



REPORT No.: SZ25100439S01

Annex E Conducted Power

Note:

Conducted power unit: dBm.

The target power was recorded in the manufacture document.

Full Power

Band		WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)	WCDMA Band V (dBm)			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	22.94	23.01	22.93	24.50	23.34	23.39	23.29	25.00	23.64	23.66	23.58	25.00
3GPP Rel 5	HSDPA Subtest-1	21.08	21.10	21.19	23.00	21.83	21.93	21.78	23.50	22.71	22.70	22.65	24.50
3GPP Rel 5	HSDPA Subtest-2	21.21	21.15	21.20	23.00	21.80	21.91	21.94	23.50	22.62	22.68	22.67	24.50
3GPP Rel 5	HSDPA Subtest-3	20.62	20.77	20.83	22.50	21.38	21.55	21.45	23.00	22.33	22.23	22.29	24.00
3GPP Rel 5	HSDPA Subtest-4	20.73	20.78	20.74	22.50	21.23	21.46	21.43	23.00	22.26	22.23	22.28	24.00
3GPP Rel 6	HSUPA Subtest-1	21.15	21.22	21.27	23.00	22.16	22.18	21.99	23.50	22.69	22.86	22.73	24.50
3GPP Rel 6	HSUPA Subtest-2	20.66	21.07	20.76	22.50	21.76	21.73	21.55	23.50	22.21	22.18	22.33	24.00
3GPP Rel 6	HSUPA Subtest-3	21.21	21.21	21.26	23.00	22.13	22.16	22.13	24.00	22.75	22.64	22.72	24.50
3GPP Rel 6	HSUPA Subtest-4	21.18	21.09	21.13	23.00	22.11	22.19	21.96	23.50	22.69	22.66	22.72	24.50
3GPP Rel 6	HSUPA Subtest-5	21.17	21.19	21.22	23.00	22.16	21.69	21.97	23.50	22.77	22.80	22.73	24.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	21.24	21.33	21.27	23.00	22.32	22.39	22.17	24.00	22.76	22.76	22.75	24.50
Attenuator		Cable Loss			0.8	Cable Loss			0.8	Cable Loss			0.6
Mode		Max.			23.01	Max.			23.39	Max.			23.66
Date		12/10				12/10				12/10			

Band 2 (1900MHz Band) (dBm) Part 24E								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	22.45	22.47	22.40	24	
20	QPSK	1	49	22.44	22.46	22.39		
20	QPSK	1	99	22.36	22.43	22.40		
20	QPSK	50	0	21.50	21.62	21.51	23	
20	QPSK	50	24	21.54	21.48	21.46		
20	QPSK	50	50	21.51	21.54	21.47		
20	QPSK	100	0	21.54	21.55	21.44	23	
20	16QAM	1	0	21.81	21.72	21.55		
20	16QAM	1	49	21.69	21.78	21.73		
20	16QAM	1	99	21.79	21.56	21.83	22	
20	16QAM	50	0	20.50	20.45	20.49		
20	16QAM	50	24	20.71	20.56	20.55		
20	16QAM	50	50	20.58	20.61	20.63	22	
20	16QAM	100	0	20.56	20.58	20.54		
20	64QAM	1	0	20.66	20.80	20.75		
20	64QAM	1	49	20.69	20.73	20.63	22	
20	64QAM	1	99	20.79	20.67	20.49		
20	64QAM	50	0	20.64	20.53	20.53		
20	64QAM	50	24	20.47	20.48	20.55	21	
20	64QAM	50	50	20.60	20.53	20.58		
20	64QAM	100	0	20.52	20.55	20.54		
20	256QAM	1	0	16.67	16.82	16.77	18	
20	256QAM	1	49	16.70	16.75	16.65		
20	256QAM	1	99	16.80	16.69	16.51		
20	256QAM	50	0	16.65	16.55	16.55	18	
20	256QAM	50	24	16.48	16.50	16.57		
20	256QAM	50	50	16.61	16.55	16.60		
20	256QAM	100	0	16.53	16.57	16.56		
Channel				18875	18900	19125	Tune-up limit (dBm)	
Frequency (MHz)				1887.5	1880	1902.5		
15	QPSK	1	0	22.29	22.34	22.25	24	
15	QPSK	1	37	22.33	22.34	22.28		
15	QPSK	1	74	22.19	22.34	22.31		
15	QPSK	36	0	21.38	21.44	21.33	23	
15	QPSK	36	20	21.52	21.33	21.34		
15	QPSK	36	39	21.42	21.39	21.30		
15	QPSK	75	0	21.41	21.39	21.26	23	
15	16QAM	1	0	21.57	21.46	21.29		
15	16QAM	1	37	21.56	21.68	21.48		
15	16QAM	1	74	21.61	21.76	21.62	22	
15	16QAM	36	0	20.41	20.28	20.35		
15	16QAM	36	20	20.47	20.27	20.27		
15	16QAM	36	39	20.34	20.39	20.41	22	
15	16QAM	75	0	20.26	20.34	20.33		
15	64QAM	1	0	20.43	20.59	20.50		
15	64QAM	1	37	20.43	20.43	20.38	22	
15	64QAM	1	74	20.57	20.42	20.23		
15	64QAM	36	0	20.41	20.23	20.26		
15	64QAM	36	20	20.18	20.25	20.28	21	
15	64QAM	36	39	20.36	20.31	20.30		
15	64QAM	75	0	20.26	20.32	20.33		
15	256QAM	1	0	16.46	16.54	16.49	18	
15	256QAM	1	37	16.41	16.52	16.35		
15	256QAM	1	74	16.54	16.39	16.28		
15	256QAM	36	0	16.42	16.32	16.30	18	
15	256QAM	36	20	16.21	16.25	16.35		
15	256QAM	36	39	16.31	16.25	16.33		
15	256QAM	75	0	16.35	16.43	16.41		
Channel				18850	18900	19150	Tune-up limit (dBm)	
Frequency (MHz)				1885	1880	1905		
10	QPSK	1	0	22.36	22.37	22.30	24	
10	QPSK	1	25	22.29	22.33	22.25		
10	QPSK	1	49	22.20	22.34	22.24		
10	QPSK	25	0	21.36	21.53	21.38	23	
10	QPSK	25	12	21.32	21.19	21.25		
10	QPSK	25	25	21.22	21.32	21.20		
10	QPSK	50	0	21.25	21.31	21.18	23	
10	16QAM	1	0	21.55	21.47	21.28		
10	16QAM	1	25	21.55	21.72	21.52		
10	16QAM	1	49	21.57	21.77	21.58	22	
10	16QAM	25	0	20.34	20.33	20.36		
10	16QAM	25	12	20.43	20.29	20.31		
10	16QAM	25	25	20.37	20.32	20.39	22	
10	16QAM	50	0	20.35	20.32	20.25		
10	64QAM	1	0	20.36	20.51	20.53		
10	64QAM	1	25	20.47	20.52	20.41	22	
10	64QAM	1	49	20.54	20.40	20.19		
10	64QAM	25	0	20.43	20.23	20.24		
10	64QAM	25	12	20.19	20.25	20.29	21	
10	64QAM	25	25	20.36	20.31	20.32		
10	64QAM	50	0	20.25	20.26	20.32		
10	256QAM	1	0	16.38	16.53	16.47	18	
10	256QAM	1	25	16.48	16.51	16.38		
10	256QAM	1	49	16.57	16.46	16.26		
10	256QAM	25	0	16.41	16.33	16.29	18	
10	256QAM	25	12	16.22	16.22	16.29		
10	256QAM	25	25	16.35	16.33	16.35		
10	256QAM	50	0	16.28	16.34	16.32		
Channel				18825	18900	19175	Tune-up limit (dBm)	
Frequency (MHz)				1882.5	1880	1907.5		
5	QPSK	1	0	22.35	22.35	22.26	24	
5	QPSK	1	12	22.26	22.28	22.30		
5	QPSK	1	24	22.27	22.33	22.23		
5	QPSK	12	0	21.33	21.49	21.37	23	
5	QPSK	12	7	21.35	21.23	21.17		
5	QPSK	12	13	21.28	21.28	21.17		

Band 4 (AWS Band) (dBm) Part 27L (only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	22.77	22.81	22.80	24.5
20	QPSK	1	49	22.71	22.72	22.73	
20	QPSK	1	99	22.63	22.65	22.68	
20	QPSK	50	0	21.82	21.88	21.75	23.5
20	QPSK	50	24	21.80	21.83	21.84	
20	QPSK	50	50	21.77	21.80	21.86	
20	QPSK	100	0	21.74	21.83	21.78	23.5
20	16QAM	1	0	21.66	21.72	21.78	
20	16QAM	1	49	21.72	21.78	21.63	
20	16QAM	1	99	21.79	21.78	21.89	22.5
20	16QAM	50	0	20.85	20.81	20.86	
20	16QAM	50	24	20.88	20.77	20.81	
20	16QAM	50	50	20.93	20.79	20.80	22.5
20	16QAM	100	0	20.85	20.84	20.82	
20	64QAM	1	0	20.97	20.91	20.95	
20	64QAM	1	49	20.77	20.79	20.95	22.5
20	64QAM	1	99	20.87	20.88	20.99	
20	64QAM	50	0	20.79	20.76	20.77	
20	64QAM	50	24	20.78	20.80	20.93	21.5
20	64QAM	50	50	20.82	20.79	20.97	
20	64QAM	100	0	20.80	20.77	20.88	
20	256QAM	1	0	17.00	16.94	16.98	18.5
20	256QAM	1	49	16.80	16.82	16.98	
20	256QAM	1	99	16.90	16.91	17.02	
20	256QAM	50	0	16.82	16.79	16.80	18.5
20	256QAM	50	24	16.81	16.83	16.96	
20	256QAM	50	50	16.85	16.82	17.00	
20	256QAM	100	0	16.83	16.80	16.91	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.68	22.69	22.66	24.5
15	QPSK	1	37	22.61	22.57	22.66	
15	QPSK	1	74	22.52	22.55	22.59	
15	QPSK	36	0	21.68	21.77	21.68	23.5
15	QPSK	36	20	21.72	21.72	21.75	
15	QPSK	36	39	21.66	21.66	21.74	
15	QPSK	75	0	21.61	21.74	21.68	23.5
15	16QAM	1	0	21.81	22.00	21.63	
15	16QAM	1	37	22.09	22.04	22.04	
15	16QAM	1	74	21.71	21.72	21.78	22.5
15	16QAM	36	0	20.72	20.75	20.78	
15	16QAM	36	20	20.76	20.71	20.75	
15	16QAM	36	39	20.81	20.65	20.74	22.5
15	16QAM	75	0	20.77	20.78	20.75	
15	64QAM	1	0	20.85	20.84	20.80	
15	64QAM	1	37	20.82	20.85	20.84	22.5
15	64QAM	1	74	20.72	20.78	20.93	
15	64QAM	36	0	20.73	20.68	20.70	
15	64QAM	36	20	20.68	20.65	20.81	21.5
15	64QAM	36	39	20.67	20.70	20.66	
15	64QAM	75	0	20.70	20.63	20.81	
15	256QAM	1	0	16.93	16.79	16.85	18.5
15	256QAM	1	37	16.70	16.68	16.92	
15	256QAM	1	74	16.84	16.80	16.88	
15	256QAM	36	0	16.75	16.66	16.66	18.5
15	256QAM	36	20	16.68	16.74	16.90	
15	256QAM	36	39	16.76	16.69	16.85	
15	256QAM	75	0	16.69	16.74	16.84	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	22.85	22.74	22.69	24.5
10	QPSK	1	25	22.59	22.61	22.61	
10	QPSK	1	49	22.54	22.51	22.54	
10	QPSK	25	0	21.69	21.80	21.62	23.5
10	QPSK	25	12	21.67	21.75	21.76	
10	QPSK	25	25	21.66	21.72	21.79	
10	QPSK	50	0	21.81	21.69	21.71	23.5
10	16QAM	1	0	21.82	22.05	21.72	
10	16QAM	1	25	22.03	22.11	21.99	
10	16QAM	1	49	21.87	21.71	21.79	22.5
10	16QAM	25	0	20.76	20.69	20.77	
10	16QAM	25	12	20.82	20.62	20.70	
10	16QAM	25	25	20.83	20.72	20.69	22.5
10	16QAM	50	0	20.79	20.72	20.73	
10	64QAM	1	0	20.82	20.78	20.86	
10	64QAM	1	25	20.71	20.72	20.89	22.5
10	64QAM	1	49	20.77	20.74	20.89	
10	64QAM	25	0	20.71	20.68	20.70	
10	64QAM	25	12	20.70	20.68	20.85	21.5
10	64QAM	25	25	20.71	20.67	20.82	
10	64QAM	50	0	20.65	20.64	20.79	
10	256QAM	1	0	16.93	16.88	16.83	18.5
10	256QAM	1	25	16.72	16.72	16.87	
10	256QAM	1	49	16.77	16.85	16.88	
10	256QAM	25	0	16.72	16.70	16.67	18.5
10	256QAM	25	12	16.75	16.73	16.82	
10	256QAM	25	25	16.74	16.73	16.87	
10	256QAM	50	0	16.75	16.73	16.76	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	22.64	22.70	22.67	24.5
5	QPSK	1	12	22.62	22.58	22.59	
5	QPSK	1	24	22.55	22.55	22.55	
5	QPSK	12	0	21.73	21.82	21.60	23.5
5	QPSK	12	7	21.67	21.77	21.69	
5	QPSK	12	13	21.63	21.65	21.72	

5	QPSK	25	0	21.32	21.31	21.16	23
5	16QAM	1	0	21.27	21.26	21.07	
5	16QAM	1	12	21.30	21.46	21.27	
5	16QAM	1	24	21.35	21.46	21.31	
5	16QAM	12	0	20.16	20.06	20.13	22
5	16QAM	12	7	20.17	20.07	20.03	
5	16QAM	12	13	20.09	20.09	20.15	
5	16QAM	25	0	20.03	20.05	20.01	
5	64QAM	1	0	20.13	20.33	20.25	22
5	64QAM	1	12	20.16	20.24	20.14	
5	64QAM	1	24	20.32	20.20	20.01	
5	64QAM	12	0	20.42	20.32	20.30	
5	64QAM	12	7	20.24	20.21	20.29	21
5	64QAM	12	13	20.36	20.24	20.37	
5	64QAM	25	0	20.31	20.32	20.25	
5	256QAM	1	0	16.46	16.54	16.54	
5	256QAM	1	12	16.45	16.47	16.42	18
5	256QAM	1	24	16.50	16.40	16.27	
5	256QAM	12	0	16.44	16.32	16.32	
5	256QAM	12	7	16.20	16.20	16.32	
5	256QAM	12	13	16.34	16.28	16.31	18
5	256QAM	25	0	16.23	16.34	16.29	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	22.26	22.36	22.22	24
3	QPSK	1	8	22.30	22.35	22.26	
3	QPSK	1	14	22.10	22.13	22.11	
3	QPSK	8	0	21.23	21.35	21.27	
3	QPSK	8	4	21.31	21.25	21.24	23
3	QPSK	8	7	21.27	21.26	21.24	
3	QPSK	15	0	21.24	21.26	21.18	
3	16QAM	1	0	21.27	21.27	21.04	
3	16QAM	1	8	21.31	21.45	21.27	23
3	16QAM	1	14	21.37	21.48	21.36	
3	16QAM	8	0	20.11	20.04	20.10	
3	16QAM	8	4	20.24	20.04	20.05	
3	16QAM	8	7	20.04	20.10	20.16	22
3	16QAM	15	0	20.03	20.06	20.07	
3	64QAM	1	0	20.21	20.29	20.29	
3	64QAM	1	8	20.21	20.23	20.10	
3	64QAM	1	14	20.33	20.18	19.95	21
3	64QAM	8	0	20.36	20.23	20.23	
3	64QAM	8	4	20.22	20.21	20.25	
3	64QAM	8	7	20.31	20.25	20.34	
3	64QAM	15	0	20.25	20.27	20.31	18
3	256QAM	1	0	16.40	16.52	16.56	
3	256QAM	1	8	16.47	16.51	16.42	
3	256QAM	1	14	16.55	16.45	16.26	
3	256QAM	8	0	16.39	16.30	16.26	18
3	256QAM	8	4	16.19	16.27	16.28	
3	256QAM	8	7	16.39	16.34	16.31	
3	256QAM	15	0	16.23	16.32	16.27	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	22.17	22.27	22.13	24
1.4	QPSK	1	3	22.21	22.26	22.17	
1.4	QPSK	1	5	22.01	22.04	22.02	
1.4	QPSK	3	0	21.14	21.26	21.18	
1.4	QPSK	3	1	21.22	21.16	21.15	23
1.4	QPSK	3	3	21.18	21.17	21.15	
1.4	QPSK	6	0	21.15	21.17	21.09	
1.4	16QAM	1	0	21.18	21.18	20.95	
1.4	16QAM	1	3	21.22	21.36	21.18	23
1.4	16QAM	1	5	21.28	21.39	21.27	
1.4	16QAM	3	0	20.02	19.95	20.01	
1.4	16QAM	3	1	20.15	19.95	19.96	
1.4	16QAM	3	3	19.95	20.01	20.07	22
1.4	16QAM	6	0	19.94	19.97	19.98	
1.4	64QAM	1	0	20.12	20.20	20.20	
1.4	64QAM	1	3	20.12	20.14	20.01	
1.4	64QAM	1	5	20.24	20.09	20.06	22
1.4	64QAM	3	0	20.29	20.14	20.14	
1.4	64QAM	3	1	20.13	20.12	20.16	
1.4	64QAM	3	3	20.22	20.16	20.25	
1.4	64QAM	6	0	20.16	20.18	20.22	21
1.4	256QAM	1	0	16.31	16.43	16.47	
1.4	256QAM	1	3	16.38	16.42	16.33	
1.4	256QAM	1	5	16.46	16.36	16.17	
1.4	256QAM	3	0	16.30	16.21	16.17	
1.4	256QAM	3	1	16.10	16.18	16.19	18
1.4	256QAM	3	3	16.30	16.25	16.22	
1.4	256QAM	6	0	16.14	16.23	16.18	

5	QPSK	25	0	21.64	21.75	21.64	23.5
5	16QAM	1	0	21.79	22.12	21.70	
5	16QAM	1	12	22.09	22.13	21.98	
5	16QAM	1	24	21.71	21.64	21.79	
5	16QAM	12	0	20.71	20.73	20.76	22.5
5	16QAM	12	7	20.73	20.64	20.70	
5	16QAM	12	13	20.85	20.72	20.66	
5	16QAM	25	0	20.73	20.73	20.67	
5	64QAM	1	0	20.91	20.85	20.83	22.5
5	64QAM	1	12	20.82	20.86	20.86	
5	64QAM	1	24	20.81	20.77	20.92	
5	64QAM	12	0	20.64	20.65	20.69	
5	64QAM	12	7	20.71	20.72	20.82	21.5
5	64QAM	12	13	20.70	20.68	20.91	
5	64QAM	25	0	20.65	20.64	20.82	
5	256QAM	1	0	16.93	16.87	16.86	
5	256QAM	1	12	16.72	16.76	16.90	18.5
5	256QAM	1	24	16.76	16.79	16.91	
5	256QAM	12	0	16.75	16.69	16.71	
5	256QAM	12	7	16.69	16.70	16.86	
5	256QAM	12	13	16.77	16.73	16.93	18.5
5	256QAM	25	0	16.69	16.66	16.80	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	22.64	22.73	22.67	24.5
3	QPSK	1	8	22.65	22.58	22.67	
3	QPSK	1	14	22.51	22.56	22.59	
3	QPSK	8	0	21.68	21.78	21.67	
3	QPSK	8	4	21.68	21.76	21.76	23.5
3	QPSK	8	7	21.63	21.73	21.71	
3	QPSK	15	0	21.61	21.73	21.69	
3	16QAM	1	0	21.79	22.06	21.68	
3	16QAM	1	8	22.05	22.14	21.99	23.5
3	16QAM	1	14	21.67	21.67	21.81	
3	16QAM	8	0	20.75	20.68	20.76	
3	16QAM	8	4	20.77	20.70	20.72	
3	16QAM	8	7	20.85	20.67	20.69	22.5
3	16QAM	15	0	20.73	20.72	20.73	
3	64QAM	1	0	20.86	20.82	20.80	
3	64QAM	1	8	20.85	20.85	20.85	
3	64QAM	1	14	20.78	20.74	20.86	21.5
3	64QAM	8	0	20.68	20.66	20.68	
3	64QAM	8	4	20.63	20.66	20.83	
3	64QAM	8	7	20.74	20.68	20.87	
3	64QAM	15	0	20.74	20.69	20.73	18.5
3	256QAM	1	0	16.86	16.88	16.86	
3	256QAM	1	8	16.67	16.74	16.91	
3	256QAM	1	14	16.75	16.83	16.88	
3	256QAM	8	0	16.69	16.64	16.66	
3	256QAM	8	4	16.66	16.75	16.88	18.5
3	256QAM	8	7	16.71	16.73	16.92	
3	256QAM	15	0	16.73	16.70	16.85	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.66	22.67	22.67	24.5
1.4	QPSK	1	3	22.60	22.57	22.65	
1.4	QPSK	1	5	22.56	22.59	22.54	
1.4	QPSK	3	0	22.73	22.80	22.65	
1.4	QPSK	3	1	22.68	22.73	22.76	23.5
1.4	QPSK	3	3	22.71	22.71	22.71	
1.4	QPSK	6	0	21.59	21.69	21.64	
1.4	16QAM	1	0	21.85	22.05	21.71	
1.4	16QAM	1	3	22.07	22.14	22.02	23.5
1.4	16QAM	1	5	21.65	21.68	21.78	
1.4	16QAM	3	0	21.77	21.75	21.71	
1.4	16QAM	3	1	21.81	21.65	21.70	
1.4	16QAM	3	3	21.78	21.73	21.70	22.5
1.4	16QAM	6	0	20.79	20.74	20.76	
1.4	64QAM	1	0	20.82	20.79	20.82	
1.4	64QAM	1	3	20.71	20.66	20.87	
1.4	64QAM	1	5	20.79	20.75	20.93	22.5
1.4	64QAM	3	0	20.65	20.65	20.71	
1.4	64QAM	3	1	20.63	20.65	20.83	
1.4	64QAM	3	3	20.69	20.72	20.83	
1.4	64QAM	6	0	20.70	20.71	20.81	21.5
1.4	256QAM	1	0	16.93	16.81	16.87	
1.4	256QAM	1	3	16.67	16.68	16.85	
1.4	256QAM	1	5	16.80	16.80	16.89	
1.4	256QAM	3	0	16.69	16.70	16.72	
1.4	256QAM	3	1	16.67	16.77	16.90	18.5
1.4	256QAM	3	3	16.77	16.75	16.88	
1.4	256QAM	6	0	16.76	16.68	16.76	

