28	21.43	
20	64QAM	1	99	20.87	21.25	21.20	
20	64QAM	50	0	19.76	20.07	20.34	21.0
20	64QAM	50	24	19.69	20.19	20.34	
20	64QAM	50	50	19.65	20.15	20.29	
20	64QAM	100	0	19.66	20.05	20.27	
20	256QAM	1	0	17.71	18.08	18.38	19.0
20	256QAM	1	49	17.86	18.34	18.37	
20	256QAM	1	99	17.86	18.23	18.39	
20	256QAM	50	0	17.76	18.10	18.27	19.0
20	256QAM	50	24	17.66	18.21	18.33	
20	256QAM	50	50	17.72	18.17	18.27	
20	256QAM	100	0	17.73	18.07	18.29	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	21.53	21.85	22.12	23.0
15	QPSK	1	37	21.51	22.03	22.09	
15	QPSK	1	74	21.53	22.08	22.06	
15	QPSK	36	0	21.55	21.69	22.01	23.0
15	QPSK	36	20	21.51	21.78	22.03	
15	QPSK	39	39	21.48	21.98	22.00	
15	QPSK	75	0	21.57	21.81	22.02	
15	16QAM	1	0	21.49	21.97	22.23	23.0
15	16QAM	1	37	21.67	22.00	22.06	
15	16QAM	1	74	21.63	22.00	22.02	
15	16QAM	36	0	20.53	20.87	20.98	22.0
15	16QAM	36	20	20.57	20.79	20.95	
15	16QAM	39	39	20.55	20.88	20.89	
15	16QAM	75	0	20.58	20.95	21.05	
15	64QAM	1	0	20.68	20.91	21.14	22.0
15	64QAM	1	37	20.64	21.03	21.00	
15	64QAM	1	74	20.33	21.12	21.09	
15	64QAM	36	0	19.52	19.88	19.93	21.0
15	64QAM	36	20	19.60	19.78	20.06	
15	64QAM	39	39	19.63	19.90	20.13	
15	64QAM	75	0	19.64	19.92	20.08	
15	256QAM	1	0	17.62	18.11	18.41	19.0
15	256QAM	1	37	17.66	18.13	18.20	
15	256QAM	1	74	17.73	18.12	18.13	
15	256QAM	36	0	17.66	17.89	18.13	19.0
15	256QAM	36	20	17.55	17.88	18.09	
15	256QAM	39	39	17.66	18.10	18.14	
15	256QAM	75	0	17.66	18.00	18.07	



Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	21.75	22.09	22.31	23.0
10	QPSK	1	25	21.80	22.27	22.36	
10	QPSK	1	49	21.74	22.22	22.17	
10	QPSK	25	0	21.69	21.93	22.19	23.0
10	QPSK	25	12	21.70	21.99	22.25	
10	QPSK	25	25	21.60	22.16	22.12	
10	QPSK	50	0	21.76	22.04	22.14	
10	16QAM	1	0	21.87	22.01	22.25	23.0
10	16QAM	1	25	21.95	22.15	22.40	
10	16QAM	1	49	21.84	22.32	22.39	
10	16QAM	25	0	20.59	21.08	21.11	22.0
10	16QAM	25	12	20.66	21.08	21.20	
10	16QAM	25	25	20.72	21.19	21.29	
10	16QAM	50	0	20.70	21.08	21.18	
10	64QAM	1	0	20.90	21.35	21.39	22.0
10	64QAM	1	25	20.79	21.24	21.44	
10	64QAM	1	49	20.87	21.30	21.23	
10	64QAM	25	0	19.60	20.08	20.00	21.0
10	64QAM	25	12	19.74	20.08	20.18	
10	64QAM	25	25	19.75	19.95	20.07	
10	64QAM	50	0	19.74	20.09	20.18	
10	256QAM	1	0	17.89	18.15	18.42	19.0
10	256QAM	1	25	17.88	18.24	18.41	
10	256QAM	1	49	17.92	18.18	18.36	
10	256QAM	25	0	17.79	18.11	18.28	19.0
10	256QAM	25	12	17.75	18.08	18.33	
10	256QAM	25	25	17.79	18.22	18.29	
10	256QAM	50	0	17.77	18.06	18.23	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	21.53	21.82	22.11	23.0
5	QPSK	1	12	21.62	22.04	22.16	
5	QPSK	1	24	21.60	22.04	21.98	
5	QPSK	12	0	21.57	21.76	22.07	23.0
5	QPSK	12	7	21.64	21.90	22.02	
5	QPSK	12	13	21.60	22.03	21.98	
5	QPSK	25	0	21.56	21.83	21.75	
5	16QAM	1	0	21.77	22.03	21.45	23.0
5	16QAM	1	12	21.72	22.08	22.11	
5	16QAM	1	24	21.82	21.96	22.25	
5	16QAM	12	0	20.44	20.92	21.02	22.0
5	16QAM	12	7	20.50	20.94	21.15	
5	16QAM	12	13	20.65	20.86	21.10	
5	16QAM	25	0	20.61	20.83	21.16	
5	64QAM	1	0	20.54	20.70	21.29	22.0
5	64QAM	1	12	20.62	20.92	21.03	
5	64QAM	1	24	20.70	20.93	21.02	
5	64QAM	12	0	19.53	19.72	20.18	21.0
5	64QAM	12	7	19.62	20.00	20.10	
5	64QAM	12	13	19.57	19.92	20.10	
5	64QAM	25	0	19.67	19.91	20.18	
5	256QAM	1	0	17.57	17.83	18.32	19.0
5	256QAM	1	12	17.69	18.09	18.15	
5	256QAM	1	24	17.92	18.22	18.22	
5	256QAM	12	0	17.54	17.84	18.14	19.0
5	256QAM	12	7	17.67	18.00	18.18	
5	256QAM	12	13	17.67	18.07	18.05	
5	256QAM	25	0	17.61	17.91	18.17	

**Band25 Ant1 DSI6**

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	22.58	22.78	22.72	23.5
20	QPSK	1	49	22.58	22.69	22.58	
20	QPSK	1	99	22.46	22.68	22.50	
20	QPSK	50	0	22.00	21.85	22.39	23.0
20	QPSK	50	24	21.95	22.17	22.25	
20	QPSK	50	50	21.86	22.14	22.06	
20	QPSK	100	0	21.97	22.02	22.27	
20	16QAM	1	0	22.13	21.90	22.59	23.0
20	16QAM	1	49	21.90	22.30	22.68	
20	16QAM	1	99	22.11	22.39	22.14	
20	16QAM	50	0	20.96	20.94	21.39	22.0
20	16QAM	50	24	20.90	21.15	21.24	
20	16QAM	50	50	20.87	21.13	21.13	
20	16QAM	100	0	20.98	21.10	21.20	
20	64QAM	1	0	21.07	20.88	21.36	22.0
20	64QAM	1	49	21.00	21.12	21.35	
20	64QAM	1	99	20.87	21.41	20.91	
20	64QAM	50	0	19.97	19.86	20.37	21.0
20	64QAM	50	24	19.93	20.09	20.30	
20	64QAM	50	50	19.85	20.06	20.08	
20	64QAM	100	0	19.98	20.03	20.34	
20	256QAM	1	0	18.26	18.23	18.87	20.0
20	256QAM	1	49	18.21	18.44	18.53	
20	256QAM	1	99	18.27	18.79	18.30	
20	256QAM	50	0	18.25	18.21	18.62	20.0
20	256QAM	50	24	18.21	18.47	18.64	
20	256QAM	50	50	18.19	18.53	18.45	
20	256QAM	100	0	18.24	18.43	18.59	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	22.37	22.30	22.72	23.5
15	QPSK	1	37	22.32	22.46	22.49	
15	QPSK	1	74	22.36	22.65	22.23	
15	QPSK	36	0	22.02	21.93	22.34	23.0
15	QPSK	36	20	21.98	22.09	22.17	
15	QPSK	39	39	21.90	22.26	22.04	
15	QPSK	75	0	21.99	22.03	22.15	
15	16QAM	1	0	22.06	22.13	22.23	23.0
15	16QAM	1	37	21.83	22.10	21.97	
15	16QAM	1	74	22.08	22.39	22.02	
15	16QAM	36	0	21.04	20.93	21.31	22.0
15	16QAM	36	20	21.00	21.08	21.16	
15	16QAM	39	39	20.91	21.27	21.08	
15	16QAM	75	0	20.92	21.05	21.20	
15	64QAM	1	0	21.22	20.94	21.33	22.0
15	64QAM	1	37	20.89	20.88	21.15	
15	64QAM	1	74	20.86	21.29	21.05	
15	64QAM	36	0	19.94	19.92	20.27	21.0
15	64QAM	36	20	19.96	20.10	20.20	
15	64QAM	39	39	19.92	20.28	20.10	
15	64QAM	75	0	19.93	20.06	20.20	
15	256QAM	1	0	18.28	18.38	18.81	20.0
15	256QAM	1	37	18.30	18.49	18.54	
15	256QAM	1	74	18.31	18.67	18.48	
15	256QAM	36	0	18.39	18.33	18.58	20.0
15	256QAM	36	20	18.25	18.45	18.49	
15	256QAM	39	39	18.22	18.52	18.37	
15	256QAM	75	0	18.28	18.38	18.54	

Channel				26090	26340	26640	Tune-up limit
Frequency (MHz)				1855	1880	1910	(dBm)
10	QPSK	1	0	22.34	22.27	22.71	23.5
10	QPSK	1	25	22.33	22.50	22.67	
10	QPSK	1	49	22.26	22.72	22.23	
10	QPSK	25	0	22.17	22.17	22.23	23.0
10	QPSK	25	12	22.19	22.27	22.19	
10	QPSK	25	25	22.11	22.29	22.11	
10	QPSK	50	0	22.16	22.24	22.21	
10	16QAM	1	0	22.29	22.11	22.46	23.0
10	16QAM	1	25	22.23	22.40	22.28	
10	16QAM	1	49	22.07	22.44	22.21	
10	16QAM	25	0	21.14	21.16	21.31	22.0
10	16QAM	25	12	21.12	21.28	21.20	
10	16QAM	25	25	21.17	21.32	21.16	
10	16QAM	50	0	21.14	21.25	21.24	
10	64QAM	1	0	21.22	21.27	21.37	22.0
10	64QAM	1	25	21.10	21.23	21.14	
10	64QAM	1	49	21.07	21.45	21.16	
10	64QAM	25	0	20.16	20.21	20.29	21.0
10	64QAM	25	12	20.15	20.31	20.27	
10	64QAM	25	25	20.05	20.31	20.12	
10	64QAM	50	0	20.17	20.25	20.19	
10	256QAM	1	0	18.65	18.51	18.84	20.0
10	256QAM	1	25	18.51	18.66	18.68	
10	256QAM	1	49	18.46	18.81	18.58	
10	256QAM	25	0	18.52	18.53	18.58	20.0
10	256QAM	25	12	18.49	18.59	18.50	
10	256QAM	25	25	18.38	18.64	18.43	
10	256QAM	50	0	18.51	18.58	18.56	
Channel				26065	26340	26665	Tune-up limit
Frequency (MHz)				1852.5	1880	1912.5	(dBm)
5	QPSK	1	0	22.69	22.57	22.57	23.5
5	QPSK	1	12	22.61	22.73	22.60	
5	QPSK	1	24	22.52	22.70	22.52	
5	QPSK	12	0	22.20	22.19	22.07	23.0
5	QPSK	12	7	22.18	22.21	22.09	
5	QPSK	12	13	22.14	22.27	22.06	
5	QPSK	25	0	22.21	22.30	22.05	
5	16QAM	1	0	22.36	22.51	22.30	23.0
5	16QAM	1	12	22.33	22.50	22.32	
5	16QAM	1	24	22.24	22.42	22.20	
5	16QAM	12	0	21.22	21.18	21.19	22.0
5	16QAM	12	7	21.21	21.25	21.15	
5	16QAM	12	13	21.20	21.34	21.14	
5	16QAM	25	0	21.14	21.32	21.09	
5	64QAM	1	0	21.21	21.07	21.16	22.0
5	64QAM	1	12	21.28	21.25	21.09	
5	64QAM	1	24	21.28	21.41	21.09	
5	64QAM	12	0	20.23	20.25	20.13	21.0
5	64QAM	12	7	20.25	20.24	20.18	
5	64QAM	12	13	20.11	20.38	20.12	
5	64QAM	25	0	20.17	20.22	20.14	
5	256QAM	1	0	18.54	18.44	18.71	20.0
5	256QAM	1	12	18.60	18.71	18.59	
5	256QAM	1	24	18.60	18.57	18.51	
5	256QAM	12	0	18.59	18.51	18.47	20.0
5	256QAM	12	7	18.58	18.67	18.45	
5	256QAM	12	13	18.53	18.57	18.50	
5	256QAM	25	0	18.49	18.56	18.44	
Channel				26055	26340	26675	Tune-up limit
Frequency (MHz)				1851.5	1880	1913.5	(dBm)
3	QPSK	1	0	22.61	22.60	22.45	

3	QPSK	1	8	22.64	22.73	22.54	23.5
3	QPSK	1	14	22.52	22.63	22.43	
3	QPSK	8	0	22.23	22.17	22.06	23.0
3	QPSK	8	4	22.19	22.28	22.11	
3	QPSK	8	7	22.21	22.20	22.02	
3	QPSK	15	0	22.20	22.22	22.02	23.0
3	16QAM	1	0	22.27	22.23	22.07	
3	16QAM	1	8	22.31	22.42	22.45	
3	16QAM	1	14	22.26	22.44	22.07	22.0
3	16QAM	8	0	21.23	21.24	21.05	
3	16QAM	8	4	21.21	21.32	21.19	
3	16QAM	8	7	21.26	21.30	21.10	22.0
3	16QAM	15	0	21.20	21.14	21.05	
3	64QAM	1	0	21.23	21.05	21.18	
3	64QAM	1	8	21.47	21.34	21.18	22.0
3	64QAM	1	14	21.27	21.19	21.18	
3	64QAM	8	0	20.26	20.20	20.09	
3	64QAM	8	4	20.26	20.28	20.17	21.0
3	64QAM	8	7	20.26	20.25	20.06	
3	64QAM	15	0	20.22	20.21	20.09	
3	256QAM	1	0	18.66	18.64	18.54	20.0
3	256QAM	1	8	18.61	18.61	18.50	
3	256QAM	1	14	18.58	18.77	18.41	
3	256QAM	8	0	18.55	18.53	18.39	20.0
3	256QAM	8	4	18.63	18.63	18.39	
3	256QAM	8	7	18.58	18.67	18.39	
3	256QAM	15	0	18.49	18.59	18.40	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	22.66	22.61	22.52	23.5
1.4	QPSK	1	3	22.67	22.67	22.45	
1.4	QPSK	1	5	22.58	22.65	22.40	23.0
1.4	QPSK	3	0	22.68	22.69	22.44	
1.4	QPSK	3	1	22.63	22.70	22.47	
1.4	QPSK	3	3	22.64	22.73	22.49	23.0
1.4	QPSK	6	0	22.18	22.18	22.03	
1.4	16QAM	1	0	22.33	22.20	22.23	
1.4	16QAM	1	3	22.21	22.31	22.22	23.0
1.4	16QAM	1	5	22.20	22.28	22.00	
1.4	16QAM	3	0	22.14	22.15	21.98	
1.4	16QAM	3	1	22.23	22.22	22.13	23.0
1.4	16QAM	3	3	22.29	22.30	22.13	
1.4	16QAM	6	0	21.24	21.17	21.01	
1.4	64QAM	1	0	21.19	21.14	21.26	22.0
1.4	64QAM	1	3	21.37	21.35	21.10	
1.4	64QAM	1	5	21.36	21.40	21.09	
1.4	64QAM	3	0	21.17	21.11	21.04	22.0
1.4	64QAM	3	1	21.29	21.27	21.08	
1.4	64QAM	3	3	21.25	21.20	21.04	
1.4	64QAM	6	0	20.15	20.21	20.06	21.0
1.4	256QAM	1	0	18.46	18.66	18.37	20.0
1.4	256QAM	1	3	18.63	18.74	18.28	
1.4	256QAM	1	5	18.67	18.64	18.61	
1.4	256QAM	3	0	18.63	18.48	18.39	20.0
1.4	256QAM	3	1	18.58	18.61	18.44	
1.4	256QAM	3	3	18.62	18.58	18.37	
1.4	256QAM	6	0	18.54	18.53	18.37	

**Band2 Ant1 DSI6**

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	22.59	22.74	22.50	23.5
20	QPSK	1	49	22.46	22.55	22.56	
20	QPSK	1	99	22.34	22.59	22.71	
20	QPSK	50	0	22.11	22.08	22.66	23.0
20	QPSK	50	24	22.11	22.14	22.67	
20	QPSK	50	50	21.96	22.20	22.17	
20	QPSK	100	0	22.05	22.08	22.35	
20	16QAM	1	0	22.37	22.06	22.44	23.0
20	16QAM	1	49	22.37	22.09	22.32	
20	16QAM	1	99	22.01	22.43	22.17	
20	16QAM	50	0	21.12	21.07	21.39	22.0
20	16QAM	50	24	21.08	21.15	21.41	
20	16QAM	50	50	20.96	21.22	21.17	
20	16QAM	100	0	21.04	21.11	21.30	
20	64QAM	1	0	21.24	21.02	21.33	22.0
20	64QAM	1	49	21.05	21.22	21.40	
20	64QAM	1	99	21.03	21.31	21.16	
20	64QAM	50	0	20.14	20.13	20.34	21.0
20	64QAM	50	24	20.14	20.13	20.45	
20	64QAM	50	50	19.99	20.25	20.13	
20	64QAM	100	0	20.01	20.11	20.32	
20	256QAM	1	0	18.39	18.12	18.46	20.0
20	256QAM	1	49	18.05	18.25	18.47	
20	256QAM	1	99	17.91	18.22	18.14	
20	256QAM	50	0	18.11	18.05	18.38	20.0
20	256QAM	50	24	18.10	18.13	18.39	
20	256QAM	50	50	18.04	18.23	18.18	
20	256QAM	100	0	18.06	18.16	18.36	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	22.65	22.44	22.59	23.5
15	QPSK	1	37	22.49	22.52	22.47	
15	QPSK	1	74	22.43	22.57	22.23	
15	QPSK	36	0	22.17	22.09	22.22	23.0
15	QPSK	36	20	22.15	22.16	22.11	
15	QPSK	39	39	22.06	22.20	21.97	
15	QPSK	75	0	22.10	22.09	22.16	
15	16QAM	1	0	22.27	22.15	22.41	23.0
15	16QAM	1	37	22.25	22.35	22.00	
15	16QAM	1	74	22.19	22.31	21.81	
15	16QAM	36	0	21.18	21.11	21.25	22.0
15	16QAM	36	20	21.07	21.10	21.14	
15	16QAM	39	39	21.09	21.13	20.97	
15	16QAM	75	0	21.11	21.12	21.20	
15	64QAM	1	0	21.36	21.11	21.35	22.0
15	64QAM	1	37	21.00	21.17	21.06	
15	64QAM	1	74	21.27	21.30	20.87	
15	64QAM	36	0	20.24	20.15	20.24	21.0
15	64QAM	36	20	20.10	20.09	20.15	
15	64QAM	39	39	20.10	20.20	19.99	
15	64QAM	75	0	20.13	20.17	20.22	
15	256QAM	1	0	18.22	18.24	18.23	20.0
15	256QAM	1	37	18.18	18.34	18.12	
15	256QAM	1	74	18.25	18.31	18.04	
15	256QAM	36	0	18.22	18.05	18.23	20.0
15	256QAM	36	20	18.10	18.16	18.14	
15	256QAM	39	39	18.07	18.23	17.97	
15	256QAM	75	0	18.09	18.11	18.19	

Channel				18650	18900	19150	Tune-up limit
Frequency (MHz)				1855	1880	1905	(dBm)
10	QPSK	1	0	22.72	22.55	22.66	23.5
10	QPSK	1	25	22.71	22.63	22.61	
10	QPSK	1	49	22.55	22.50	22.35	
10	QPSK	25	0	22.67	22.68	22.22	23.0
10	QPSK	25	12	22.65	22.58	22.12	
10	QPSK	25	25	22.26	22.31	22.06	
10	QPSK	50	0	22.25	22.21	22.17	
10	16QAM	1	0	22.44	22.17	22.48	23.0
10	16QAM	1	25	22.32	22.37	22.30	
10	16QAM	1	49	22.47	22.49	22.10	
10	16QAM	25	0	21.35	21.23	21.20	22.0
10	16QAM	25	12	21.34	21.21	21.20	
10	16QAM	25	25	21.32	21.36	21.08	
10	16QAM	50	0	21.27	21.22	21.19	
10	64QAM	1	0	21.37	21.36	21.38	22.0
10	64QAM	1	25	21.43	21.52	21.22	
10	64QAM	1	49	21.30	21.40	21.10	
10	64QAM	25	0	20.33	20.22	20.30	21.0
10	64QAM	25	12	20.32	20.24	20.21	
10	64QAM	25	25	20.27	20.32	20.08	
10	64QAM	50	0	20.31	20.26	20.21	
10	256QAM	1	0	18.50	18.18	18.35	20.0
10	256QAM	1	25	18.45	18.37	18.32	
10	256QAM	1	49	18.18	18.38	18.05	
10	256QAM	25	0	18.38	18.25	18.28	20.0
10	256QAM	25	12	18.35	18.25	18.20	
10	256QAM	25	25	18.29	18.25	18.05	
10	256QAM	50	0	18.28	18.24	18.26	
Channel				18625	18900	19175	Tune-up limit
Frequency (MHz)				1852.5	1880	1907.5	(dBm)
5	QPSK	1	0	22.72	22.52	22.54	23.5
5	QPSK	1	12	22.63	22.71	22.45	
5	QPSK	1	24	22.52	22.70	22.33	
5	QPSK	12	0	22.68	22.54	22.08	23.0
5	QPSK	12	7	22.60	22.68	22.07	
5	QPSK	12	13	22.28	22.27	21.99	
5	QPSK	25	0	22.31	22.19	22.05	
5	16QAM	1	0	22.36	22.28	22.34	23.0
5	16QAM	1	12	22.63	22.57	22.37	
5	16QAM	1	24	22.51	22.37	22.29	
5	16QAM	12	0	21.35	21.28	21.17	22.0
5	16QAM	12	7	21.45	21.32	21.11	
5	16QAM	12	13	21.33	21.29	21.00	
5	16QAM	25	0	21.36	21.23	21.11	
5	64QAM	1	0	21.36	21.25	21.18	22.0
5	64QAM	1	12	21.40	21.57	21.12	
5	64QAM	1	24	21.30	21.22	21.07	
5	64QAM	12	0	20.40	20.30	20.11	21.0
5	64QAM	12	7	20.36	20.27	20.15	
5	64QAM	12	13	20.34	20.25	20.05	
5	64QAM	25	0	20.38	20.21	20.08	
5	256QAM	1	0	18.46	18.29	18.33	20.0
5	256QAM	1	12	18.62	18.47	18.35	
5	256QAM	1	24	18.25	18.43	18.15	
5	256QAM	12	0	18.43	18.30	18.08	20.0
5	256QAM	12	7	18.41	18.34	18.10	
5	256QAM	12	13	18.42	18.34	18.01	
5	256QAM	25	0	18.34	18.20	18.06	
Channel				18615	18900	19185	Tune-up limit
Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	22.61	22.64	22.42	

3	QPSK	1	8	22.71	22.63	22.43	23.5
3	QPSK	1	14	22.70	22.70	22.37	
3	QPSK	8	0	22.72	22.68	22.04	23.0
3	QPSK	8	4	22.56	22.71	21.95	
3	QPSK	8	7	22.28	22.19	21.99	
3	QPSK	15	0	22.40	22.24	22.01	23.0
3	16QAM	1	0	22.45	22.26	22.20	
3	16QAM	1	8	22.47	22.29	22.18	
3	16QAM	1	14	22.41	22.39	22.01	22.0
3	16QAM	8	0	21.39	21.30	21.04	
3	16QAM	8	4	21.47	21.30	21.12	
3	16QAM	8	7	21.38	21.25	20.98	
3	16QAM	15	0	21.39	21.18	21.06	22.0
3	64QAM	1	0	21.37	21.25	21.21	
3	64QAM	1	8	21.46	21.41	21.21	
3	64QAM	1	14	21.32	21.31	21.00	21.0
3	64QAM	8	0	20.42	20.23	20.06	
3	64QAM	8	4	20.37	20.25	20.10	
3	64QAM	8	7	20.38	20.24	20.03	
3	64QAM	15	0	20.39	20.17	19.97	20.0
3	256QAM	1	0	18.34	18.20	18.12	
3	256QAM	1	8	18.55	18.43	18.07	
3	256QAM	1	14	18.51	18.36	17.81	20.0
3	256QAM	8	0	18.45	18.23	18.08	
3	256QAM	8	4	18.43	18.32	18.02	
3	256QAM	8	7	18.44	18.28	18.06	
3	256QAM	15	0	18.34	18.23	17.99	Tune-up limit (dBm)
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	22.65	22.51	22.41	23.5
1.4	QPSK	1	3	22.61	22.70	22.35	
1.4	QPSK	1	5	22.67	22.53	22.30	23.0
1.4	QPSK	3	0	22.50	22.65	22.32	
1.4	QPSK	3	1	22.71	22.53	22.40	
1.4	QPSK	3	3	22.69	22.66	22.41	
1.4	QPSK	6	0	22.66	22.18	21.96	23.0
1.4	16QAM	1	0	22.69	22.32	22.03	
1.4	16QAM	1	3	22.60	22.50	22.00	
1.4	16QAM	1	5	22.52	22.27	22.05	23.0
1.4	16QAM	3	0	22.31	22.23	22.00	
1.4	16QAM	3	1	22.41	22.33	22.02	
1.4	16QAM	3	3	22.30	22.16	21.99	
1.4	16QAM	6	0	21.39	21.19	20.97	22.0
1.4	64QAM	1	0	21.27	21.32	21.05	
1.4	64QAM	1	3	21.31	21.23	21.06	
1.4	64QAM	1	5	21.44	21.39	21.13	22.0
1.4	64QAM	3	0	21.46	21.34	21.07	
1.4	64QAM	3	1	21.38	21.29	20.98	
1.4	64QAM	3	3	21.37	21.30	21.03	
1.4	64QAM	6	0	20.38	20.20	19.90	21.0
1.4	256QAM	1	0	18.44	18.27	18.15	20.0
1.4	256QAM	1	3	18.51	18.32	18.09	
1.4	256QAM	1	5	18.46	18.33	17.89	
1.4	256QAM	3	0	18.49	18.23	17.96	20.0
1.4	256QAM	3	1	18.38	18.31	18.06	
1.4	256QAM	3	3	18.48	18.28	17.98	
1.4	256QAM	6	0	18.34	18.23	18.00	

**Band66 Ant1 DSI6**

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	22.45	22.88	22.38	23.5
20	QPSK	1	49	22.48	22.54	22.64	
20	QPSK	1	99	22.32	22.79	22.69	
20	QPSK	50	0	22.01	21.99	22.15	23.0
20	QPSK	50	24	21.93	22.12	22.32	
20	QPSK	50	50	21.95	22.11	22.34	
20	QPSK	100	0	21.90	22.03	22.28	
20	16QAM	1	0	22.17	22.16	22.22	23.0
20	16QAM	1	49	22.42	22.45	22.61	
20	16QAM	1	99	22.17	22.40	22.38	
20	16QAM	50	0	20.96	21.11	21.25	22.0
20	16QAM	50	24	20.95	21.12	21.32	
20	16QAM	50	50	20.97	21.14	21.33	
20	16QAM	100	0	20.93	21.01	21.30	
20	64QAM	1	0	21.29	20.95	20.99	22.0
20	64QAM	1	49	21.16	21.26	21.34	
20	64QAM	1	99	21.17	21.46	21.41	
20	64QAM	50	0	19.99	20.05	20.17	21.0
20	64QAM	50	24	19.95	20.23	20.25	
20	64QAM	50	50	19.97	20.15	20.33	
20	64QAM	100	0	19.92	20.08	20.30	
20	256QAM	1	0	18.42	18.33	18.45	20.0
20	256QAM	1	49	18.42	18.53	18.69	
20	256QAM	1	99	18.42	18.54	18.70	
20	256QAM	50	0	18.34	18.40	18.54	20.0
20	256QAM	50	24	18.26	18.51	18.60	
20	256QAM	50	50	18.31	18.54	18.62	
20	256QAM	100	0	18.25	18.50	18.55	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.34	22.38	22.43	23.5
15	QPSK	1	37	22.41	22.54	22.66	
15	QPSK	1	74	22.34	22.66	22.77	
15	QPSK	36	0	22.04	22.08	22.21	23.0
15	QPSK	36	20	21.95	22.04	22.22	
15	QPSK	39	39	21.96	22.08	22.21	
15	QPSK	75	0	21.94	22.09	22.24	
15	16QAM	1	0	22.19	22.44	22.24	23.0
15	16QAM	1	37	22.20	22.32	22.30	
15	16QAM	1	74	22.14	22.37	22.83	
15	16QAM	36	0	21.07	21.07	21.21	22.0
15	16QAM	36	20	20.90	21.04	21.33	
15	16QAM	39	39	20.97	21.06	21.24	
15	16QAM	75	0	20.96	21.05	21.24	
15	64QAM	1	0	21.02	21.10	21.04	22.0
15	64QAM	1	37	21.15	21.14	21.37	
15	64QAM	1	74	21.13	21.23	21.51	
15	64QAM	36	0	20.05	20.08	20.20	21.0
15	64QAM	36	20	19.97	20.00	20.25	
15	64QAM	39	39	19.94	20.18	20.32	
15	64QAM	75	0	19.93	20.04	20.27	
15	256QAM	1	0	18.43	18.30	18.60	20.0
15	256QAM	1	37	18.32	18.38	18.64	
15	256QAM	1	74	18.52	18.57	18.62	
15	256QAM	36	0	18.39	18.41	18.45	20.0
15	256QAM	36	20	18.32	18.38	18.52	
15	256QAM	39	39	18.29	18.50	18.56	
15	256QAM	75	0	18.25	18.42	18.62	



Channel				132022	132322	132622	Tune-up limit
Frequency (MHz)				1715	1745	1775	(dBm)
10	QPSK	1	0	22.57	22.55	22.70	23.5
10	QPSK	1	25	22.61	22.76	22.81	
10	QPSK	1	49	22.57	22.87	22.85	
10	QPSK	25	0	22.21	22.19	22.34	23.0
10	QPSK	25	12	22.17	22.24	22.36	
10	QPSK	25	25	22.01	22.21	22.36	
10	QPSK	50	0	22.12	22.23	22.38	
10	16QAM	1	0	22.29	22.21	22.34	23.0
10	16QAM	1	25	22.35	22.38	22.44	
10	16QAM	1	49	22.21	22.56	22.51	
10	16QAM	25	0	21.17	21.23	21.33	22.0
10	16QAM	25	12	21.15	21.32	21.43	
10	16QAM	25	25	21.05	21.25	21.39	
10	16QAM	50	0	21.17	21.20	21.40	
10	64QAM	1	0	21.21	21.28	21.28	22.0
10	64QAM	1	25	21.25	21.29	21.49	
10	64QAM	1	49	21.25	21.32	21.50	
10	64QAM	25	0	20.12	20.20	20.35	21.0
10	64QAM	25	12	20.11	20.30	20.40	
10	64QAM	25	25	20.09	20.27	20.35	
10	64QAM	50	0	20.13	20.20	20.41	
10	256QAM	1	0	18.68	18.54	18.73	20.0
10	256QAM	1	25	18.72	18.77	18.85	
10	256QAM	1	49	18.56	18.77	18.79	
10	256QAM	25	0	18.55	18.60	18.67	20.0
10	256QAM	25	12	18.47	18.55	18.71	
10	256QAM	25	25	18.42	18.55	18.66	
10	256QAM	50	0	18.36	18.45	18.73	
Channel				131997	132322	132647	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	(dBm)
5	QPSK	1	0	22.54	22.61	22.74	23.5
5	QPSK	1	12	22.61	22.76	22.84	
5	QPSK	1	24	22.57	22.73	22.80	
5	QPSK	12	0	22.14	22.16	22.33	23.0
5	QPSK	12	7	22.22	22.21	22.40	
5	QPSK	12	13	22.17	22.13	22.47	
5	QPSK	25	0	22.13	22.17	22.33	
5	16QAM	1	0	22.36	22.40	22.50	23.0
5	16QAM	1	12	22.35	22.45	22.50	
5	16QAM	1	24	22.44	22.44	22.34	
5	16QAM	12	0	21.21	21.26	21.32	22.0
5	16QAM	12	7	21.28	21.23	21.43	
5	16QAM	12	13	21.22	21.29	21.51	
5	16QAM	25	0	21.16	21.17	21.38	
5	64QAM	1	0	21.33	21.20	21.28	22.0
5	64QAM	1	12	21.20	21.43	21.57	
5	64QAM	1	24	21.19	21.32	21.61	
5	64QAM	12	0	20.17	20.27	20.45	21.0
5	64QAM	12	7	20.23	20.23	20.43	
5	64QAM	12	13	20.19	20.22	20.42	
5	64QAM	25	0	20.18	20.19	20.37	
5	256QAM	1	0	18.46	18.58	18.67	20.0
5	256QAM	1	12	18.72	18.71	18.82	
5	256QAM	1	24	18.60	18.71	18.70	
5	256QAM	12	0	18.51	18.58	18.63	20.0
5	256QAM	12	7	18.52	18.56	18.73	
5	256QAM	12	13	18.53	18.58	18.75	
5	256QAM	25	0	18.47	18.48	18.64	
Channel				131987	132322	132657	Tune-up limit
Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	22.61	22.61	22.73	

3	QPSK	1	8	22.58	22.74	22.85	23.5
3	QPSK	1	14	22.61	22.71	22.76	
3	QPSK	8	0	22.21	22.22	22.36	23.0
3	QPSK	8	4	22.22	22.20	22.40	
3	QPSK	8	7	22.15	22.21	22.38	
3	QPSK	15	0	22.14	22.17	22.35	
3	16QAM	1	0	22.17	22.36	22.50	23.0
3	16QAM	1	8	22.38	22.50	22.54	
3	16QAM	1	14	22.29	22.36	22.46	
3	16QAM	8	0	21.19	21.20	21.38	22.0
3	16QAM	8	4	21.24	21.33	21.45	
3	16QAM	8	7	21.21	21.20	21.41	
3	16QAM	15	0	21.16	21.15	21.40	
3	64QAM	1	0	21.18	21.28	21.53	22.0
3	64QAM	1	8	21.26	21.38	21.39	
3	64QAM	1	14	21.15	21.34	21.40	
3	64QAM	8	0	20.28	20.35	20.41	21.0
3	64QAM	8	4	20.24	20.32	20.46	
3	64QAM	8	7	20.25	20.20	20.44	
3	64QAM	15	0	20.21	20.15	20.39	
3	256QAM	1	0	18.59	18.65	18.77	20.0
3	256QAM	1	8	18.73	18.58	18.61	
3	256QAM	1	14	18.30	18.54	18.65	
3	256QAM	8	0	18.48	18.54	18.65	20.0
3	256QAM	8	4	18.49	18.69	18.75	
3	256QAM	8	7	18.46	18.51	18.66	
3	256QAM	15	0	18.46	18.55	18.68	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.53	22.63	22.77	23.5
1.4	QPSK	1	3	22.66	22.70	22.81	
1.4	QPSK	1	5	22.56	22.52	22.75	23.0
1.4	QPSK	3	0	22.62	22.71	22.83	
1.4	QPSK	3	1	22.66	22.43	22.83	
1.4	QPSK	3	3	22.63	22.67	22.81	
1.4	QPSK	6	0	22.09	22.17	22.31	23.0
1.4	16QAM	1	0	22.13	22.34	22.37	
1.4	16QAM	1	3	22.40	21.91	22.43	
1.4	16QAM	1	5	22.31	22.36	22.33	
1.4	16QAM	3	0	22.22	22.03	22.44	23.0
1.4	16QAM	3	1	22.21	22.28	22.34	
1.4	16QAM	3	3	22.18	22.27	22.46	
1.4	16QAM	6	0	21.20	21.19	21.31	22.0
1.4	64QAM	1	0	21.42	21.27	21.46	
1.4	64QAM	1	3	21.28	21.10	21.46	
1.4	64QAM	1	5	21.20	21.18	21.47	
1.4	64QAM	3	0	21.23	21.18	21.36	22.0
1.4	64QAM	3	1	21.29	21.08	21.38	
1.4	64QAM	3	3	21.07	21.42	21.41	
1.4	64QAM	6	0	20.24	20.19	20.35	21.0
1.4	256QAM	1	0	18.58	18.49	18.60	20.0
1.4	256QAM	1	3	18.62	18.50	18.90	
1.4	256QAM	1	5	18.58	18.54	18.74	
1.4	256QAM	3	0	18.62	18.40	18.65	20.0
1.4	256QAM	3	1	18.49	18.36	18.72	
1.4	256QAM	3	3	18.51	18.50	18.69	
1.4	256QAM	6	0	18.44	18.46	18.64	