Band 5 (Celluar Band) (dBm) Part 22H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	24.5
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	22.84	22.85	22.77	23.5
10	QPSK	1	25	22.80	22.83	22.72	
10	QPSK	1	49	22.72	22.79	22.54	23.5
10	QPSK	25	0	21.90	21.98	21.84	
10	QPSK	25	12	21.97	21.94	21.89	22.5
10	QPSK	25	25	21.89	21.85	21.88	
10	QPSK	50	0	21.78	21.80	21.77	23.5
10	16QAM	1	0	21.87	21.77	21.73	
10	16QAM	1	25	21.86	22.04	21.90	22.5
10	16QAM	1	49	21.83	21.84	21.76	
10	16QAM	25	0	20.82	20.73	20.70	22.5
10	16QAM	25	12	20.74	20.70	20.67	
10	16QAM	25	25	20.82	20.78	20.73	22.5
10	16QAM	50	0	20.86	20.72	20.69	
10	64QAM	1	0	20.88	20.95	20.84	22.5
10	64QAM	1	25	20.75	20.73	20.79	
10	64QAM	1	49	20.90	20.70	20.86	21.5
10	64QAM	25	0	20.85	20.78	20.73	
10	64QAM	25	12	20.93	20.73	20.78	21.5
10	64QAM	25	25	20.77	20.78	20.73	
10	64QAM	50	0	20.78	20.75	20.77	18.5
10	256QAM	1	0	16.92	16.99	16.88	
10	256QAM	1	25	16.79	16.77	16.83	18.5
10	256QAM	1	49	16.94	16.74	16.90	
10	256QAM	25	0	16.89	16.82	16.77	18.5
10	256QAM	25	12	16.97	16.77	16.82	
10	256QAM	25	25	16.81	16.82	16.77	18.5
10	256QAM	50	0	16.82	16.79	16.81	
Channel				20425	20525	20625	24.5
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	22.69	22.70	22.62	23.5
5	QPSK	1	12	22.65	22.65	22.58	
5	QPSK	1	24	22.55	22.62	22.36	23.5
5	QPSK	12	0	21.77	21.83	21.59	
5	QPSK	12	7	21.81	21.79	21.74	23.5
5	QPSK	12	13	21.67	21.69	21.66	
5	QPSK	25	0	21.71	21.69	21.74	23.5
5	16QAM	1	0	21.85	21.76	21.71	
5	16QAM	1	12	21.84	22.04	21.90	22.5
5	16QAM	1	24	21.83	21.80	21.76	
5	16QAM	12	0	20.76	20.72	20.63	22.5
5	16QAM	12	7	20.70	20.69	20.61	
5	16QAM	12	13	20.75	20.74	20.68	22.5
5	16QAM	25	0	20.84	20.65	20.62	
5	64QAM	1	0	20.70	20.77	20.70	22.5
5	64QAM	1	12	20.53	20.60	20.62	
5	64QAM	1	24	20.73	20.49	20.65	21.5
5	64QAM	12	0	20.66	20.62	20.55	
5	64QAM	12	7	20.77	20.56	20.60	21.5
5	64QAM	12	13	20.57	20.57	20.51	
5	64QAM	25	0	20.75	20.73	20.76	18.5
5	256QAM	1	0	16.76	16.79	16.75	
5	256QAM	1	12	16.65	16.64	16.67	18.5
5	256QAM	1	24	16.74	16.60	16.74	
5	256QAM	12	0	16.71	16.64	16.55	18.5
5	256QAM	12	7	16.76	16.59	16.61	
5	256QAM	12	13	16.59	16.62	16.58	18.5
5	256QAM	25	0	16.66	16.66	16.62	
Channel				20415	20525	20635	24.5
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	22.56	22.64	22.60	23.5
3	QPSK	1	8	22.63	22.61	22.49	
3	QPSK	1	14	22.47	22.56	22.30	23.5
3	QPSK	8	0	21.67	21.78	21.56	
3	QPSK	8	4	21.77	21.75	21.68	23.5
3	QPSK	8	7	21.49	21.54	21.52	
3	QPSK	15	0	21.54	21.53	21.57	23.5
3	16QAM	1	0	21.68	21.52	21.53	
3	16QAM	1	8	21.68	21.86	21.67	22.5
3	16QAM	1	14	21.60	21.58	21.58	
3	16QAM	8	0	20.63	20.51	20.47	22.5
3	16QAM	8	4	20.49	20.51	20.50	
3	16QAM	8	7	20.60	20.52	20.49	22.5
3	16QAM	15	0	20.66	20.53	20.50	
3	64QAM	1	0	20.64	20.70	20.65	22.5
3	64QAM	1	8	20.58	20.52	20.62	
3	64QAM	1	14	20.70	20.51	20.67	21.5
3	64QAM	8	0	20.64	20.53	20.53	
3	64QAM	8	4	20.73	20.56	20.58	21.5
3	64QAM	8	7	20.59	20.53	20.51	
3	64QAM	15	0	20.52	20.58	20.52	18.5
3	256QAM	1	0	16.71	16.75	16.68	
3	256QAM	1	8	16.59	16.54	16.64	18.5
3	256QAM	1	14	16.69	16.51	16.73	
3	256QAM	8	0	16.86	16.72	16.65	18.5
3	256QAM	8	4	16.88	16.72	16.79	
3	256QAM	8	7	16.73	16.74	16.70	18.5
3	256QAM	15	0	16.74	16.75	16.72	
Channel				20407	20525	20643	24.5
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	22.60	22.61	22.48	24.5
1.4	QPSK	1	3	22.53	22.53	22.42	
1.4	QPSK	1	5	22.49	22.54	22.27	24.5
1.4	QPSK	3	0	22.49	22.60	22.34	
1.4	QPSK	3	1	22.55	22.52	22.45	24.5
1.4	QPSK	3	3	22.44	22.48	22.51	

Band 7 (2600MHz Band) (dBm) Part 27							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	23.5
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	21.76	21.82	21.78	22.5
20	QPSK	1	49	21.68	21.75	21.80	
20	QPSK	1	99	21.79	21.80	21.81	22.5
20	QPSK	50	0	20.89	21.02	21.01	
20	QPSK	50	24	20.96	21.01	21.00	22.5
20	QPSK	50	50	20.99	20.98	21.00	
20	QPSK	100	0	20.94	20.96	20.91	22.5
20	16QAM	1	0	20.90	20.84	20.89	
20	16QAM	1	49	20.97	20.96	20.88	21.5
20	16QAM	1	99	20.98	21.03	20.99	
20	16QAM	50	0	19.88	20.03	20.09	21.5
20	16QAM	50	24	19.92	19.97	19.89	
20	16QAM	50	50	19.91	20.02	19.87	21.5
20	16QAM	100	0	19.90	19.95	20.00	
20	64QAM	1	0	19.93	19.97	20.01	21.5
20	64QAM	1	49	19.97	20.03	19.78	
20	64QAM	1	99	19.92	19.79	19.69	20.5
20	64QAM	50	0	19.89	19.93	19.97	
20	64QAM	50	24	19.89	20.02	19.81	20.5
20	64QAM	50	50	19.86	20.01	19.95	
20	64QAM	100	0	19.94	19.93	19.83	18
20	256QAM	1	0	16.46	16.50	16.54	
20	256QAM	1	49	16.50	16.56	16.31	18
20	256QAM	1	99	16.45	16.32	16.22	
20	256QAM	50	0	16.42	16.46	16.50	18
20	256QAM	50	24	16.42	16.55	16.34	
20	256QAM	50	50	16.39	16.54	16.48	18
20	256QAM	100	0	16.47	16.46	16.36	
Channel				20825	21100	21375	23.5
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	21.68	21.74	21.70	22.5
15	QPSK	1	37	21.60	21.67	21.72	
15	QPSK	1	74	21.71	21.72	21.73	22.5
15	QPSK	36	0	20.81	20.94	20.93	
15	QPSK	36	20	20.88	20.93	20.92	22.5
15	QPSK	36	39	20.91	20.90	20.92	
15	QPSK	75	0	20.86	20.88	20.83	22.5
15	16QAM	1	0	20.82	20.76	20.81	
15	16QAM	1	37	20.89	20.88	20.80	21.5
15	16QAM	1	74	20.90	20.95	20.91	
15	16QAM	36	0	19.80	19.95	20.01	21.5
15	16QAM	36	20	19.84	19.89	19.81	
15	16QAM	36	39	19.83	19.94	19.79	21.5
15	16QAM	75	0	19.82	19.87	19.92	
15	64QAM	1	0	19.85	19.89	19.93	20.5
15	64QAM	1	37	19.89	19.95	19.70	
15	64QAM	1	74	19.84	19.71	19.61	20.5
15	64QAM	36	0	19.81	19.85	19.89	
15	64QAM	36	20	19.81	19.94	19.73	20.5
15	64QAM	36	39	19.78	19.93	19.87	
15	64QAM	75	0	19.86	19.85	19.75	18</

1.4	QPSK	6	0	21.55	21.45	21.46	23.5
1.4	16QAM	1	0	21.62	21.50	21.43	23.5
1.4	16QAM	1	3	21.62	21.80	21.58	
1.4	16QAM	1	5	21.60	21.57	21.49	
1.4	16QAM	3	0	21.65	21.58	21.60	
1.4	16QAM	3	1	21.64	21.59	21.53	
1.4	16QAM	3	3	21.65	21.65	21.63	22.5
1.4	16QAM	6	0	20.76	20.62	20.59	
1.4	64QAM	1	0	20.79	20.81	20.67	22.5
1.4	64QAM	1	3	20.60	20.57	20.62	
1.4	64QAM	1	5	20.76	20.52	20.76	
1.4	64QAM	3	0	20.70	20.69	20.62	
1.4	64QAM	3	1	20.77	20.58	20.81	
1.4	64QAM	3	3	20.60	20.60	20.57	21.5
1.4	64QAM	6	0	20.68	20.65	20.65	
1.4	256QAM	1	0	16.76	16.90	16.78	18.5
1.4	256QAM	1	3	16.66	16.64	16.65	
1.4	256QAM	1	5	16.80	16.56	16.77	
1.4	256QAM	3	0	16.72	16.65	16.65	
1.4	256QAM	3	1	16.88	16.68	16.69	
1.4	256QAM	3	3	16.69	16.66	16.60	18.5
1.4	256QAM	6	0	16.64	16.61	16.63	

5	QPSK	25	0	20.73	20.75	20.70	22.5
5	16QAM	1	0	20.69	20.63	20.68	
5	16QAM	1	12	20.76	20.75	20.67	
5	16QAM	1	24	20.77	20.82	20.78	
5	16QAM	12	0	19.67	19.82	19.88	
5	16QAM	12	7	19.71	19.76	19.66	21.5
5	16QAM	12	13	19.70	19.81	19.66	
5	16QAM	25	0	19.69	19.74	19.79	
5	64QAM	1	0	19.72	19.76	19.80	
5	64QAM	1	12	19.76	19.82	19.57	
5	64QAM	1	24	19.71	19.58	19.48	20.5
5	64QAM	12	0	19.68	19.72	19.76	
5	64QAM	12	7	19.68	19.81	19.60	
5	64QAM	12	13	19.65	19.80	19.74	
5	64QAM	25	0	19.73	19.72	19.62	
5	256QAM	1	0	16.25	16.29	16.33	18
5	256QAM	1	12	16.29	16.35	16.10	
5	256QAM	1	24	16.24	16.11	16.01	
5	256QAM	12	0	16.21	16.25	16.29	
5	256QAM	12	7	16.21	16.34	16.13	
5	256QAM	12	13	16.18	16.33	16.27	18
5	256QAM	25	0	16.26	16.25	16.15	

Band 12 (700MHz Low Band) (dBm) Part 27F(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	24.5
10	QPSK	1	0	23.04	23.06	22.97	
10	QPSK	1	25	22.97	23.00	23.01	23.5
10	QPSK	1	49	22.87	23.02	23.04	
10	QPSK	25	0	22.03	22.08	22.07	23.5
10	QPSK	25	12	22.05	21.96	22.03	
10	QPSK	25	25	22.05	22.00	21.97	23.5
10	QPSK	50	0	21.99	21.98	22.04	
10	16QAM	1	0	22.23	22.20	22.07	23.5
10	16QAM	1	25	21.98	22.05	22.05	
10	16QAM	1	49	22.03	21.98	22.09	22.5
10	16QAM	25	0	21.01	21.03	21.14	
10	16QAM	25	12	20.99	21.04	21.01	22.5
10	16QAM	25	25	21.11	21.08	21.10	
10	16QAM	50	0	21.15	21.09	21.06	22.5
10	64QAM	1	0	21.15	21.10	21.00	
10	64QAM	1	25	21.21	21.16	21.14	21.5
10	64QAM	1	49	21.27	21.29	21.23	
10	64QAM	25	0	20.99	21.19	21.03	21.5
10	64QAM	25	12	21.06	21.12	21.14	
10	64QAM	25	25	21.01	21.08	21.02	19
10	64QAM	50	0	21.05	21.03	21.06	
10	256QAM	1	0	17.53	17.48	17.38	19
10	256QAM	1	25	17.59	17.54	17.52	
10	256QAM	1	49	17.65	17.67	17.61	19
10	256QAM	25	0	17.37	17.57	17.41	
10	256QAM	25	12	17.44	17.50	17.52	19
10	256QAM	25	25	17.39	17.46	17.40	
10	256QAM	50	0	17.43	17.41	17.44	24.5
Channel				23035	23095	23155	
Frequency (MHz)				701.5	707.5	713.5	24.5
5	QPSK	1	0	22.91	22.93	22.84	
5	QPSK	1	12	22.84	22.87	22.88	23.5
5	QPSK	1	24	22.74	22.89	22.91	
5	QPSK	12	0	21.90	21.95	21.94	23.5
5	QPSK	12	7	21.92	21.83	21.90	
5	QPSK	12	13	21.92	21.87	21.84	23.5
5	QPSK	25	0	21.86	21.85	21.91	
5	16QAM	1	0	22.10	22.07	21.94	23.5
5	16QAM	1	12	21.85	21.92	21.92	
5	16QAM	1	24	21.90	21.85	21.96	22.5
5	16QAM	12	0	20.88	20.90	21.01	
5	16QAM	12	7	20.86	20.91	20.88	22.5
5	16QAM	12	13	20.98	20.95	20.97	
5	16QAM	25	0	21.02	20.96	20.93	22.5
5	64QAM	1	0	21.02	20.97	20.87	
5	64QAM	1	12	21.08	21.03	21.01	21.5
5	64QAM	1	24	21.14	21.16	21.10	
5	64QAM	12	0	20.86	21.06	20.90	21.5
5	64QAM	12	7	20.93	20.99	21.01	
5	64QAM	12	13	20.88	20.95	20.89	19
5	64QAM	25	0	20.92	20.90	20.93	
5	256QAM	1	0	17.49	17.44	17.34	19
5	256QAM	1	12	17.55	17.50	17.48	
5	256QAM	1	24	17.61	17.63	17.57	19
5	256QAM	12	0	17.33	17.53	17.37	
5	256QAM	12	7	17.40	17.46	17.48	19
5	256QAM	12	13	17.35	17.42	17.36	
5	256QAM	25	0	17.39	17.37	17.40	24.5
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	24.5
3	QPSK	1	0	22.82	22.84	22.75	
3	QPSK	1	8	22.75	22.78	22.79	23.5
3	QPSK	1	14	22.65	22.80	22.82	
3	QPSK	8	0	21.81	21.86	21.85	23.5
3	QPSK	8	4	21.83	21.74	21.81	
3	QPSK	8	7	21.83	21.76	21.75	23.5
3	QPSK	15	0	21.77	21.76	21.82	
3	16QAM	1	0	22.01	21.98	21.85	23.5
3	16QAM	1	8	21.76	21.83	21.83	
3	16QAM	1	14	21.81	21.76	21.87	22.5
3	16QAM	8	0	20.79	20.81	20.92	
3	16QAM	8	4	20.77	20.82	20.79	22.5
3	16QAM	8	7	20.89	20.86	20.88	
3	16QAM	15	0	20.93	20.87	20.84	22.5
3	64QAM	1	0	20.93	20.88	20.78	
3	64QAM	1	8	20.99	20.94	20.92	21.5
3	64QAM	1	14	21.05	21.07	21.01	
3	64QAM	8	0	20.77	20.97	20.81	21.5
3	64QAM	8	4	20.84	20.90	20.92	
3	64QAM	8	7	20.79	20.86	20.80	19
3	64QAM	15	0	20.83	20.81	20.84	
3	256QAM	1	0	17.40	17.35	17.25	19
3	256QAM	1	8	17.46	17.41	17.39	
3	256QAM	1	14	17.52	17.54	17.48	19
3	256QAM	8	0	17.24	17.44	17.28	
3	256QAM	8	4	17.31	17.37	17.39	19
3	256QAM	8	7	17.26	17.33	17.27	
3	256QAM	15	0	17.30	17.28	17.31	24.5
Channel				23017	23095	23173	
Frequency (MHz)				699.7	707.5	715.3	24.5
1.4	QPSK	1	0	22.74	22.76	22.67	
1.4	QPSK	1	3	22.67	22.70	22.71	24.5
1.4	QPSK	1	5	22.57	22.72	22.74	
1.4	QPSK	3	0	21.73	21.78	21.77	24.5
1.4	QPSK	3	1	21.75	21.66	21.73	
1.4	QPSK	3	3	21.75	21.70	21.67	24.5

Band 13(700MHz Band) (dBm) Part 27F							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0		23.08		24.5
10	QPSK	1	25		23.01		
10	QPSK	1	49		22.91		
10	QPSK	25	0		22.09		23.5
10	QPSK	25	12		22.01		
10	QPSK	25	25		22.02		
10	QPSK	50	0		22.03		23.5
10	16QAM	1	0		22.18		
10	16QAM	1	25		22.15		
10	16QAM	1	49		22.26		22.5
10	16QAM	25	0		21.12		
10	16QAM	25	12		21.12		
10	16QAM	25	25		21.04		22.5
10	16QAM	50	0		21.08		
10	64QAM	1	0		21.20		
10	64QAM	1	25		21.29		22.5
10	64QAM	1	49		21.23		
10	64QAM	25	0		21.10		
10	64QAM	25	12		21.07		21.5
10	64QAM	25	25		21.11		
10	64QAM	50	0		21.02		
10	256QAM	1	0		17.58		19
10	256QAM	1	25		17.67		
10	256QAM	1	49		17.61		
10	256QAM	25	0		17.48		19
10	256QAM	25	12		17.45		
10	256QAM	25	25		17.49		
10	256QAM	50	0		17.40		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	22.88	22.89	22.86	24.5
5	QPSK	1	12	22.83	22.79	22.85	
5	QPSK	1	24	22.70	22.67	22.76	
5	QPSK	12	0	21.93	21.89	21.90	23.5
5	QPSK	12	7	21.88	21.85	21.88	
5	QPSK	12	13	21.87	21.85	21.79	
5	QPSK	25	0	21.79	21.85	21.79	23.5
5	16QAM	1	0	22.02	22.03	22.02	
5	16QAM	1	12	21.93	21.99	21.93	
5	16QAM	1	24	22.06	22.03	22.04	22.5
5	16QAM	12	0	20.93	20.94	20.96	
5	16QAM	12	7	20.89	20.90	20.92	
5	16QAM	12	13	20.82	20.85	20.88	22.5
5	16QAM	25	0	20.91	20.84	20.91	
5	64QAM	1	0	21.04	20.98	21.04	
5	64QAM	1	12	21.06	21.11	21.13	22.5
5	64QAM	1	24	20.99	21.02	20.99	
5	64QAM	12	0	20.95	20.95	20.86	
5	64QAM	12	7	20.88	20.83	20.90	21.5
5	64QAM	12	13	20.95	20.93	20.90	
5	64QAM	25	0	20.82	20.85	20.84	
5	256QAM	1	0	17.48	17.50	17.56	19
5	256QAM	1	12	17.62	17.60	17.61	
5	256QAM	1	24	17.54	17.51	17.51	
5	256QAM	12	0	17.40	17.42	17.38	19
5	256QAM	12	7	17.39	17.43	17.41	
5	256QAM	12	13	17.45	17.47	17.45	
5	256QAM	25	0	17.36	17.39	17.36	

1.4	QPSK	6	0	21.69	21.68	21.74	23.5
1.4	16QAM	1	0	21.93	21.90	21.77	23.5
1.4	16QAM	1	3	21.68	21.75	21.75	
1.4	16QAM	1	5	21.73	21.68	21.79	
1.4	16QAM	3	0	20.71	20.73	20.84	
1.4	16QAM	3	1	20.69	20.74	20.71	
1.4	16QAM	3	3	20.81	20.78	20.80	
1.4	16QAM	6	0	20.85	20.79	20.76	22.5
1.4	64QAM	1	0	20.85	20.80	20.70	22.5
1.4	64QAM	1	3	20.91	20.86	20.84	
1.4	64QAM	1	5	20.97	20.99	20.93	
1.4	64QAM	3	0	20.69	20.89	20.73	
1.4	64QAM	3	1	20.76	20.82	20.84	
1.4	64QAM	3	3	20.71	20.78	20.72	
1.4	64QAM	6	0	20.75	20.73	20.76	21.5
1.4	256QAM	1	0	17.32	17.27	17.17	19
1.4	256QAM	1	3	17.38	17.33	17.31	
1.4	256QAM	1	5	17.44	17.46	17.40	
1.4	256QAM	3	0	17.16	17.36	17.20	
1.4	256QAM	3	1	17.23	17.29	17.31	
1.4	256QAM	3	3	17.18	17.25	17.19	
1.4	256QAM	6	0	17.22	17.20	17.23	19

Band 14 (700MHz Band) (dBm)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23330			
Frequency (MHz)				793			
10	QPSK	1	0		23.01		24.5
10	QPSK	1	25		22.94		
10	QPSK	1	49		22.84		
10	QPSK	25	0		22.02		23.5
10	QPSK	25	12		21.94		
10	QPSK	25	25		21.95		
10	QPSK	50	0		21.96		23.5
10	16QAM	1	0		22.11		
10	16QAM	1	25		22.08		
10	16QAM	1	49		22.19		22.5
10	16QAM	25	0		21.05		
10	16QAM	25	12		21.05		
10	16QAM	25	25		20.97		22.5
10	16QAM	50	0		21.01		
10	64QAM	1	0		21.13		
10	64QAM	1	25		21.22		21.5
10	64QAM	1	49		21.16		
10	64QAM	25	0		21.03		
10	64QAM	25	12		21.00		19
10	64QAM	25	25		21.04		
10	64QAM	50	0		20.95		
10	256QAM	1	0		17.51		19
10	256QAM	1	25		17.60		
10	256QAM	1	49		17.54		
10	256QAM	25	0		17.41		19
10	256QAM	25	12		17.38		
10	256QAM	25	25		17.42		
10	256QAM	50	0		17.33		
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	22.81	22.82	22.79	24.5
5	QPSK	1	12	22.76	22.72	22.78	
5	QPSK	1	24	22.63	22.60	22.69	
5	QPSK	12	0	21.86	21.82	21.83	23.5
5	QPSK	12	7	21.81	21.78	21.81	
5	QPSK	12	13	21.80	21.78	21.72	
5	QPSK	25	0	21.72	21.78	21.72	23.5
5	16QAM	1	0	21.95	21.96	21.95	
5	16QAM	1	12	21.86	21.92	21.86	
5	16QAM	1	24	21.99	21.96	21.97	22.5
5	16QAM	12	0	20.86	20.87	20.89	
5	16QAM	12	7	20.82	20.83	20.85	
5	16QAM	12	13	20.75	20.78	20.81	22.5
5	16QAM	25	0	20.84	20.77	20.84	
5	64QAM	1	0	20.97	20.91	20.97	
5	64QAM	1	12	20.99	21.04	21.06	22.5
5	64QAM	1	24	20.92	20.95	20.92	
5	64QAM	12	0	20.88	20.88	20.79	
5	64QAM	12	7	20.81	20.76	20.83	21.5
5	64QAM	12	13	20.88	20.86	20.83	
5	64QAM	25	0	20.75	20.78	20.77	
5	256QAM	1	0	17.41	17.43	17.49	19
5	256QAM	1	12	17.55	17.53	17.54	
5	256QAM	1	24	17.47	17.44	17.44	
5	256QAM	12	0	17.33	17.35	17.31	19
5	256QAM	12	7	17.32	17.36	17.34	
5	256QAM	12	13	17.38	17.40	17.38	
5	256QAM	25	0	17.29	17.32	17.29	

Band 17 (700MHz Band) (dBm)
Part 27H(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	23.03	23.05	22.90	24.5
10	QPSK	1	25	23.02	23.04	23.00	
10	QPSK	1	49	22.93	23.01	23.03	
10	QPSK	25	0	22.13	22.14	22.12	23.5
10	QPSK	25	12	22.10	22.09	22.09	
10	QPSK	25	25	22.11	22.05	22.06	
10	QPSK	50	0	22.12	22.10	22.10	23.5
10	16QAM	1	0	22.24	22.40	22.07	
10	16QAM	1	25	22.06	22.12	22.17	
10	16QAM	1	49	22.20	22.26	22.28	22.5
10	16QAM	25	0	21.13	21.17	21.05	
10	16QAM	25	12	21.19	21.21	21.20	
10	16QAM	25	25	21.21	21.15	21.14	22.5
10	16QAM	50	0	21.06	21.10	21.11	
10	64QAM	1	0	21.11	21.30	21.19	
10	64QAM	1	25	21.34	21.38	21.25	22.5
10	64QAM	1	49	21.19	21.18	21.16	
10	64QAM	25	0	21.07	21.19	21.08	
10	64QAM	25	12	21.06	21.13	21.10	21.5
10	64QAM	25	25	21.14	21.17	21.13	
10	64QAM	50	0	21.10	21.06	21.11	
10	256QAM	1	0	17.67	17.86	17.75	19.5
10	256QAM	1	25	17.90	17.94	17.81	
10	256QAM	1	49	17.75	17.74	17.72	
10	256QAM	25	0	17.63	17.75	17.64	19.5
10	256QAM	25	12	17.62	17.69	17.66	
10	256QAM	25	25	17.70	17.73	17.69	
10	256QAM	50	0	17.66	17.62	17.67	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	22.94	22.96	22.81	24.5
5	QPSK	1	12	22.93	22.95	22.91	
5	QPSK	1	24	22.84	22.92	22.94	
5	QPSK	12	0	22.04	22.05	22.03	23.5
5	QPSK	12	7	22.01	22.00	22.00	
5	QPSK	12	13	22.02	21.96	21.97	
5	QPSK	25	0	22.03	22.01	22.01	23.5
5	16QAM	1	0	22.15	22.31	21.98	
5	16QAM	1	12	21.97	22.03	22.08	
5	16QAM	1	24	22.11	22.17	22.19	22.5
5	16QAM	12	0	21.04	21.08	20.96	
5	16QAM	12	7	21.10	21.12	21.11	
5	16QAM	12	13	21.12	21.06	21.05	22.5
5	16QAM	25	0	20.97	21.01	21.02	
5	64QAM	1	0	21.02	21.21	21.10	
5	64QAM	1	12	21.25	21.29	21.16	22.5
5	64QAM	1	24	21.10	21.09	21.07	
5	64QAM	12	0	20.96	21.10	20.99	
5	64QAM	12	7	20.97	21.04	21.01	21.5
5	64QAM	12	13	21.05	21.08	21.04	
5	64QAM	25	0	21.01	20.97	21.02	
5	256QAM	1	0	17.58	17.77	17.66	19.5
5	256QAM	1	12	17.81	17.85	17.72	
5	256QAM	1	24	17.66	17.65	17.63	
5	256QAM	12	0	17.54	17.66	17.55	19.5
5	256QAM	12	7	17.53	17.60	17.57	
5	256QAM	12	13	17.61	17.64	17.60	
5	256QAM	25	0	17.57	17.53	17.58	