**Band4 Ant1 DSI6**

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	22.54	22.81	22.45	23.5
20	QPSK	1	49	22.49	22.52	22.55	
20	QPSK	1	99	22.61	22.67	22.54	
20	QPSK	50	0	22.07	22.01	22.01	23.0
20	QPSK	50	24	22.11	22.08	22.12	
20	QPSK	50	50	22.13	22.12	22.23	
20	QPSK	100	0	22.07	22.05	22.20	
20	16QAM	1	0	22.39	22.17	22.30	23.0
20	16QAM	1	49	22.14	22.09	22.27	
20	16QAM	1	99	22.64	22.33	22.53	
20	16QAM	50	0	21.09	21.00	21.07	22.0
20	16QAM	50	24	21.10	21.07	21.13	
20	16QAM	50	50	21.11	21.04	21.17	
20	16QAM	100	0	21.11	21.06	21.12	
20	64QAM	1	0	21.16	21.15	21.15	22.0
20	64QAM	1	49	21.02	20.97	21.27	
20	64QAM	1	99	21.22	21.24	21.29	
20	64QAM	50	0	20.08	20.02	20.01	21.0
20	64QAM	50	24	20.13	20.07	20.13	
20	64QAM	50	50	20.12	20.12	20.15	
20	64QAM	100	0	20.09	20.04	20.20	
20	256QAM	1	0	18.21	18.17	18.07	20.0
20	256QAM	1	49	18.14	18.11	18.09	
20	256QAM	1	99	18.25	18.26	18.29	
20	256QAM	50	0	18.06	18.07	18.10	20.0
20	256QAM	50	24	18.10	18.12	18.14	
20	256QAM	50	50	18.12	18.10	18.15	
20	256QAM	100	0	18.09	18.11	18.13	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.48	22.37	22.53	23.5
15	QPSK	1	37	22.43	22.47	22.50	
15	QPSK	1	74	22.52	22.51	22.73	
15	QPSK	36	0	22.06	22.06	22.02	23.0
15	QPSK	36	20	22.08	22.11	22.13	
15	QPSK	39	39	22.09	22.06	22.10	
15	QPSK	75	0	22.12	22.09	22.10	
15	16QAM	1	0	22.21	22.07	22.13	23.0
15	16QAM	1	37	22.07	22.37	22.07	
15	16QAM	1	74	22.18	22.14	22.40	
15	16QAM	36	0	21.15	21.05	21.15	22.0
15	16QAM	36	20	21.10	21.03	21.13	
15	16QAM	39	39	21.15	21.07	21.22	
15	16QAM	75	0	21.14	21.03	21.21	
15	64QAM	1	0	21.19	21.12	21.18	22.0
15	64QAM	1	37	21.10	21.07	21.17	
15	64QAM	1	74	21.24	21.03	21.36	
15	64QAM	36	0	20.12	20.09	20.00	21.0
15	64QAM	36	20	20.12	20.01	20.15	
15	64QAM	39	39	20.12	20.11	20.14	
15	64QAM	75	0	20.06	20.14	20.21	
15	256QAM	1	0	18.22	18.19	18.08	20.0
15	256QAM	1	37	18.09	18.12	18.10	
15	256QAM	1	74	18.28	18.20	18.18	
15	256QAM	36	0	18.04	18.15	18.17	20.0
15	256QAM	36	20	18.07	18.09	18.14	
15	256QAM	39	39	18.10	18.13	18.16	
15	256QAM	75	0	18.12	18.07	18.14	

Channel				20000	20175	20350	Tune-up limit
Frequency (MHz)				1715	1732.5	1750	(dBm)
10	QPSK	1	0	22.66	22.56	22.56	23.5
10	QPSK	1	25	22.73	22.72	22.73	
10	QPSK	1	49	22.65	22.58	22.78	
10	QPSK	25	0	22.19	22.24	22.25	23.0
10	QPSK	25	12	22.27	22.20	22.27	
10	QPSK	25	25	22.25	22.19	22.31	
10	QPSK	50	0	22.20	22.12	22.28	23.0
10	16QAM	1	0	22.27	22.25	22.10	
10	16QAM	1	25	22.30	22.21	22.36	
10	16QAM	1	49	22.39	22.27	22.52	22.0
10	16QAM	25	0	21.20	21.24	21.29	
10	16QAM	25	12	21.30	21.21	21.30	
10	16QAM	25	25	21.20	21.19	21.34	22.0
10	16QAM	50	0	21.25	21.20	21.26	
10	64QAM	1	0	21.20	21.26	21.15	
10	64QAM	1	25	21.32	21.30	21.39	22.0
10	64QAM	1	49	21.19	21.54	21.48	
10	64QAM	25	0	20.25	20.26	20.19	
10	64QAM	25	12	20.23	20.22	20.29	21.0
10	64QAM	25	25	20.21	20.20	20.33	
10	64QAM	50	0	20.21	20.23	20.36	
10	256QAM	1	0	18.36	18.38	18.28	20.0
10	256QAM	1	25	18.40	18.34	18.66	
10	256QAM	1	49	18.35	18.20	18.42	
10	256QAM	25	0	18.29	18.22	18.32	20.0
10	256QAM	25	12	18.29	18.18	18.31	
10	256QAM	25	25	18.26	18.27	18.34	
10	256QAM	50	0	18.30	18.19	18.26	
Channel				19975	20175	20375	Tune-up limit
Frequency (MHz)				1712.5	1732.5	1752.5	(dBm)
5	QPSK	1	0	22.61	22.57	22.69	23.5
5	QPSK	1	12	22.71	22.65	22.78	
5	QPSK	1	24	22.55	22.58	22.76	
5	QPSK	12	0	22.22	22.18	22.25	23.0
5	QPSK	12	7	22.25	22.20	22.32	
5	QPSK	12	13	22.21	22.17	22.29	
5	QPSK	25	0	22.30	22.15	22.26	23.0
5	16QAM	1	0	22.37	22.50	22.36	
5	16QAM	1	12	22.39	22.38	22.45	
5	16QAM	1	24	22.37	22.35	22.60	22.0
5	16QAM	12	0	21.24	21.21	21.27	
5	16QAM	12	7	21.31	21.19	21.34	
5	16QAM	12	13	21.27	21.19	21.35	22.0
5	16QAM	25	0	21.25	21.20	21.29	
5	64QAM	1	0	21.37	21.50	21.36	
5	64QAM	1	12	21.42	21.24	21.30	22.0
5	64QAM	1	24	21.24	21.34	21.53	
5	64QAM	12	0	20.26	20.18	20.24	
5	64QAM	12	7	20.31	20.23	20.37	21.0
5	64QAM	12	13	20.23	20.15	20.32	
5	64QAM	25	0	20.25	20.15	20.28	
5	256QAM	1	0	18.22	18.42	18.29	20.0
5	256QAM	1	12	18.47	18.41	18.30	
5	256QAM	1	24	18.38	18.38	18.52	
5	256QAM	12	0	18.24	18.27	18.32	20.0
5	256QAM	12	7	18.25	18.18	18.37	
5	256QAM	12	13	18.26	18.28	18.37	
5	256QAM	25	0	18.32	18.13	18.30	
Channel				19965	20175	20385	Tune-up limit
Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	22.60	22.60	22.67	

3	QPSK	1	8	22.73	22.75	22.79	23.5
3	QPSK	1	14	22.61	22.53	22.69	
3	QPSK	8	0	22.24	22.17	22.30	23.0
3	QPSK	8	4	22.26	22.19	22.33	
3	QPSK	8	7	22.23	22.16	22.31	
3	QPSK	15	0	22.22	22.08	22.29	23.0
3	16QAM	1	0	22.25	22.32	22.40	
3	16QAM	1	8	22.43	22.39	22.64	
3	16QAM	1	14	22.34	22.20	22.45	22.0
3	16QAM	8	0	21.26	21.17	21.32	
3	16QAM	8	4	21.32	21.18	21.31	
3	16QAM	8	7	21.27	21.21	21.32	22.0
3	16QAM	15	0	21.29	21.17	21.29	
3	64QAM	1	0	21.17	21.18	21.17	
3	64QAM	1	8	21.37	21.38	21.49	22.0
3	64QAM	1	14	21.26	21.32	21.38	
3	64QAM	8	0	20.31	20.20	20.35	
3	64QAM	8	4	20.27	20.07	20.39	21.0
3	64QAM	8	7	20.28	20.15	20.32	
3	64QAM	15	0	20.28	20.20	20.33	
3	256QAM	1	0	18.29	18.34	18.36	20.0
3	256QAM	1	8	18.32	18.40	18.45	
3	256QAM	1	14	18.35	18.26	18.43	
3	256QAM	8	0	18.36	18.26	18.45	20.0
3	256QAM	8	4	18.35	18.30	18.42	
3	256QAM	8	7	18.25	18.23	18.42	
3	256QAM	15	0	18.22	18.12	18.36	Tune-up limit (dBm)
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.60	22.64	22.71	23.5
1.4	QPSK	1	3	22.67	22.71	22.76	
1.4	QPSK	1	5	22.64	22.52	22.72	23.0
1.4	QPSK	3	0	22.70	22.63	22.73	
1.4	QPSK	3	1	22.71	22.65	22.78	
1.4	QPSK	3	3	22.68	22.63	22.79	23.0
1.4	QPSK	6	0	22.27	22.03	22.26	
1.4	16QAM	1	0	22.24	22.25	22.31	
1.4	16QAM	1	3	22.29	22.30	22.27	23.0
1.4	16QAM	1	5	22.19	22.15	22.29	
1.4	16QAM	3	0	22.16	22.21	22.19	
1.4	16QAM	3	1	22.30	22.31	22.34	23.0
1.4	16QAM	3	3	22.26	22.20	22.32	
1.4	16QAM	6	0	21.22	21.10	21.34	
1.4	64QAM	1	0	21.38	21.34	21.38	22.0
1.4	64QAM	1	3	21.40	21.16	21.38	
1.4	64QAM	1	5	21.33	21.39	21.28	
1.4	64QAM	3	0	21.21	21.22	21.33	22.0
1.4	64QAM	3	1	21.36	21.31	21.26	
1.4	64QAM	3	3	21.30	21.15	21.42	
1.4	64QAM	6	0	20.23	20.16	20.33	21.0
1.4	256QAM	1	0	18.29	18.28	18.42	20.0
1.4	256QAM	1	3	18.44	18.47	18.45	
1.4	256QAM	1	5	18.20	18.23	18.26	
1.4	256QAM	3	0	18.25	18.27	18.24	20.0
1.4	256QAM	3	1	18.28	18.29	18.32	
1.4	256QAM	3	3	18.33	18.09	18.31	
1.4	256QAM	6	0	18.18	18.24	18.36	

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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				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	16.82	17.35	17.03	18.0
20	QPSK	1	49	17.07	16.63	16.24	
20	QPSK	1	99	16.66	16.94	16.01	
20	QPSK	50	0	17.04	16.66	16.72	18.0
20	QPSK	50	24	17.01	16.59	16.25	
20	QPSK	50	50	16.94	16.77	16.05	
20	QPSK	100	0	16.99	16.71	16.39	
20	16QAM	1	0	16.88	16.76	17.17	18.0
20	16QAM	1	49	16.49	16.75	16.20	
20	16QAM	1	99	16.90	17.09	16.05	
20	16QAM	50	0	16.96	16.58	16.62	18.0
20	16QAM	50	24	16.94	16.52	16.15	
20	16QAM	50	50	16.88	16.72	15.97	
20	16QAM	100	0	16.89	16.62	16.30	
20	64QAM	1	0	16.87	16.62	17.03	18.0
20	64QAM	1	49	17.06	16.44	16.27	
20	64QAM	1	99	16.67	16.91	15.99	
20	64QAM	50	0	17.01	16.62	16.69	18.0
20	64QAM	50	24	17.01	16.57	16.25	
20	64QAM	50	50	16.93	16.76	16.03	
20	64QAM	100	0	16.96	16.68	16.37	
20	256QAM	1	0	15.32	14.99	15.43	16.0
20	256QAM	1	49	15.27	14.71	14.42	
20	256QAM	1	99	15.06	15.44	14.42	
20	256QAM	50	0	15.11	14.67	14.77	16.0
20	256QAM	50	24	15.08	14.60	14.28	
20	256QAM	50	50	15.02	14.79	14.10	
20	256QAM	100	0	15.05	14.73	14.45	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	16.87	16.58	16.50	18.0
15	QPSK	1	37	17.07	16.56	15.97	
15	QPSK	1	74	17.09	16.82	15.82	
15	QPSK	36	0	16.91	16.55	16.18	18.0
15	QPSK	36	20	16.99	16.49	15.87	
15	QPSK	39	39	16.99	16.62	15.80	
15	QPSK	75	0	16.95	16.58	15.98	
15	16QAM	1	0	17.02	16.62	16.53	18.0
15	16QAM	1	37	17.18	16.71	16.06	
15	16QAM	1	74	17.26	16.96	15.97	
15	16QAM	36	0	16.81	16.48	16.07	18.0
15	16QAM	36	20	16.90	16.38	15.80	
15	16QAM	39	39	16.92	16.52	15.73	
15	16QAM	75	0	16.86	16.49	15.91	
15	64QAM	1	0	16.66	16.52	16.44	18.0
15	64QAM	1	37	17.12	16.51	15.83	
15	64QAM	1	74	17.12	16.71	15.75	
15	64QAM	36	0	16.85	16.53	16.13	18.0
15	64QAM	36	20	16.96	16.46	15.85	
15	64QAM	39	39	16.97	16.61	15.78	
15	64QAM	75	0	16.94	16.56	15.97	
15	256QAM	1	0	14.95	14.87	14.80	16.0
15	256QAM	1	37	15.31	14.72	14.09	
15	256QAM	1	74	15.26	15.25	14.09	
15	256QAM	36	0	14.96	14.57	14.24	16.0
15	256QAM	36	20	15.05	14.55	13.94	
15	256QAM	39	39	15.06	14.66	13.86	
15	256QAM	75	0	15.00	14.63	14.04	

Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	16.91	16.85	16.07	18.0
10	QPSK	1	25	17.10	16.58	15.91	
10	QPSK	1	49	17.32	16.93	15.87	
10	QPSK	25	0	16.95	16.63	15.95	18.0
10	QPSK	25	12	17.04	16.59	15.86	
10	QPSK	25	25	17.13	16.59	15.87	
10	QPSK	50	0	17.01	16.60	15.90	18.0
10	16QAM	1	0	17.04	16.92	16.07	
10	16QAM	1	25	17.18	16.66	15.94	
10	16QAM	1	49	17.28	17.02	16.06	18.0
10	16QAM	25	0	16.86	16.51	15.86	
10	16QAM	25	12	16.93	16.46	15.82	
10	16QAM	25	25	17.04	16.50	15.78	18.0
10	16QAM	50	0	16.91	16.49	15.82	
10	64QAM	1	0	16.93	16.85	16.05	
10	64QAM	1	25	17.03	16.56	15.83	18.0
10	64QAM	1	49	17.29	16.91	15.87	
10	64QAM	25	0	16.87	16.59	15.95	
10	64QAM	25	12	16.99	16.51	15.85	18.0
10	64QAM	25	25	17.10	16.57	15.86	
10	64QAM	50	0	17.00	16.57	15.89	
10	256QAM	1	0	14.93	14.90	14.22	16.0
10	256QAM	1	25	15.17	14.72	14.12	
10	256QAM	1	49	15.48	15.01	14.23	
10	256QAM	25	0	14.98	14.67	14.01	16.0
10	256QAM	25	12	15.04	14.62	13.93	
10	256QAM	25	25	15.17	14.63	13.93	
10	256QAM	50	0	15.08	14.65	13.98	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	16.68	16.65	15.96	18.0
5	QPSK	1	12	16.97	16.62	15.96	
5	QPSK	1	24	17.04	16.43	15.82	
5	QPSK	12	0	16.75	16.60	15.89	18.0
5	QPSK	12	7	16.91	16.60	15.88	
5	QPSK	12	13	16.94	16.51	15.81	
5	QPSK	25	0	16.84	16.53	15.83	18.0
5	16QAM	1	0	16.79	16.71	16.05	
5	16QAM	1	12	17.06	16.76	16.09	
5	16QAM	1	24	17.22	16.63	16.07	18.0
5	16QAM	12	0	16.70	16.52	15.84	
5	16QAM	12	7	16.85	16.55	15.82	
5	16QAM	12	13	16.87	16.48	15.77	18.0
5	16QAM	25	0	16.77	16.49	15.77	
5	64QAM	1	0	16.63	16.60	15.84	
5	64QAM	1	12	16.94	16.70	15.84	18.0
5	64QAM	1	24	17.03	16.24	15.75	
5	64QAM	12	0	16.77	16.62	15.84	
5	64QAM	12	7	16.92	16.60	15.88	18.0
5	64QAM	12	13	16.93	16.49	15.81	
5	64QAM	25	0	16.83	16.54	15.82	
5	256QAM	1	0	14.67	14.77	13.98	16.0
5	256QAM	1	12	15.02	14.74	14.19	
5	256QAM	1	24	15.20	14.65	14.03	
5	256QAM	12	0	14.83	14.67	13.95	16.0
5	256QAM	12	7	14.97	14.68	13.93	
5	256QAM	12	13	15.03	14.57	13.87	
5	256QAM	25	0	14.95	14.62	13.90	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	16.65	16.65	15.90	

3	QPSK	1	8	16.89	16.63	15.92	18.0
3	QPSK	1	14	16.93	16.51	15.76	
3	QPSK	8	0	16.70	16.56	15.81	18.0
3	QPSK	8	4	16.83	16.55	15.82	
3	QPSK	8	7	16.86	16.49	15.78	
3	QPSK	15	0	16.76	16.55	15.79	
3	16QAM	1	0	16.70	16.69	15.92	18.0
3	16QAM	1	8	16.93	16.58	15.95	
3	16QAM	1	14	16.97	16.70	15.95	
3	16QAM	8	0	16.66	16.47	15.77	18.0
3	16QAM	8	4	16.82	16.49	15.76	
3	16QAM	8	7	16.80	16.41	15.76	
3	16QAM	15	0	16.69	16.44	15.71	
3	64QAM	1	0	16.56	16.57	15.82	18.0
3	64QAM	1	8	16.78	16.64	15.69	
3	64QAM	1	14	16.88	16.38	15.84	
3	64QAM	8	0	16.67	16.59	15.81	18.0
3	64QAM	8	4	16.84	16.61	15.85	
3	64QAM	8	7	16.82	16.55	15.81	
3	64QAM	15	0	16.75	16.51	15.79	
3	256QAM	1	0	14.67	14.69	14.09	16.0
3	256QAM	1	8	15.00	14.76	14.06	
3	256QAM	1	14	15.06	14.51	13.95	
3	256QAM	8	0	14.73	14.64	13.87	16.0
3	256QAM	8	4	14.91	14.60	13.91	
3	256QAM	8	7	14.90	14.60	13.85	
3	256QAM	15	0	14.79	14.62	13.88	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	16.66	16.62	15.90	18.0
1.4	QPSK	1	3	16.77	16.59	15.85	
1.4	QPSK	1	5	16.75	16.54	15.80	
1.4	QPSK	3	0	16.68	16.59	15.87	18.0
1.4	QPSK	3	1	16.71	16.58	15.87	
1.4	QPSK	3	3	16.76	16.56	15.82	
1.4	QPSK	6	0	16.65	16.50	15.78	
1.4	16QAM	1	0	16.67	16.65	15.92	18.0
1.4	16QAM	1	3	16.80	16.64	15.88	
1.4	16QAM	1	5	16.80	16.65	15.90	
1.4	16QAM	3	0	16.71	16.59	15.79	18.0
1.4	16QAM	3	1	16.70	16.52	15.93	
1.4	16QAM	3	3	16.75	16.52	15.84	
1.4	16QAM	6	0	16.57	16.45	15.71	
1.4	64QAM	1	0	16.54	16.64	15.83	18.0
1.4	64QAM	1	3	16.73	16.60	15.94	
1.4	64QAM	1	5	16.83	16.56	15.76	
1.4	64QAM	3	0	16.58	16.56	15.73	18.0
1.4	64QAM	3	1	16.61	16.55	15.78	
1.4	64QAM	3	3	16.65	16.47	15.72	
1.4	64QAM	6	0	16.61	16.55	15.75	
1.4	256QAM	1	0	14.67	14.70	14.06	16.0
1.4	256QAM	1	3	14.94	14.68	14.00	
1.4	256QAM	1	5	14.90	14.77	13.95	
1.4	256QAM	3	0	14.76	14.67	14.02	16.0
1.4	256QAM	3	1	14.82	14.61	13.91	
1.4	256QAM	3	3	14.89	14.68	13.93	
1.4	256QAM	6	0	14.73	14.64	13.82	



**Band4 Ant4 DSI6**

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	21.14	21.43	21.17	21.5
20	QPSK	1	49	21.02	21.15	21.20	
20	QPSK	1	99	21.09	21.24	21.40	
20	QPSK	50	0	20.38	20.17	20.39	21.0
20	QPSK	50	24	20.30	20.25	20.48	
20	QPSK	50	50	20.29	20.40	20.45	
20	QPSK	100	0	20.30	20.28	20.45	
20	16QAM	1	0	20.72	20.55	20.58	21.5
20	16QAM	1	49	20.47	20.40	20.71	
20	16QAM	1	99	20.55	20.61	20.92	
20	16QAM	50	0	19.34	19.16	19.40	21.0
20	16QAM	50	24	19.29	19.28	19.41	
20	16QAM	50	50	19.29	19.42	19.47	
20	16QAM	100	0	19.30	19.30	19.40	
20	64QAM	1	0	19.62	19.01	19.34	21.0
20	64QAM	1	49	19.09	19.43	19.46	
20	64QAM	1	99	19.40	19.51	19.62	
20	64QAM	50	0	18.38	18.07	18.39	20.0
20	64QAM	50	24	18.29	18.35	18.54	
20	64QAM	50	50	18.27	18.42	18.39	
20	64QAM	100	0	18.21	18.30	18.41	
20	256QAM	1	0	16.55	16.04	16.25	18.0
20	256QAM	1	49	16.31	16.31	16.45	
20	256QAM	1	99	16.36	16.26	16.58	
20	256QAM	50	0	16.33	16.18	16.37	18.0
20	256QAM	50	24	16.22	16.36	16.45	
20	256QAM	50	50	16.22	16.43	16.43	
20	256QAM	100	0	16.27	16.28	16.52	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	21.23	20.85	21.21	21.5
15	QPSK	1	37	21.07	21.28	21.21	
15	QPSK	1	74	21.06	21.22	21.39	
15	QPSK	36	0	20.34	20.30	20.42	21.0
15	QPSK	36	20	20.34	20.29	20.45	
15	QPSK	39	39	20.24	20.32	20.39	
15	QPSK	75	0	20.30	20.28	20.49	
15	16QAM	1	0	20.60	20.16	20.52	21.5
15	16QAM	1	37	20.31	20.53	20.62	
15	16QAM	1	74	20.45	20.72	20.73	
15	16QAM	36	0	19.43	19.29	19.48	21.0
15	16QAM	36	20	19.31	19.31	19.44	
15	16QAM	39	39	19.31	19.43	19.48	
15	16QAM	75	0	19.32	19.30	19.49	
15	64QAM	1	0	19.39	19.30	19.32	21.0
15	64QAM	1	37	19.34	19.53	19.52	
15	64QAM	1	74	19.26	19.66	19.67	
15	64QAM	36	0	18.39	18.29	18.42	20.0
15	64QAM	36	20	18.29	18.33	18.46	
15	64QAM	39	39	18.26	18.37	18.41	
15	64QAM	75	0	18.28	18.37	18.41	
15	256QAM	1	0	16.41	16.14	16.54	18.0
15	256QAM	1	37	16.25	16.25	16.49	
15	256QAM	1	74	16.33	16.47	16.73	
15	256QAM	36	0	16.39	16.34	16.40	18.0
15	256QAM	36	20	16.29	16.37	16.44	
15	256QAM	39	39	16.30	16.39	16.49	
15	256QAM	75	0	16.34	16.35	16.48	

Channel				20000	20175	20350	Tune-up limit
Frequency (MHz)				1715	1732.5	1750	(dBm)
10	QPSK	1	0	21.41	21.12	21.29	21.5
10	QPSK	1	25	21.32	21.33	21.35	
10	QPSK	1	49	21.19	21.38	21.45	
10	QPSK	25	0	20.57	20.44	20.51	21.0
10	QPSK	25	12	20.63	20.38	20.66	
10	QPSK	25	25	20.53	20.47	20.61	
10	QPSK	50	0	20.52	20.45	20.59	
10	16QAM	1	0	20.66	20.28	20.74	21.5
10	16QAM	1	25	20.64	20.53	20.65	
10	16QAM	1	49	20.46	20.68	20.75	
10	16QAM	25	0	19.59	19.45	19.51	21.0
10	16QAM	25	12	19.57	19.42	19.59	
10	16QAM	25	25	19.57	19.50	19.62	
10	16QAM	50	0	19.57	19.41	19.62	
10	64QAM	1	0	19.82	19.41	19.52	21.0
10	64QAM	1	25	19.61	19.71	19.73	
10	64QAM	1	49	19.37	19.78	19.72	
10	64QAM	25	0	18.64	18.48	18.54	20.0
10	64QAM	25	12	18.58	18.51	18.62	
10	64QAM	25	25	18.53	18.54	18.68	
10	64QAM	50	0	18.60	18.44	18.55	
10	256QAM	1	0	16.65	16.46	16.53	18.0
10	256QAM	1	25	16.67	16.65	16.71	
10	256QAM	1	49	16.56	16.68	16.72	
10	256QAM	25	0	16.63	16.39	16.57	18.0
10	256QAM	25	12	16.57	16.43	16.53	
10	256QAM	25	25	16.52	16.53	16.61	
10	256QAM	50	0	16.58	16.45	16.59	
Channel				19975	20175	20375	Tune-up limit
Frequency (MHz)				1712.5	1732.5	1752.5	(dBm)
5	QPSK	1	0	21.43	21.26	21.33	21.5
5	QPSK	1	12	21.34	21.34	21.38	
5	QPSK	1	24	21.33	21.31	21.44	
5	QPSK	12	0	20.61	20.47	20.57	21.0
5	QPSK	12	7	20.60	20.40	20.55	
5	QPSK	12	13	20.51	20.42	20.63	
5	QPSK	25	0	20.54	20.44	20.58	
5	16QAM	1	0	20.74	20.68	20.70	21.5
5	16QAM	1	12	20.88	20.51	20.72	
5	16QAM	1	24	20.67	20.78	20.72	
5	16QAM	12	0	19.56	19.48	19.59	21.0
5	16QAM	12	7	19.66	19.51	19.70	
5	16QAM	12	13	19.60	19.57	19.65	
5	16QAM	25	0	19.60	19.37	19.58	
5	64QAM	1	0	19.53	19.51	19.51	21.0
5	64QAM	1	12	19.78	19.65	19.71	
5	64QAM	1	24	19.54	19.59	19.66	
5	64QAM	12	0	18.61	18.49	18.60	20.0
5	64QAM	12	7	18.62	18.45	18.56	
5	64QAM	12	13	18.55	18.38	18.71	
5	64QAM	25	0	18.55	18.42	18.54	
5	256QAM	1	0	16.64	16.53	16.61	18.0
5	256QAM	1	12	16.76	16.69	16.79	
5	256QAM	1	24	16.69	16.66	16.67	
5	256QAM	12	0	16.55	16.49	16.57	18.0
5	256QAM	12	7	16.61	16.47	16.66	
5	256QAM	12	13	16.58	16.47	16.63	
5	256QAM	25	0	16.62	16.51	16.56	
Channel				19965	20175	20385	Tune-up limit
Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	21.38	21.20	21.38	

3	QPSK	1	8	21.42	21.41	21.33	21.5
3	QPSK	1	14	21.38	21.27	21.40	
3	QPSK	8	0	20.62	20.46	20.57	21.0
3	QPSK	8	4	20.58	20.45	20.60	
3	QPSK	8	7	20.57	20.45	20.59	
3	QPSK	15	0	20.63	20.34	20.57	21.5
3	16QAM	1	0	20.68	20.65	20.74	
3	16QAM	1	8	20.78	20.57	20.84	
3	16QAM	1	14	20.64	20.63	20.74	21.0
3	16QAM	8	0	19.66	19.52	19.63	
3	16QAM	8	4	19.62	19.40	19.64	
3	16QAM	8	7	19.66	19.38	19.59	21.0
3	16QAM	15	0	19.59	19.47	19.60	
3	64QAM	1	0	19.56	19.58	19.68	
3	64QAM	1	8	19.76	19.50	19.68	21.0
3	64QAM	1	14	19.68	19.54	19.65	
3	64QAM	8	0	18.63	18.50	18.58	
3	64QAM	8	4	18.59	18.47	18.70	20.0
3	64QAM	8	7	18.65	18.50	18.67	
3	64QAM	15	0	18.64	18.39	18.64	
3	256QAM	1	0	16.70	16.54	16.65	18.0
3	256QAM	1	8	16.81	16.57	16.69	
3	256QAM	1	14	16.69	16.61	16.75	
3	256QAM	8	0	16.64	16.53	16.66	18.0
3	256QAM	8	4	16.63	16.56	16.67	
3	256QAM	8	7	16.67	16.54	16.69	
3	256QAM	15	0	16.58	16.41	16.66	Tune-up limit (dBm)
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	21.42	21.20	21.44	21.5
1.4	QPSK	1	3	21.46	21.28	21.41	
1.4	QPSK	1	5	21.37	21.30	21.33	21.5
1.4	QPSK	3	0	21.43	21.30	21.42	
1.4	QPSK	3	1	21.44	21.31	21.40	
1.4	QPSK	3	3	21.44	21.37	21.41	21.0
1.4	QPSK	6	0	20.57	20.41	20.61	
1.4	16QAM	1	0	20.69	20.47	20.55	
1.4	16QAM	1	3	20.68	20.58	20.61	21.0
1.4	16QAM	1	5	20.72	20.51	20.69	
1.4	16QAM	3	0	20.49	20.54	20.61	
1.4	16QAM	3	1	20.62	20.51	20.50	21.0
1.4	16QAM	3	3	20.56	20.46	20.66	
1.4	16QAM	6	0	19.64	19.44	19.57	
1.4	64QAM	1	0	19.60	19.53	19.70	21.0
1.4	64QAM	1	3	19.69	19.66	19.67	
1.4	64QAM	1	5	19.57	19.42	19.64	
1.4	64QAM	3	0	19.70	19.45	19.60	20.0
1.4	64QAM	3	1	19.49	19.46	19.62	
1.4	64QAM	3	3	19.63	19.53	19.64	
1.4	64QAM	6	0	18.68	18.43	18.64	18.0
1.4	256QAM	1	0	16.70	16.55	16.73	
1.4	256QAM	1	3	16.61	16.49	16.75	
1.4	256QAM	1	5	16.72	16.50	16.70	18.0
1.4	256QAM	3	0	16.66	16.44	16.64	
1.4	256QAM	3	1	16.67	16.47	16.60	
1.4	256QAM	3	3	16.68	16.38	16.63	18.0
1.4	256QAM	6	0	16.62	16.41	16.60	

**Band7 Ant4 DSI6**

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	19.75	19.79	19.75	
20	QPSK	1	49	19.76	19.77	19.71	13.0
20	QPSK	1	99	12.19	12.25	12.20	20.0
20	QPSK	50	0	19.65	19.66	19.73	
20	QPSK	50	24	19.60	19.74	19.71	
20	QPSK	50	50	18.48	18.67	18.66	
20	QPSK	100	0	19.72	19.19	19.64	20.0
20	16QAM	1	0	19.77	19.43	19.60	
20	16QAM	1	49	19.64	19.55	19.62	13.0
20	16QAM	1	99	12.17	11.92	12.15	20.0
20	16QAM	50	0	19.67	19.49	19.68	
20	16QAM	50	24	19.65	19.61	19.73	20.0
20	16QAM	50	50	18.59	18.63	18.52	
20	16QAM	100	0	19.68	19.11	19.71	20.0
20	64QAM	1	0	19.74	19.72	19.69	
20	64QAM	1	49	19.70	19.76	19.73	13.0
20	64QAM	1	99	12.15	12.31	12.16	20.0
20	64QAM	50	0	18.45	18.61	18.43	
20	64QAM	50	24	18.41	18.71	18.61	
20	64QAM	50	50	17.62	17.70	17.65	
20	64QAM	100	0	18.42	18.18	18.69	17.0
20	256QAM	1	0	16.42	16.57	16.51	
20	256QAM	1	49	16.44	16.73	16.48	10.0
20	256QAM	1	99	9.08	9.06	9.04	17.0
20	256QAM	50	0	16.42	16.65	16.43	
20	256QAM	50	24	16.56	16.67	16.46	
20	256QAM	50	50	15.75	15.71	15.75	
20	256QAM	100	0	16.52	16.21	16.49	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	19.60	19.62	19.64	
15	QPSK	1	37	19.61	19.71	19.67	13.0
15	QPSK	1	74	12.18	12.23	12.15	20.0
15	QPSK	36	0	19.61	19.63	19.76	
15	QPSK	36	20	19.65	19.68	19.66	
15	QPSK	39	39	18.46	18.55	18.43	
15	QPSK	75	0	19.63	19.76	19.64	20.0
15	16QAM	1	0	19.60	19.64	19.63	
15	16QAM	1	37	19.77	19.62	19.70	13.0
15	16QAM	1	74	12.10	12.22	12.24	20.0
15	16QAM	36	0	19.76	19.67	19.77	
15	16QAM	36	20	19.66	19.76	19.70	20.0
15	16QAM	39	39	18.42	18.69	18.68	
15	16QAM	75	0	19.75	19.64	19.73	20.0
15	64QAM	1	0	19.77	19.63	19.63	
15	64QAM	1	37	19.67	19.63	19.75	13.0
15	64QAM	1	74	12.23	12.19	12.16	20.0
15	64QAM	36	0	18.44	18.51	18.47	
15	64QAM	36	20	18.41	18.48	18.46	
15	64QAM	39	39	17.66	17.65	17.62	
15	64QAM	75	0	18.64	18.57	18.46	17.0
15	256QAM	1	0	16.46	16.51	16.46	
15	256QAM	1	37	16.52	16.44	16.50	10.0
15	256QAM	1	74	9.10	9.07	9.04	17.0
15	256QAM	36	0	16.45	16.43	16.52	
15	256QAM	36	20	16.40	16.46	16.47	
15	256QAM	39	39	15.74	15.51	15.49	
15	256QAM	75	0	16.40	16.42	16.41	

Channel				20800	21100	21400	Tune-up limit
Frequency (MHz)				2505	2535	2565	(dBm)
10	QPSK	1	0	19.70	19.60	19.67	20.5
10	QPSK	1	25	19.62	19.66	19.72	
10	QPSK	1	49	12.11	12.15	12.15	13.0
10	QPSK	25	0	19.62	19.75	19.74	20.0
10	QPSK	25	12	19.61	19.64	19.68	
10	QPSK	25	25	18.63	18.57	18.61	
10	QPSK	50	0	19.76	19.75	19.74	
10	16QAM	1	0	19.61	19.69	19.69	20.0
10	16QAM	1	25	19.74	19.72	19.72	
10	16QAM	1	49	12.24	12.19	12.11	13.0
10	16QAM	25	0	19.73	19.63	19.66	20.0
10	16QAM	25	12	19.71	19.65	19.68	
10	16QAM	25	25	18.40	18.47	18.60	20.0
10	16QAM	50	0	19.64	19.62	19.72	
10	64QAM	1	0	19.64	19.74	19.71	20.0
10	64QAM	1	25	19.61	19.72	19.64	
10	64QAM	1	49	12.17	12.12	12.10	13.0
10	64QAM	25	0	18.50	18.69	18.64	20.0
10	64QAM	25	12	18.54	18.67	18.48	
10	64QAM	25	25	17.68	17.64	17.70	
10	64QAM	50	0	18.63	18.63	18.43	
10	256QAM	1	0	16.51	16.53	16.50	17.0
10	256QAM	1	25	16.55	16.54	16.49	
10	256QAM	1	49	9.05	9.06	9.09	10.0
10	256QAM	25	0	16.52	16.43	16.56	17.0
10	256QAM	25	12	16.50	16.41	16.52	
10	256QAM	25	25	15.69	15.54	15.51	
10	256QAM	50	0	16.48	16.45	16.49	
Channel				20775	21100	21425	Tune-up limit
Frequency (MHz)				2502.5	2535	2567.5	(dBm)
5	QPSK	1	0	19.61	19.62	19.68	20.5
5	QPSK	1	12	19.64	19.61	19.60	
5	QPSK	1	24	12.21	12.24	12.15	13.0
5	QPSK	12	0	19.70	19.74	19.71	20.0
5	QPSK	12	7	19.61	19.68	19.68	
5	QPSK	12	13	18.40	18.60	18.70	
5	QPSK	25	0	19.76	19.61	19.72	
5	16QAM	1	0	19.71	19.60	19.66	20.0
5	16QAM	1	12	19.72	19.77	19.71	
5	16QAM	1	24	12.19	12.16	12.14	13.0
5	16QAM	12	0	19.74	19.72	19.67	20.0
5	16QAM	12	7	19.77	19.67	19.71	
5	16QAM	12	13	18.55	18.40	18.64	20.0
5	16QAM	25	0	19.64	19.62	19.68	
5	64QAM	1	0	19.74	19.73	19.67	20.0
5	64QAM	1	12	19.67	19.70	19.60	
5	64QAM	1	24	12.17	12.21	12.23	13.0
5	64QAM	12	0	18.55	18.68	18.48	20.0
5	64QAM	12	7	18.64	18.44	18.56	
5	64QAM	12	13	17.66	17.61	17.69	
5	64QAM	25	0	18.53	18.58	18.55	
5	256QAM	1	0	16.48	16.43	16.55	17.0
5	256QAM	1	12	16.42	16.56	16.41	
5	256QAM	1	24	9.10	9.04	9.00	10.0
5	256QAM	12	0	16.54	16.48	16.48	17.0
5	256QAM	12	7	16.51	16.40	16.47	
5	256QAM	12	13	15.56	15.40	15.41	
5	256QAM	25	0	16.46	16.47	16.52	