Band 18 (835MHz Band) (dBm)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					23925		24.5
Frequency (MHz)					822.5		
15	QPSK	1	0		22.85		23.5
15	QPSK	1	37		22.81		
15	QPSK	1	74		22.63		
15	QPSK	36	0		21.92		23.5
15	QPSK	36	20		21.79		
15	QPSK	36	39		21.81		
15	QPSK	75	0		21.88		23.5
15	16QAM	1	0		22.02		
15	16QAM	1	37		21.82		
15	16QAM	1	74		21.86		22.5
15	16QAM	36	0		20.90		
15	16QAM	36	20		20.87		
15	16QAM	36	39		20.96		22.5
15	16QAM	75	0		20.85		
15	64QAM	1	0		20.92		
15	64QAM	1	25		20.86		22.5
15	64QAM	1	49		21.04		
15	64QAM	25	0		20.88		
15	64QAM	25	12		20.79		21.5
15	64QAM	25	25		20.88		
15	64QAM	50	0		20.86		
15	256QAM	1	0		17.97		19.5
15	256QAM	1	25		17.91		
15	256QAM	1	49		18.09		
15	256QAM	25	0		17.98		19.5
15	256QAM	25	12		17.89		
15	256QAM	25	25		17.98		
15	256QAM	50	0		17.96		24.5
Channel				23900	23925	23950	
Frequency (MHz)				820	822.5	825	24.5
10	QPSK	1	0	22.76	22.85	22.83	
10	QPSK	1	25	22.75	22.84	22.83	23.5
10	QPSK	1	49	22.72	22.69	22.73	
10	QPSK	25	0	21.83	21.92	21.77	
10	QPSK	25	12	21.90	21.85	21.91	23.5
10	QPSK	25	25	21.77	21.78	21.83	
10	QPSK	50	0	21.79	21.75	21.86	
10	16QAM	1	0	21.97	21.99	21.94	23.5
10	16QAM	1	25	21.82	21.79	21.82	
10	16QAM	1	49	21.80	21.83	21.83	
10	16QAM	25	0	20.80	20.87	20.81	22.5
10	16QAM	25	12	20.88	20.85	20.89	
10	16QAM	25	25	20.90	20.91	20.97	
10	16QAM	50	0	20.87	20.82	20.83	22.5
10	64QAM	1	0	20.94	20.97	20.84	
10	64QAM	1	25	20.93	20.88	20.85	
10	64QAM	1	49	21.01	21.08	20.98	21.5
10	64QAM	25	0	20.89	20.86	20.83	
10	64QAM	25	12	20.81	20.79	20.76	
10	64QAM	25	25	20.78	20.89	20.82	19.5
10	64QAM	50	0	20.72	20.81	20.83	
10	256QAM	1	0	17.92	17.90	17.76	
10	256QAM	1	25	17.93	17.82	17.73	19.5
10	256QAM	1	49	18.02	18.07	18.00	
10	256QAM	25	0	17.93	17.87	17.86	
10	256QAM	25	12	17.84	17.84	17.84	19.5
10	256QAM	25	25	17.84	17.88	17.92	
10	256QAM	50	0	17.74	17.95	17.87	
Channel				23875	23925	23975	24.5
Frequency (MHz)				817.5	822.5	827.5	
5	QPSK	1	0	22.69	22.78	22.76	23.5
5	QPSK	1	12	22.68	22.77	22.76	
5	QPSK	1	24	22.65	22.62	22.66	
5	QPSK	12	0	21.76	21.85	21.70	23.5
5	QPSK	12	7	21.83	21.78	21.84	
5	QPSK	12	13	21.70	21.71	21.76	
5	QPSK	25	0	21.72	21.68	21.79	23.5
5	16QAM	1	0	21.90	21.92	21.87	
5	16QAM	1	12	21.75	21.72	21.75	
5	16QAM	1	24	21.73	21.76	21.76	22.5
5	16QAM	12	0	20.73	20.80	20.74	
5	16QAM	12	7	20.81	20.78	20.82	
5	16QAM	12	13	20.83	20.84	20.90	22.5
5	16QAM	25	0	20.80	20.75	20.76	
5	64QAM	1	0	20.87	20.90	20.77	
5	64QAM	1	12	20.86	20.81	20.78	22.5
5	64QAM	1	24	20.94	21.01	20.91	
5	64QAM	12	0	20.82	20.79	20.76	
5	64QAM	12	7	20.74	20.72	20.69	21.5
5	64QAM	12	13	20.71	20.82	20.75	
5	64QAM	25	0	20.65	20.74	20.76	
5	256QAM	1	0	17.92	17.90	17.76	19.5
5	256QAM	1	12	17.93	17.82	17.73	
5	256QAM	1	24	18.02	18.07	18.00	
5	256QAM	12	0	17.93	17.87	17.86	19.5
5	256QAM	12	7	17.84	17.84	17.84	
5	256QAM	12	13	17.84	17.88	17.92	
5	256QAM	25	0	17.74	17.95	17.87	24.5
Channel				23875	23925	23975	
Frequency (MHz)				817.5	822.5	827.5	24.5
5	QPSK	1	0	22.69	22.78	22.76	
5	QPSK	1	12	22.68	22.77	22.76	23.5
5	QPSK	1	24	22.65	22.62	22.66	
5	QPSK	12	0	21.76	21.85	21.70	
5	QPSK	12	7	21.83	21.78	21.84	23.5
5	QPSK	12	13	21.70	21.71	21.76	
5	QPSK	25	0	21.72	21.68	21.79	
5	16QAM	1	0	21.90	21.92	21.87	23.5
5	16QAM	1	12	21.75	21.72	21.75	
5	16QAM	1	24	21.73	21.76	21.76	
5	16QAM	12	0	20.73	20.80	20.74	22.5
5	16QAM	12	7	20.81	20.78	20.82	
5	16QAM	12	13	20.83	20.84	20.90	
5	16QAM	25	0	20.80	20.75	20.76	22.5
5	64QAM	1	0	20.87	20.90	20.77	
5	64QAM	1	12	20.86	20.81	20.78	
5	64QAM	1	24	20.94	21.01	20.91	21.5
5	64QAM	12	0	20.82	20.79	20.76	
5	64QAM	12	7	20.74	20.72	20.69	
5	64QAM	12	13	20.71	20.82	20.75	19.5
5	64QAM	25	0	20.65	20.74	20.76	
5	256QAM	1	0	17.92	17.90	17.76	
5	256QAM	1	12	17.93	17.82	17.73	19.5
5	256QAM	1	24	18.02	18.07	18.00	
5	256QAM	12	0	17.93	17.87	17.86	
5	256QAM	12	7	17.84	17.84	17.84	19.5
5	256QAM	12	13	17.84	17.88	17.92	
5	256QAM	25	0	17.74	17.95	17.87	

Band 19 (835MHz Band) (dBm)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					24075		
Frequency (MHz)					837.5		
15	QPSK	1	0		22.85		24.5
15	QPSK	1	37		22.82		
15	QPSK	1	74		22.80		
15	QPSK	36	0		21.89		23.5
15	QPSK	36	20		21.84		
15	QPSK	36	39		21.80		
15	QPSK	75	0		21.87		23.5
15	16QAM	1	0		21.62		
15	16QAM	1	37		21.99		
15	16QAM	1	74		21.94		22.5
15	16QAM	36	0		20.88		
15	16QAM	36	20		20.95		
15	16QAM	36	39		20.90		22.5
15	16QAM	75	0		20.86		
15	64QAM	1	0		20.83		
15	64QAM	1	25		20.81		22.5
15	64QAM	1	49		20.97		
15	64QAM	25	0		20.85		
15	64QAM	25	12		20.93		21.5
15	64QAM	25	25		20.92		
15	64QAM	50	0		20.87		
15	256QAM	1	0		17.82		19.5
15	256QAM	1	25		17.80		
15	256QAM	1	49		17.96		
15	256QAM	25	0		17.84		19.5
15	256QAM	25	12		17.92		
15	256QAM	25	25		17.91		
15	256QAM	50	0		17.86		
Channel				24050	24075	24100	Tune-up limit (dBm)
Frequency (MHz)				835	837.5	840	
10	QPSK	1	0	22.61	22.73	22.54	24.5
10	QPSK	1	25	22.55	22.62	22.58	
10	QPSK	1	49	22.68	22.64	22.69	
10	QPSK	25	0	21.67	21.57	21.77	23.5
10	QPSK	25	12	21.70	21.71	21.68	
10	QPSK	25	25	21.72	21.77	21.71	
10	QPSK	50	0	21.56	21.69	21.69	23.5
10	16QAM	1	0	21.69	21.48	21.71	
10	16QAM	1	25	21.76	21.89	21.68	
10	16QAM	1	49	21.81	21.76	21.65	22.5
10	16QAM	25	0	20.79	20.75	20.82	
10	16QAM	25	12	20.67	20.80	20.83	
10	16QAM	25	25	20.75	20.80	20.78	22.5
10	16QAM	50	0	20.64	20.67	20.68	
10	64QAM	1	0	20.71	20.65	20.84	
10	64QAM	1	25	20.68	20.63	20.70	22.5
10	64QAM	1	49	20.77	20.80	20.56	
10	64QAM	25	0	20.68	20.65	20.69	
10	64QAM	25	12	20.79	20.77	20.79	21.5
10	64QAM	25	25	20.74	20.76	20.78	
10	64QAM	50	0	20.64	20.69	20.75	
10	256QAM	1	0	17.79	17.76	17.90	19.5
10	256QAM	1	25	17.72	17.74	17.80	
10	256QAM	1	49	17.88	17.94	17.71	
10	256QAM	25	0	17.83	17.75	17.80	19.5
10	256QAM	25	12	17.81	17.88	17.84	
10	256QAM	25	25	17.82	17.82	17.91	
10	256QAM	50	0	17.71	17.83	17.82	
Channel				24025	24075	24125	Tune-up limit (dBm)
Frequency (MHz)				832.5	837.5	842.5	
5	QPSK	1	0	22.54	22.66	22.47	24.5
5	QPSK	1	12	22.48	22.55	22.51	
5	QPSK	1	24	22.61	22.57	22.62	
5	QPSK	12	0	21.60	21.50	21.70	23.5
5	QPSK	12	7	21.63	21.64	21.61	
5	QPSK	12	13	21.65	21.70	21.64	
5	QPSK	25	0	21.49	21.62	21.62	23.5
5	16QAM	1	0	21.62	21.41	21.64	
5	16QAM	1	12	21.69	21.82	21.61	
5	16QAM	1	24	21.74	21.69	21.58	22.5
5	16QAM	12	0	20.72	20.68	20.75	
5	16QAM	12	7	20.60	20.73	20.76	
5	16QAM	12	13	20.68	20.73	20.71	22.5
5	16QAM	25	0	20.57	20.60	20.61	
5	64QAM	1	0	20.64	20.58	20.77	
5	64QAM	1	12	20.61	20.56	20.63	22.5
5	64QAM	1	24	20.70	20.73	20.49	
5	64QAM	12	0	20.61	20.58	20.62	
5	64QAM	12	7	20.72	20.70	20.72	21.5
5	64QAM	12	13	20.67	20.69	20.71	
5	64QAM	25	0	20.57	20.62	20.68	
5	256QAM	1	0	17.72	17.69	17.83	19.5
5	256QAM	1	12	17.65	17.67	17.73	
5	256QAM	1	24	17.81	17.87	17.64	
5	256QAM	12	0	17.76	17.68	17.73	19.5
5	256QAM	12	7	17.74	17.81	17.77	
5	256QAM	12	13	17.75	17.75	17.84	
5	256QAM	25	0	17.64	17.76	17.75	

Band 25 (1900MHz Band) (dBm) Part 24E								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				26140	26365	26590		
Frequency (MHz)				1860	1882.5	1905		
20	QPSK	1	0	22.42	22.48	22.40	24	
20	QPSK	1	49	22.29	22.26	22.23		
20	QPSK	1	99	22.27	22.18	22.16		
20	QPSK	50	0	21.44	21.45	21.42	23	
20	QPSK	50	24	21.41	21.37	21.39		
20	QPSK	50	50	21.40	21.31	21.33		
20	QPSK	100	0	21.39	21.41	21.39	23	
20	16QAM	1	0	21.32	21.32	21.34		
20	16QAM	1	49	21.41	21.38	21.37		
20	16QAM	1	99	21.23	21.35	21.36	22	
20	16QAM	50	0	20.44	20.29	20.30		
20	16QAM	50	24	20.34	20.33	20.23		
20	16QAM	50	50	20.29	20.27	20.28	22	
20	16QAM	100	0	20.28	20.37	20.27		
20	64QAM	1	0	20.35	20.36	20.29		
20	64QAM	1	49	20.30	20.32	20.39	22	
20	64QAM	1	99	20.37	20.34	20.32		
20	64QAM	50	0	20.33	20.28	20.31		
20	64QAM	50	24	20.33	20.39	20.30	21	
20	64QAM	50	50	20.24	20.30	20.24		
20	64QAM	100	0	20.39	20.38	20.18		
20	256QAM	1	0	16.42	16.43	16.36	18	
20	256QAM	1	49	16.37	16.39	16.48		
20	256QAM	1	99	16.44	16.41	16.39		
20	256QAM	50	0	16.40	16.35	16.38	18	
20	256QAM	50	24	16.40	16.46	16.37		
20	256QAM	50	50	16.31	16.37	16.31		
20	256QAM	100	0	16.46	16.45	16.25	Tune-up limit (dBm)	
Channel				26115	26365	26615		
Frequency (MHz)				1857.5	1882.5	1907.5		
15	QPSK	1	0	22.28	22.27	22.25	24	
15	QPSK	1	37	22.21	22.22	22.19		
15	QPSK	1	74	22.22	22.12	22.06		
15	QPSK	36	0	21.45	21.21	21.32	23	
15	QPSK	36	20	21.36	21.29	21.37		
15	QPSK	36	39	21.30	21.25	21.32		
15	QPSK	75	0	21.30	21.30	21.35	23	
15	16QAM	1	0	21.27	21.21	21.22		
15	16QAM	1	37	21.36	21.26	21.30		
15	16QAM	1	74	21.18	21.32	21.25	22	
15	16QAM	36	0	20.38	20.28	20.23		
15	16QAM	36	20	20.24	20.22	20.22		
15	16QAM	36	39	20.21	20.23	20.24	22	
15	16QAM	75	0	20.22	20.35	20.25		
15	64QAM	1	0	20.23	20.26	20.22		
15	64QAM	1	37	20.24	20.20	20.36	22	
15	64QAM	1	74	20.25	20.29	20.27		
15	64QAM	36	0	20.29	20.24	20.23		
15	64QAM	36	20	20.28	20.29	20.29	21	
15	64QAM	36	39	20.17	20.26	20.20		
15	64QAM	75	0	20.36	20.33	20.08		
15	256QAM	1	0	16.35	16.39	16.32	18	
15	256QAM	1	37	16.31	16.29	16.43		
15	256QAM	1	74	16.42	16.34	16.29		
15	256QAM	36	0	16.33	16.34	16.33	18	
15	256QAM	36	20	16.32	16.40	16.29		
15	256QAM	36	39	16.29	16.35	16.20		
15	256QAM	75	0	16.39	16.37	16.24	Tune-up limit (dBm)	
Channel				26990	26365	26640		
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	0	22.27	22.25	22.25	24	
10	QPSK	1	25	22.25	22.17	22.14		
10	QPSK	1	49	22.25	22.08	22.13		
10	QPSK	25	0	21.44	21.22	21.23	23	
10	QPSK	25	12	21.38	21.27	21.31		
10	QPSK	25	25	21.31	21.27	21.28		
10	QPSK	50	0	21.31	21.35	21.37	23	
10	16QAM	1	0	21.22	21.21	21.33		
10	16QAM	1	25	21.29	21.35	21.26		
10	16QAM	1	49	21.22	21.26	21.26	22	
10	16QAM	25	0	20.38	20.27	20.24		
10	16QAM	25	12	20.22	20.28	20.15		
10	16QAM	25	25	20.25	20.24	20.16	22	
10	16QAM	50	0	20.25	20.29	20.18		
10	64QAM	1	0	20.25	20.29	20.20		
10	64QAM	1	25	20.19	20.22	20.28	22	
10	64QAM	1	49	20.31	20.23	20.27		
10	64QAM	25	0	20.26	20.19	20.19		
10	64QAM	25	12	20.21	20.36	20.24	21	
10	64QAM	25	25	20.20	20.21	20.18		
10	64QAM	50	0	20.35	20.27	20.16		
10	256QAM	1	0	16.36	16.36	16.24	18	
10	256QAM	1	25	16.33	16.29	16.41		
10	256QAM	1	49	16.42	16.39	16.38		
10	256QAM	25	0	16.36	16.34	16.26	18	
10	256QAM	25	12	16.35	16.37	16.31		
10	256QAM	25	25	16.28	16.36	16.19		
10	256QAM	50	0	16.42	16.37	16.18	Tune-up limit (dBm)	
Channel				26965	26365	26665		
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	0	22.24	22.27	22.24	24	
5	QPSK	1	12	22.18	22.14	22.15		
5	QPSK	1	24	22.20	22.09	22.10		
5	QPSK	12	0	21.44	21.20	21.30	23	
5	QPSK	12	7	21.37	21.31	21.29		
5	QPSK	12	13	21.36	21.21	21.25		

Band 26 for FCC (dBm) (only on channel required)								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				26765	26865	26965		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	22.85	22.86	22.81	24.5	
15	QPSK	1	37	22.83	22.77	22.84		
15	QPSK	1	74	22.82	22.84	22.51		
15	QPSK	36	0	21.94	21.97	21.88	23.5	
15	QPSK	36	20	21.90	21.94	21.80		
15	QPSK	36	39	21.95	21.96	21.90		
15	QPSK	75	0	21.92	21.86	21.83	23.5	
15	16QAM	1	0	21.94	21.78	21.92		
15	16QAM	1	37	21.78	21.81	21.79		
15	16QAM	1	74	21.65	21.75	21.70	22.5	
15	16QAM	36	0	20.91	20.92	20.85		
15	16QAM	36	20	20.64	20.85	20.84		
15	16QAM	36	39	20.90	20.93	20.91	22.5	
15	16QAM	75	0	20.96	20.95	20.89		
15	64QAM	1	0	20.81	20.93	20.94	22.5	
15	64QAM	1	37	20.97	20.93	20.90		
15	64QAM	1	74	20.80	20.78	20.66		
15	64QAM	36	0	20.94	20.84	20.88	21.5	
15	64QAM	36	20	20.85	20.87	20.76		
15	64QAM	36	39	20.89	20.91	20.87		
15	64QAM	75	0	20.85	20.95	20.80	19	
15	256QAM	1	0	17.62	17.71	17.72		
15	256QAM	1	37	17.78	17.71	17.68		
15	256QAM	1	74	17.61	17.56	17.44	19	
15	256QAM	36	0	17.75	17.62	17.66		
15	256QAM	36	20	17.66	17.65	17.54		
15	256QAM	36	39	17.70	17.69	17.65	Tune-up limit (dBm)	
15	256QAM	75	0	17.66	17.73	17.58		
Channel				26740	26865	26990		
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	22.76	22.77	22.72	24.5	
10	QPSK	1	25	22.74	22.68	22.75		
10	QPSK	1	49	22.73	22.75	22.42		
10	QPSK	25	0	21.85	21.88	21.79	23.5	
10	QPSK	25	12	21.81	21.85	21.71		
10	QPSK	25	25	21.86	21.87	21.81		
10	QPSK	50	0	21.83	21.77	21.74	23.5	
10	16QAM	1	0	21.85	21.69	21.83		
10	16QAM	1	25	21.69	21.72	21.70		
10	16QAM	1	49	21.56	21.66	21.61	22.5	
10	16QAM	25	0	20.82	20.83	20.76		
10	16QAM	25	12	20.55	20.76	20.75		
10	16QAM	25	25	20.81	20.84	20.82	22.5	
10	16QAM	50	0	20.87	20.86	20.80		
10	64QAM	1	0	20.72	20.84	20.85		
10	64QAM	1	25	20.88	20.84	20.81	21.5	
10	64QAM	1	49	20.71	20.69	20.57		
10	64QAM	25	0	20.85	20.75	20.79		
10	64QAM	25	12	20.76	20.78	20.67	19	
10	64QAM	25	25	20.80	20.82	20.78		
10	64QAM	50	0	20.76	20.86	20.71		
10	256QAM	1	0	17.62	17.71	17.72	19	
10	256QAM	1	25	17.78	17.71	17.68		
10	256QAM	1	49	17.61	17.56	17.44		
10	256QAM	25	0	17.75	17.62	17.66	19	
10	256QAM	25	12	17.66	17.65	17.54		
10	256QAM	25	25	17.70	17.69	17.65		
10	256QAM	50	0	17.66	17.73	17.58		
Channel				26715	26865	27015	Tune-up limit (dBm)	
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	22.72	22.73	22.68	24.5	
5	QPSK	1	12	22.70	22.64	22.71		
5	QPSK	1	24	22.69	22.81	22.38		
5	QPSK	12	0	21.81	21.84	21.75	23.5	
5	QPSK	12	7	21.77	21.81	21.67		
5	QPSK	12	13	21.82	21.83	21.77		
5	QPSK	25	0	21.79	21.73	21.70	23.5	
5	16QAM	1	0	21.81	21.65	21.79		
5	16QAM	1	12	21.65	21.68	21.66		
5	16QAM	1	24	21.52	21.62	21.57	22.5	
5	16QAM	12	0	20.78	20.79	20.72		
5	16QAM	12	7	20.51	20.72	20.71		
5	16QAM	12	13	20.77	20.80	20.78	22.5	
5	16QAM	25	0	20.83	20.82	20.76		
5	64QAM	1	0	20.68	20.80	20.81		
5	64QAM	1	12	20.84	20.80	20.77	21.5	
5	64QAM	1	24	20.67	20.65	20.53		
5	64QAM	12	0	20.81	20.71	20.75		
5	64QAM	12	7	20.72	20.74	20.63	19	
5	64QAM	12	13	20.76	20.78	20.74		
5	64QAM	25	0	20.72	20.82	20.67		
5	256QAM	1	0	17.58	17.67	17.68	19	
5	256QAM	1	12	17.74	17.67	17.64		
5	256QAM	1	24	17.57	17.52	17.40		
5	256QAM	12	0	17.71	17.58	17.62	19	
5	256QAM	12	7	17.62	17.61	17.50		
5	256QAM	12	13	17.66	17.65	17.61		
5	256QAM	25	0	17.62	17.69	17.54		
Channel				26705	26865	27025	Tune-up limit (dBm)	
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	22.64	22.65	22.60	24.5	
3	QPSK	1	8	22.62	22.56	22.63		
3	QPSK	1	14	22.61	22.63	22.30		
3	QPSK	8	0	21.73	21.76	21.67	23.5	
3	QPSK	8	4	21.69	21.73	21.59		
3	QPSK	8	7	21.74	21.75	21.69		