**Band25 Ant4 DSI6**

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	17.08	17.59	16.84	18.0
20	QPSK	1	49	17.29	16.96	16.28	
20	QPSK	1	99	16.93	17.29	15.20	
20	QPSK	50	0	17.24	16.95	16.40	18.0
20	QPSK	50	24	17.26	17.10	16.29	
20	QPSK	50	50	17.11	17.27	16.07	
20	QPSK	100	0	17.26	17.17	16.32	
20	16QAM	1	0	17.25	17.04	16.96	18.0
20	16QAM	1	49	17.46	16.98	16.44	
20	16QAM	1	99	17.14	17.39	15.34	
20	16QAM	50	0	17.30	16.93	16.40	18.0
20	16QAM	50	24	17.32	17.11	16.29	
20	16QAM	50	50	17.19	17.27	16.10	
20	16QAM	100	0	17.32	17.19	16.32	
20	64QAM	1	0	17.25	17.01	16.79	18.0
20	64QAM	1	49	17.47	16.99	16.19	
20	64QAM	1	99	17.03	17.43	15.11	
20	64QAM	50	0	17.33	16.88	16.34	18.0
20	64QAM	50	24	17.33	17.05	16.25	
20	64QAM	50	50	17.18	17.21	16.05	
20	64QAM	100	0	17.32	17.12	16.29	
20	256QAM	1	0	15.86	15.49	15.62	16.0
20	256QAM	1	49	15.87	15.26	14.53	
20	256QAM	1	99	15.74	15.86	13.79	
20	256QAM	50	0	15.63	15.28	14.77	16.0
20	256QAM	50	24	15.63	15.37	14.59	
20	256QAM	50	50	15.56	15.59	14.43	
20	256QAM	100	0	15.61	15.43	14.62	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	17.25	16.89	16.30	18.0
15	QPSK	1	37	17.35	16.88	16.32	
15	QPSK	1	74	17.37	17.27	15.02	
15	QPSK	36	0	17.22	16.90	16.25	18.0
15	QPSK	36	20	17.27	16.97	16.20	
15	QPSK	39	39	17.28	17.19	15.89	
15	QPSK	75	0	17.24	17.02	16.06	
15	16QAM	1	0	17.33	16.93	16.24	18.0
15	16QAM	1	37	17.31	17.00	16.43	
15	16QAM	1	74	17.51	17.33	15.14	
15	16QAM	36	0	17.18	16.89	16.25	18.0
15	16QAM	36	20	17.28	16.97	16.21	
15	16QAM	39	39	17.28	17.20	15.89	
15	16QAM	75	0	17.24	17.05	16.07	
15	64QAM	1	0	17.11	16.97	16.30	18.0
15	64QAM	1	37	17.27	16.89	16.41	
15	64QAM	1	74	17.39	17.35	15.13	
15	64QAM	36	0	17.14	16.86	16.16	18.0
15	64QAM	36	20	17.22	16.93	16.15	
15	64QAM	39	39	17.23	17.14	15.86	
15	64QAM	75	0	17.19	17.01	16.05	
15	256QAM	1	0	15.59	15.39	14.84	16.0
15	256QAM	1	37	15.78	15.07	14.75	
15	256QAM	1	74	15.88	15.81	13.44	
15	256QAM	36	0	15.49	15.17	14.50	16.0
15	256QAM	36	20	15.54	15.26	14.49	
15	256QAM	39	39	15.56	15.48	14.18	
15	256QAM	75	0	15.52	15.31	14.37	

Channel				26090	26340	26640	Tune-up limit
Frequency (MHz)				1855	1880	1910	(dBm)
10	QPSK	1	0	17.24	17.18	16.27	18.0
10	QPSK	1	25	17.31	16.92	16.23	
10	QPSK	1	49	17.56	17.45	15.02	
10	QPSK	25	0	17.20	16.95	16.30	18.0
10	QPSK	25	12	17.27	16.98	16.12	
10	QPSK	25	25	17.35	17.16	15.68	
10	QPSK	50	0	17.26	17.04	16.00	18.0
10	16QAM	1	0	17.20	17.25	16.38	
10	16QAM	1	25	17.39	16.86	16.29	
10	16QAM	1	49	17.55	17.49	15.11	18.0
10	16QAM	25	0	17.22	16.95	16.33	
10	16QAM	25	12	17.29	16.98	16.16	
10	16QAM	25	25	17.38	17.17	15.72	18.0
10	16QAM	50	0	17.31	17.07	16.04	
10	64QAM	1	0	17.22	17.11	16.33	
10	64QAM	1	25	17.37	17.02	16.26	18.0
10	64QAM	1	49	17.52	17.55	14.92	
10	64QAM	25	0	17.17	16.90	16.27	
10	64QAM	25	12	17.20	16.94	16.11	18.0
10	64QAM	25	25	17.30	17.12	15.65	
10	64QAM	50	0	17.23	17.02	15.96	
10	256QAM	1	0	15.49	15.43	14.73	16.0
10	256QAM	1	25	15.65	15.24	14.44	
10	256QAM	1	49	15.84	15.76	13.43	
10	256QAM	25	0	15.50	15.23	14.57	16.0
10	256QAM	25	12	15.55	15.26	14.41	
10	256QAM	25	25	15.64	15.48	14.00	
10	256QAM	50	0	15.57	15.34	14.28	
Channel				26065	26340	26665	Tune-up limit
Frequency (MHz)				1852.5	1880	1912.5	(dBm)
5	QPSK	1	0	16.95	16.93	16.19	18.0
5	QPSK	1	12	17.25	16.86	15.72	
5	QPSK	1	24	17.26	17.10	14.96	
5	QPSK	12	0	17.04	16.85	15.93	18.0
5	QPSK	12	7	17.18	16.91	15.62	
5	QPSK	12	13	17.21	17.00	15.20	
5	QPSK	25	0	17.12	16.92	15.56	18.0
5	16QAM	1	0	17.08	17.16	16.34	
5	16QAM	1	12	17.43	17.06	15.95	
5	16QAM	1	24	17.36	17.19	15.03	18.0
5	16QAM	12	0	17.07	16.91	15.94	
5	16QAM	12	7	17.20	16.93	15.70	
5	16QAM	12	13	17.21	17.03	15.22	18.0
5	16QAM	25	0	17.12	16.94	15.60	
5	64QAM	1	0	17.12	16.91	16.27	
5	64QAM	1	12	17.33	16.90	15.71	18.0
5	64QAM	1	24	17.35	17.20	15.00	
5	64QAM	12	0	16.99	16.80	15.89	
5	64QAM	12	7	17.17	16.91	15.61	18.0
5	64QAM	12	13	17.17	16.99	15.22	
5	64QAM	25	0	17.08	16.90	15.55	
5	256QAM	1	0	15.32	15.28	14.40	16.0
5	256QAM	1	12	15.69	15.28	14.09	
5	256QAM	1	24	15.54	15.44	13.47	
5	256QAM	12	0	15.33	15.15	14.31	16.0
5	256QAM	12	7	15.50	15.18	13.95	
5	256QAM	12	13	15.50	15.32	13.56	
5	256QAM	25	0	15.40	15.22	13.91	
Channel				26055	26340	26675	Tune-up limit
Frequency (MHz)				1851.5	1880	1913.5	(dBm)
3	QPSK	1	0	16.95	16.93	15.76	

3	QPSK	1	8	17.21	16.91	15.33	18.0
3	QPSK	1	14	17.19	17.05	14.88	
3	QPSK	8	0	16.99	16.82	15.54	18.0
3	QPSK	8	4	17.10	16.88	15.28	
3	QPSK	8	7	17.13	16.94	15.04	
3	QPSK	15	0	17.06	16.87	15.28	
3	16QAM	1	0	17.05	17.00	15.85	18.0
3	16QAM	1	8	17.25	17.03	15.43	
3	16QAM	1	14	17.29	17.14	15.01	
3	16QAM	8	0	17.07	16.84	15.56	18.0
3	16QAM	8	4	17.09	16.89	15.32	
3	16QAM	8	7	17.17	17.02	15.08	
3	16QAM	15	0	17.08	16.90	15.34	
3	64QAM	1	0	17.01	16.85	15.79	18.0
3	64QAM	1	8	17.26	17.04	15.42	
3	64QAM	1	14	17.26	17.10	14.79	
3	64QAM	8	0	17.00	16.82	15.49	18.0
3	64QAM	8	4	17.09	16.90	15.32	
3	64QAM	8	7	17.09	16.91	15.04	
3	64QAM	15	0	17.04	16.88	15.26	
3	256QAM	1	0	15.14	15.30	14.17	16.0
3	256QAM	1	8	15.77	15.33	13.59	
3	256QAM	1	14	15.48	15.42	13.30	
3	256QAM	8	0	15.31	15.14	13.84	16.0
3	256QAM	8	4	15.44	15.21	13.65	
3	256QAM	8	7	15.44	15.25	13.41	
3	256QAM	15	0	15.37	15.18	13.60	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	16.96	16.83	15.16	18.0
1.4	QPSK	1	3	17.08	16.88	15.01	
1.4	QPSK	1	5	17.07	16.95	14.89	
1.4	QPSK	3	0	17.00	16.80	15.07	18.0
1.4	QPSK	3	1	17.03	16.83	15.01	
1.4	QPSK	3	3	17.06	16.92	14.95	
1.4	QPSK	6	0	16.95	16.82	14.94	
1.4	16QAM	1	0	17.02	17.00	15.22	18.0
1.4	16QAM	1	3	17.10	16.90	15.15	
1.4	16QAM	1	5	17.13	17.02	14.96	
1.4	16QAM	3	0	16.96	16.79	15.11	18.0
1.4	16QAM	3	1	17.05	16.86	15.05	
1.4	16QAM	3	3	17.04	16.92	14.96	
1.4	16QAM	6	0	17.01	16.82	14.96	
1.4	64QAM	1	0	17.06	16.81	15.22	18.0
1.4	64QAM	1	3	17.21	16.88	15.03	
1.4	64QAM	1	5	17.16	17.14	14.93	
1.4	64QAM	3	0	17.04	16.78	14.97	18.0
1.4	64QAM	3	1	17.03	16.81	15.02	
1.4	64QAM	3	3	17.10	16.91	14.98	
1.4	64QAM	6	0	16.93	16.81	14.93	
1.4	256QAM	1	0	15.32	15.22	13.53	16.0
1.4	256QAM	1	3	15.38	15.38	13.42	
1.4	256QAM	1	5	15.30	15.35	13.31	
1.4	256QAM	3	0	15.24	15.08	13.41	16.0
1.4	256QAM	3	1	15.30	15.14	13.29	
1.4	256QAM	3	3	15.34	15.26	13.28	
1.4	256QAM	6	0	15.33	15.11	13.28	



**Band66 Ant4 DSI6**

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	21.19	21.39	21.22	21.5
20	QPSK	1	49	20.93	21.28	21.26	
20	QPSK	1	99	20.98	21.34	21.41	
20	QPSK	50	0	20.33	20.29	20.45	21.0
20	QPSK	50	24	20.17	20.48	20.61	
20	QPSK	50	50	20.16	20.53	20.59	
20	QPSK	100	0	20.18	20.35	20.59	
20	16QAM	1	0	20.59	20.54	20.28	21.5
20	16QAM	1	49	20.31	20.56	20.69	
20	16QAM	1	99	20.39	21.13	20.78	
20	16QAM	50	0	19.31	19.30	19.55	21.0
20	16QAM	50	24	19.15	19.50	19.62	
20	16QAM	50	50	19.11	19.48	19.53	
20	16QAM	100	0	19.09	19.37	19.61	
20	64QAM	1	0	19.54	19.50	19.35	21.0
20	64QAM	1	49	19.35	19.53	19.53	
20	64QAM	1	99	19.41	19.85	19.69	
20	64QAM	50	0	18.27	18.32	18.40	20.0
20	64QAM	50	24	18.21	18.41	18.56	
20	64QAM	50	50	18.07	18.50	18.48	
20	64QAM	100	0	18.16	18.41	18.58	
20	256QAM	1	0	17.01	16.70	16.63	18.0
20	256QAM	1	49	16.61	16.76	17.03	
20	256QAM	1	99	16.48	17.06	16.89	
20	256QAM	50	0	16.60	16.73	16.82	18.0
20	256QAM	50	24	16.52	16.84	16.92	
20	256QAM	50	50	16.38	16.81	16.94	
20	256QAM	100	0	16.52	16.71	16.91	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	21.15	20.99	21.23	21.5
15	QPSK	1	37	21.06	21.27	21.33	
15	QPSK	1	74	20.88	21.35	21.31	
15	QPSK	36	0	20.35	20.42	20.50	21.0
15	QPSK	36	20	20.15	20.43	20.61	
15	QPSK	39	39	20.16	20.45	20.57	
15	QPSK	75	0	20.24	20.36	20.57	
15	16QAM	1	0	20.49	20.39	20.57	21.5
15	16QAM	1	37	20.37	20.45	20.65	
15	16QAM	1	74	20.55	20.75	20.66	21.0
15	16QAM	36	0	19.31	19.40	19.51	
15	16QAM	36	20	19.20	19.42	19.61	
15	16QAM	39	39	19.06	19.46	19.53	
15	16QAM	75	0	19.17	19.37	19.52	21.0
15	64QAM	1	0	19.42	19.47	19.37	
15	64QAM	1	37	19.45	19.53	19.53	
15	64QAM	1	74	19.14	19.71	19.78	20.0
15	64QAM	36	0	18.37	18.43	18.48	
15	64QAM	36	20	18.15	18.37	18.55	
15	64QAM	39	39	18.13	18.37	18.62	
15	64QAM	75	0	18.14	18.41	18.54	18.0
15	256QAM	1	0	16.67	16.60	16.83	
15	256QAM	1	37	16.76	16.81	17.06	
15	256QAM	1	74	16.52	17.07	17.05	
15	256QAM	36	0	16.57	16.67	16.74	18.0
15	256QAM	36	20	16.58	16.69	16.88	
15	256QAM	39	39	16.45	16.84	16.92	
15	256QAM	75	0	16.53	16.73	16.87	

Channel				132022	132322	132622	Tune-up limit
Frequency (MHz)				1715	1745	1775	(dBm)
10	QPSK	1	0	21.36	21.28	21.36	21.5
10	QPSK	1	25	21.34	21.34	21.28	
10	QPSK	1	49	21.18	21.33	21.29	
10	QPSK	25	0	20.56	20.49	20.66	21.0
10	QPSK	25	12	20.39	20.60	20.66	
10	QPSK	25	25	20.40	20.60	20.66	
10	QPSK	50	0	20.45	20.51	20.73	
10	16QAM	1	0	20.61	20.47	20.68	21.5
10	16QAM	1	25	20.59	20.73	20.76	
10	16QAM	1	49	20.32	20.75	20.83	
10	16QAM	25	0	19.53	19.57	19.68	21.0
10	16QAM	25	12	19.49	19.61	19.70	
10	16QAM	25	25	19.33	19.64	19.59	
10	16QAM	50	0	19.41	19.52	19.65	
10	64QAM	1	0	19.70	19.61	19.83	21.0
10	64QAM	1	25	19.62	19.73	19.78	
10	64QAM	1	49	19.49	19.72	19.82	
10	64QAM	25	0	18.59	18.58	18.64	20.0
10	64QAM	25	12	18.44	18.63	18.71	
10	64QAM	25	25	18.35	18.60	18.65	
10	64QAM	50	0	18.41	18.58	18.72	
10	256QAM	1	0	16.83	16.89	16.96	18.0
10	256QAM	1	25	16.87	17.00	17.15	
10	256QAM	1	49	16.64	17.17	17.15	
10	256QAM	25	0	16.84	16.93	16.97	18.0
10	256QAM	25	12	16.78	17.00	16.94	
10	256QAM	25	25	16.71	17.01	16.98	
10	256QAM	50	0	16.78	16.91	17.04	
Channel				131997	132322	132647	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	(dBm)
5	QPSK	1	0	21.38	21.32	21.29	21.5
5	QPSK	1	12	21.30	21.29	21.38	
5	QPSK	1	24	21.28	21.38	21.37	
5	QPSK	12	0	20.48	20.55	20.73	21.0
5	QPSK	12	7	20.54	20.46	20.67	
5	QPSK	12	13	20.53	20.52	20.72	
5	QPSK	25	0	20.55	20.52	20.70	
5	16QAM	1	0	20.76	20.58	20.71	21.5
5	16QAM	1	12	20.73	20.73	20.87	
5	16QAM	1	24	20.61	20.78	21.02	
5	16QAM	12	0	19.57	19.56	19.66	21.0
5	16QAM	12	7	19.57	19.61	19.70	
5	16QAM	12	13	19.58	19.54	19.78	
5	16QAM	25	0	19.48	19.44	19.65	
5	64QAM	1	0	19.75	19.49	19.87	21.0
5	64QAM	1	12	19.67	19.70	19.78	
5	64QAM	1	24	19.59	19.69	19.66	
5	64QAM	12	0	18.56	18.59	18.66	20.0
5	64QAM	12	7	18.55	18.61	18.72	
5	64QAM	12	13	18.49	18.59	18.73	
5	64QAM	25	0	18.50	18.48	18.69	
5	256QAM	1	0	16.89	17.00	17.06	18.0
5	256QAM	1	12	16.99	17.01	17.10	
5	256QAM	1	24	16.93	16.92	17.12	
5	256QAM	12	0	16.85	16.96	17.08	18.0
5	256QAM	12	7	16.83	16.86	16.98	
5	256QAM	12	13	16.92	16.92	17.05	
5	256QAM	25	0	16.80	16.78	17.03	
Channel				131987	132322	132657	Tune-up limit
Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	21.34	21.34	21.36	

3	QPSK	1	8	21.37	21.30	21.31	21.5
3	QPSK	1	14	21.34	21.31	21.29	
3	QPSK	8	0	20.59	20.56	20.65	21.0
3	QPSK	8	4	20.51	20.57	20.68	
3	QPSK	8	7	20.48	20.47	20.64	
3	QPSK	15	0	20.62	20.54	20.72	
3	16QAM	1	0	20.70	20.60	20.70	21.5
3	16QAM	1	8	20.59	20.67	20.86	
3	16QAM	1	14	20.68	20.70	20.70	
3	16QAM	8	0	19.57	19.60	19.67	21.0
3	16QAM	8	4	19.55	19.64	19.72	
3	16QAM	8	7	19.54	19.51	19.72	
3	16QAM	15	0	19.50	19.58	19.72	
3	64QAM	1	0	19.69	19.42	19.72	21.0
3	64QAM	1	8	19.72	19.77	19.94	
3	64QAM	1	14	19.33	19.59	19.74	
3	64QAM	8	0	18.49	18.67	18.76	20.0
3	64QAM	8	4	18.48	18.64	18.67	
3	64QAM	8	7	18.51	18.50	18.72	
3	64QAM	15	0	18.62	18.48	18.65	
3	256QAM	1	0	16.92	16.92	16.86	18.0
3	256QAM	1	8	16.98	17.25	17.21	
3	256QAM	1	14	16.86	16.87	17.03	
3	256QAM	8	0	16.88	16.88	17.10	18.0
3	256QAM	8	4	16.92	16.97	16.98	
3	256QAM	8	7	16.88	16.78	17.10	
3	256QAM	15	0	16.87	16.97	16.92	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	21.29	21.31	21.38	21.5
1.4	QPSK	1	3	21.29	21.37	21.37	
1.4	QPSK	1	5	21.29	21.31	21.31	
1.4	QPSK	3	0	21.30	21.30	21.29	21.5
1.4	QPSK	3	1	21.36	21.38	21.38	
1.4	QPSK	3	3	21.34	21.38	21.38	
1.4	QPSK	6	0	20.44	20.48	20.69	
1.4	16QAM	1	0	20.52	20.43	20.67	21.0
1.4	16QAM	1	3	20.67	20.71	20.62	
1.4	16QAM	1	5	20.55	20.70	20.75	
1.4	16QAM	3	0	20.53	20.57	20.68	21.0
1.4	16QAM	3	1	20.55	20.69	20.68	
1.4	16QAM	3	3	20.46	20.57	20.73	
1.4	16QAM	6	0	19.54	19.54	19.66	
1.4	64QAM	1	0	19.64	19.69	19.66	21.0
1.4	64QAM	1	3	19.62	19.59	19.83	
1.4	64QAM	1	5	19.65	19.69	19.76	
1.4	64QAM	3	0	19.56	19.64	19.74	20.0
1.4	64QAM	3	1	19.56	19.67	19.75	
1.4	64QAM	3	3	19.63	19.61	19.73	
1.4	64QAM	6	0	18.52	18.57	18.70	
1.4	256QAM	1	0	16.95	16.86	16.94	18.0
1.4	256QAM	1	3	17.04	17.00	17.11	
1.4	256QAM	1	5	16.89	16.86	17.09	
1.4	256QAM	3	0	16.82	16.90	17.00	18.0
1.4	256QAM	3	1	16.86	16.90	17.05	
1.4	256QAM	3	3	16.85	16.93	17.12	
1.4	256QAM	6	0	16.83	16.89	17.00	