5	QPSK	25	0	21.38	21.26	21.28	23
5	16QAM	1	0	21.21	21.24	21.25	
5	16QAM	1	12	21.35	21.37	21.35	
5	16QAM	1	24	21.17	21.24	21.29	
5	16QAM	12	0	20.42	20.18	20.18	22
5	16QAM	12	7	20.24	20.28	20.11	
5	16QAM	12	13	20.21	20.17	20.22	
5	16QAM	25	0	20.24	20.27	20.16	
5	64QAM	1	0	20.25	20.30	20.28	22
5	64QAM	1	12	20.26	20.23	20.38	
5	64QAM	1	24	20.35	20.25	20.22	
5	64QAM	12	0	20.29	20.21	20.23	
5	64QAM	12	7	20.28	20.27	20.26	21
5	64QAM	12	13	20.22	20.24	20.18	
5	64QAM	25	0	20.33	20.30	20.10	
5	256QAM	1	0	16.35	16.35	16.33	
5	256QAM	1	12	16.30	16.38	16.40	18
5	256QAM	1	24	16.33	16.38	16.36	
5	256QAM	12	0	16.28	16.24	16.32	
5	256QAM	12	7	16.36	16.39	16.25	
5	256QAM	12	13	16.20	16.34	16.29	18
5	256QAM	25	0	16.43	16.37	16.17	
Channel				26055	26365	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1882.5	1913.5	
3	QPSK	1	0	22.27	22.28	22.16	24
3	QPSK	1	8	22.17	22.19	22.17	
3	QPSK	1	14	22.21	22.16	22.14	
3	QPSK	8	0	21.39	21.23	21.23	
3	QPSK	8	4	21.30	21.32	21.33	23
3	QPSK	8	7	21.32	21.19	21.26	
3	QPSK	15	0	21.32	21.26	21.38	
3	16QAM	1	0	21.28	21.28	21.33	
3	16QAM	1	8	21.39	21.32	21.32	23
3	16QAM	1	14	21.15	21.31	21.33	
3	16QAM	8	0	20.33	20.27	20.25	
3	16QAM	8	4	20.28	20.31	20.12	
3	16QAM	8	7	20.17	20.15	20.27	22
3	16QAM	15	0	20.19	20.31	20.18	
3	64QAM	1	0	20.24	20.29	20.26	
3	64QAM	1	8	20.29	20.26	20.35	
3	64QAM	1	14	20.35	20.28	20.22	21
3	64QAM	8	0	20.28	20.22	20.29	
3	64QAM	8	4	20.30	20.36	20.27	
3	64QAM	8	7	20.21	20.20	20.20	
3	64QAM	15	0	20.38	20.32	20.14	18
3	256QAM	1	0	16.38	16.39	16.25	
3	256QAM	1	8	16.28	16.29	16.34	
3	256QAM	1	14	16.36	16.32	16.31	
3	256QAM	8	0	16.29	16.34	16.27	18
3	256QAM	8	4	16.28	16.40	16.32	
3	256QAM	8	7	16.28	16.35	16.19	
3	256QAM	15	0	16.36	16.42	16.15	
Channel				26047	26365	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	22.30	22.23	22.19	24
1.4	QPSK	1	3	22.19	22.22	22.18	
1.4	QPSK	1	5	22.18	22.08	22.15	
1.4	QPSK	3	0	22.37	22.22	22.32	
1.4	QPSK	3	1	22.33	22.31	22.27	23
1.4	QPSK	3	3	22.30	22.21	22.28	
1.4	QPSK	6	0	21.35	21.27	21.28	
1.4	16QAM	1	0	21.20	21.29	21.23	
1.4	16QAM	1	3	21.37	21.32	21.26	22
1.4	16QAM	1	5	21.11	21.28	21.35	
1.4	16QAM	3	0	21.32	21.20	21.28	
1.4	16QAM	3	1	21.31	21.32	21.16	
1.4	16QAM	3	3	21.26	21.20	21.21	21
1.4	16QAM	6	0	20.16	20.27	20.17	
1.4	64QAM	1	0	20.32	20.29	20.24	
1.4	64QAM	1	3	20.23	20.26	20.34	
1.4	64QAM	1	5	20.34	20.30	20.20	22
1.4	64QAM	3	0	20.27	20.25	20.21	
1.4	64QAM	3	1	20.24	20.31	20.23	
1.4	64QAM	3	3	20.17	20.22	20.15	
1.4	64QAM	6	0	20.31	20.33	20.08	21
1.4	256QAM	1	0	16.31	16.38	16.25	
1.4	256QAM	1	3	16.26	16.33	16.40	
1.4	256QAM	1	5	16.39	16.37	16.37	
1.4	256QAM	3	0	16.39	16.34	16.36	18
1.4	256QAM	3	1	16.34	16.44	16.27	
1.4	256QAM	3	3	16.28	16.25	16.26	
1.4	256QAM	6	0	16.38	16.36	16.21	

3	QPSK	15	0	21.71	21.65	21.62	23.5
3	16QAM	1	0	21.73	21.57	21.71	
3	16QAM	1	8	21.57	21.60	21.58	
3	16QAM	1	14	21.44	21.54	21.49	
3	16QAM	8	0	20.70	20.71	20.64	22.5
3	16QAM	8	4	20.43	20.64	20.63	
3	16QAM	8	7	20.69	20.72	20.70	
3	16QAM	15	0	20.75	20.74	20.68	
3	64QAM	1	0	20.60	20.72	20.73	22.5
3	64QAM	1	8	20.76	20.72	20.69	
3	64QAM	1	14	20.59	20.57	20.45	
3	64QAM	8	0	20.73	20.63	20.67	
3	64QAM	8	4	20.64	20.66	20.55	21.5
3	64QAM	8	7	20.68	20.70	20.66	
3	64QAM	15	0	20.64	20.74	20.59	
3	256QAM	1	0	17.50	17.59	17.60	
3	256QAM	1	8	17.66	17.59	17.56	19
3	256QAM	1	14	17.49	17.44	17.32	
3	256QAM	8	0	17.63	17.50	17.54	
3	256QAM	8	4	17.54	17.53	17.42	
3	256QAM	8	7	17.58	17.57	17.53	19
3	256QAM	15	0	17.54	17.61	17.46	
Channel				26697	28865	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	22.61	22.62	22.57	24.5
1.4	QPSK	1	3	22.59	22.53	22.60	
1.4	QPSK	1	5	22.58	22.60	22.27	
1.4	QPSK	3	0	21.70	21.73	21.64	
1.4	QPSK	3	1	21.66	21.70	21.56	23.5
1.4	QPSK	3	3	21.71	21.72	21.66	
1.4	QPSK	6	0	21.68	21.62	21.59	
1.4	16QAM	1	0	21.70	21.54	21.68	
1.4	16QAM	1	3	21.54	21.57	21.55	23.5
1.4	16QAM	1	5	21.41	21.51	21.46	
1.4	16QAM	3	0	20.67	20.68	20.61	
1.4	16QAM	3	1	20.40	20.61	20.60	
1.4	16QAM	3	3	20.66	20.69	20.67	22.5
1.4	16QAM	6	0	20.72	20.71	20.65	
1.4	64QAM	1	0	20.57	20.69	20.70	
1.4	64QAM	1	3	20.73	20.69	20.66	
1.4	64QAM	1	5	20.56	20.54	20.42	22.5
1.4	64QAM	3	0	20.70	20.60	20.64	
1.4	64QAM	3	1	20.61	20.63	20.52	
1.4	64QAM	3	3	20.65	20.67	20.63	
1.4	64QAM	6	0	20.61	20.71	20.56	21.5
1.4	256QAM	1	0	17.47	17.56	17.57	
1.4	256QAM	1	3	17.63	17.56	17.53	
1.4	256QAM	1	5	17.46	17.41	17.29	
1.4	256QAM	3	0	17.60	17.47	17.51	19
1.4	256QAM	3	1	17.51	17.50	17.39	
1.4	256QAM	3	3	17.55	17.54	17.50	
1.4	256QAM	6	0	17.51	17.58	17.43	

Band 30 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				27710			
Frequency (MHz)				2310			
10	QPSK	1	0		22.46		24
10	QPSK	1	25		22.44		
10	QPSK	1	49		22.40		
10	QPSK	25	0		21.52		23
10	QPSK	25	12		21.41		
10	QPSK	25	25		21.42		
10	QPSK	50	0		21.44		23
10	16QAM	1	0		21.63		
10	16QAM	1	25		21.60		
10	16QAM	1	49		21.67		22
10	16QAM	25	0		20.49		
10	16QAM	25	12		20.44		
10	16QAM	25	25		20.45		22
10	16QAM	50	0		20.42		
10	64QAM	1	0		20.69		
10	64QAM	1	25		20.43		22
10	64QAM	1	49		20.59		
10	64QAM	25	0		20.53		
10	64QAM	25	12		20.48		21
10	64QAM	25	25		20.43		
10	64QAM	50	0		20.45		
10	256QAM	1	0		18.47		19
10	256QAM	1	25		18.21		
10	256QAM	1	49		18.37		
10	256QAM	25	0		18.30		19
10	256QAM	25	12		18.25		
10	256QAM	25	25		18.20		
10	256QAM	50	0		18.22		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	22.30	22.40	22.29	24
5	QPSK	1	12	22.21	22.21	22.24	
5	QPSK	1	24	22.25	22.19	22.26	
5	QPSK	12	0	21.31	21.40	21.32	23
5	QPSK	12	7	21.37	21.30	21.32	
5	QPSK	12	13	21.35	21.31	21.34	
5	QPSK	25	0	21.23	21.30	21.33	23
5	16QAM	1	0	21.56	21.50	21.56	
5	16QAM	1	12	21.51	21.47	21.51	
5	16QAM	1	24	21.54	21.55	21.60	22
5	16QAM	12	0	20.36	20.35	20.43	
5	16QAM	12	7	20.32	20.32	20.36	
5	16QAM	12	13	20.31	20.39	20.29	22
5	16QAM	25	0	20.29	20.31	20.30	
5	64QAM	1	0	20.58	20.60	20.54	
5	64QAM	1	12	20.32	20.27	20.36	22
5	64QAM	1	24	20.53	20.48	20.49	
5	64QAM	12	0	20.46	20.39	20.38	
5	64QAM	12	7	20.42	20.40	20.42	21
5	64QAM	12	13	20.35	20.33	20.26	
5	64QAM	25	0	20.36	20.28	20.30	
5	256QAM	1	0	18.38	18.44	18.36	19
5	256QAM	1	12	18.19	18.18	18.17	
5	256QAM	1	24	18.34	18.32	18.30	
5	256QAM	12	0	18.18	18.24	18.20	19
5	256QAM	12	7	18.18	18.19	18.21	
5	256QAM	12	13	18.08	18.09	18.13	
5	256QAM	25	0	18.12	18.14	18.20	

Band 38(only on channel required) (dBm)								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	22.33	22.37	22.35	24	
20	QPSK	1	49	22.20	22.33	22.17		
20	QPSK	1	99	22.32	22.29	22.11		
20	QPSK	50	0	21.32	21.39	21.34		
20	QPSK	50	24	21.35	21.36	21.22	23	
20	QPSK	50	50	21.32	21.25	21.18		
20	QPSK	100	0	21.35	21.38	21.25		
20	16QAM	1	0	21.45	21.46	21.34		
20	16QAM	1	49	21.35	21.38	21.42	23	
20	16QAM	1	99	21.27	21.31	21.28		
20	16QAM	50	0	20.32	20.39	20.20		
20	16QAM	50	24	20.40	20.35	20.37		
20	16QAM	50	50	20.22	20.27	20.20	22	
20	16QAM	100	0	20.31	20.32	20.26		
20	64QAM	1	0	20.36	20.43	20.34		
20	64QAM	1	49	20.18	20.26	20.29		
20	64QAM	1	99	20.25	20.27	20.28	21	
20	64QAM	50	0	20.24	20.29	20.24		
20	64QAM	50	24	20.28	20.24	20.20		
20	64QAM	50	50	20.15	20.22	20.09		
20	64QAM	100	0	20.07	20.25	20.11	18	
20	256QAM	1	0	16.39	16.46	16.37		
20	256QAM	1	49	16.21	16.29	16.32		
20	256QAM	1	99	16.28	16.30	16.31		
20	256QAM	50	0	16.27	16.32	16.27	18	
20	256QAM	50	24	16.31	16.27	16.23		
20	256QAM	50	50	16.18	16.25	16.12		
20	256QAM	100	0	16.10	16.28	16.14		
Channel				37825	38000	38175	Tune-up limit (dBm)	
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	22.08	22.33	22.24	24	
15	QPSK	1	37	22.16	22.30	22.09		
15	QPSK	1	74	22.23	22.19	22.08		
15	QPSK	36	0	21.34	21.42	21.31		
15	QPSK	36	20	21.43	21.39	21.27	23	
15	QPSK	36	39	21.42	21.29	21.27		
15	QPSK	75	0	21.29	21.21	21.23		
15	16QAM	1	0	21.44	21.42	21.27		
15	16QAM	1	37	21.28	21.31	21.34	23	
15	16QAM	1	74	21.24	21.24	21.21		
15	16QAM	36	0	20.31	20.37	20.13		
15	16QAM	36	20	20.30	20.32	20.34		
15	16QAM	36	39	20.18	20.25	20.18	22	
15	16QAM	75	0	20.27	20.23	20.17		
15	64QAM	1	0	20.30	20.33	20.25		
15	64QAM	1	37	20.10	20.24	20.27		
15	64QAM	1	74	20.24	20.20	20.24	21	
15	64QAM	36	0	20.14	20.22	20.14		
15	64QAM	36	20	20.24	20.14	20.12		
15	64QAM	36	39	20.13	20.20	20.04		
15	64QAM	75	0	20.01	20.24	20.10	18	
15	256QAM	1	0	16.37	16.41	16.29		
15	256QAM	1	37	16.14	16.19	16.28		
15	256QAM	1	74	16.36	16.34	16.39		
15	256QAM	36	0	16.33	16.44	16.36	18	
15	256QAM	36	20	16.35	16.30	16.30		
15	256QAM	36	39	16.21	16.32	16.16		
15	256QAM	75	0	16.22	16.40	16.22		
Channel				37860	38000	38200	Tune-up limit (dBm)	
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	22.15	22.32	22.20	24	
10	QPSK	1	25	22.17	22.31	22.12		
10	QPSK	1	49	22.28	22.21	22.13		
10	QPSK	25	0	21.37	21.48	21.34		
10	QPSK	25	12	21.44	21.44	21.26	23	
10	QPSK	25	25	21.41	21.29	21.23		
10	QPSK	50	0	21.39	21.39	21.34		
10	16QAM	1	0	21.39	21.41	21.33		
10	16QAM	1	25	21.32	21.32	21.38	23	
10	16QAM	1	49	21.24	21.28	21.27		
10	16QAM	25	0	20.26	20.35	20.15		
10	16QAM	25	12	20.33	20.32	20.34		
10	16QAM	25	25	20.12	20.23	20.11	22	
10	16QAM	50	0	20.25	20.26	20.20		
10	64QAM	1	0	20.33	20.42	20.30		
10	64QAM	1	25	20.17	20.18	20.28		
10	64QAM	1	49	20.23	20.23	20.26	21	
10	64QAM	25	0	20.18	20.26	20.22		
10	64QAM	25	12	20.27	20.22	20.16		
10	64QAM	25	25	20.05	20.14	20.01		
10	64QAM	50	0	20.06	20.22	20.10	18	
10	256QAM	1	0	16.33	16.38	16.31		
10	256QAM	1	25	16.13	16.27	16.29		
10	256QAM	1	49	16.19	16.28	16.21		
10	256QAM	25	0	16.19	16.24	16.23		
10	256QAM	25	12	16.37	16.33	16.32	18	
10	256QAM	25	25	16.28	16.37	16.22		
10	256QAM	50	0	16.21	16.40	16.21		
Channel				37775	38000	38225	Tune-up limit (dBm)	
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	22.07	22.32	22.25	24	
5	QPSK	1	12	22.14	22.31	22.13		
5	QPSK	1	24	22.23	22.24	22.08		
5	QPSK	12	0	21.35	21.45	21.36		
5	QPSK	12	7	21.33	21.36	21.20	23	
5	QPSK	12	13	21.24	21.23	21.08		
5	QPSK	25	0	21.34	21.28	21.21		
5	16QAM	1	0	21.42	21.45	21.29		
5	16QAM	1	12	21.34	21.36	21.37	23	
5	16QAM	1	24	21.26	21.21	21.18		
5	16QAM	12	0	20.27	20.31	20.16		
5	16QAM	12	7	20.36	20.32	20.33		
5	16QAM	12	13	20.19	20.22	20.17	22	
5	16QAM	25	0	20.22	20.25	20.21		
5	64QAM	1	0	20.33	20.41	20.30		
5	64QAM	1	12	20.14	20.20	20.24		
5	64QAM	1	24	20.21	20.23	20.27	21	
5	64QAM	12	0	20.15	20.24	20.23		
5	64QAM	12	7	20.27	20.20	20.19		
5	64QAM	12	13	20.08	20.15	20.03		
5	64QAM	25	0	19.99	20.15	20.03	18	
5	256QAM	1	0	16.32	16.38	16.31		
5	256QAM	1	12	16.18	16.24	16.31		
5	256QAM	1	24	16.20	16.22	16.22		
5	256QAM	12	0	16.19	16.22	16.19	18	
5	256QAM	12	7	16.36	16.38	16.37		
5	256QAM	12	13	16.30	16.33	16.17		
5	256QAM	25	0	16.20	16.38	16.25		

Band 41 (2496~2690MHz) (dBm)_HPUE									
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.37	25.28	25.43	25.27	25.26	27
20	QPSK	1	49	25.28	25.35	25.18	25.20	25.16	
20	QPSK	1	99	25.17	25.22	25.33	25.33	25.15	
20	QPSK	50	0	24.60	24.55	24.61	24.60	24.54	26
20	QPSK	24	0	24.56	24.53	24.47	24.32	24.29	
20	QPSK	50	50	24.58	24.47	24.43	24.26	24.16	
20	QPSK	100	0	24.50	24.53	24.57	24.38	24.26	26
20	16QAM	1	0	24.65	24.67	24.61	24.55	24.51	
20	16QAM	1	49	24.58	24.45	24.55	24.48	24.56	
20	16QAM	1	99	24.51	24.37	24.60	24.46	24.48	25
20	16QAM	50	0	23.66	23.62	23.45	23.37	23.38	
20	16QAM	50	24	23.60	23.45	23.51	23.39	23.36	
20	16QAM	50	50	23.57	23.33	23.36	23.28	23.32	24
20	16QAM	100	0	23.48	23.45	23.51	23.45	23.46	
20	16QAM	1	0	23.56	23.63	23.54	23.44	23.48	
20	16QAM	1	49	23.55	23.27	23.45	23.36	23.38	25
20	16QAM	1	99	23.49	23.40	23.49	23.40	23.43	
20	16QAM	50	0	23.61	23.55	23.42	23.35	23.19	
20	16QAM	50	24	23.51	23.46	23.45	23.37	23.37	24
20	16QAM	50	50	23.38	23.39	23.40	23.29	23.31	
20	16QAM	100	0	23.57	23.52	23.56	23.47	23.46	
20	256QAM	1	0	19.52	19.59	19.50	19.40	19.44	21
20	256QAM	1	49	19.51	19.23	19.41	19.32	19.30	
20	256QAM	1	99	19.45	19.36	19.45	19.36	19.19	
20	256QAM	50	0	19.57	19.51	19.38	19.31	19.15	21
20	256QAM	50	24	19.47	19.42	19.41	19.29	19.33	
20	256QAM	50	50	19.34	19.36	19.25	19.25	19.27	
20	256QAM	100	0	19.53	19.48	19.52	19.43	19.42	
Channel				39725	40173	40620	41058	41515	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2549.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.17	25.02	25.27	25.06	25.02	27
15	QPSK	1	37	25.12	25.10	25.01	25.00	25.02	
15	QPSK	1	74	25.13	25.01	25.08	25.03	24.99	
15	QPSK	36	0	24.34	24.32	24.42	24.24	24.18	26
15	QPSK	36	20	24.30	24.30	24.28	24.08	24.08	
15	QPSK	36	39	24.42	24.31	24.25	24.02	23.98	
15	QPSK	75	0	24.33	24.33	24.25	24.13	24.04	25
15	16QAM	1	0	24.46	24.40	24.35	24.21	24.35	
15	16QAM	1	37	24.34	24.23	24.48	24.23	24.26	
15	16QAM	1	74	24.32	24.10	24.35	24.28	24.21	25
15	16QAM	36	0	23.44	23.38	23.25	23.17	23.13	
15	16QAM	36	20	23.44	23.21	23.30	23.15	23.16	
15	16QAM	36	39	23.31	23.06	23.12	23.06	23.18	25
15	16QAM	75	0	23.29	23.24	23.35	23.21	23.28	
15	16QAM	1	0	23.30	23.27	23.33	23.19	23.23	
15	16QAM	37	0	23.17	23.04	23.26	23.19	23.14	25
15	16QAM	1	74	23.31	23.22	23.23	23.14	23.24	
15	16QAM	36	0	23.34	23.39	23.17	23.17	22.99	
15	16QAM	36	20	23.25	23.19	23.20	23.09	23.18	24
15	16QAM	36	39	23.18	23.20	23.17	23.13	23.12	
15	16QAM	75	0	23.35	23.28	23.29	23.25	23.29	
15	256QAM	1	0	19.42	19.50	19.47	19.37	19.15	21
15	256QAM	1	37	19.41	19.21	19.33	19.28	19.11	
15	256QAM	1	74	19.37	19.29	19.38	19.25	19.33	
15	256QAM	36	0	19.52	19.41	19.28	19.20	19.09	21
15	256QAM	36	20	19.39	19.38	19.31	19.27	19.19	
15	256QAM	36	39	19.28	19.34	19.33	19.14	19.16	
15	256QAM	75	0	19.45	19.38	19.45	19.37	19.10	
Channel				39700	40160	40620	41080	41541	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	25.14	25.09	25.24	25.07	25.03	27
10	QPSK	1	25	25.06	25.11	25.00	25.06	25.02	
10	QPSK	1	49	25.19	25.03	25.09	25.07	25.04	
10	QPSK	25	0	24.42	24.34	24.39	24.27	24.13	26
10	QPSK	25	12	24.41	24.30	24.25	24.16	24.05	
10	QPSK	25	35	24.43	24.24	24.27	24.09	24.00	
10	QPSK	50	0	24.39	24.31	24.33	24.15	24.07	26
10	16QAM	1	0	24.47	24.42	24.38	24.29	24.35	
10	16QAM	1	25	24.38	24.28	24.31	24.30	24.28	
10	16QAM	1	49	24.34	24.17	24.45	24.28	24.28	25
10	16QAM	25	0	23.41	23.44	23.26	23.23	23.10	
10	16QAM	25	12	23.43	23.27	23.32	23.21	23.11	
10	16QAM	25	25	23.36	23.12	23.15	23.13	23.08	25
10	16QAM	50	0	23.24	23.25	23.33	23.29	23.30	
10	16QAM	1	0	23.37	23.42	23.30	23.23	23.28	
10	16QAM	1	25	23.38	23.03	23.23	23.17	23.15	24
10	16QAM	1	49	23.23	23.18	23.27	23.25	23.19	
10	16QAM	25	0	23.36	23.38	23.18	23.14	23.04	
10	16QAM	25	12	23.33	23.25	23.21	23.17	23.21	24
10	16QAM	25	25	23.23	23.14	23.23	23.12	23.11	
10	16QAM	50	0	23.42	23.36	23.38	23.23	23.28	
10	256QAM	1	0	19.45	19.53	19.48	19.28	19.37	21
10	256QAM	1	25	19.45	19.17	19.26	19.26	19.27	
10	256QAM	1	49	19.41	19.24	19.36	19.20	19.18	
10	256QAM	25	0	19.53	19.46	19.27	19.22	19.08	21
10	256QAM	25	12	19.41	19.41	19.38	19.19	19.22	
10	256QAM	25	25	19.33	19.25	19.26	19.13	19.18	
10	256QAM	50	0	19.46	19.44	19.45	19.38	19.38	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2590	2640.30	2687.5	
5	QPSK	1	0	25.02	24.93	25.16	24.95	25.01	27
5	QPSK	1	12	25.02	24.92	25.01	24.91	24.87	
5	QPSK	1	24	25.08	24.91	24.97	24.95	24.96	
5	QPSK	12	0	24.32	24.25	24.30	24.16	24.04	26
5	QPSK	12	7	24.24	24.28	24.15	24.01	24.01	
5	QPSK	12	13	24.22	24.14	24.12	23.99	23.91	
5	QPSK	25	0	24.22	24.27	24.17	24.04	23.91	26
5	16QAM	1	0	24.31	24.35	24.31	24.30	24.30	
5	16QAM	1	12	24.24	24.12	24.20	24.15	24.20	
5	16QAM	1	24	24.16	24.10	24.24	24.12	24.14	25
5	16QAM	12	0	23.31	23.27	23.20	23.06	22.98	
5	16QAM	12	7	23.25	23.15	23.20	23.14	23.03	
5	16QAM	12	13	23.25	23.01	23.05	22.94	23.00	25
5	16QAM	25	0	23.19	23.19	23.22	23.19	23.16	
5	16QAM	1	0	23.26	23.29	23.22	23.12	23.15	
5	16QAM	1	12	23.20	22.93	23.14	23.09	23.10	25
5	16QAM	1	24	23.15	23.06	23.13	23.12	23.17	
5	16QAM	12	0	23.30	23.25	23.15	22.99	22.93	
5	16QAM	12	7	23.15	23.17	23.09	23.01	23.03	24
5	16QAM	12	13	23.05	23.06	23.03	22.92	22.96	
5	16QAM	25	0	23.25	23.20	23.27	23.12	23.19	
5	256QAM	1	0	19.50	19.54	19.45	19.36	19.32	21
5	256QAM	1	12	19.41	19.15	19.33	19.22	19.22	
5	256QAM	1	24	19.35	19.24	19.22	19.12	19.32	
5	256QAM	12	0	19.50	19.39	19.37	19.27	19.11	21
5	256QAM	12	7	19.47	19.30	19.40	19.22	19.26	
5	256QAM	12	13	19.22	19.25	19.25	19.23	19.18	

Band 41 (2496~2690MHz) (dBm)											
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)		
Channel				39750	40185	40620	41055	41490			
Frequency (MHz)				2508	2549.5	2593	2636.5	2680			
20	QPSK	1	0	22.33	22.24	22.39	22.23	22.22	24		
20	QPSK	1	49	22.24	22.31	22.14	22.16	22.12			
20	QPSK	1	99	22.33	22.18	22.29	22.19	22.11			
20	QPSK	50	0	21.56	21.51	21.57	21.42	21.54			
20	QPSK	50	24	21.52	21.49	21.43	21.28	21.25	23		
20	QPSK	50	50	21.54	21.43	21.39	21.22	21.12			
20	QPSK	100	0	21.53	21.49	21.44	21.34	21.22			
20	16QAM	1	0	21.61	21.63	21.57	21.51	21.52			
20	16QAM	1	49	21.54	21.41	21.51	21.44	21.47	23		
20	16QAM	1	99	21.47	21.33	21.56	21.42	21.44			
20	16QAM	50	0	20.62	20.58	20.44	20.38	20.29			
20	16QAM	50	24	20.56	20.41	20.47	20.35	20.32			
20	16QAM	50	50	20.53	20.29	20.32	20.24	20.28	22		
20	16QAM	100	0	20.44	20.41	20.47	20.41	20.42			
20	64QAM	1	0	20.52	20.59	20.50	20.40	20.44			
20	64QAM	1	49	20.51	20.23	20.41	20.32	20.34			
20	64QAM	1	99	20.45	20.36	20.45	20.36	20.39	21		
20	64QAM	50	0	20.57	20.51	20.38	20.31	20.15			
20	64QAM	50	24	20.47	20.42	20.41	20.29	20.33			
20	64QAM	50	50	20.34	20.35	20.36	20.25	20.27			
20	64QAM	100	0	20.53	20.48	20.52	20.43	20.42	18		
20	256QAM	1	0	16.51	16.58	16.49	16.39	16.43			
20	256QAM	1	49	16.50	16.22	16.40	16.31	16.33			
20	256QAM	1	99	16.44	16.35	16.44	16.35	16.38			
20	256QAM	50	0	16.56	16.50	16.37	16.30	16.14	18		
20	256QAM	50	24	16.46	16.41	16.40	16.28	16.32			
20	256QAM	50	50	16.33	16.34	16.35	16.24	16.26			
20	256QAM	100	0	16.52	16.47	16.51	16.42	16.41			
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5			
15	QPSK	1	0	22.07	21.92	22.17	21.96	21.92	24		
15	QPSK	1	37	22.02	22.00	21.91	21.90	21.92			
15	QPSK	1	74	22.03	21.91	21.98	21.93	21.98			
15	QPSK	36	0	21.24	21.22	21.32	21.14	21.08			
15	QPSK	36	20	21.20	21.20	21.18	20.98	20.98	23		
15	QPSK	36	39	21.32	21.21	21.15	20.92	20.89			
15	QPSK	75	0	21.23	21.22	21.15	21.03	20.94			
15	16QAM	1	0	21.36	21.30	21.25	21.18	21.25			
15	16QAM	1	37	21.24	21.13	21.28	21.13	21.16	23		
15	16QAM	1	74	21.22	21.00	21.25	21.18	21.11			
15	16QAM	36	0	20.34	20.29	20.15	20.07	20.03			
15	16QAM	36	20	20.34	20.11	20.20	20.05	20.08			
15	16QAM	36	39	20.21	19.96	20.02	19.96	20.06	22		
15	16QAM	75	0	20.19	20.14	20.25	20.11	20.18			
15	64QAM	1	0	20.20	20.27	20.23	20.09	20.13			
15	64QAM	1	37	20.27	19.94	20.16	19.99	20.04			
15	64QAM	1	74	20.21	20.12	20.13	20.04	20.14	22		
15	64QAM	36	0	20.24	20.29	20.07	20.07	19.89			
15	64QAM	36	20	20.15	20.09	20.10	19.99	20.08			
15	64QAM	36	39	20.08	20.10	20.07	20.03	20.02			
15	64QAM	75	0	20.25	20.18	20.19	20.15	20.19	21		
15	256QAM	1	0	16.41	16.49	16.46	16.36	16.34			
15	256QAM	1	37	16.40	16.20	16.32	16.27	16.30			
15	256QAM	1	74	16.36	16.28	16.37	16.24	16.32			
15	256QAM	36	0	16.51	16.40	16.27	16.19	16.08	18		
15	256QAM	36	20	16.38	16.38	16.30	16.26	16.28			
15	256QAM	36	39	16.27	16.33	16.32	16.13	16.15			
15	256QAM	75	0	16.44	16.37	16.44	16.38	16.39			
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)		
Frequency (MHz)				2501	2547	2593	2639	2685			
10	QPSK	1	0	22.03	21.98	22.13	21.96	21.92	24		
10	QPSK	1	25	21.95	22.00	21.89	21.95	21.91			
10	QPSK	1	49	22.08	21.92	21.98	21.96	21.93			
10	QPSK	25	0	21.31	21.23	21.28	21.16	21.02			
10	QPSK	25	12	21.30	21.19	21.21	21.05	20.94	23		
10	QPSK	25	25	21.32	21.13	21.16	20.88	20.89			
10	QPSK	50	0	21.28	21.20	21.22	21.04	20.96			
10	16QAM	1	0	21.38	21.31	21.27	21.18	21.24			
10	16QAM	1	25	21.27	21.17	21.20	21.09	21.17	23		
10	16QAM	1	49	21.23	21.06	21.34	21.17	21.17			
10	16QAM	25	0	20.30	20.33	20.15	20.12	19.99			
10	16QAM	25	12	20.32	20.16	20.21	20.10	20.00			
10	16QAM	25	25	20.25	20.01	20.04	20.02	19.97	22		
10	16QAM	50	0	20.13	20.14	20.22	20.17	20.19			
10	64QAM	1	0	20.26	20.31	20.19	20.12	20.17			
10	64QAM	1	25	20.27	19.92	20.12	20.06	20.04			
10	64QAM	1	49	20.12	20.07	20.16	20.14	20.08	21		
10	64QAM	25	0	20.25	20.27	20.07	20.03	19.93			
10	64QAM	25	12	20.22	20.14	20.06	20.10	20.03			
10	64QAM	25	25	20.12	20.03	20.12	20.01	19.99			
10	64QAM	50	0	20.31	20.25	20.27	20.12	20.17	18		
10	256QAM	1	0	16.44	16.52	16.47	16.27	16.36			
10	256QAM	1	25	16.44	16.16	16.28	16.27	16.26			
10	256QAM	1	49	16.40	16.33	16.34	16.28	16.27			
10	256QAM	25	0	16.52	16.45	16.26	16.21	16.08	18		
10	256QAM	25	12	16.40	16.40	16.37	16.18	16.21			
10	256QAM	25	25	16.32	16.24	16.25	16.12	16.17			
10	256QAM	50	0	16.45	16.43	16.44	16.37	16.37			
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)		
Frequency (MHz)				2498.5	2545.5	2593	2640.30	2687.5			
5	QPSK	1	0	22.01	21.92	22.15	21.94	22.00	24		
5	QPSK	1	12	22.01	22.00	21.93	21.92	21.96			
5	QPSK	1	24	22.07	21.90	21.96	21.94	21.95			
5	QPSK	12	0	21.31	21.24	21.29	21.15	21.03			
5	QPSK	12	7	21.23	21.27	21.14	21.00	21.00	23		
5	QPSK	12	13	21.21	21.13	21.11	20.98	20.90			
5	QPSK	25	0	21.21	21.26	21.16	21.03	20.90			
5	16QAM	1	0	21.30	21.34	21.30	21.29	21.29			
5	16QAM	1	12	21.23	21.11	21.19	21.14	21.19	23		
5	16QAM	1	24	21.15	21.09	21.23	21.20	21.13			
5	16QAM	12	0	20.30	20.26	20.19	20.05	19.97			
5	16QAM	12	7	20.24	20.14	20.19	20.13	20.02			
5	16QAM	12	13	20.24	20.00	20.04	19.90	19.99	22		
5	16QAM	25	0	20.18	20.18	20.21	20.18	20.15			
5	64QAM	1	0	20.25	20.28	20.21	20.11	20.14			
5	64QAM	1	12	20.19	19.92	20.13	19.99	20.09			
5	64QAM	1	24	20.14	20.05	20.22	20.11	20.16	21		
5	64QAM	12	0	20.29	20.24	20.14	19.98	19.92			
5	64QAM	12	7	20.14	20.16	20.08	20.00	20.02			
5	64QAM	12	13	20.04	20.04	20.04	20.00	19.97			
5	64QAM	25	0	20.24	20.19	20.26	20.11	20.18	18		
5	256QAM	1	0	16.40	16.53	16.44	16.35	16.31			
5	256QAM	1	12	16.40	16.14	16.32	16.21	16.21			
5	256QAM	1	24	16.34	16.23	16.34	16.26	16.31			
5	256QAM	12	0	16.49	16.38	16.36	16.28	16.10	18		
5	256QAM	12	7	16.41	16.29	16.39	16.21	16.27			
5	256QAM	12	13	16.26	16.24	16.24	16.22	16.25			
5	256QAM	25	0	16.41	16.41	16.45	16.37	16.32			

Band 66 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	24.5
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	22.81	22.84	22.75	24.5
20	QPSK	1	49	22.53	22.65	22.50	
20	QPSK	1	99	22.61	22.61	22.58	
20	QPSK	50	0	21.73	21.78	21.78	23.5
20	QPSK	50	24	21.66	21.74	21.73	
20	QPSK	50	50	21.77	21.72	21.74	
20	QPSK	100	0	21.68	21.75	21.65	23.5
20	16QAM	1	0	22.03	21.98	22.00	
20	16QAM	1	49	21.90	21.99	21.76	
20	16QAM	1	99	21.84	21.91	21.99	22.5
20	16QAM	50	0	20.70	20.63	20.62	
20	16QAM	50	24	20.82	20.77	20.65	
20	16QAM	50	50	20.75	20.74	20.71	22.5
20	16QAM	100	0	20.76	20.73	20.63	
20	64QAM	1	0	20.99	20.96	20.97	
20	64QAM	1	49	20.87	20.97	20.71	21.5
20	64QAM	1	99	20.78	20.91	20.92	
20	64QAM	50	0	20.67	20.62	20.62	
20	64QAM	50	24	20.74	20.72	20.64	21.5
20	64QAM	50	50	20.67	20.68	20.68	
20	64QAM	100	0	20.78	20.67	20.56	
20	256QAM	1	0	16.88	16.83	16.90	18.5
20	256QAM	1	49	16.71	16.88	16.61	
20	256QAM	1	99	16.73	16.80	16.88	
20	256QAM	50	0	16.53	16.46	16.47	18.5
20	256QAM	50	24	16.63	16.67	16.48	
20	256QAM	50	50	16.66	16.59	16.57	
20	256QAM	100	0	16.62	16.65	16.48	Tune-up limit (dBm)
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	24.5
15	QPSK	1	0	22.43	22.63	22.59	
15	QPSK	1	37	22.51	22.58	22.40	23.5
15	QPSK	1	74	22.55	22.60	22.54	
15	QPSK	36	0	21.51	21.55	21.54	
15	QPSK	36	20	21.57	21.70	21.72	23.5
15	QPSK	36	39	21.68	21.68	21.69	
15	QPSK	75	0	21.53	21.57	21.69	
15	16QAM	1	0	22.01	21.91	21.98	23.5
15	16QAM	1	37	21.85	21.95	21.72	
15	16QAM	1	74	21.79	21.82	21.92	
15	16QAM	36	0	20.68	20.58	20.60	22.5
15	16QAM	36	20	20.71	20.75	20.64	
15	16QAM	36	39	20.69	20.65	20.63	
15	16QAM	75	0	20.69	20.65	20.53	22.5
15	64QAM	1	0	20.94	20.92	20.90	
15	64QAM	1	37	20.78	20.87	20.67	
15	64QAM	1	74	20.67	20.86	20.90	21.5
15	64QAM	36	0	20.55	20.61	20.54	
15	64QAM	36	20	20.64	20.62	20.63	
15	64QAM	36	39	20.58	20.66	20.58	18.5
15	64QAM	75	0	20.76	20.65	20.49	
15	256QAM	1	0	16.85	16.78	16.84	
15	256QAM	1	37	16.65	16.80	16.55	18.5
15	256QAM	1	74	16.62	16.75	16.88	
15	256QAM	36	0	16.57	16.56	16.56	
15	256QAM	36	20	16.64	16.81	16.54	18.5
15	256QAM	36	39	16.66	16.67	16.68	
15	256QAM	75	0	16.62	16.76	16.57	
Channel				132022	132322	132622	24.5
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.53	22.63	22.61	24.5
10	QPSK	1	25	22.41	22.62	22.42	
10	QPSK	1	49	22.51	22.55	22.49	
10	QPSK	25	0	21.51	21.59	21.60	23.5
10	QPSK	25	12	21.59	21.67	21.65	
10	QPSK	25	25	21.68	21.67	21.68	
10	QPSK	50	0	21.59	21.48	21.74	23.5
10	16QAM	1	0	22.02	21.92	21.96	
10	16QAM	1	25	21.83	21.95	21.68	
10	16QAM	1	49	21.80	21.86	21.91	22.5
10	16QAM	25	0	20.58	20.60	20.54	
10	16QAM	25	12	20.79	20.71	20.60	
10	16QAM	25	25	20.64	20.71	20.64	22.5
10	16QAM	50	0	20.71	20.64	20.59	
10	64QAM	1	0	20.87	20.94	20.87	
10	64QAM	1	25	20.85	20.91	20.65	21.5
10	64QAM	1	49	20.67	20.88	20.86	
10	64QAM	25	0	20.65	20.61	20.53	
10	64QAM	25	12	20.70	20.69	20.54	18.5
10	64QAM	25	25	20.56	20.66	20.59	
10	64QAM	50	0	20.70	20.57	20.55	
10	256QAM	1	0	17.00	16.91	16.99	18.5
10	256QAM	1	25	16.83	17.02	16.70	
10	256QAM	1	49	16.80	16.94	16.94	
10	256QAM	25	0	16.58	16.55	16.56	18.5
10	256QAM	25	12	16.78	16.82	16.57	
10	256QAM	25	25	16.72	16.69	16.70	
10	256QAM	50	0	16.75	16.73	16.58	Tune-up limit (dBm)
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	24.5
5	QPSK	1	0	22.49	22.66	22.60	
5	QPSK	1	12	22.50	22.57	22.44	24.5
5	QPSK	1	24	22.56	22.53	22.53	
5	QPSK	12	0	21.59	21.62	21.60	23.5
5	QPSK	12	7	21.60	21.70	21.64	
5	QPSK	12	13	21.71	21.68	21.67	

Band 71 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				133222	133322	133372	
Frequency (MHz)				673	683	688	
20	QPSK	1	0	22.69	22.82	22.75	24.5
20	QPSK	1	49	22.66	22.72	22.65	
20	QPSK	1	99	22.77	22.74	22.78	
20	QPSK	50	0	21.80	21.88	21.84	23.5
20	QPSK	50	24	21.73	21.76	21.80	
20	QPSK	50	50	21.84	21.87	21.85	
20	QPSK	100	0	21.79	21.89	21.81	23.5
20	16QAM	1	0	22.00	22.04	22.04	
20	16QAM	1	49	22.02	22.11	22.09	
20	16QAM	1	99	22.05	22.12	22.10	23.5
20	16QAM	50	0	20.72	20.76	20.81	
20	16QAM	50	24	20.87	20.89	20.86	
20	16QAM	50	50	20.86	20.91	20.88	22.5
20	16QAM	100	0	20.85	20.77	20.91	
20	64QAM	1	0	20.94	21.08	20.99	
20	64QAM	1	49	20.96	21.11	21.03	22.5
20	64QAM	1	99	21.06	21.17	21.07	
20	64QAM	50	0	20.66	20.70	20.80	
20	64QAM	50	24	20.87	20.87	20.86	21.5
20	64QAM	50	50	20.90	20.90	20.90	
20	64QAM	100	0	20.87	20.74	20.95	
20	256QAM	1	0	17.52	17.66	17.57	19
20	256QAM	1	49	17.54	17.69	17.61	
20	256QAM	1	99	17.64	17.75	17.65	
20	256QAM	50	0	17.25	17.29	17.39	19
20	256QAM	50	24	17.46	17.46	17.45	
20	256QAM	50	50	17.49	17.49	17.49	
20	256QAM	100	0	17.46	17.33	17.54	
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	22.60	22.73	22.66	24.5
15	QPSK	1	37	22.57	22.63	22.56	
15	QPSK	1	74	22.68	22.65	22.69	
15	QPSK	36	0	21.71	21.79	21.75	23.5
15	QPSK	36	20	21.64	21.67	21.71	
15	QPSK	36	39	21.75	21.78	21.76	
15	QPSK	75	0	21.70	21.80	21.72	23.5
15	16QAM	1	0	21.91	21.95	21.95	
15	16QAM	1	37	21.93	22.02	22.00	
15	16QAM	1	74	21.96	22.03	22.01	22.5
15	16QAM	36	0	20.63	20.67	20.72	
15	16QAM	36	20	20.78	20.80	20.77	
15	16QAM	36	39	20.77	20.82	20.79	22.5
15	16QAM	75	0	20.76	20.68	20.82	
15	64QAM	1	0	20.85	20.99	20.90	
15	64QAM	1	37	20.87	21.02	20.94	22.5
15	64QAM	1	74	20.97	21.08	20.98	
15	64QAM	36	0	20.57	20.61	20.71	
15	64QAM	36	20	20.78	20.78	20.77	21.5
15	64QAM	36	39	20.81	20.81	20.81	
15	64QAM	75	0	20.78	20.65	20.86	
15	256QAM	1	0	17.43	17.57	17.48	19
15	256QAM	1	37	17.45	17.60	17.52	
15	256QAM	1	74	17.55	17.66	17.56	
15	256QAM	36	0	17.16	17.20	17.30	19
15	256QAM	36	20	17.37	17.37	17.36	
15	256QAM	36	39	17.40	17.40	17.40	
15	256QAM	75	0	17.37	17.24	17.45	
Channel				133172	133272	133422	Tune-up limit (dBm)
Frequency (MHz)				668	678	693	
10	QPSK	1	0	22.56	22.69	22.62	24.5
10	QPSK	1	25	22.53	22.59	22.52	
10	QPSK	1	49	22.64	22.61	22.65	
10	QPSK	25	0	21.67	21.75	21.71	23.5
10	QPSK	25	12	21.60	21.63	21.67	
10	QPSK	25	25	21.71	21.74	21.72	
10	QPSK	50	0	21.66	21.76	21.68	23.5
10	16QAM	1	0	21.87	21.91	21.91	
10	16QAM	1	25	21.89	21.98	21.96	
10	16QAM	1	49	21.92	21.99	21.97	22.5
10	16QAM	25	0	20.59	20.63	20.68	
10	16QAM	25	12	20.74	20.76	20.73	
10	16QAM	25	25	20.73	20.78	20.75	22.5
10	16QAM	50	0	20.72	20.84	20.78	
10	64QAM	1	0	20.81	20.95	20.86	
10	64QAM	1	25	20.83	20.98	20.90	22.5
10	64QAM	1	49	20.93	21.04	20.94	
10	64QAM	25	0	20.53	20.57	20.67	
10	64QAM	25	12	20.74	20.74	20.73	21.5
10	64QAM	25	25	20.77	20.77	20.77	
10	64QAM	50	0	20.74	20.61	20.82	
10	256QAM	1	0	17.39	17.53	17.44	19
10	256QAM	1	25	17.41	17.56	17.48	
10	256QAM	1	49	17.51	17.62	17.52	
10	256QAM	25	0	17.12	17.16	17.26	19
10	256QAM	25	12	17.33	17.33	17.32	
10	256QAM	25	25	17.36	17.36	17.36	
10	256QAM	50	0	17.33	17.20	17.41	
Channel				133147	133247	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	675.5	695.5	
5	QPSK	1	0	22.49	22.62	22.55	24.5
5	QPSK	1	12	22.46	22.52	22.45	
5	QPSK	1	24	22.57	22.54	22.58	
5	QPSK	12	0	21.60	21.68	21.64	23.5
5	QPSK	12	7	21.53	21.56	21.60	
5	QPSK	12	13	21.64	21.67	21.65	

5	QPSK	25	0	21.55	21.54	21.74	23.5
5	16QAM	1	0	21.97	21.94	21.97	
5	16QAM	1	12	21.78	21.95	21.70	
5	16QAM	1	24	21.77	21.88	21.89	22.5
5	16QAM	12	0	20.65	20.53	20.56	
5	16QAM	12	7	20.76	20.70	20.55	
5	16QAM	12	13	20.63	20.72	20.67	22.5
5	16QAM	25	0	20.75	20.70	20.58	
5	64QAM	1	0	20.89	20.88	20.94	
5	64QAM	1	12	20.75	20.94	20.68	22.5
5	64QAM	1	24	20.69	20.83	20.90	
5	64QAM	12	0	20.64	20.53	20.56	
5	64QAM	12	7	20.72	20.69	20.56	21.5
5	64QAM	12	13	20.65	20.67	20.64	
5	64QAM	25	0	20.66	20.66	20.51	
5	256QAM	1	0	17.00	16.92	16.98	18.5
5	256QAM	1	12	16.77	16.94	16.70	
5	256QAM	1	24	16.83	16.94	16.97	
5	256QAM	12	0	16.62	16.59	16.53	18.5
5	256QAM	12	7	16.68	16.74	16.63	
5	256QAM	12	13	16.79	16.71	16.69	
5	256QAM	25	0	16.74	16.74	16.56	
Channel				131987	132322	132657	Tune-up limit
Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	22.49	22.59	22.56	24.5
3	QPSK	1	8	22.41	22.59	22.46	
3	QPSK	1	14	22.51	22.52	22.57	
3	QPSK	8	0	21.58	21.56	21.59	23.5
3	QPSK	8	4	21.62	21.65	21.65	
3	QPSK	8	7	21.68	21.68	21.65	
3	QPSK	15	0	21.57	21.48	21.65	23.5
3	16QAM	1	0	21.98	21.95	21.90	
3	16QAM	1	8	21.86	21.91	21.74	
3	16QAM	1	14	21.72	21.88	21.98	22.5
3	16QAM	8	0	20.60	20.60	20.55	
3	16QAM	8	4	20.73	20.70	20.63	
3	16QAM	8	7	20.67	20.66	20.70	22.5
3	16QAM	15	0	20.66	20.64	20.58	
3	64QAM	1	0	20.98	20.89	20.96	
3	64QAM	1	8	20.85	20.92	20.69	21.5
3	64QAM	1	14	20.73	20.85	20.82	
3	64QAM	8	0	20.58	20.60	20.52	
3	64QAM	8	4	20.73	20.62	20.63	18.5
3	64QAM	8	7	20.63	20.58	20.62	
3	64QAM	15	0	20.74	20.61	20.50	
3	256QAM	1	0	16.93	16.91	17.03	18.5
3	256QAM	1	8	16.85	16.97	16.67	
3	256QAM	1	14	16.82	16.88	16.99	
3	256QAM	8	0	16.57	16.59	16.62	18.5
3	256QAM	8	4	16.76	16.76	16.57	
3	256QAM	8	7	16.74	16.66	16.67	
3	256QAM	15	0	16.76	16.72	16.55	
Channel				131979	132322	132665	Tune-up limit
Frequency (MHz)				1710.7	1745	1779.3	(dBm)
1.4	QPSK	1	0	22.48	22.64	22.60	24.5
1.4	QPSK	1	3	22.51	22.59	22.48	
1.4	QPSK	1	5	22.52	22.60	22.48	
1.4	QPSK	3	0	22.62	22.60	22.74	23.5
1.4	QPSK	3	1	22.65	22.67	22.63	
1.4	QPSK	3	3	22.70	22.67	22.64	
1.4	QPSK	6	0	21.61	21.48	21.72	23.5
1.4	16QAM	1	0	21.95	21.91	21.90	
1.4	16QAM	1	3	21.82	21.94	21.67	
1.4	16QAM	1	5	21.82	21.89	21.93	22.5
1.4	16QAM	3	0	21.59	21.81	21.60	
1.4	16QAM	3	1	21.79	21.76	21.62	
1.4	16QAM	3	3	21.66	21.69	21.68	22.5
1.4	16QAM	6	0	20.69	20.65	20.66	
1.4	64QAM	1	0	20.95	20.88	20.87	
1.4	64QAM	1	3	20.79	20.95	20.68	22.5
1.4	64QAM	1	5	20.76	20.83	20.86	
1.4	64QAM	3	0	20.69	20.64	20.60	
1.4	64QAM	3	1	20.63	20.68	20.62	21.5
1.4	64QAM	3	3	20.63	20.64	20.67	
1.4	64QAM	6	0	20.75	20.62	20.54	
1.4	256QAM	1	0	17.02	16.98	17.02	18.5
1.4	256QAM	1	3	16.77	16.97	16.76	
1.4	256QAM	1	5	16.79	16.90	17.01	
1.4	256QAM	3	0	16.66	16.54	16.57	18.5
1.4	256QAM	3	1	16.78	16.73	16.62	
1.4	256QAM	3	3	16.71	16.73	16.72	
1.4	256QAM	6	0	16.67	16.76	16.57	18.5