**Band38 Ant4 DSI6**

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	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	19.74	19.84	19.83	21.0
20	QPSK	1	49	19.76	19.81	19.82	
20	QPSK	1	99	19.81	19.77	19.73	
20	QPSK	50	0	19.79	19.72	19.71	
20	QPSK	50	24	19.76	19.73	19.73	
20	QPSK	50	50	19.80	19.82	19.80	
20	QPSK	100	0	19.62	19.73	19.42	
20	16QAM	1	0	19.54	19.57	19.50	21.0
20	16QAM	1	49	19.43	19.58	19.42	
20	16QAM	1	99	19.49	19.54	19.57	
20	16QAM	50	0	19.82	19.69	19.81	
20	16QAM	50	24	19.78	19.70	19.76	
20	16QAM	50	50	19.72	19.79	19.79	
20	16QAM	100	0	19.43	19.71	19.52	
20	64QAM	1	0	19.46	19.79	19.41	21.0
20	64QAM	1	49	19.41	19.77	19.55	
20	64QAM	1	99	19.40	19.80	19.51	
20	64QAM	50	0	19.54	19.75	19.51	
20	64QAM	50	24	19.57	19.81	19.50	
20	64QAM	50	50	19.55	19.76	19.49	
20	64QAM	100	0	19.65	19.74	19.61	
20	256QAM	1	0	17.68	17.71	17.64	19.0
20	256QAM	1	49	17.59	17.78	17.65	
20	256QAM	1	99	17.50	17.79	17.62	
20	256QAM	50	0	17.54	17.80	17.40	
20	256QAM	50	24	17.47	17.76	17.62	
20	256QAM	50	50	17.51	17.88	17.68	
20	256QAM	100	0	16.52	16.42	16.34	17.0
Channel				37825	38000	38175	Tune-up limit
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	19.79	19.78	19.73	21.0
15	QPSK	1	37	19.75	19.83	19.73	
15	QPSK	1	74	19.74	19.79	19.73	
15	QPSK	36	0	19.81	19.78	19.78	
15	QPSK	36	20	19.82	19.79	19.78	
15	QPSK	39	39	19.72	19.76	19.77	
15	QPSK	75	0	19.71	19.65	19.68	
15	16QAM	1	0	19.54	19.48	19.54	21.0
15	16QAM	1	37	19.42	19.54	19.48	
15	16QAM	1	74	19.55	19.50	19.49	
15	16QAM	36	0	19.80	19.80	19.82	
15	16QAM	36	20	19.75	19.71	19.71	
15	16QAM	39	39	19.75	19.76	19.74	
15	16QAM	75	0	19.68	19.73	19.62	
15	64QAM	1	0	19.43	19.47	19.50	21.0
15	64QAM	1	37	19.54	19.41	19.57	
15	64QAM	1	74	19.55	19.53	19.44	
15	64QAM	36	0	19.48	19.46	19.47	
15	64QAM	36	20	19.44	19.43	19.54	
15	64QAM	39	39	19.41	19.40	19.55	
15	64QAM	75	0	19.41	19.56	19.58	
15	256QAM	1	0	17.58	17.69	17.57	19.0
15	256QAM	1	37	17.47	17.48	17.65	
15	256QAM	1	74	17.42	17.45	17.57	
15	256QAM	36	0	17.43	17.62	17.69	
15	256QAM	36	20	17.42	17.51	17.43	
15	256QAM	39	39	17.48	17.68	17.66	
15	256QAM	75	0	16.43	16.57	16.44	

Channel				37800	38000	38200	Tune-up limit
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	19.70	19.82	19.83	21.0
10	QPSK	1	25	19.82	19.77	19.73	
10	QPSK	1	49	19.73	19.75	19.71	
10	QPSK	25	0	19.78	19.82	19.83	
10	QPSK	25	12	19.74	19.83	19.72	
10	QPSK	25	25	19.77	19.77	19.75	
10	QPSK	50	0	19.49	19.54	19.47	
10	16QAM	1	0	19.47	19.53	19.53	21.0
10	16QAM	1	25	19.46	19.50	19.55	
10	16QAM	1	49	19.45	19.51	19.42	
10	16QAM	25	0	19.70	19.82	19.72	
10	16QAM	25	12	19.76	19.78	19.80	
10	16QAM	25	25	19.79	19.73	19.78	
10	16QAM	50	0	19.71	19.73	19.70	
10	64QAM	1	0	19.56	19.50	19.42	21.0
10	64QAM	1	25	19.52	19.55	19.42	
10	64QAM	1	49	19.44	19.40	19.47	
10	64QAM	25	0	19.46	19.43	19.56	
10	64QAM	25	12	19.57	19.46	19.54	
10	64QAM	25	25	19.48	19.53	19.50	
10	64QAM	50	0	19.56	19.57	19.54	
10	256QAM	1	0	17.55	17.59	17.51	19.0
10	256QAM	1	25	17.63	17.67	17.44	
10	256QAM	1	49	17.58	17.68	17.55	
10	256QAM	25	0	17.55	17.59	17.45	
10	256QAM	25	12	17.59	17.40	17.51	
10	256QAM	25	25	17.47	17.44	17.57	
10	256QAM	50	0	16.67	16.41	16.46	17.0
Channel				37775	38000	38225	Tune-up limit
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	19.82	19.82	19.71	21.0
5	QPSK	1	12	19.72	19.76	19.77	
5	QPSK	1	24	19.81	19.80	19.76	
5	QPSK	12	0	19.73	19.74	19.77	
5	QPSK	12	7	19.71	19.82	19.72	
5	QPSK	12	13	19.79	19.77	19.73	
5	QPSK	25	0	19.65	19.42	19.57	
5	16QAM	1	0	19.55	19.47	19.55	21.0
5	16QAM	1	12	19.48	19.55	19.47	
5	16QAM	1	24	19.52	19.43	19.47	
5	16QAM	12	0	19.76	19.70	19.83	
5	16QAM	12	7	19.77	19.78	19.74	
5	16QAM	12	13	19.77	19.81	19.78	
5	16QAM	25	0	19.58	19.62	19.71	
5	64QAM	1	0	19.46	19.52	19.41	21.0
5	64QAM	1	12	19.57	19.52	19.51	
5	64QAM	1	24	19.52	19.49	19.44	
5	64QAM	12	0	19.46	19.55	19.46	
5	64QAM	12	7	19.46	19.57	19.45	
5	64QAM	12	13	19.49	19.43	19.50	
5	64QAM	25	0	19.37	19.52	19.43	
5	256QAM	1	0	17.57	17.58	17.47	19.0
5	256QAM	1	12	17.63	17.65	17.50	
5	256QAM	1	24	17.58	17.58	17.65	
5	256QAM	12	0	17.48	17.60	17.69	
5	256QAM	12	7	17.58	17.52	17.42	
5	256QAM	12	13	17.46	17.62	17.51	
5	256QAM	25	0	16.42	16.46	16.47	17.0

**Band41 Ant4 DSI6**

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	19.75	19.71	19.86	19.78	19.76	21.0
20	QPSK	1	49	19.77	19.74	19.79	19.75	19.80	
20	QPSK	1	99	19.73	19.70	19.81	19.79	19.81	
20	QPSK	50	0	19.82	19.72	19.70	19.78	19.78	
20	QPSK	50	24	19.81	19.74	19.76	19.80	19.79	
20	QPSK	50	50	19.82	19.82	19.79	19.82	19.76	
20	QPSK	100	0	18.32	18.41	18.54	18.44	18.44	19.0
20	16QAM	1	0	19.52	19.48	19.56	19.49	19.43	21.0
20	16QAM	1	49	19.49	19.41	19.51	19.40	19.51	
20	16QAM	1	99	19.47	19.56	19.58	19.41	19.53	
20	16QAM	50	0	19.83	19.72	19.62	19.74	19.83	
20	16QAM	50	24	19.70	19.81	19.74	19.72	19.71	
20	16QAM	50	50	19.76	19.83	19.75	19.81	19.76	
20	16QAM	100	0	18.52	18.32	18.59	18.33	18.39	19.0
20	64QAM	1	0	19.44	19.44	19.82	19.46	19.57	21.0
20	64QAM	1	49	19.44	19.41	19.85	19.42	19.57	
20	64QAM	1	99	19.52	19.42	19.81	19.42	19.54	
20	64QAM	50	0	19.50	19.46	19.72	19.56	19.57	
20	64QAM	50	24	19.41	19.56	19.81	19.40	19.40	
20	64QAM	50	50	19.40	19.51	19.83	19.50	19.52	
20	64QAM	100	0	18.39	18.35	18.52	18.31	18.48	19.0
20	256QAM	1	0	17.44	17.46	17.66	17.62	17.47	18.0
20	256QAM	1	49	17.66	17.61	17.61	17.67	17.62	
20	256QAM	1	99	17.59	17.49	17.71	17.62	17.45	
20	256QAM	50	0	17.62	17.64	17.72	17.45	17.42	
20	256QAM	50	24	17.55	17.65	17.87	17.58	17.67	
20	256QAM	50	50	17.54	17.63	17.87	17.44	17.61	
20	256QAM	100	0	16.64	16.67	16.66	16.48	16.52	17.0
Channel				39725	40173	40620	41068	41515	Tune-up limit
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	19.75	19.75	19.83	19.83	19.74	21.0
15	QPSK	1	37	19.70	19.72	19.82	19.78	19.71	
15	QPSK	1	74	19.70	19.72	19.72	19.76	19.79	
15	QPSK	36	0	19.70	19.76	19.76	19.71	19.78	
15	QPSK	36	20	19.75	19.73	19.81	19.73	19.74	
15	QPSK	39	39	19.81	19.71	19.75	19.72	19.75	
15	QPSK	75	0	18.38	18.50	18.50	18.31	18.44	19.0
15	16QAM	1	0	19.57	19.54	19.53	19.44	19.42	21.0
15	16QAM	1	37	19.53	19.42	19.55	19.49	19.53	
15	16QAM	1	74	19.42	19.43	19.53	19.45	19.41	
15	16QAM	36	0	19.77	19.80	19.77	19.70	19.74	
15	16QAM	36	20	19.77	19.77	19.72	19.82	19.74	
15	16QAM	39	39	19.78	19.73	19.75	19.75	19.76	
15	16QAM	75	0	18.50	18.45	18.53	18.53	18.34	19.0
15	64QAM	1	0	19.48	19.54	19.47	19.52	19.56	21.0
15	64QAM	1	37	19.46	19.41	19.56	19.57	19.54	
15	64QAM	1	74	19.48	19.53	19.57	19.56	19.47	
15	64QAM	36	0	19.53	19.56	19.53	19.41	19.56	
15	64QAM	36	20	19.54	19.56	19.40	19.46	19.54	
15	64QAM	39	39	19.56	19.57	19.46	19.40	19.55	
15	64QAM	75	0	18.31	18.51	18.52	18.34	18.43	19.0
15	256QAM	1	0	17.51	17.49	17.42	17.59	17.51	18.0
15	256QAM	1	37	17.55	17.69	17.67	17.55	17.51	
15	256QAM	1	74	17.70	17.61	17.45	17.58	17.65	
15	256QAM	36	0	17.47	17.70	17.57	17.49	17.60	
15	256QAM	36	20	17.54	17.61	17.64	17.60	17.70	
15	256QAM	39	39	17.62	17.51	17.53	17.69	17.55	
15	256QAM	75	0	16.60	16.62	16.47	16.64	16.43	17.0
Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2510	2547	2593	2639	2685	
10	QPSK	1	0	19.72	19.74	19.73	19.74	19.74	21.0
10	QPSK	1	25	19.70	19.80	19.82	19.79	19.80	
10	QPSK	1	49	19.70	19.72	19.71	19.70	19.77	

10	QPSK	25	0	19.76	19.79	19.79	19.77	19.81	19.0
10	QPSK	25	12	19.74	19.77	19.70	19.76	19.77	
10	QPSK	25	25	19.79	19.72	19.72	19.74	19.75	
10	QPSK	50	0	18.49	18.36	18.38	18.36	18.48	19.0
10	16QAM	1	0	19.48	19.47	19.51	19.51	19.57	21.0
10	16QAM	1	25	19.52	19.51	19.47	19.52	19.49	
10	16QAM	1	49	19.51	19.45	19.44	19.49	19.46	
10	16QAM	25	0	19.82	19.72	19.83	19.79	19.72	
10	16QAM	25	12	19.80	19.73	19.76	19.79	19.76	
10	16QAM	25	25	19.73	19.70	19.71	19.76	19.80	
10	16QAM	50	0	18.43	18.50	18.32	18.37	18.45	19.0
10	64QAM	1	0	19.49	19.54	19.47	19.42	19.53	21.0
10	64QAM	1	25	19.44	19.50	19.51	19.41	19.40	
10	64QAM	1	49	19.45	19.53	19.54	19.41	19.41	
10	64QAM	25	0	19.45	19.53	19.43	19.46	19.41	
10	64QAM	25	12	19.45	19.49	19.47	19.45	19.48	
10	64QAM	25	25	19.47	19.54	19.41	19.44	19.55	
10	64QAM	50	0	18.37	18.43	18.44	18.47	18.43	19.0
10	256QAM	1	0	17.53	17.46	17.46	17.43	17.43	18.0
10	256QAM	1	25	17.48	17.45	17.52	17.45	17.69	
10	256QAM	1	49	17.65	17.41	17.63	17.54	17.52	
10	256QAM	25	0	17.62	17.63	17.68	17.47	17.40	
10	256QAM	25	12	17.43	17.64	17.69	17.43	17.55	
10	256QAM	25	25	17.42	17.51	17.67	17.47	17.40	
10	256QAM	50	0	16.42	16.62	16.63	16.69	16.44	17.0
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	19.72	19.74	19.78	19.79	19.76	21.0
5	QPSK	1	12	19.83	19.74	19.80	19.71	19.78	
5	QPSK	1	24	19.81	19.70	19.75	19.83	19.77	
5	QPSK	12	0	19.83	19.71	19.73	19.70	19.76	
5	QPSK	12	7	19.70	19.82	19.74	19.76	19.78	
5	QPSK	12	13	19.79	19.75	19.72	19.75	19.73	
5	QPSK	25	0	18.31	18.41	18.47	18.46	18.41	19.0
5	16QAM	1	0	19.40	19.55	19.46	19.45	19.44	21.0
5	16QAM	1	12	19.48	19.51	19.40	19.54	19.40	
5	16QAM	1	24	19.46	19.57	19.40	19.40	19.55	
5	16QAM	12	0	19.83	19.80	19.70	19.76	19.73	
5	16QAM	12	7	19.83	19.80	19.72	19.83	19.70	
5	16QAM	12	13	19.71	19.78	19.70	19.74	19.82	
5	16QAM	25	0	18.41	18.40	18.36	18.48	18.34	19.0
5	64QAM	1	0	19.57	19.50	19.40	19.56	19.51	21.0
5	64QAM	1	12	19.48	19.52	19.44	19.44	19.41	
5	64QAM	1	24	19.51	19.44	19.52	19.51	19.55	
5	64QAM	12	0	19.56	19.51	19.44	19.56	19.44	
5	64QAM	12	7	19.56	19.47	19.42	19.46	19.47	
5	64QAM	12	13	19.41	19.53	19.55	19.42	19.52	
5	64QAM	25	0	18.34	18.35	18.40	18.49	18.51	19.0
5	256QAM	1	0	17.62	17.45	17.68	17.46	17.49	18.0
5	256QAM	1	12	17.68	17.59	17.51	17.44	17.63	
5	256QAM	1	24	17.63	17.55	17.52	17.61	17.51	
5	256QAM	12	0	17.53	17.44	17.52	17.59	17.56	
5	256QAM	12	7	17.69	17.53	17.58	17.66	17.66	
5	256QAM	12	13	17.49	17.40	17.68	17.47	17.56	
5	256QAM	25	0	16.41	16.51	16.64	16.40	16.42	17.0

**Band42 Ant2 DSI6**

BW(MHz)	Moudulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)
				Low CH./Freq.	Mid CH./Freq.	High CH./Freq.	
Channel				42190	42590	42990	
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	23.17	23.36	23.06	24.0
20	QPSK	1	49	23.11	22.86	23.13	
20	QPSK	1	99	22.99	22.86	23.03	
20	QPSK	50	0	22.42	22.17	22.32	23.0
20	QPSK	50	24	22.33	22.18	22.35	
20	QPSK	50	50	22.29	22.13	22.38	
20	QPSK	100	0	22.35	22.15	22.38	23.0
20	16QAM	1	0	22.60	22.23	22.36	
20	16QAM	1	49	22.61	22.38	22.43	
20	16QAM	1	99	22.49	22.32	22.37	22.0
20	16QAM	50	0	21.38	21.19	21.26	
20	16QAM	50	24	21.38	21.19	21.37	
20	16QAM	50	50	21.29	21.20	21.39	22.0
20	16QAM	100	0	21.38	21.15	21.34	
20	64QAM	1	0	21.45	21.21	21.34	
20	64QAM	1	49	21.40	21.21	21.40	22.0
20	64QAM	1	99	21.26	21.23	21.33	
20	64QAM	50	0	20.39	20.20	20.28	
20	64QAM	50	24	20.34	20.17	20.39	21.0
20	64QAM	50	50	20.30	20.17	20.34	
20	64QAM	100	0	20.33	20.14	20.33	
20	256QAM	1	0	18.52	18.31	18.33	19.0
20	256QAM	1	49	18.40	18.20	18.37	
20	256QAM	1	99	18.38	18.32	18.42	
20	256QAM	50	0	18.37	18.16	18.30	19.0
20	256QAM	50	24	18.38	18.15	18.39	
20	256QAM	50	50	18.34	18.18	18.42	
20	256QAM	100	0	18.34	18.19	18.38	
Channel				42165	42590	43015	Tune-up limit
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	23.17	22.96	23.11	24.0
15	QPSK	1	37	23.14	22.93	23.17	
15	QPSK	1	74	23.02	22.93	23.10	
15	QPSK	36	0	22.34	22.15	22.26	23.0
15	QPSK	36	20	22.34	22.11	22.28	
15	QPSK	39	39	22.28	22.14	22.33	
15	QPSK	75	0	22.37	22.14	22.27	23.0
15	16QAM	1	0	22.43	22.43	22.38	
15	16QAM	1	37	22.28	22.29	22.43	
15	16QAM	1	74	22.27	22.28	22.29	22.0
15	16QAM	36	0	21.37	21.15	21.31	
15	16QAM	36	20	21.36	21.10	21.28	
15	16QAM	39	39	21.36	21.15	21.36	22.0
15	16QAM	75	0	21.35	21.12	21.27	
15	64QAM	1	0	21.34	21.12	21.30	
15	64QAM	1	37	21.27	21.22	21.41	22.0
15	64QAM	1	74	21.23	21.14	21.33	
15	64QAM	36	0	20.40	20.14	20.24	
15	64QAM	36	20	20.36	20.17	20.27	21.0
15	64QAM	39	39	20.34	20.18	20.37	
15	64QAM	75	0	20.37	20.18	20.23	
15	256QAM	1	0	18.41	18.20	18.38	19.0
15	256QAM	1	37	18.51	18.40	18.46	
15	256QAM	1	74	18.51	18.40	18.55	
15	256QAM	36	0	18.39	18.20	18.29	19.0
15	256QAM	36	20	18.32	18.17	18.30	
15	256QAM	39	39	18.34	18.16	18.39	
15	256QAM	75	0	18.33	18.14	18.34	



Channel				42140	42590	43040	Tune-up limit
Frequency (MHz)				3455	3500	3545	
10	QPSK	1	0	23.27	23.10	23.24	24.0
10	QPSK	1	25	23.34	23.13	23.12	
10	QPSK	1	49	23.17	23.06	23.29	
10	QPSK	25	0	22.54	22.31	22.42	23.0
10	QPSK	25	12	22.52	22.31	22.47	
10	QPSK	25	25	22.47	22.29	22.52	
10	QPSK	50	0	22.46	22.31	22.42	
10	16QAM	1	0	22.50	22.37	22.55	23.0
10	16QAM	1	25	22.60	22.50	22.66	
10	16QAM	1	49	22.43	22.34	22.65	
10	16QAM	25	0	21.51	21.28	21.41	22.0
10	16QAM	25	12	21.53	21.31	21.43	
10	16QAM	25	25	21.48	21.28	21.51	
10	16QAM	50	0	21.52	21.30	21.41	
10	64QAM	1	0	21.55	21.31	21.54	22.0
10	64QAM	1	25	21.63	21.41	21.59	
10	64QAM	1	49	21.52	21.29	21.75	
10	64QAM	25	0	20.52	20.31	20.44	21.0
10	64QAM	25	12	20.53	20.34	20.48	
10	64QAM	25	25	20.48	20.26	20.46	
10	64QAM	50	0	20.50	20.30	20.41	
10	256QAM	1	0	18.74	18.39	18.58	19.0
10	256QAM	1	25	18.71	18.36	18.63	
10	256QAM	1	49	18.59	18.39	18.70	
10	256QAM	25	0	18.49	18.29	18.45	19.0
10	256QAM	25	12	18.53	18.35	18.50	
10	256QAM	25	25	18.49	18.25	18.55	
10	256QAM	50	0	18.51	18.27	18.45	
Channel				42115	42590	43065	Tune-up limit
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	23.26	23.03	23.27	24.0
5	QPSK	1	12	23.31	23.08	23.30	
5	QPSK	1	24	23.29	23.04	23.23	
5	QPSK	12	0	22.50	22.26	22.50	23.0
5	QPSK	12	7	22.47	22.31	22.48	
5	QPSK	12	13	22.50	22.31	22.52	
5	QPSK	25	0	22.48	22.26	22.46	
5	16QAM	1	0	22.63	22.40	22.61	23.0
5	16QAM	1	12	22.67	22.50	22.66	
5	16QAM	1	24	22.68	22.48	22.66	
5	16QAM	12	0	21.50	21.29	21.50	22.0
5	16QAM	12	7	21.53	21.32	21.54	
5	16QAM	12	13	21.54	21.29	21.55	
5	16QAM	25	0	21.53	21.30	21.50	
5	64QAM	1	0	21.56	21.23	21.48	22.0
5	64QAM	1	12	21.59	21.40	21.74	
5	64QAM	1	24	21.55	21.32	21.57	
5	64QAM	12	0	20.50	20.29	20.54	21.0
5	64QAM	12	7	20.55	20.33	20.57	
5	64QAM	12	13	20.49	20.28	20.55	
5	64QAM	25	0	20.53	20.26	20.45	
5	256QAM	1	0	18.13	18.05	18.24	19.0
5	256QAM	1	12	18.34	18.04	18.34	
5	256QAM	1	24	18.28	18.12	18.39	
5	256QAM	12	0	18.21	18.01	18.22	19.0
5	256QAM	12	7	18.24	18.00	18.22	
5	256QAM	12	13	18.15	18.00	18.23	
5	256QAM	25	0	18.21	18.03	18.21	

n2 Ant4 Main PA DSI2							
BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	18.67	18.71	18.54	19.5
20	PI/2 BPSK	1	53	18.77	18.70	18.45	
20	PI/2 BPSK	1	104	18.74	18.54	18.63	
20	PI/2 BPSK	50	0	18.43	18.54	18.62	19.0
20	PI/2 BPSK	50	28	18.47	18.61	18.54	
20	PI/2 BPSK	50	56	18.77	18.53	18.53	
20	PI/2 BPSK	100	0	18.53	18.57	18.51	
20	QPSK	1	1	18.59	18.79	18.49	19.5
20	QPSK	1	53	18.48	18.66	18.72	
20	QPSK	1	104	18.42	18.53	18.57	
20	QPSK	50	0	18.50	18.57	18.75	19.0
20	QPSK	50	28	18.76	18.63	18.42	
20	QPSK	50	56	18.56	18.54	18.61	
20	QPSK	100	0	18.40	18.53	18.69	
20	16QAM	1	1	18.51	18.65	18.69	19.0
20	64QAM	1	1	18.75	18.65	18.75	
20	256QAM	1	1	18.77	18.63	18.62	
Channel				371500	376000	380500	Tune-up limit
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	18.72	18.45	18.45	19.5
Channel				371000	376000	381000	Tune-up limit
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	1	18.66	18.66	18.50	19.5
Channel				370500	376000	381500	Tune-up limit
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	18.57	18.49	18.61	19.5

n2 Ant4 Other PA DSI2							
BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	18.66	18.61	18.53	19.5
20	PI/2 BPSK	1	53	18.63	18.65	18.54	
20	PI/2 BPSK	1	104	18.52	18.51	18.43	
20	PI/2 BPSK	50	0	18.56	18.55	18.40	19.0
20	PI/2 BPSK	50	28	18.60	18.56	18.53	
20	PI/2 BPSK	50	56	18.69	18.55	18.51	
20	PI/2 BPSK	100	0	18.56	18.59	18.43	
20	QPSK	1	1	18.59	18.72	18.68	19.5
20	QPSK	1	53	18.45	18.66	18.68	
20	QPSK	1	104	18.40	18.57	18.59	
20	QPSK	50	0	18.44	18.55	18.61	19.0
20	QPSK	50	28	18.57	18.58	18.55	

20	QPSK	50	56	18.65	18.52	18.47	19.0
20	QPSK	100	0	18.53	18.57	18.43	
20	16QAM	1	1	18.58	18.70	18.47	19.0
20	64QAM	1	1	18.46	18.70	18.51	
20	256QAM	1	1	18.63	18.71	18.63	
Channel				371500	376000	380500	Tune-up limit
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	18.41	18.55	18.55	19.5
Channel				371000	376000	381000	Tune-up limit
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	1	18.62	18.56	18.55	19.5
Channel				370500	376000	381500	Tune-up limit
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	18.43	18.52	18.66	19.5

n2 Ant4 Other PA DSI2							
BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	17.77	17.73	17.75	19.0
20	PI/2 BPSK	1	53	17.55	17.63	17.62	
20	PI/2 BPSK	1	104	17.63	17.80	17.57	
20	PI/2 BPSK	50	0	17.43	17.60	17.52	19.0
20	PI/2 BPSK	50	28	17.72	17.58	17.71	
20	PI/2 BPSK	50	56	17.51	17.62	17.54	
20	PI/2 BPSK	100	0	17.59	17.56	17.72	
20	QPSK	1	1	17.47	17.84	17.65	19.0
20	QPSK	1	53	17.78	17.72	17.72	
20	QPSK	1	104	17.52	17.77	17.48	
20	QPSK	50	0	17.76	17.63	17.76	18.5
20	QPSK	50	28	17.67	17.56	17.65	
20	QPSK	50	56	17.58	17.61	17.66	
20	QPSK	100	0	17.74	17.62	17.62	
20	16QAM	1	1	17.65	17.80	17.64	19.0
20	64QAM	1	1	17.42	17.78	17.65	
20	256QAM	1	1	17.68	17.79	17.55	
Channel				371500	376000	380500	Tune-up limit
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	17.64	17.40	17.64	19.0
Channel				371000	376000	381000	Tune-up limit
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	1	17.80	17.43	17.49	19.0
Channel				370500	376000	381500	Tune-up limit
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	17.71	17.43	17.51	19.0

**n5 Ant4 Main PA Default**

BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
25	PI/2 BPSK	1	1	23.22	23.24	23.18	23.5
25	PI/2 BPSK	1	53	23.27	23.23	23.19	
25	PI/2 BPSK	1	104	23.25	23.18	23.23	
25	PI/2 BPSK	50	0	23.18	23.04	23.14	23.5
25	PI/2 BPSK	50	28	23.20	23.27	23.25	23.5
25	PI/2 BPSK	50	56	23.11	23.14	23.12	
25	PI/2 BPSK	100	0	23.13	23.12	23.09	
25	QPSK	1	1	23.26	23.29	23.24	23.5
25	QPSK	1	53	23.22	23.25	23.26	
25	QPSK	1	104	23.19	23.28	23.18	
25	QPSK	50	0	22.41	22.45	22.42	23.5
25	QPSK	50	28	23.27	23.19	23.21	23.5
25	QPSK	50	56	22.55	22.57	22.51	23.0
25	QPSK	100	0	22.61	22.64	22.66	
25	16QAM	1	1	22.19	22.26	22.23	
25	64QAM	1	1	20.69	20.77	20.71	22.0
25	256QAM	1	1	18.80	18.83	18.82	20.0
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
20	PI/2 BPSK	1	1	23.21	23.14	23.11	23.5
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
15	QPSK	1	1	23.23	23.22	23.28	23.5
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
10	QPSK	1	1	23.26	23.28	23.20	23.5
Channel				164800	167300	169800	Tune-up limit (dBm)
Frequency (MHz)				824	836.5	849	
5	PI/2 BPSK	1	1	23.23	23.25	23.26	23.5

**n5 Ant4 Other PA Default**

BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
25	PI/2 BPSK	1	1	21.15	21.14	21.18	22.0
25	PI/2 BPSK	1	53	21.18	21.18	21.14	
25	PI/2 BPSK	1	104	21.05	21.07	21.02	
25	PI/2 BPSK	50	0	20.65	20.64	20.63	21.0
25	PI/2 BPSK	50	28	21.23	21.24	21.24	22.0
25	PI/2 BPSK	50	56	20.71	20.77	20.75	21.5
25	PI/2 BPSK	100	0	20.78	20.81	20.79	
25	QPSK	1	1	21.25	21.26	21.21	
25	QPSK	1	53	21.14	21.18	21.14	22.0
25	QPSK	1	104	21.05	21.08	21.02	
25	QPSK	50	0	20.11	20.14	20.16	
25	QPSK	50	28	21.22	21.23	21.21	22.0

25	QPSK	50	56	20.21	20.28	20.25	21.0
25	QPSK	100	0	20.35	20.31	20.27	
25	16QAM	1	1	20.25	20.24	20.21	
25	64QAM	1	1	18.75	18.77	18.71	20.0
25	256QAM	1	1	16.88	16.91	16.85	18.0
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
20	PI/2 BPSK	1	1	21.21	21.11	21.14	22.0
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
15	QPSK	1	1	21.18	21.23	21.22	22.0
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
10	QPSK	1	1	21.23	21.18	21.18	22.0
Channel				164800	167300	169800	Tune-up limit (dBm)
Frequency (MHz)				824	836.5	849	
5	PI/2 BPSK	1	1	21.23	21.21	21.24	22.0

**n7 Ant4 DSI2**

BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	18.00	17.99	18.17	18.5
40	PI/2 BPSK	1	108	18.15	18.13	18.11	
40	PI/2 BPSK	1	214	17.93	17.95	17.84	
40	PI/2 BPSK	108	0	18.13	18.21	18.11	18.5
40	PI/2 BPSK	108	54	18.06	18.11	18.00	
40	PI/2 BPSK	108	108	17.85	17.97	17.92	
40	PI/2 BPSK	216	0	18.11	18.12	18.16	
40	QPSK	1	1	18.17	18.22	18.13	18.5
40	QPSK	1	108	17.84	17.92	17.79	
40	QPSK	1	214	17.62	18.00	17.77	
40	QPSK	108	0	18.01	18.03	18.01	18.5
40	QPSK	108	54	18.06	18.11	18.10	
40	QPSK	108	108	17.82	17.97	17.86	
40	QPSK	216	0	18.11	18.12	18.09	
40	16QAM	1	1	18.10	18.14	18.12	18.5
40	64QAM	1	1	18.07	18.13	18.06	
40	256QAM	1	1	18.09	18.11	18.04	
Channel				503000	507000	511000	Tune-up limit
Frequency (MHz)				2515	2535	2555	
30	QPSK	1	1	18.15	18.15	18.17	18.5
Channel				502500	507000	511500	Tune-up limit
Frequency (MHz)				2512.5	2535	2557.5	
25	QPSK	1	1	18.10	18.11	18.12	18.5
Channel				502000	507000	512000	Tune-up limit
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	1	18.12	18.11	18.04	18.5
Channel				501500	507000	512000	Tune-up limit
Frequency (MHz)				2507.5	2535	2562.5	
10	QPSK	1	1	18.00	18.17	18.00	18.5
Channel				501000	507000	513000	Tune-up limit
Frequency (MHz)				2505	2535	2565	
5	QPSK	1	1	18.13	18.04	18.14	18.5
Channel				500500	507000	513500	Tune-up limit
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	1	18.01	18.17	18.20	18.5

**n26 Ant4 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				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	21.24	21.28	21.26	
20	PI/2 BPSK	1	53	21.18	21.24	21.21	22.5
20	PI/2 BPSK	1	104	21.12	21.16	21.19	
20	PI/2 BPSK	50	0	20.63	20.66	20.62	
20	PI/2 BPSK	50	28	21.02	21.09	21.02	21.5
20	PI/2 BPSK	50	56	20.75	20.74	20.77	
20	PI/2 BPSK	100	0	20.71	20.75	20.69	
20	QPSK	1	1	21.32	21.33	21.29	22.5
20	QPSK	1	53	21.27	21.30	21.25	
20	QPSK	1	104	21.15	21.17	21.11	
20	QPSK	50	0	21.18	21.17	21.15	22.0
20	QPSK	50	28	21.19	21.21	21.17	
20	QPSK	50	56	20.38	20.41	20.35	
20	QPSK	100	0	20.21	20.23	20.18	21.5
20	16QAM	1	1	21.25	21.27	21.22	
20	64QAM	1	1	18.86	18.89	18.84	
20	256QAM	1	1	16.99	17.00	16.95	18.0
Channel				164300	166300	168300	Tune-up limit
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	21.28	21.24	21.23	22.5
Channel				163800	166300	168800	Tune-up limit
Frequency (MHz)				819	831.5	844	
10	QPSK	1	1	21.27	21.27	21.30	22.5
Channel				163300	166300	169300	Tune-up limit
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	21.31	21.32	21.23	22.5

**n66 Ant4 Main PA DSI2**

BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	19.81	19.82	17.78	21.0
40	PI/2 BPSK	1	108	19.78	19.75	19.79	
40	PI/2 BPSK	1	214	19.79	19.73	19.80	
40	PI/2 BPSK	108	0	19.76	19.75	19.80	21.0
40	PI/2 BPSK	108	54	19.77	19.66	19.77	
40	PI/2 BPSK	108	108	19.84	19.77	19.83	
40	PI/2 BPSK	216	0	19.76	19.72	19.78	21.0
40	QPSK	1	1	19.84	19.86	19.81	
40	QPSK	1	108	19.78	19.73	19.78	
40	QPSK	1	214	19.73	19.79	19.78	21.0
40	QPSK	108	0	19.83	19.80	19.75	
40	QPSK	108	54	19.81	19.70	19.80	
40	QPSK	108	108	19.70	19.74	19.82	21.0
40	QPSK	216	0	19.73	19.70	19.85	
40	16QAM	1	1	19.79	19.71	19.80	
40	64QAM	1	1	19.81	19.83	19.78	21.0
40	256QAM	1	1	18.36	18.40	18.37	19.0
Channel				345500	349000	352500	Tune-up limit
Frequency (MHz)				1727.5	1745	1762.5	
35	QPSK	1	1	19.81	19.74	19.71	21.0
Channel				345000	349000	353000	Tune-up limit
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	19.74	19.82	19.80	21.0
Channel				344500	349000	353500	Tune-up limit
Frequency (MHz)				1722.5	1745	1767.5	
25	QPSK	1	1	19.65	19.63	19.54	21.0
Channel				344000	349000	354000	Tune-up limit
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	19.75	19.79	19.84	21.0
Channel				343500	349000	344500	Tune-up limit
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	19.71	19.75	19.76	21.0
Channel				343000	349000	355000	Tune-up limit
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	19.72	19.81	19.78	21.0
Channel				342500	349000	355500	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	19.84	19.78	19.74	21.0

**n66 Ant4 Other PA DSI2**

BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	19.73	19.81	19.81	21.0
40	PI/2 BPSK	1	108	19.82	19.71	19.82	
40	PI/2 BPSK	1	214	19.83	19.78	19.77	
40	PI/2 BPSK	108	0	19.79	19.79	19.80	21.0
40	PI/2 BPSK	108	54	19.70	19.71	19.82	
40	PI/2 BPSK	108	108	19.81	19.74	19.72	
40	PI/2 BPSK	216	0	19.77	19.70	19.70	21.0
40	QPSK	1	1	19.71	19.85	19.82	
40	QPSK	1	108	19.76	19.78	19.73	
40	QPSK	1	214	19.73	19.82	19.74	21.0
40	QPSK	108	0	19.80	19.79	19.76	
40	QPSK	108	54	19.70	19.71	19.77	