5	QPSK	25	0	21.59	21.69	21.61	23.5
5	16QAM	1	0	21.80	21.84	21.84	
5	16QAM	1	12	21.82	21.91	21.89	
5	16QAM	1	24	21.85	21.92	21.90	22.5
5	16QAM	12	0	20.52	20.56	20.61	
5	16QAM	12	7	20.67	20.69	20.66	
5	16QAM	12	13	20.66	20.71	20.68	22.5
5	16QAM	25	0	20.65	20.57	20.71	
5	64QAM	1	0	20.74	20.88	20.79	
5	64QAM	1	12	20.76	20.91	20.83	22.5
5	64QAM	1	24	20.86	20.97	20.87	
5	64QAM	12	0	20.46	20.50	20.60	
5	64QAM	12	7	20.67	20.67	20.66	21.5
5	64QAM	12	13	20.70	20.70	20.70	
5	64QAM	25	0	20.67	20.54	20.75	
5	256QAM	1	0	17.32	17.46	17.37	19
5	256QAM	1	12	17.34	17.49	17.41	
5	256QAM	1	24	17.44	17.55	17.45	
5	256QAM	12	0	17.05	17.09	17.19	19
5	256QAM	12	7	17.26	17.26	17.25	
5	256QAM	12	13	17.29	17.29	17.29	
5	256QAM	25	0	17.26	17.13	17.34	

n2 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	25
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	23.30	23.32	23.39	25
20		1	53	23.23	23.24	23.13	
20		1	104	23.23	23.25	23.08	
20		50	1	22.88	22.96	22.85	25
20		50	25	23.42	23.37	23.30	
20		50	50	22.92	22.89	22.75	
20		100	0	22.90	22.90	22.79	
20	DFT-s-OFDM QPSK	1	1	23.53	23.58	23.56	25
20		1	53	23.41	23.35	23.28	
20		1	104	23.37	23.25	23.24	
20		50	1	22.44	22.49	22.43	25
20		50	25	23.38	23.43	23.39	
20		50	50	22.40	22.21	22.28	
20		100	0	22.40	22.46	22.37	
20	DFT-s-OFDM 16QAM	1	1	22.43	22.44	22.36	23
20	DFT-s-OFDM 64QAM	1	1	21.03	20.92	20.86	22
20	DFT-s-OFDM 256QAM	1	1	18.68	18.63	18.70	19.5
20	CP-OFDM QPSK	1	1	21.96	21.91	21.83	22.5
20	CP-OFDM 16QAM	1	1	21.42	21.34	21.38	22
20	CP-OFDM 64QAM	1	1	20.11	20.07	20.00	21
20	CP-OFDM 256QAM	1	1	16.63	16.68	16.61	17.5
Channel				371500	376000	380500	25
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	23.48	23.43	23.27	25
Channel				371000	376000	381000	25
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	23.40	23.42	23.38	25
Channel				370500	376000	381500	25
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	23.48	22.37	23.36	25

n5 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	Tune-up limit (dBm)
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	23.64	23.67	23.57	24.5
20		1	53	23.36	23.43	23.38	
20		1	104	23.31	23.35	23.23	
20		50	1	22.70	23.12	23.09	25
20		50	25	23.57	23.62	23.57	
20		50	50	22.53	22.98	22.97	
20		100	0	22.70	23.12	23.06	
20	DFT-s-OFDM QPSK	1	1	23.90	23.98	23.94	25
20		1	53	23.38	23.56	23.52	
20		1	104	23.40	23.39	23.53	
20		50	1	22.71	22.62	22.62	25
20		50	25	23.57	23.60	23.57	
20		50	50	22.53	22.50	22.47	
20		100	0	22.59	22.65	22.57	
20	DFT-s-OFDM 16QAM	1	1	22.86	22.84	22.75	23.5
20	DFT-s-OFDM 64QAM	1	1	21.44	21.42	21.29	22
20	DFT-s-OFDM 256QAM	1	1	19.09	19.04	19.00	20
20	CP-OFDM QPSK	1	1	22.33	22.24	22.19	23
20	CP-OFDM 16QAM	1	1	21.91	21.78	21.77	22.5
20	CP-OFDM 64QAM	1	1	20.41	20.38	20.33	21
20	CP-OFDM 256QAM	1	1	17.11	17.06	17.00	18
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	23.89	23.76	23.71	24.5
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	23.89	23.72	23.52	24.5
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	23.53	23.56	23.52	24.5

n7 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				502000	507000	512000	25
Frequency (MHz)				2510	2535	2560	
20	DFT-s-OFDM PI/2 BPSK	1	1	22.80	23.20	23.06	25
20		1	53	23.23	23.16	23.04	
20		1	104	23.16	23.17	23.11	
20		50	1	22.78	22.79	22.66	25
20		50	25	23.28	23.35	23.11	
20		50	50	22.74	22.66	22.62	
20		100	0	22.73	22.73	22.60	
20	DFT-s-OFDM QPSK	1	1	23.33	23.39	23.20	25
20		1	53	23.28	23.33	23.09	
20		1	104	23.27	23.23	23.23	
20		50	1	22.29	22.23	22.06	25
20		50	25	23.25	23.29	23.21	
20		50	50	22.27	22.21	22.11	
20		100	0	22.15	22.19	22.10	
20	DFT-s-OFDM 16QAM	1	1	22.33	22.38	22.27	23
20	DFT-s-OFDM 64QAM	1	1	20.84	20.88	20.63	21.5
20	DFT-s-OFDM 256QAM	1	1	18.46	18.39	18.20	19
20	CP-OFDM QPSK	1	1	21.90	21.86	21.69	22.5
20	CP-OFDM 16QAM	1	1	21.36	21.34	21.21	22
20	CP-OFDM 64QAM	1	1	19.92	19.92	19.77	20.5
20	CP-OFDM 256QAM	1	1	16.54	16.46	16.28	17
Channel				501500	507000	512500	25
Frequency (MHz)				2507.5	2535	2562.5	
15	DFT-s-OFDM QPSK	1	1	23.32	23.20	23.09	25
Channel				501000	507000	513000	25
Frequency (MHz)				2505	2535	2565	
10	DFT-s-OFDM QPSK	1	1	23.21	23.13	23.09	25
Channel				500500	507000	513500	25
Frequency (MHz)				2502.5	2535	2567.5	
5	DFT-s-OFDM QPSK	1	1	23.25	23.17	23.17	25

n25 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376500	381000	25
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM PI/2 BPSK	1	1	23.22	23.30	23.23	25
20		1	53	23.32	23.29	23.24	
20		1	104	23.25	23.22	23.26	
20		50	1	22.85	22.51	22.76	25
20		50	25	23.33	23.31	23.32	
20		50	50	22.84	22.78	22.79	
20		100	0	22.84	22.88	22.73	
20	DFT-s-OFDM QPSK	1	1	23.43	23.48	23.46	25
20		1	53	23.40	23.36	23.38	
20		1	104	23.40	23.38	23.40	
20		50	1	22.37	22.33	22.27	25
20		50	25	23.34	23.40	23.35	
20		50	50	22.43	22.30	22.35	
20		100	0	22.26	22.31	22.23	
20	DFT-s-OFDM 16QAM	1	1	22.49	22.38	22.38	23
20	DFT-s-OFDM 64QAM	1	1	20.95	20.86	20.88	21.5
20	DFT-s-OFDM 256QAM	1	1	18.34	18.40	18.26	19
20	CP-OFDM QPSK	1	1	21.96	21.87	21.87	22.5
20	CP-OFDM 16QAM	1	1	21.41	21.34	21.34	22
20	CP-OFDM 64QAM	1	1	20.02	20.00	19.91	21
20	CP-OFDM 256QAM	1	1	16.44	16.40	16.33	17.5
Channel				371500	376500	381500	25
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	23.40	23.41	23.39	25
Channel				371000	376500	382000	25
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	23.34	23.37	22.97	25
Channel				370500	376500	382500	25
Frequency (MHz)				1852.5	1882.5	1912.5	
5	DFT-s-OFDM QPSK	1	1	23.35	23.30	23.20	25

n26(814-824MHz) (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					163800		
Frequency (MHz)					819		
10	DFT-s-OFDM PI/2 BPSK	1	1		23.12		25
10		1	26		23.18		
10		1	50		23.12		
10		25	1		22.77		25
10	DFT-s-OFDM QPSK	25	12		23.21		
10		25	25		22.81		
10		50	0		22.75		
10		1	1		23.26		25
10	DFT-s-OFDM 16QAM	1	26		23.30		
10		1	50		23.29		
10		25	1		22.28		25
10		25	12		23.21		
10	DFT-s-OFDM 64QAM	25	25		22.30		
10		50	0		22.27		24
10	DFT-s-OFDM 256QAM	1	1		22.29		24
10	CP-OFDM QPSK	1	1		20.90		23
10	CP-OFDM 16QAM	1	1		18.54		20
10	CP-OFDM 64QAM	1	1		21.73		23
10	CP-OFDM 256QAM	1	1		21.34		22
10		1	1		19.92		21
10		1	1		16.47		17
Channel				163300	163800	164300	Tune-up limit (dBm)
Frequency (MHz)				816.5	819	821.5	
5	DFT-s-OFDM QPSK	1	1	23.26	23.25	23.24	25

n26(824-849MHz) (PC3)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM PI/2 BPSK	1	1	23.12	23.14	23.10	25
15		1	39	23.05	23.05	23.10	
15		1	77	23.13	23.12	23.14	
15		36	1	22.78	22.70	22.68	25
15		36	18	23.19	23.23	23.06	
15		36	37	22.73	22.68	22.68	
15		75	0	22.69	22.78	22.63	
15	DFT-s-OFDM QPSK	1	1	23.28	23.31	23.27	25
15		1	39	23.27	23.23	23.20	
15		1	77	23.22	23.38	23.16	
15		36	1	22.25	22.18	22.20	25
15		36	18	23.19	23.24	23.09	
15		36	37	22.23	22.19	22.20	
15		75	0	22.25	22.31	22.18	24
15	DFT-s-OFDM 16QAM	1	1	22.33	22.35	22.31	24
15	DFT-s-OFDM 64QAM	1	1	20.88	20.94	20.90	23
15	DFT-s-OFDM 256QAM	1	1	18.56	18.56	18.52	20
15	CP-OFDM QPSK	1	1	21.77	21.80	21.75	22.5
15	CP-OFDM 16QAM	1	1	21.35	21.40	21.31	22
15	CP-OFDM 64QAM	1	1	19.95	19.92	19.88	20.5
15	CP-OFDM 256QAM	1	1	16.59	16.59	16.57	17
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	23.24	23.29	23.07	25
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	23.32	23.29	23.33	25

n30 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					462000		
Frequency (MHz)					2310		
10	DFT-s-OFDM PI/2 BPSK	1	1		23.06		25
10		1	26		23.09		
10		1	50		23.09		
10		25	1		22.64		25
10		25	12		23.14		
10		25	25		22.63		
10		50	0		22.60		
10	DFT-s-OFDM QPSK	1	1		23.12		25
10		1	26		23.16		
10		1	50		23.15		
10		25	1		22.14		25
10		25	12		23.15		
10		25	25		22.15		
10		50	0		22.23		24
10	DFT-s-OFDM 16QAM	1	1		22.31		24
10	DFT-s-OFDM 64QAM	1	1		20.79		23
10	DFT-s-OFDM 256QAM	1	1		18.38		20
10	CP-OFDM QPSK	1	1		21.70		23
10	CP-OFDM 16QAM	1	1		21.20		22
10	CP-OFDM 64QAM	1	1		19.83		21
10	CP-OFDM 256QAM	1	1		16.26		17
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	DFT-s-OFDM QPSK	1	1	23.01	23.11	23.15	25

n41 (PC2)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	27
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	25.41	25.27	25.10	24.94	24.75	27
100		1	136	25.25	25.16	24.97	24.97	24.99	
100		1	271	25.16	25.15	25.36	25.49	25.53	
100		135	1	24.84	24.77	24.63	24.48	24.41	
100		135	67	25.32	25.20	25.12	25.07	25.05	26
100		135	136	24.70	24.61	24.62	24.69	24.83	
100		270	0	24.79	24.74	24.68	24.64	24.63	
100	DFT-s-OFDM QPSK	1	1	25.46	25.39	25.13	24.97	24.82	27
100		1	136	25.23	25.16	24.98	25.00	25.04	
100		1	271	25.51	25.62	25.65	25.57	25.62	
100		135	1	24.33	24.21	24.15	23.98	23.87	
100		135	67	25.30	25.21	25.32	25.27	25.24	26.5
100		135	136	24.21	24.07	24.16	24.17	24.31	
100		270	0	24.17	24.12	25.20	24.14	24.11	
100	DFT-s-OFDM 16QAM	1	1	24.54	24.30	24.24	24.02	23.83	25
100	DFT-s-OFDM 64QAM	1	1	22.61	22.48	22.48	22.36	22.18	23
100	DFT-s-OFDM 256QAM	1	1	20.78	20.68	20.52	20.39	20.15	21
100	CP-OFDM QPSK	1	1	23.94	23.85	23.53	23.51	23.27	24.5
100	CP-OFDM 16QAM	1	1	23.32	23.13	23.02	22.97	22.72	24
100	CP-OFDM 64QAM	1	1	21.84	21.60	21.63	21.42	21.23	22.5
100	CP-OFDM 256QAM	1	1	18.79	18.78	18.63	18.45	18.22	19.5
Channel				508200	513402	518598	523800	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	25.41	25.35	25.08	24.90	24.72	27
Channel				507204	512904	518598	524298	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	25.39	25.30	25.04	24.86	24.71	27
Channel				506202	512400	518598	524796	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	25.40	25.38	25.12	24.86	24.81	27
Channel				505200	511902	518598	525798	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	25.45	25.44	25.19	24.87	25.07	27
Channel				504204	511404	518598	525798	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	25.54	25.34	25.23	24.98	25.08	27
Channel				503202	510900	518598	526296	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	25.56	25.47	25.21	25.09	25.28	27
Channel				502200	510402	518598	526800	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	25.45	25.37	25.17	24.93	25.29	27
Channel				501204	509904	518598	527298	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	25.44	25.30	25.09	25.09	25.31	27

n41 (PC3)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	25
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	23.28	23.30	23.15	21.49	22.79	25
100		1	136	23.22	23.12	22.96	22.95	23.03	
100		1	271	23.09	23.11	23.30	23.41	23.34	
100		135	1	23.38	23.27	23.12	22.92	22.86	25
100		135	67	23.28	23.22	23.09	23.00	23.04	
100		135	136	23.16	23.05	23.06	23.23	23.23	
100		270	0	23.25	23.22	23.03	23.07	23.12	
100	DFT-s-OFDM QPSK	1	1	23.43	23.26	23.17	23.07	22.71	25
100		1	136	23.25	23.12	22.86	22.94	23.03	
100		1	271	23.42	23.52	23.54	23.47	23.50	
100		135	1	23.24	23.21	23.31	23.29	23.25	25
100		135	67	23.30	23.21	22.99	23.02	23.08	
100		135	136	23.19	23.05	23.06	23.23	23.23	
100		270	0	23.22	23.21	23.02	23.07	23.13	
100	DFT-s-OFDM 16QAM	1	1	23.29	23.23	23.30	23.14	22.67	24
100	DFT-s-OFDM 64QAM	1	1	22.70	22.58	22.54	22.39	22.11	23.5
100	DFT-s-OFDM 256QAM	1	1	20.72	20.76	20.56	20.37	20.12	21
100	CP-OFDM QPSK	1	1	23.37	23.26	23.13	23.01	23.14	24
100	CP-OFDM 16QAM	1	1	23.35	23.13	23.06	22.92	23.02	24
100	CP-OFDM 64QAM	1	1	21.80	21.51	21.65	21.50	21.51	22
100	CP-OFDM 256QAM	1	1	18.84	18.75	18.62	18.47	18.29	19.5
Channel				508200	513402	518598	523800	528996	Tune-up limit
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	(dBm)
90	DFT-s-OFDM QPSK	1	1	23.16	23.08	23.15	22.85	22.65	25
Channel				507204	512904	518598	524298	529998	Tune-up limit
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	(dBm)
80	DFT-s-OFDM QPSK	1	1	23.12	23.11	23.10	22.81	22.75	25
Channel				506202	512400	518598	524796	531000	Tune-up limit
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	(dBm)
70	DFT-s-OFDM QPSK	1	1	23.17	23.19	22.99	22.82	22.83	25
Channel				505200	511902	518598	525798	531996	Tune-up limit
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	(dBm)
60	DFT-s-OFDM QPSK	1	1	23.26	23.27	23.11	22.90	22.97	25
Channel				504204	511404	518598	525798	532998	Tune-up limit
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	(dBm)
50	DFT-s-OFDM QPSK	1	1	23.36	23.39	23.13	22.90	23.08	25
Channel				503202	510900	518598	526296	534000	Tune-up limit
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	(dBm)
40	DFT-s-OFDM QPSK	1	1	23.43	23.40	23.23	23.00	23.17	25
Channel				502200	510402	518598	526800	534996	Tune-up limit
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	(dBm)
30	DFT-s-OFDM QPSK	1	1	23.26	23.36	23.06	22.94	23.25	25
Channel				501204	509904	518598	527298	535998	Tune-up limit
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	(dBm)
20	DFT-s-OFDM QPSK	1	1	23.27	23.25	23.01	22.94	23.18	25

n48 (PC3)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				638000	639834	641666	643500	645332	25
Frequency (MHz)				3570	3597.51	3624.99	3652.5	3679.98	
40	DFT-s-OFDM PI/2 BPSK	1	1	23.39	23.63	20.32	24.16	24.14	25
40		1	53	23.43	23.75	24.00	24.13	24.10	
40		1	104	23.50	23.89	23.98	24.14	24.03	
40		50	1	22.89	23.19	23.48	23.63	23.66	25
40		50	25	23.46	23.73	24.05	24.14	24.08	
40		50	50	22.88	23.24	23.42	23.61	23.49	
40		100	0	22.91	23.27	23.58	23.63	23.59	
40	DFT-s-OFDM QPSK	1	1	24.15	24.06	24.19	24.15	24.12	25
40		1	53	23.42	23.69	23.99	24.06	24.08	
40		1	104	23.55	23.85	24.01	24.10	23.99	
40		50	1	22.44	22.72	22.99	23.18	23.14	25
40		50	25	24.09	24.07	24.15	24.08	24.10	
40		50	50	22.44	22.80	22.93	23.19	23.03	
40		100	0	23.14	23.09	23.17	23.10	23.08	
40	DFT-s-OFDM 16QAM	1	1	23.04	23.06	23.11	23.19	23.22	24
40	DFT-s-OFDM 64QAM	1	1	21.05	21.09	21.29	21.46	21.47	22.5
40	DFT-s-OFDM 256QAM	1	1	18.78	19.00	19.36	19.53	19.60	20.5
40	CP-OFDM QPSK	1	1	21.89	22.21	22.46	22.69	22.70	23.5
40	CP-OFDM 16QAM	1	1	21.33	21.59	21.88	22.16	22.14	23
40	CP-OFDM 64QAM	1	1	19.88	20.06	20.31	20.58	20.63	21.5
40	CP-OFDM 256QAM	1	1	16.81	17.14	17.39	17.67	17.60	18.5
Channel				637334	639500	641666	643832	646000	25
Frequency (MHz)				3560.01	3592.5	3624.99	3657.48	3690	
20	DFT-s-OFDM QPSK	1	1	23.17	23.47	23.82	23.98	23.95	25

n66 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				344000	349000	354000	25
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM PI/2 BPSK	1	1	23.56	23.49	23.38	25
20		1	53	23.36	23.48	23.41	
20		1	104	23.36	23.53	23.44	
20		50	1	22.98	23.11	23.04	25
20		50	25	23.48	23.54	23.51	
20		50	50	22.91	23.09	22.98	
20		100	0	22.98	23.14	22.99	
20	DFT-s-OFDM QPSK	1	1	23.59	23.53	23.63	25
20		1	53	23.53	23.52	23.57	
20		1	104	23.65	23.69	23.62	
20		50	1	22.43	22.60	22.62	25
20		50	25	23.56	23.58	23.57	
20		50	50	22.55	22.52	22.51	
20		100	0	22.53	22.65	22.58	24
20	DFT-s-OFDM 16QAM	1	1	22.65	22.59	22.64	23.5
20	DFT-s-OFDM 64QAM	1	1	21.16	21.06	21.13	22
20	DFT-s-OFDM 256QAM	1	1	18.53	18.63	18.67	19.5
20	CP-OFDM QPSK	1	1	22.05	22.06	22.11	23
20	CP-OFDM 16QAM	1	1	21.55	21.58	21.55	22.5
20	CP-OFDM 64QAM	1	1	20.27	20.17	20.26	21
20	CP-OFDM 256QAM	1	1	16.61	16.66	16.68	17.5
Channel				343500	349000	354500	25
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	23.56	23.59	23.62	25
Channel				343000	349000	355000	25
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	23.51	23.51	23.66	25
Channel				342500	349000	355500	25
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	23.52	23.65	23.63	25

n71 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				134600	136100	137600	25
Frequency (MHz)				673	680.5	688	
20	DFT-s-OFDM PI/2 BPSK	1	1	23.53	23.37	23.39	25
20		1	53	23.42	23.40	23.28	
20		1	104	23.41	23.33	23.02	
20		50	1	22.95	22.90	22.92	25
20		50	25	23.54	23.53	23.43	
20		50	50	23.07	22.98	22.76	
20		100	0	23.05	22.90	22.85	
20	DFT-s-OFDM QPSK	1	1	23.70	23.74	23.68	25
20		1	53	23.58	23.56	23.47	
20		1	104	23.52	23.41	23.08	
20		50	1	22.58	22.40	22.45	25
20		50	25	23.63	23.65	23.62	
20		50	50	22.58	22.46	22.23	
20		100	0	22.51	22.53	22.41	
20	DFT-s-OFDM 16QAM	1	1	22.73	22.56	22.62	23.5
20	DFT-s-OFDM 64QAM	1	1	21.14	20.99	21.02	22
20	DFT-s-OFDM 256QAM	1	1	18.53	18.36	18.40	19.5
20	CP-OFDM QPSK	1	1	22.19	21.98	22.10	23
20	CP-OFDM 16QAM	1	1	21.69	21.49	21.60	22.5
20	CP-OFDM 64QAM	1	1	20.28	20.12	20.14	21
20	CP-OFDM 256QAM	1	1	16.55	16.39	16.44	17.5
Channel				134100	136100	138100	25
Frequency (MHz)				670.5	680.5	690.5	
15	DFT-s-OFDM QPSK	1	1	23.69	23.46	23.63	25
Channel				133600	136100	138600	25
Frequency (MHz)				668	680.5	693	
10	DFT-s-OFDM QPSK	1	1	23.62	23.49	23.54	25
Channel				133100	136100	139100	25
Frequency (MHz)				665.5	680.5	695.5	
5	DFT-s-OFDM QPSK	1	1	23.70	23.46	23.43	25