40	QPSK	108	108	19.78	19.76	19.81	21.0
40	QPSK	216	0	19.75	19.74	19.76	
40	16QAM	1	1	19.70	19.73	19.79	21.0
40	64QAM	1	1	19.74	19.82	19.83	
40	256QAM	1	1	18.37	18.38	18.36	19.0
Channel				345500	349000	352500	Tune-up limit
Frequency (MHz)				1727.5	1745	1762.5	
35	QPSK	1	1	19.62	19.54	19.83	21.0
Channel				345000	349000	353000	Tune-up limit
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	19.79	19.70	19.70	21.0
Channel				344500	349000	353500	Tune-up limit
Frequency (MHz)				1722.5	1745	1767.5	
25	QPSK	1	1	19.74	19.83	19.77	21.0
Channel				344000	349000	354000	Tune-up limit
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	19.72	19.80	19.74	21.0
Channel				343500	349000	344500	Tune-up limit
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	19.79	19.80	19.77	21.0
Channel				343000	349000	355000	Tune-up limit
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	19.78	19.73	19.76	21.0
Channel				342500	349000	355500	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	19.74	19.72	19.82	21.0

#### n66 Ant4 Other PA DSI2

BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	17.98	17.80	17.93	19.0
40	PI/2 BPSK	1	108	18.04	18.02	17.91	
40	PI/2 BPSK	1	214	18.03	17.97	17.94	
40	PI/2 BPSK	108	0	17.97	17.89	18.01	19.0
40	PI/2 BPSK	108	54	18.03	17.97	17.98	
40	PI/2 BPSK	108	108	18.03	18.05	18.04	
40	PI/2 BPSK	216	0	18.03	17.97	17.90	19.0
40	QPSK	1	1	17.97	18.07	17.94	
40	QPSK	1	108	18.03	18.04	18.05	
40	QPSK	1	214	18.05	18.03	18.03	19.0
40	QPSK	108	0	17.98	17.90	17.91	
40	QPSK	108	54	17.94	18.00	17.93	
40	QPSK	108	108	17.91	18.04	17.97	19.0
40	QPSK	216	0	17.92	18.00	18.05	
40	16QAM	1	1	17.94	17.85	17.96	
40	64QAM	1	1	17.95	17.83	17.92	
40	256QAM	1	1	16.32	16.36	16.29	17.0
Channel				345500	349000	352500	Tune-up limit
Frequency (MHz)				1727.5	1745	1762.5	
35	QPSK	1	1	18.01	17.89	17.95	19.0
Channel				345000	349000	353000	Tune-up limit
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	18.04	18.00	17.99	19.0
Channel				344500	349000	353500	Tune-up limit
Frequency (MHz)				1722.5	1745	1767.5	
25	QPSK	1	1	17.97	17.94	17.98	19.0
Channel				344000	349000	354000	Tune-up limit
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	18.01	17.94	17.97	19.0

Channel				343500	349000	344500	Tune-up limit
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	17.98	17.90	17.91	19.0
Channel				343000	349000	355000	Tune-up limit
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	17.95	18.00	17.95	19.0
Channel				342500	349000	355500	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	17.99	17.95	17.90	19.0

**n78 Ant2 DSI2**

BW(MHz)	Moudulation	RB Size	RB Offset	Power Low CH./Freq.	Power Mid CH./Freq.	Power High CH./Freq.	Ture-up Limit (dBm)
Channel					633332		17.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		16.86		17.5
100	PI/2 BPSK	1	137		16.78		
100	PI/2 BPSK	1	271		16.76		
100	PI/2 BPSK	135	0		16.68		17.5
100	PI/2 BPSK	135	69		16.62		
100	PI/2 BPSK	135	138		16.64		
100	PI/2 BPSK	270	0		16.68		
100	QPSK	1	1		16.87		17.5
100	QPSK	1	137		16.81		
100	QPSK	1	271		16.74		
100	QPSK	135	0		16.69		17.5
100	QPSK	135	69		16.63		
100	QPSK	135	138		16.58		
100	QPSK	270	0		16.70		
100	16QAM	1	1		16.84		17.5
100	64QAM	1	1		16.83		
100	256QAM	1	1		16.83		
Channel				633000	633332	633666	Ture-up Limit
Frequency (MHz)				3495	3499.98	3504.99	
90	QPSK	1	1	16.84	16.71	16.61	17.5
Channel				632668	633332	634000	Ture-up Limit
Frequency (MHz)				3490.02	3499.98	3510	
80	QPSK	1	1	16.78	16.62	16.68	17.5
Channel				632334	633332	634332	Ture-up Limit
Frequency (MHz)				3485.01	3499.98	3514.98	
70	QPSK	1	1	16.74	16.60	16.81	17.5
Channel				632000	633332	634666	Ture-up Limit
Frequency (MHz)				3480	3499.98	3519.99	
60	QPSK	1	1	16.66	16.80	16.61	17.5
Channel				631668	633332	635000	Ture-up Limit
Frequency (MHz)				3475.02	3499.98	3525	
50	QPSK	1	1	16.79	16.79	16.77	17.5
Channel				631334	633332	635332	Ture-up Limit
Frequency (MHz)				3470.01	3499.98	3529.98	
40	QPSK	1	1	16.81	16.62	16.61	17.5
Channel				631000	633332	635666	Ture-up Limit
Frequency (MHz)				3465	3499.98	3534.99	
30	QPSK	1	1	16.71	16.76	16.62	17.5
Channel				630668	633332	636000	Ture-up Limit
Frequency (MHz)				3460.02	3499.98	3540	
20	QPSK	1	1	16.63	16.69	16.60	17.5
Channel				630501	633332	636167	Ture-up Limit
Frequency (MHz)				3457.52	3499.98	3542.5	
15	QPSK	1	1	16.75	16.72	16.83	17.5
Channel				630335	633332	636333	Ture-up Limit
Frequency (MHz)				3455.02	3499.98	3545	
10	QPSK	1	1	16.77	16.65	16.60	17.5

**n5 Ant0 Main PA 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				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
25	PI/2 BPSK	1	1	22.01	22.09	22.12	23.0
25	PI/2 BPSK	1	53	22.14	22.14	22.05	
25	PI/2 BPSK	1	104	22.07	22.12	22.03	
25	PI/2 BPSK	50	0	21.66	21.62	21.65	22.0
25	PI/2 BPSK	50	28	22.02	22.06	22.03	23.0
25	PI/2 BPSK	50	56	22.02	22.12	22.06	23.0
25	PI/2 BPSK	100	0	22.02	22.11	22.11	
25	QPSK	1	1	22.08	22.38	22.15	23.0
25	QPSK	1	53	22.03	22.04	22.10	
25	QPSK	1	104	22.02	22.09	22.02	
25	QPSK	50	0	21.69	21.72	21.62	22.0
25	QPSK	50	28	22.00	22.08	22.05	23.0
25	QPSK	50	56	21.65	21.64	21.69	22.0
25	QPSK	100	0	21.62	21.59	21.70	
25	16QAM	1	1	21.68	21.58	21.71	
25	64QAM	1	1	19.48	19.43	19.72	20.0
25	256QAM	1	1	17.44	17.42	17.54	18.0
Channel				166300	167300	168300	Tune-up limit
Frequency (MHz)				831.5	836.5	841.5	
20	PI/2 BPSK	1	1	22.09	22.06	22.07	23.0
Channel				165800	167300	168800	Tune-up limit
Frequency (MHz)				829	836.5	844	
15	QPSK	1	1	22.03	22.01	22.04	23.0
Channel				165300	167300	169300	Tune-up limit
Frequency (MHz)				826.5	836.5	846.5	
10	QPSK	1	1	22.09	22.15	22.05	23.0
Channel				164800	167300	169800	Tune-up limit
Frequency (MHz)				824	836.5	849	
5	PI/2 BPSK	1	1	22.15	22.15	22.00	23.0

**n5 Ant0 Other PA 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				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
25	PI/2 BPSK	1	1	22.08	22.04	22.08	23.0
25	PI/2 BPSK	1	53	22.06	22.01	22.04	
25	PI/2 BPSK	1	104	22.10	22.15	22.14	
25	PI/2 BPSK	50	0	21.58	21.58	21.62	22.0
25	PI/2 BPSK	50	28	22.09	22.12	22.04	23.0
25	PI/2 BPSK	50	56	22.02	22.00	22.10	23.0
25	PI/2 BPSK	100	0	22.07	22.15	22.11	
25	QPSK	1	1	22.12	22.16	22.01	23.0
25	QPSK	1	53	22.01	22.02	22.05	
25	QPSK	1	104	22.15	22.03	22.12	
25	QPSK	50	0	21.70	21.64	21.75	22.0
25	QPSK	50	28	22.04	22.13	22.06	23.0
25	QPSK	50	56	21.74	21.73	21.72	22.0
25	QPSK	100	0	21.62	21.67	21.64	
25	16QAM	1	1	21.69	21.61	21.63	
25	64QAM	1	1	19.69	19.70	19.49	20.0
25	256QAM	1	1	17.56	17.57	17.46	18.0
Channel				166300	167300	168300	Tune-up limit
Frequency (MHz)				831.5	836.5	841.5	
20	PI/2 BPSK	1	1	22.08	22.06	22.04	23.0
Channel				165800	167300	168800	Tune-up

	Frequency (MHz)			829	836.5	844	limit
15	QPSK	1	1	22.12	22.05	22.06	23.0
	Channel			165300	167300	169300	Tune-up
	Frequency (MHz)			826.5	836.5	846.5	limit
10	QPSK	1	1	22.03	22.02	22.05	23.0
	Channel			164800	167300	169800	Tune-up
	Frequency (MHz)			824	836.5	849	limit
5	PI/2 BPSK	1	1	22.12	22.15	22.08	23.0

**n2 Ant1 Main PA 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				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	20.06	20.00	20.07	21.0
20	PI/2 BPSK	1	53	20.11	20.12	20.06	
20	PI/2 BPSK	1	104	20.06	20.10	20.04	
20	PI/2 BPSK	50	0	20.04	20.08	20.09	21.0
20	PI/2 BPSK	50	28	20.01	20.04	20.05	
20	PI/2 BPSK	50	56	20.03	20.01	20.00	
20	PI/2 BPSK	100	0	20.05	20.03	20.10	
20	QPSK	1	1	20.11	20.15	20.12	21.0
20	QPSK	1	53	20.12	20.14	20.11	
20	QPSK	1	104	19.86	19.97	19.81	
20	QPSK	50	0	20.00	20.03	20.04	21.0
20	QPSK	50	28	20.03	20.06	20.01	
20	QPSK	50	56	19.94	20.02	19.97	
20	QPSK	100	0	19.96	20.01	19.94	
20	16QAM	1	1	20.11	20.13	20.12	21.0
20	64QAM	1	1	20.06	20.12	20.13	
20	256QAM	1	1	18.01	18.04	18.07	19.0
Channel				371500	376000	380500	Tune-up limit
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	20.12	20.05	20.14	21.0
Channel				371000	376000	381000	Tune-up limit
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	1	20.06	20.04	20.11	21.0
Channel				370500	376000	381500	Tune-up limit
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	20.08	20.10	20.13	21.0

**n2 Ant1 Other PA 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				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	20.05	20.02	20.10	21.0
20	PI/2 BPSK	1	53	20.10	20.04	20.05	
20	PI/2 BPSK	1	104	20.10	20.05	20.09	
20	PI/2 BPSK	50	0	20.02	20.02	20.01	21.0
20	PI/2 BPSK	50	28	20.03	20.08	20.10	
20	PI/2 BPSK	50	56	20.09	20.02	20.00	
20	PI/2 BPSK	100	0	20.06	20.08	20.07	
20	QPSK	1	1	20.01	20.12	20.08	21.0
20	QPSK	1	53	20.08	20.10	20.01	
20	QPSK	1	104	20.05	20.09	20.04	
20	QPSK	50	0	20.02	20.08	20.10	21.0
20	QPSK	50	28	20.06	20.10	20.09	
20	QPSK	50	56	20.06	20.01	20.07	
20	QPSK	100	0	20.02	20.01	20.05	
20	16QAM	1	1	20.05	20.02	20.00	21.0
20	64QAM	1	1	20.03	20.04	20.00	
20	256QAM	1	1	18.01	18.09	18.03	19.0
Channel				371500	376000	380500	Tune-up limit
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	20.01	20.00	20.04	21.0
Channel				371000	376000	381000	Tune-up limit
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	1	20.09	20.08	20.07	21.0

Channel				370500	376000	381500	Tune-up limit
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	20.10	20.09	20.10	21.0

**n7 An1 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				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	20.11	20.15	20.13	21.0
40	PI/2 BPSK	1	108	19.95	19.94	19.89	
40	PI/2 BPSK	1	214	20.15	20.13	20.09	
40	PI/2 BPSK	108	0	19.74	19.74	19.77	21.0
40	PI/2 BPSK	108	54	19.78	19.88	19.81	
40	PI/2 BPSK	108	108	19.79	19.98	19.83	
40	PI/2 BPSK	216	0	19.89	19.91	19.87	
40	QPSK	1	1	20.21	20.29	20.28	21.0
40	QPSK	1	108	19.98	20.00	19.95	
40	QPSK	1	214	20.17	20.19	20.11	
40	QPSK	108	0	19.96	19.80	19.76	21.0
40	QPSK	108	54	19.81	19.92	19.86	
40	QPSK	108	108	19.80	20.05	19.79	
40	QPSK	216	0	19.95	19.80	19.89	
40	16QAM	1	1	20.24	20.27	20.27	21.0
40	64QAM	1	1	20.23	20.28	20.24	
40	256QAM	1	1	18.28	18.31	18.29	19.0
Channel				503000	507000	511000	Tune-up limit
Frequency (MHz)				2515	2535	2555	
30	QPSK	1	1	20.21	20.23	20.25	21.0
Channel				502500	507000	511500	Tune-up limit
Frequency (MHz)				2512.5	2535	2557.5	
25	QPSK	1	1	20.24	20.22	20.24	21.0
Channel				502000	507000	512000	Tune-up limit
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	1	20.25	20.25	20.20	21.0
Channel				501500	507000	512000	Tune-up limit
Frequency (MHz)				2507.5	2535	2562.5	
10	QPSK	1	1	20.25	20.23	20.25	21.0
Channel				501000	507000	513000	Tune-up limit
Frequency (MHz)				2505	2535	2565	
5	QPSK	1	1	20.25	20.22	20.25	21.0
Channel				500500	507000	513500	Tune-up limit
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	1	20.25	20.25	20.24	21.0



**n38 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				518004	519000	519996	
Frequency (MHz)				2590.02	2595	2599.98	
40	PI/2 BPSK	1	1	21.52	21.48	21.67	22.5
40	PI/2 BPSK	1	108	21.57	21.55	21.45	
40	PI/2 BPSK	1	214	21.83	21.74	21.61	
40	PI/2 BPSK	108	0	21.49	21.49	21.64	22.5
40	PI/2 BPSK	108	54	21.55	21.63	21.67	
40	PI/2 BPSK	108	108	21.49	21.87	21.85	
40	PI/2 BPSK	216	0	21.72	21.68	21.66	22.5
40	QPSK	1	1	21.78	21.89	21.81	
40	QPSK	1	108	21.57	21.61	21.60	
40	QPSK	1	214	21.66	21.81	21.74	22.5
40	QPSK	108	0	21.74	21.55	21.76	
40	QPSK	108	54	21.68	21.67	21.67	
40	QPSK	108	108	21.54	21.84	21.45	22.5
40	QPSK	216	0	21.68	21.64	21.66	
40	16QAM	1	1	21.58	21.54	21.77	
40	64QAM	1	1	20.49	20.59	20.55	21.0
40	256QAM	1	1	18.52	18.56	18.49	19.0
Channel				517002	519000	520998	Tune-up limit (dBm)
Frequency (MHz)				2585.01	2595	2604.99	
30	QPSK	1	1	21.62	21.77	21.71	22.5
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	1	21.77	21.80	21.81	22.5
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	1	21.74	21.74	21.73	22.5
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	1	21.67	21.66	21.82	22.5

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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				509202	518596	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	21.89	21.92	21.85	22.5
100	PI/2 BPSK	1	137	21.75	21.79	21.77	
100	PI/2 BPSK	1	271	21.95	21.96	21.89	
100	PI/2 BPSK	135	0	21.72	21.71	21.74	22.5
100	PI/2 BPSK	135	69	21.72	21.77	21.78	
100	PI/2 BPSK	135	138	21.78	21.72	21.70	
100	PI/2 BPSK	270	0	21.71	21.79	21.76	
100	QPSK	1	1	21.92	21.99	21.96	22.5
100	QPSK	1	137	21.71	21.85	21.88	
100	QPSK	1	271	21.89	21.95	21.88	
100	QPSK	135	0	21.74	21.72	21.76	22.5
100	QPSK	135	69	21.73	21.78	21.78	
100	QPSK	135	138	21.77	21.73	21.77	
100	QPSK	270	0	21.76	21.76	21.80	
100	16QAM	1	1	21.84	21.87	21.82	22.5
100	64QAM	1	1	20.84	20.86	20.81	21.5
100	256QAM	1	1	18.75	18.83	18.79	20.0
Channel				508200	528996	528996	Tune-up limit
Frequency (MHz)				2541	2592.99	2644.98	(dBm)
90	QPSK	1	1	21.76	21.79	21.93	22.5
Channel				507204	518596	529998	Tune-up limit
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)
80	QPSK	1	1	21.70	21.81	21.80	22.5
Channel				506202	518596	531000	Tune-up limit
Frequency (MHz)				2531.01	2592.99	2655	(dBm)
70	QPSK	1	1	21.70	21.81	21.81	22.5
Channel				505200	518596	531996	Tune-up limit
Frequency (MHz)				2526	2592.99	2659.98	(dBm)
60	QPSK	1	1	21.71	21.70	21.82	22.5
Channel				504204	518596	532998	Tune-up limit
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)
50	QPSK	1	1	21.83	21.91	21.75	22.5
Channel				503202	518596	534000	Tune-up limit
Frequency (MHz)				2516.01	2592.99	2670	(dBm)
40	QPSK	1	1	21.95	21.92	21.92	22.5
Channel				502200	518596	534996	Tune-up limit
Frequency (MHz)				2511	2592.99	2674.98	(dBm)
30	QPSK	1	1	21.70	21.94	21.75	22.5
Channel				501204	518596	535998	Tune-up limit
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)
20	QPSK	1	1	21.83	21.83	21.72	22.5
Channel				500703	518596	536499	Tune-up limit
Frequency (MHz)				2503.52	2592.99	2682.49	(dBm)
15	QPSK	1	1	21.74	21.81	21.88	22.5
Channel				500205	518596	536997	Tune-up limit
Frequency (MHz)				2501.02	2592.99	2684.99	(dBm)
10	QPSK	1	1	21.70	21.91	21.87	22.5