n77(3450-3550MHz) (PC2)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			25.61			27
100		1	136			24.92			
100		1	271			24.75			
100		135	1			24.77			26
100		135	67			25.00			
100		135	136			24.29			
100		270	0			24.57			
100	DFT-s-OFDM QPSK	1	1			25.71			27
100		1	136			24.84			
100		1	271			24.72			
100		135	1			24.26			26
100		135	67			24.93			
100		135	136			23.80			
100		270	0			24.00			
100	DFT-s-OFDM 16QAM	1	1			24.69			25.5
100	DFT-s-OFDM 64QAM	1	1			23.04			24
100	DFT-s-OFDM 256QAM	1	1			20.98			22
100	CP-OFDM QPSK	1	1			24.11			25
100	CP-OFDM 16QAM	1	1			23.53			24.5
100	CP-OFDM 64QAM	1	1			22.02			23
100	CP-OFDM 256QAM	1	1			19.07			20
Channel				632668	633000	633334	633666	634000	Tune-up limit
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	(dBm)
80	DFT-s-OFDM QPSK	1	1	25.55	25.47	25.50	25.28	25.21	27
Channel				632000	632668	633334	634000	634666	Tune-up limit
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	(dBm)
60	DFT-s-OFDM QPSK	1	1	25.49	25.45	25.32	25.25	25.16	27
Channel				631334	632334	633334	634332	635332	Tune-up limit
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	(dBm)
40	DFT-s-OFDM QPSK	1	1	25.64	25.55	25.35	25.26	25.31	27
Channel				631000	632168	633334	634500	635666	Tune-up limit
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	(dBm)
30	DFT-s-OFDM QPSK	1	1	25.64	25.55	25.29	25.26	25.32	27
Channel				630668	632000	633334	634666	636000	Tune-up limit
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	(dBm)
20	DFT-s-OFDM QPSK	1	1	25.54	25.40	25.20	25.20	25.18	27

n77(3450-3550MHz) (PC3)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			23.45			25
100		1	136			22.91			
100		1	271			22.75			
100		135	1			23.25			24.5
100		135	67			23.08			
100		135	136			22.83			
100		270	0			23.09			
100	DFT-s-OFDM QPSK	1	1			23.65			25
100		1	136			23.19			
100		1	271			22.67			
100		135	1			23.29			24.5
100		135	67			23.03			
100		135	136			22.80			
100		270	0			23.11			
100	DFT-s-OFDM 16QAM	1	1			23.50			24
100	DFT-s-OFDM 64QAM	1	1			22.99			23.5
100	DFT-s-OFDM 256QAM	1	1			21.05			22
100	CP-OFDM QPSK	1	1			23.45			24.5
100	CP-OFDM 16QAM	1	1			23.30			24
100	CP-OFDM 64QAM	1	1			22.11			23
100	CP-OFDM 256QAM	1	1			19.06			20
Channel				632668	633000	633334	633666	634000	Tune-up limit
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	(dBm)
80	DFT-s-OFDM QPSK	1	1	23.51	23.46	23.46	23.39	23.37	25
Channel				632000	632668	633334	634000	634666	Tune-up limit
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	(dBm)
60	DFT-s-OFDM QPSK	1	1	23.46	23.36	23.34	23.18	23.23	25
Channel				631334	632334	633334	634332	635332	Tune-up limit
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	(dBm)
40	DFT-s-OFDM QPSK	1	1	23.69	23.57	23.44	23.27	23.35	25
Channel				631000	632168	633334	634500	635666	Tune-up limit
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	(dBm)
30	DFT-s-OFDM QPSK	1	1	23.66	23.51	23.33	23.25	23.32	25
Channel				630668	632000	633334	634666	636000	Tune-up limit
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	(dBm)
20	DFT-s-OFDM QPSK	1	1	23.53	23.37	23.16	23.14	23.13	25

n77(3700-3980MHz) (PC2)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	27.5
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	25.43	25.33	25.70	26.33	26.29	27.5
100		1	136	24.92	25.80	26.35	26.31	26.17	
100		1	271	25.11	26.45	26.21	26.06	25.98	
100		135	1	24.64	25.00	25.56	25.97	25.81	
100		135	67	24.97	25.75	26.28	26.37	26.14	27.5
100		135	136	24.39	25.63	25.79	25.65	25.46	
100		270	0	24.58	25.34	25.72	25.89	25.73	
100	DFT-s-OFDM QPSK	1	1	26.41	26.31	26.64	26.48	26.40	27.5
100		1	136	24.84	25.83	26.33	26.39	26.07	
100		1	271	25.04	26.41	26.22	26.03	25.97	
100		135	1	24.15	24.56	25.10	25.48	25.35	
100		135	67	26.37	26.31	26.40	26.34	26.32	27.5
100		135	136	23.92	25.19	25.29	25.16	25.01	
100		270	0	24.05	24.78	25.21	25.28	25.15	
100	DFT-s-OFDM 16QAM	1	1	25.38	25.25	25.27	25.34	25.51	26.5
100	DFT-s-OFDM 64QAM	1	1	23.71	23.62	23.60	23.67	23.76	24.5
100	DFT-s-OFDM 256QAM	1	1	21.28	21.44	21.42	21.70	21.80	22.5
100	CP-OFDM QPSK	1	1	24.14	24.28	24.29	24.55	24.36	25
100	CP-OFDM 16QAM	1	1	24.26	24.18	24.29	24.39	24.30	25
100	CP-OFDM 64QAM	1	1	22.26	22.38	22.09	22.70	22.93	23.5
100	CP-OFDM 256QAM	1	1	19.75	19.68	19.77	19.83	19.89	20.5
Channel				649334	652668	656000	659332	662666	27.5
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	25.42	25.26	25.74	26.51	26.34	27.5
Channel				648668	652334	656000	659666	663332	27.5
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	25.43	25.27	25.95	26.44	26.29	27.5
Channel				648000	652000	656000	660000	664000	27.5
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	25.87	25.54	26.42	26.49	26.24	27.5
Channel				647668	651834	656000	660166	664332	27.5
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	25.72	25.42	26.31	26.49	26.10	27.5
Channel				647334	651668	656000	660332	664666	27.5
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	25.59	25.44	26.39	26.40	26.08	27.5

n77(3700-3980MHz) (PC3)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	26
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	23.22	22.97	23.43	24.22	24.31	26
100		1	136	22.79	23.56	24.23	24.09	24.13	
100		1	271	23.01	24.17	23.97	23.87	24.04	
100		135	1	23.05	23.25	23.83	24.27	24.33	
100		135	67	22.90	23.57	24.08	24.16	24.08	26
100		135	136	22.90	23.94	24.12	23.93	24.05	
100		270	0	22.93	23.58	24.06	24.19	24.11	
100	DFT-s-OFDM QPSK	1	1	24.26	24.24	24.38	24.32	24.30	26
100		1	136	22.82	23.60	24.13	24.11	24.11	
100		1	271	22.87	24.24	23.99	23.84	23.97	
100		135	1	24.26	23.29	24.30	24.26	24.20	
100		135	67	22.88	23.56	24.09	24.15	24.10	26
100		135	136	22.78	23.88	24.09	24.03	23.92	
100		270	0	23.49	23.55	23.58	23.51	23.47	
100	DFT-s-OFDM 16QAM	1	1	23.12	23.12	23.56	24.13	24.33	26
100	DFT-s-OFDM 64QAM	1	1	23.26	23.37	23.28	23.56	23.47	25
100	DFT-s-OFDM 256QAM	1	1	21.26	21.37	21.44	21.56	21.55	23
100	CP-OFDM QPSK	1	1	24.14	24.10	24.20	24.15	24.19	26
100	CP-OFDM 16QAM	1	1	23.17	22.91	23.35	24.08	24.31	26
100	CP-OFDM 64QAM	1	1	22.17	22.34	22.29	22.26	22.47	24
100	CP-OFDM 256QAM	1	1	19.47	19.50	19.47	19.55	19.16	21
Channel				649334	652668	656000	659332	662666	26
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	23.31	23.03	23.64	24.34	24.30	26
Channel				648668	652334	656000	659666	663332	26
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	23.34	23.08	23.81	24.24	24.07	26
Channel				648000	652000	656000	660000	664000	26
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	23.58	23.40	24.26	24.46	24.05	26
Channel				647668	651834	656000	660166	664332	26
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	23.49	23.32	24.16	24.26	24.00	26
Channel				647334	651668	656000	660332	664666	26
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	23.61	23.30	24.27	24.21	23.92	26

n78(3450-3550MHz) (PC2)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			25.83			28
100		1	136			25.09			
100		1	271			24.79			
100		135	1			25.05			27
100		135	67			25.17			
100		135	136			24.46			
100		270	0			24.74			
100	DFT-s-OFDM QPSK	1	1			26.08			28
100		1	136			25.71			
100		1	271			25.59			
100		135	1			25.47			27
100		135	67			25.36			
100		135	136			25.21			
100		270	0			24.71			
100	DFT-s-OFDM 16QAM	1	1			24.90			25.5
100	DFT-s-OFDM 64QAM	1	1			23.26			24
100	DFT-s-OFDM 256QAM	1	1			21.20			22
100	CP-OFDM QPSK	1	1			24.37			25
100	CP-OFDM 16QAM	1	1			23.84			24.5
100	CP-OFDM 64QAM	1	1			22.31			23
100	CP-OFDM 256QAM	1	1			19.32			20
Channel				633000	633166	633334	633500	633666	Tune-up limit
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	(dBm)
90	DFT-s-OFDM QPSK	1	1	25.76	25.76	25.74	25.75	25.74	28
Channel				632668	633000	633334	633666	634000	Tune-up limit
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	(dBm)
80	DFT-s-OFDM QPSK	1	1	25.81	25.73	25.77	25.70	25.59	28
Channel				632334	632834	633334	633832	634332	Tune-up limit
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	(dBm)
70	DFT-s-OFDM QPSK	1	1	25.82	25.78	25.74	25.56	25.56	28
Channel				632000	632666	633334	634000	634666	Tune-up limit
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	(dBm)
60	DFT-s-OFDM QPSK	1	1	25.81	25.65	25.58	25.42	25.42	28
Channel				631668	632500	633334	634166	635000	Tune-up limit
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	(dBm)
50	DFT-s-OFDM QPSK	1	1	25.77	25.54	25.48	25.32	25.17	28
Channel				631334	636672	633334	634334	635332	Tune-up limit
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	(dBm)
40	DFT-s-OFDM QPSK	1	1	25.86	25.39	25.60	25.46	25.49	28
Channel				631000	632166	633334	634500	635666	Tune-up limit
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	(dBm)
30	DFT-s-OFDM QPSK	1	1	25.98	25.72	25.50	25.39	25.32	28
Channel				630668	632000	633334	634668	636000	Tune-up limit
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	(dBm)
20	DFT-s-OFDM QPSK	1	1	25.91	25.70	25.48	25.35	25.33	28

n78(3450-3550MHz) (PC3)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			23.66			25
100		1	136			23.07			
100		1	271			22.79			
100		135	1			23.55			24
100		135	67			23.19			
100		135	136			22.92			
100		270	0			23.26			
100	DFT-s-OFDM QPSK	1	1			23.86			25
100		1	136			23.11			
100		1	271			22.76			
100		135	1			23.49			24
100		135	67			23.17			
100		135	136			22.94			
100		270	0			23.23			
100	DFT-s-OFDM 16QAM	1	1			23.62			24.5
100	DFT-s-OFDM 64QAM	1	1			23.24			24
100	DFT-s-OFDM 256QAM	1	1			21.20			22
100	CP-OFDM QPSK	1	1			23.84			24.5
100	CP-OFDM 16QAM	1	1			23.85			24.5
100	CP-OFDM 64QAM	1	1			22.31			23
100	CP-OFDM 256QAM	1	1			19.30			20
Channel				633000	633166	633334	633500	633666	Tune-up limit
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	(dBm)
90	DFT-s-OFDM QPSK	1	1	23.77	23.79	23.76	23.72	23.73	25
Channel				632668	633000	633334	633666	634000	Tune-up limit
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	(dBm)
80	DFT-s-OFDM QPSK	1	1	23.86	23.73	23.72	23.70	23.56	25
Channel				632334	632834	633334	633832	634332	Tune-up limit
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	(dBm)
70	DFT-s-OFDM QPSK	1	1	23.80	23.80	23.73	23.52	23.50	25
Channel				632000	632666	633334	634000	634666	Tune-up limit
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	(dBm)
60	DFT-s-OFDM QPSK	1	1	23.80	23.64	23.56	23.40	23.37	25
Channel				631668	632500	633334	634166	635000	Tune-up limit
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	(dBm)
50	DFT-s-OFDM QPSK	1	1	23.73	23.46	23.47	23.30	23.29	25
Channel				631334	636672	633334	634334	635332	Tune-up limit
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	(dBm)
40	DFT-s-OFDM QPSK	1	1	24.06	23.40	23.61	23.51	23.44	25
Channel				631000	632166	633334	634500	635666	Tune-up limit
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	(dBm)
30	DFT-s-OFDM QPSK	1	1	23.95	23.69	23.53	23.34	23.31	25
Channel				630668	632000	633334	634668	636000	Tune-up limit
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	(dBm)
20	DFT-s-OFDM QPSK	1	1	23.94	23.66	23.42	23.31	23.28	25

n78(3700-3800MHz) (PC2)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			25.62			27
100		1	136			24.99			
100		1	271			25.05			
100		135	1			24.78			26
100		135	67			25.09			
100		135	136			24.42			
100		270	0			24.62			
100	DFT-s-OFDM QPSK	1	1			25.78			27
100		1	136			25.59			
100		1	271			25.33			
100		135	1			24.30			26
100		135	67			25.17			
100		135	136			24.69			
100		270	0			24.53			
100	DFT-s-OFDM 16QAM	1	1			24.42			25
100	DFT-s-OFDM 64QAM	1	1			22.97			23.5
100	DFT-s-OFDM 256QAM	1	1			20.97			21.5
100	CP-OFDM QPSK	1	1			24.10			25
100	CP-OFDM 16QAM	1	1			23.58			24.5
100	CP-OFDM 64QAM	1	1			21.89			22.5
100	CP-OFDM 256QAM	1	1			19.05			20
Channel				649668	649834	650000	650166	650332	Tune-up limit
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	(dBm)
90	DFT-s-OFDM QPSK	1	1	25.58	25.53	25.47	25.47	25.42	27
Channel				649334	649666	650000	650334	650666	Tune-up limit
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	(dBm)
80	DFT-s-OFDM QPSK	1	1	25.58	25.53	25.49	25.38	25.31	27
Channel				649000	649500	650000	650500	651000	Tune-up limit
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	(dBm)
70	DFT-s-OFDM QPSK	1	1	25.62	25.53	25.45	25.33	25.28	27
Channel				648668	649334	650000	650666	651332	Tune-up limit
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	(dBm)
60	DFT-s-OFDM QPSK	1	1	25.58	25.40	25.28	25.15	25.11	27
Channel				648334	649166	650000	650834	651666	Tune-up limit
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	(dBm)
50	DFT-s-OFDM QPSK	1	1	25.71	25.45	25.32	25.08	25.15	27
Channel				648000	649000	650000	651000	652000	Tune-up limit
Frequency (MHz)				3720	3735	3750	3765	3780	(dBm)
40	DFT-s-OFDM QPSK	1	1	25.57	25.70	25.47	25.34	25.37	27
Channel				647668	648834	650000	651166	652332	Tune-up limit
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	(dBm)
30	DFT-s-OFDM QPSK	1	1	25.66	25.55	25.31	25.29	25.33	27
Channel				647334	648666	650000	651334	652666	Tune-up limit
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	(dBm)
20	DFT-s-OFDM QPSK	1	1	25.61	25.47	25.29	25.24	25.27	27

n78(3700-3800MHz) (PC3)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			23.55			24.5
100		1	136			23.02			
100		1	271			23.10			
100		135	1			23.36			24.5
100		135	67			23.07			
100	DFT-s-OFDM QPSK	135	136			22.93			
100		270	0			23.09			
100		1	1			23.65			25
100		1	136			23.00			
100		1	271			22.97			
100	DFT-s-OFDM 16QAM	135	1			23.27			24.5
100		135	67			23.05			
100		135	136			22.93			
100		270	0			23.12			
100		1	1			23.41			24
100	DFT-s-OFDM 64QAM	1	1			22.97			23.5
100	DFT-s-OFDM 256QAM	1	1			21.01			22
100	CP-OFDM QPSK	1	1			23.45			24.5
100	CP-OFDM 16QAM	1	1			23.51			24.5
100	CP-OFDM 64QAM	1	1			22.07			23
100	CP-OFDM 256QAM	1	1			18.98			19.5
Channel				649668	649834	650000	650166	650332	Tune-up limit
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	(dBm)
90	DFT-s-OFDM QPSK	1	1	23.60	23.53	23.58	23.49	23.46	24.5
Channel				649334	649666	650000	650334	650666	Tune-up limit
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	(dBm)
80	DFT-s-OFDM QPSK	1	1	23.57	23.47	23.46	23.31	23.33	24.5
Channel				649000	649500	650000	650500	651000	Tune-up limit
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	(dBm)
70	DFT-s-OFDM QPSK	1	1	23.52	23.51	23.33	23.31	23.27	24.5
Channel				648668	649334	650000	650666	651332	Tune-up limit
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	(dBm)
60	DFT-s-OFDM QPSK	1	1	23.57	23.42	23.22	23.07	23.13	24.5
Channel				648334	649166	650000	650834	651666	Tune-up limit
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	(dBm)
50	DFT-s-OFDM QPSK	1	1	23.56	23.44	23.30	23.08	23.16	24.5
Channel				648000	649000	650000	651000	652000	Tune-up limit
Frequency (MHz)				3720	3735	3750	3765	3780	(dBm)
40	DFT-s-OFDM QPSK	1	1	23.55	23.51	23.42	23.44	23.44	24.5
Channel				647668	648834	650000	651166	652332	Tune-up limit
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	(dBm)
30	DFT-s-OFDM QPSK	1	1	23.47	23.18	23.34	23.36	23.33	24.5
Channel				647334	648666	650000	651334	652666	Tune-up limit
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	(dBm)
20	DFT-s-OFDM QPSK	1	1	23.51	23.42	23.30	23.31	23.31	24.5

CA_5B_ANT 1													
Combination:10MHz+10MHz(50RB+50RB)													
PCC Channel	PCC Channel (3GPP)	UL Fre. (MHz)	SCC Channel	UL Fre. (MHz)	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
						RB Size	RB Offset	RB Size	RB Offset				
20450	20450	829	20549	838.9	QPSK	1	0	0	0	1	0	22.71	24.50
20525	20476	831.6	20575	841.5	QPSK	1	0	0	0	1	0	22.76	24.50
20600	20501	834.1	20600	844	QPSK	1	0	0	0	1	0	22.59	24.50
20450	20450	829	20549	838.9	16QAM	1	0	0	0	1	0	22.44	24.50
20525	20476	831.6	20575	841.5	16QAM	1	0	0	0	1	0	22.58	24.50
20600	20501	834.1	20600	844	16QAM	1	0	0	0	1	0	22.41	24.50
20450	20450	829	20549	838.9	64QAM	1	0	0	0	1	0	22.39	24.50
20525	20476	831.6	20575	841.5	64QAM	1	0	0	0	1	0	22.40	24.50
20600	20501	834.1	20600	844	64QAM	1	0	0	0	1	0	22.42	24.50
20450	20450	829	20549	838.9	256QAM	1	0	0	0	1	0	22.39	24.50
20525	20476	831.6	20575	841.5	256QAM	1	0	0	0	1	0	22.37	24.50
20600	20501	834.1	20600	844	256QAM	1	0	0	0	1	0	22.40	24.50
20450	20450	829	20549	838.9	QPSK	50	0	0	0	1	0	21.52	23.50
20525	20476	831.6	20575	841.5	QPSK	50	0	0	0	1	0	21.66	23.50
20600	20501	834.1	20600	844	QPSK	50	0	0	0	1	0	21.58	23.50

CA_41C_ANT 5													
Combination:20MHz+20MHz(100RB+100RB)													
PCC Channel	PCC Channel (3GPP)	UL Fre. (MHz)	SCC Channel	UL Fre. (MHz)	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
						RB Size	RB Offset	RB Size	RB Offset				
39750	39750	2506	39948	2525.8	QPSK	1	0	0	0	1	0	22.15	24.00
40620	40521	2583.1	40719	2602.9	QPSK	1	0	0	0	1	0	22.19	24.00
41490	41292	2660.2	41490	2680	QPSK	1	0	0	0	1	0	22.03	24.00
39750	39750	2506	39948	2525.8	16QAM	1	0	0	0	1	0	22.16	24.00
40620	40521	2583.1	40719	2602.9	16QAM	1	0	0	0	1	0	22.10	24.00
41490	41292	2660.2	41490	2680	16QAM	1	0	0	0	1	0	22.08	24.00
39750	39750	2506	39948	2525.8	64QAM	1	0	0	0	1	0	22.14	24.00
40620	40521	2583.1	40719	2602.9	64QAM	1	0	0	0	1	0	22.06	24.00
41490	41292	2660.2	41490	2680	64QAM	1	0	0	0	1	0	22.03	24.00
39750	39750	2506	39948	2525.8	256QAM	1	0	0	0	1	0	22.01	24.00
40620	40521	2583.1	40719	2602.9	256QAM	1	0	0	0	1	0	22.11	24.00
41490	41292	2660.2	41490	2680	256QAM	1	0	0	0	1	0	22.05	24.00
39750	39750	2506	39948	2525.8	QPSK	50	0	0	0	1	0	21.26	23.00
40620	40521	2583.1	40719	2602.9	QPSK	50	0	0	0	1	0	21.33	23.00
41490	41292	2660.2	41490	2680	QPSK	50	0	0	0	1	0	21.20	23.00

CA_41C_PC 2_ANT 5													
Combination:20MHz+20MHz(100RB+100RB)													
PCC Channel	PCC Channel (3GPP)	UL Fre. (MHz)	SCC Channel	UL Fre. (MHz)	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
						RB Size	RB Offset	RB Size	RB Offset				
39750	39750	2506	39948	2525.8	QPSK	1	0	0	0	1	0	25.03	27.00
40620	40521	2583.1	40719	2602.9	QPSK	1	0	0	0	1	0	25.18	27.00
41490	41292	2660.2	41490	2680	QPSK	1	0	0	0	1	0	24.09	27.00
39750	39750	2506	39948	2525.8	16QAM	1	0	0	0	1	0	24.10	27.00
40620	40521	2583.1	40719	2602.9	16QAM	1	0	0	0	1	0	24.14	27.00
41490	41292	2660.2	41490	2680	16QAM	1	0	0	0	1	0	24.03	27.00
39750	39750	2506	39948	2525.8	64QAM	1	0	0	0	1	0	24.06	27.00
40620	40521	2583.1	40719	2602.9	64QAM	1	0	0	0	1	0	24.12	27.00
41490	41292	2660.2	41490	2680	64QAM	1	0	0	0	1	0	24.09	27.00
39750	39750	2506	39948	2525.8	256QAM	1	0	0	0	1	0	23.99	27.00
40620	40521	2583.1	40719	2602.9	256QAM	1	0	0	0	1	0	24.04	27.00
41490	41292	2660.2	41490	2680	256QAM	1	0	0	0	1	0	24.03	27.00
39750	39750	2506	39948	2525.8	QPSK	50	0	0	0	1	0	23.29	26.00
40620	40521	2583.1	40719	2602.9	QPSK	50	0	0	0	1	0	23.33	26.00
41490	41292	2660.2	41490	2680	QPSK	50	0	0	0	1	0	23.22	26.00

CA_48C_ANT 6													
Combination:20MHz+20MHz(100RB+100RB)													
PCC Channel	PCC Channel (3GPP)	UL Fre. (MHz)	SCC Channel	UL Fre. (MHz)	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
						RB Size	RB Offset	RB Size	RB Offset				
55340	55340	3560	55538	3579.8	QPSK	1	0	0	0	1	0	22.19	24.00
55990	55891	3615.1	56089	3634.9	QPSK	1	0	0	0	1	0	22.24	24.00
56640	56442	3670.2	56640	3690	QPSK	1	0	0	0	1	0	22.11	24.00
55340	55340	3560	55538	3579.8	16QAM	1	0	0	0	1	0	22.06	24.00
55990	55891	3615.1	56089	3634.9	16QAM	1	0	0	0	1	0	22.15	24.00
56640	56442	3670.2	56640	3690	16QAM	1	0	0	0	1	0	22.03	24.00
55340	55340	3560	55538	3579.8	64QAM	1	0	0	0	1	0	22.11	24.00
55990	55891	3615.1	56089	3634.9	64QAM	1	0	0	0	1	0	22.03	24.00
56640	56442	3670.2	56640	3690	64QAM	1	0	0	0	1	0	21.96	24.00
55340	55340	3560	55538	3579.8	256QAM	1	0	0	0	1	0	22.05	24.00
55990	55891	3615.1	56089	3634.9	256QAM	1	0	0	0	1	0	22.11	24.00
56640	56442	3670.2	56640	3690	256QAM	1	0	0	0	1	0	21.89	24.00
55340	55340	3560	55538	3579.8	QPSK	50	0	0	0	1	0	21.33	23.00
55990	55891	3615.1	56089	3634.9	QPSK	50	0	0	0	1	0	21.26	23.00
56640	56442	3670.2	56640	3690	QPSK	50	0	0	0	1	0	21.20	23.00

CA_66B_ANT 4												
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Combination:10MHz+10MHz(50RB+50RB)													
PCC Channel	PCC Channel (3GPP)	UL Fre. (MHz)	SCC Channel	UL Fre. (MHz)	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
						RB Size	RB Offset	RB Size	RB Offset				
132072	132022	1715	132121	1724.9	QPSK	1	0	0	0	1	0	22.19	24.00
132322	132373	1750.1	132472	1760	QPSK	1	0	0	0	1	0	22.26	24.00
132572	132523	1765.1	132622	1775	QPSK	1	0	0	0	1	0	22.14	24.00
132072	132022	1715	132121	1724.9	16QAM	1	0	0	0	1	0	22.20	24.00
132322	132373	1750.1	132472	1760	16QAM	1	0	0	0	1	0	22.08	24.00
132572	132523	1765.1	132622	1775	16QAM	1	0	0	0	1	0	22.03	24.00
132072	132022	1715	132121	1724.9	64QAM	1	0	0	0	1	0	21.95	24.00
132322	132373	1750.1	132472	1760	64QAM	1	0	0	0	1	0	22.25	24.00
132572	132523	1765.1	132622	1775	64QAM	1	0	0	0	1	0	22.14	24.00
132072	132022	1715	132121	1724.9	256QAM	1	0	0	0	1	0	22.20	24.00
132322	132373	1750.1	132472	1760	256QAM	1	0	0	0	1	0	22.18	24.00
132572	132523	1765.1	132622	1775	256QAM	1	0	0	0	1	0	22.03	24.00
132072	132022	1715	132121	1724.9	QPSK	25	0	0	0	1	0	21.26	23.00
132322	132373	1750.1	132472	1760	QPSK	25	0	0	0	1	0	21.11	23.00
132572	132523	1765.1	132622	1775	QPSK	25	0	0	0	1	0	21.20	23.00

CA_66C_ANT 4													
Combination:20MHz+20MHz(100RB+100RB)													
PCC Channel	PCC Channel (3GPP)	UL Fre. (MHz)	SCC Channel	UL Fre. (MHz)	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
						RB Size	RB Offset	RB Size	RB Offset				
132072	132072	1720	132270	1739.8	QPSK	1	0	0	0	1	0	22.31	24.00
132322	132323	1745.1	132521	1764.9	QPSK	1	0	0	0	1	0	22.38	24.00
132572	132374	1750.2	132572	1770	QPSK	1	0	0	0	1	0	22.23	24.00
132072	132072	1720	132270	1739.8	16QAM	1	0	0	0	1	0	22.30	24.00
132322	132323	1745.1	132521	1764.9	16QAM	1	0	0	0	1	0	22.25	24.00
132572	132374	1750.2	132572	1770	16QAM	1	0	0	0	1	0	22.21	24.00
132072	132072	1720	132270	1739.8	64QAM	1	0	0	0	1	0	22.14	24.00
132322	132323	1745.1	132521	1764.9	64QAM	1	0	0	0	1	0	22.18	24.00
132572	132374	1750.2	132572	1770	64QAM	1	0	0	0	1	0	22.33	24.00
132072	132072	1720	132270	1739.8	256QAM	1	0	0	0	1	0	22.27	24.00
132322	132323	1745.1	132521	1764.9	256QAM	1	0	0	0	1	0	22.19	24.00
132572	132374	1750.2	132572	1770	256QAM	1	0	0	0	1	0	22.05	24.00
132072	132072	1720	132270	1739.8	QPSK	50	0	0	0	1	0	21.23	23.00
132322	132323	1745.1	132521	1764.9	QPSK	50	0	0	0	1	0	21.33	23.00
132572	132374	1750.2	132572	1770	QPSK	50	0	0	0	1	0	21.40	23.00

2CC LTE Uplink														
Configure	CA Configuration	Ant	Ant	PCC					SCC				Power	
				Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/OFset)	Band	BW (MHz)	UL Channel	UL Fre. (MHz)	Measured Power(dBm)	Tune-up limit(dBm)
Inter-band	CA_2A-4A	ANT4	ANT3	2	20	18700	1860	QPSK/1#0	4	20	20300	1745	22.31	24
	CA_2A-5A	ANT1	ANT3	2	20	18700	1860	QPSK/1#0	5	10	20600	844	22.16	24
	CA_2A-12A	ANT1	ANT3	2	20	18700	1860	QPSK/1#0	12	10	23060	704	22.37	24
	CA_2A-13A	ANT1	ANT3	2	20	18700	1860	QPSK/1#0	13	10	23230	782	22.42	24
	CA_2A-66A	ANT4	ANT3	2	20	18700	1860	QPSK/1#0	66	20	132572	1770	22.36	24
	CA_4A-5A	ANT1	ANT3	4	20	20050	1720	QPSK/1#0	5	10	20600	844	22.57	24.5
	CA_4A-12A	ANT1	ANT3	4	20	20050	1720	QPSK/1#0	12	10	23060	704	22.64	24.5
	CA_4A-13A	ANT1	ANT3	4	20	20050	1732.5	QPSK/1#0	13	10	23230	782	22.52	24.5
	CA_5A-66A	ANT1	ANT3	5	10	20450	829	QPSK/1#0	66	20	132572	1770	22.59	24.5
	CA_12A-66A	ANT1	ANT3	12	10	23060	704	QPSK/1#0	66	20	132572	1770	22.89	24.5
	CA_13A-66A	ANT1	ANT3	13	10	23230	782	QPSK/1#0	66	20	132572	1770	22.86	24.5

2CC LTE Downlink for Top Antenna											
Configure	CA Configuration	PCC				SCC				Power	
		Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	CA TX (dBm)
Intra-band&Inter-band	CA_2A-26A	2	20	18700	1860	QPSK/1#0	26	15	26865	631.5	22.15
	CA_2A-29A	2	20	18700	1860	QPSK/1#0	29	10	9720	723	22.44
	CA_2A-71A	2	20	18700	1860	QPSK/1#0	71	20	133297	680.5	22.16
	CA_4A-5A	4	20	20050	1720	QPSK/1#0	5	10	20600	844	22.76
	CA_4A-12A	4	20	20050	1720	QPSK/1#0	12	10	23130	711	22.77
	CA_4A-13A	4	20	20050	1720	QPSK/1#0	13	10	23230	782	22.77
	CA_4A-29A	4	20	20050	1720	QPSK/1#0	29	10	9720	723	22.76
	CA_4A-48A	4	20	20050	1720	QPSK/1#0	48	20	56640	3690	22.63
	CA_4A-71A	4	20	20050	1720	QPSK/1#0	71	20	133297	680.5	22.74
	CA_5A-38A	5	10	20450	829	QPSK/1#0	38	20	38000	2595	22.68
	CA_5A-41A	5	10	20450	829	QPSK/1#0	41	20	41490	2680	22.65
	CA_7A-12A	7	20	21100	2535	QPSK/1#0	12	10	23130	711	21.71
	CA_7A-13A	7	20	21100	2535	QPSK/1#0	13	10	23230	782	21.59
	CA_7A-26A	7	20	21100	2535	QPSK/1#0	26	15	26865	631.5	21.58
	CA_7A-29A	7	20	21100	2535	QPSK/1#0	29	10	9720	723	21.8
	CA_7B	7	15	21327	2557.7	QPSK/1#0	7	5	21420	2567	21.68
	CA_7C	7	20	21152	2540.2	QPSK/1#0	7	20	21350	2560	21.75
	CA_12A-25A	12	10	23060	704	QPSK/1#0	25	20	26590	1905	22.76
	CA_25A-25A	25	20	26140	1860	QPSK/1#0	25	20	26590	1905	22.28
	CA_26A-41A	26	15	26865	631.5	QPSK/1#0	41	20	40620	2593	22.79
	CA_29A-66A	29	10	9720	723	QPSK/1#0	66	20	132422	1755	22.56
	CA_38C	38	20	37952	2590.2	QPSK/1#0	38	20	38150	2610	22.02
	CA_41A-41A	41	20	39750	2596	QPSK/1#0	41	20	41490	2680	22.28
	CA_41A-48A	41	20	40620	2593	QPSK/1#0	48	20	55990	3625	22.34
	CA_48A-71A	48	20	55340	3560	QPSK/1#0	71	20	133297	680.5	22.67
	CA_66A-71A	66	20	132422	1755	QPSK/1#0	71	10	133297	680.5	22.82
	CA_66B	66	10	132373	1750.1	QPSK/1#0	66	10	132472	1760	22.71

3CC LTE Downlink for Top Antenna													
Configure	CA Configuration	PCC				SCC1				SCC2			
		Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	Band	BW (MHz)	DL Channel
Intra-band&Inter-band	CA_2A-2A-71A	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	71	10	133297
	CA_2A-2A-4A-5A	2	20	18700	1860	QPSK/1#0	4	20	20050	1720	5	10	20600
	CA_2A-2A-4A-12A	2	20	18700	1860	QPSK/1#0	4	20	20050	1720	12	10	23130
	CA_2A-2A-4A-13A	2	20	18700	1860	QPSK/1#0	4	20	20050	1720	13	10	23230
	CA_2A-2A-4A-71A	2	20	18700	1860	QPSK/1#0	4	20	20050	1720	71	10	133297
	CA_2A-5A-48A	2	20	18700	1860	QPSK/1#0	5	10	20600	844	48	20	56640
	CA_2A-5A-66A	2	20	18700	1860	QPSK/1#0	5	10	20600	844	66	20	67236
	CA_2A-13A-48A	2	20	18700	1860	QPSK/1#0	13	10	23230	782	48	20	56640
	CA_2A-48A-48A	2	20	18700	1860	QPSK/1#0	48	20	55340	3560	48	20	56640
	CA_2A-66A-71A	2	20	18700	1860	QPSK/1#0	66	20	67236	2190	71	20	133297
	CA_2A-66B	2	20	18700	1860	QPSK/1#0	66	10	67187	2185.1	66	10	67286
	CA_2C-5A	2	20	18902	1880.2	QPSK/1#0	2	20	19100	1900	5	10	20600
	CA_4A-4A-5A	4	20	20050	1720	QPSK/1#0	4	20	20300	1745	5	10	20600
	CA_4A-4A-12A	4	20	20050	1720	QPSK/1#0	4	20	20300	1745	12	10	23130
	CA_4A-4A-13A	4	20	20050	1720	QPSK/1#0	4	20	20300	1745	13	10	23230
	CA_4A-5B	4	20	20050	1720	QPSK/1#0	5	10	20501	834.1	5	10	20600
	CA_4A-48C	4	20	20050	1720	QPSK/1#0	48	20	55891	3615.1	48	20	56089
	CA_5A-7A-7A	5	10	20450	829	QPSK/1#0	7	20	20850	2510	7	20	21350
	CA_5A-7C	5	10	20450	829	QPSK/1#0	7	20	21152	2540.2	7	20	21350
	CA_5A-66A-66A	5	10	20450	829	QPSK/1#0	66	20	66886	2155	66	20	67236
	CA_5A-66B	5	10	20450	829	QPSK/1#0	66	10	67187	2185.1	66	10	67286
	CA_5A-66C	5	10	20450	829	QPSK/1#0	66	20	67038	2170.2	66	20	67236
	CA_7A-7A-26A	2	20	20850	2510	QPSK/1#0	7	20	21350	2560	26	15	26865
	CA_12A-66A-66A	12	10	23060	704	QPSK/1#0	66	20	66886	2155	66	20	67236
	CA_12A-66C	12	10	23060	704	QPSK/1#0	66	20	67038	2170.2	66	20	67236
	CA_13A-48A-48A	13	10	23230	782	QPSK/1#0	48	20	55340	3560	48	20	56640
	CA_13A-48A-66A	13	10	23230	782	QPSK/1#0	48	10	56640	3690	66	20	67236
	CA_13A-66A-66A	13	10	23230	782	QPSK/1#0	66	20	66886	2155	66	20	67236
	CA_13A-66B	13	10	23230	782	QPSK/1#0	66	10	67187	2185.1	66	10	67286
	CA_13A-66C	13	10	23230	782	QPSK/1#0	66	20	67038	2170.2	66	20	67236
	CA_41A-41C	41	20	39750	2596	QPSK/1#0	41	20	41292	2660.2	41	20	41490
	CA_41D	41	20	39750	2596	QPSK/1#0	41	20	39948	2525.8	41	20	40146
	CA_48A-48A-71A	48	20	55340	3560	QPSK/1#0	48	20	56640	3690	71	20	133297
	CA_48A-66A-66A	48	20	55340	3560	QPSK/1#0	66	20	66886	2155	66	20	67236
	CA_48A-66B	48	20	55340	3560	QPSK/1#0	66	10	67187	2185.1	66	10	67286
	CA_48A-66C	48	20	55340	3560	QPSK/1#0	66	20	67038	2170.2	66	20	67236
	CA_48C-71A	48	20	55891	3615.1	QPSK/1#0	48	20	56089	3634.9	71	20	133297
	CA_66A-66A-66A	66	20	132072	1720	QPSK/1#0	66	20	66886	2155	66	20	67236
	CA_66A-66A-71A	66	20	132072	1720	QPSK/1#0	66	20	66886	2155	71	20	133297
	CA_66A-66B	66	20	132072	1720	QPSK/1#0	66	10	67187	2185.1	66	10	67286
	CA_66A-66C	66	20	132072	1720	QPSK/1#0	66	20	67038	2170.2	66	20	67236
	CA_66C-71A	66	20	132072	1720	QPSK/1#0	66	20	132270	1739.8	71	20	133297
	CA_66D	66	20	132376	1750.4	QPSK/1#0	66	20	67038	2170.2	66	20	67236

4CC LTE Downlink for Top Antenna																				
Configure	CA Configuration	PCC					SCC1			SCC2				SCC3			Power			
		Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	CA TX (dBm)	Rel 8 TX (dBm)
	CA_2A-2A-4A-4A	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	4	20	20050	1720	4	20	20300	1745	22.27	24
	CA_2A-2A-4A-5A	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	4	20	20300	1745	5	10	20600	844	22.14	24
	CA_2A-2A-4A-12A	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	4	20	20300	1745	12	10	23060	704	22.24	24
	CA_2A-2A-4A-71A	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	4	20	20300	1745	71	20	133297	680.5	22.24	24
	CA_2A-2A-5A-66A	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	5	10	20600	844	66	20	67236	2190	22.26	24
	CA_2A-2A-5B	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	5	10	20501	834.1	5	10	20600	844	22.23	24
	CA_2A-2A-12A-66A	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	12	10	23060	704	66	20	67236	2190	22.26	24
	CA_2A-2A-13A-66A	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	13	10	23230	782	66	20	67236	2190	22.15	24
	CA_2A-2A-66A-66A	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	66	20	66886	2155	66	20	67236	2190	22.07	24
	CA_2A-2A-66A-71A	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	66	20	67236	2190	71	20	133297	680.5	22.13	24
	CA_2A-2A-66B	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	66	10	67187	2185.1	66	10	67286	2195	22.04	24
	CA_2A-2A-66C	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	66	20	67038	2170.2	66	20	67236	2190	22.07	24
	CA_2A-4A-4A-12A	2	20	18700	1860	QPSK/1#0	4	20	20050	1720	4	20	20300	1745	12	10	23060	704	22.28	24
	CA_2A-4A-4A-5A	2	20	18700	1860	QPSK/1#0	4	20	20050	1720	4	20	20300	1745	5	10	20600	844	22.24	24
	CA_2A-4A-5B	2	20	18700	1860	QPSK/1#0	4	20	20300	1745	5	10	20501	834.1	5	10	20600	844	22.34	24
	CA_2A-5A-48C	2	20	18700	1860	QPSK/1#0	5	10	20600	844	48	20	55891	3615.1	48	20	56089	3634.9	22.2	24
	CA_2A-5A-66A-66A	2	20	18700	1860	QPSK/1#0	5	10	20600	844	66	20	66886	2155	66	20	67236	2190	22.25	24
	CA_2A-5A-66B	2	20	18700	1860	QPSK/1#0	5	10	20600	844	66	10	67187	2185.1	66	10	67286	2195	22.28	24
	CA_2A-5A-66C	2	20	18700	1860	QPSK/1#0	5	10	20600	844	66	20	67038	2170.2	66	20	67236	2190	22.07	24
	CA_2A-5B-66A	2	20	18700	1860	QPSK/1#0	5	10	20501	834.1	5	10	20600	844	66	20	67236	2190	22.21	24
	CA_2A-12A-66A-66A	2	20	18700	1860	QPSK/1#0	12	10	23060	704	66	20	66886	2155	66	20	67236	2190	22.03	24
	CA_2A-12A-66C	2	20	18700	1860	QPSK/1#0	12	10	23060	704	66	20	67038	2170.2	66	20	67236	2190	22.07	24
	CA_2A-13A-48C	2	20	18700	1860	QPSK/1#0	13	10	23230	782	48	20	56442	3670.2	48	20	56640	3690	22.23	24
	CA_2A-13A-66A-66A	2	20	18700	1860	QPSK/1#0	13	10	23230	782	66	20	66886	2155	66	20	67236	2190	22.18	24
CA_2A-13A-66B	2	20	18700	1860	QPSK/1#0	13	10	23230	782	66	10	67187	2185.1	66	10	67286	2195	22.34	24	
CA_2A-13A-66C	2	20	18700	1860	QPSK/1#0	13	10	23230	782	66	20	67038	2170.2	66	20	67236	2190	22.02	24	
CA_2A-48A-48C	2	20	18700	1860	QPSK/1#0	48	20	55340	3560	48	20	55891	3615.1	48	20	56089	3634.9	22.32	24	
CA_2A-48A-66A-66A	2	20	18700	1860	QPSK/1#0	48	20	55340	3560	66	20	66886	2155	66	20	67236	2190	22.21	24	
CA_2A-48C-66A	2	20	18700	1860	QPSK/1#0	48	20	55891	3615.1	48	20	56089	3634.9	66	20	67236	2190	22.16	24	
CA_2A-48D	2	20	18700	1860	QPSK/1#0	48	20	56244	3650.4	48	20	56442	3670.2	48	20	56640	3690	22.09	24	
CA_2A-66A-66A-66A	2	20	18700	1860	QPSK/1#0	66	20	132072	12720	66	20	66886	2155	66	20	67236	2190	22.12	24	
CA_2A-66A-66A-71A	2	20	18700	1860	QPSK/1#0	66	20	66886	2155	66	20	67236	2190	71	20	133297	680.5	22.35	24	
CA_2A-66A-66B	2	20	18700	1860	QPSK/1#0	66	20	132072	12720	66	10	67187	2185.1	66	10	67286	2195	22.42	24	
CA_2A-66A-66C	2	20	18700	1860	QPSK/1#0	66	20	132072	12720	66	20	67038	2170.2	66	20	67236	2190	22.19	24	
CA_2A-66C-71A	2	20	18700	1860	QPSK/1#0	66	20	67038	2170.2	66	20	67236	2190	71	20	133297	680.5	22	24	

Intra-band&Inter-band	CA_2A-66D	2	20	18700	1860	QPSK/1#0	66	20	132376	1750.4	66	20	67038	2170.2	66	20	67236	2190	22.32	24
	CA_2C-66A-66A	2	20	18902	1880.2	QPSK/1#0	2	20	19100	1900	66	20	66886	2155	66	20	67236	2190	22.25	24
	CA_4A-4A-5B	4	20	20050	1720	QPSK/1#0	4	20	20300	1745	5	10	20501	834.1	5	10	20600	844	22.77	24.5
	CA_4A-48D	4	20	20050	1720	QPSK/1#0	48	20	56244	3650.4	48	20	56442	3670.2	48	20	56640	3690	22.72	24.5
	CA_5A-5A-66A-66A	5	10	20450	829	QPSK/1#0	5	10	20600	844	66	20	66886	2155	66	20	67236	2190	22.73	24.5
	CA_5A-5A-66B	5	10	20450	829	QPSK/1#0	5	10	20600	844	66	10	67187	2185.1	66	10	67286	2195	22.81	24.5
	CA_5A-5A-66C	5	10	20450	829	QPSK/1#0	5	10	20600	844	66	20	67038	2170.2	66	20	67236	2190	22.68	24.5
	CA_5A-48C-66A	5	10	20450	829	QPSK/1#25	48	20	56442	3670.2	48	20	56640	3690	66	20	67236	2190	22.55	24.5
	CA_5A-48D	5	10	20450	829	QPSK/1#25	48	20	56244	3650.4	48	20	56442	3670.2	48	20	56640	3690	22.71	24.5
	CA_5A-66A-66B	5	10	20450	829	QPSK/1#25	66	20	132072	1720	66	10	67187	2185.1	66	10	67286	2195	22.61	24.5
	CA_5A-66A-66C	5	10	20450	829	QPSK/1#49	66	20	132072	1720	66	20	67038	2170.2	66	20	67236	2190	22.72	24.5
	CA_5A-66D	5	10	20450	829	QPSK/1#49	66	20	132376	1750.4	66	20	67038	2170.2	66	20	67236	2190	22.68	24.5
	CA_5A-48A-66A-66A	5	10	20450	829	QPSK/1#0	48	20	56640	3690	66	20	66886	2155	66	20	67236	2190	22.6	24.5
	CA_5B-66A-66A	5	10	20501	834.1	QPSK/1#0	5	10	20600	844	66	20	66886	2155	66	20	67236	2190	22.79	24.5
	CA_5B-66B	5	10	20501	834.1	QPSK/1#0	5	10	20600	844	66	10	67187	2185.1	66	10	67286	2195	22.55	24.5
	CA_5B-66C	5	10	20501	834.1	QPSK/1#0	5	10	20600	844	66	20	67038	2170.2	66	20	67236	2190	22.61	24.5
	CA_12B-66A-66A	12	5	23058	703.8	QPSK/1#0	12	10	23139	711	66	20	66886	2155	66	20	67236	2190	22.89	24.5
	CA_13A-48A-48C	13	10	23230	782	QPSK/1#0	48	20	55340	3560	48	20	56442	3670.2	48	20	56640	3690	22.86	24.5
	CA_13A-48A-66B	13	10	23230	782	QPSK/1#0	48	20	55340	3560	66	10	67187	2185.1	66	10	67286	2195	22.48	24.5
	CA_13A-48A-66C	13	10	23230	782	QPSK/1#0	48	20	55340	3560	66	20	67038	2170.2	66	20	67236	2190	22.91	24.5
	CA_13A-48C-66A	13	10	23230	782	QPSK/1#0	48	20	56442	3670.2	48	20	56640	3690	66	20	67236	2190	22.58	24.5
	CA_13A-48D	13	10	23230	782	QPSK/1#0	48	20	56244	3650.4	48	20	56442	3670.2	48	20	56640	3690	22.57	24.5
	CA_41A-41D	41	20	39750	2506	QPSK/1#0	41	20	39750	2506	41	20	39948	2525.8	41	20	40146	2545.6	22.18	24
	CA_41C-41C	41	20	39750	2506	QPSK/1#0	41	20	39948	2525.8	41	20	41292	2660.2	41	20	41490	2680	22.35	24
	CA_41E	41	20	40890	2620	QPSK/1#0	41	20	41088	2639.8	41	20	41286	2659.6	41	20	41484	2679.4	22.31	24
	CA_48A-48A-66A-66A	48	20	55340	3560	QPSK/1#0	48	20	56640	3690	66	20	66886	2155	66	20	67236	2190	22.68	24.5
	CA_48A-48A-66B	48	20	55340	3560	QPSK/1#0	48	20	56640	3690	66	10	67187	2185.1	66	10	67286	2195	22.65	24.5
	CA_48A-48A-66C	48	20	55340	3560	QPSK/1#0	48	20	56640	3690	66	20	67038	2170.2	66	20	67236	2190	22.57	24.5
	CA_48A-48C-66A	48	20	55340	3560	QPSK/1#0	48	20	55891	3615.1	48	20	56089	3634.9	66	20	67236	2190	22.5	24.5
	CA_48A-48D	48	20	55340	3560	QPSK/1#0	48	20	56244	3650.4	48	20	56442	3670.2	48	20	56640	3690	22.64	24.5
	CA_48C-48C	48	20	55891	3615.1	QPSK/1#0	48	20	56089	3634.9	48	20	56442	3670.2	48	20	56640	3690	22.63	24.5
	CA_48C-66A-66A	48	20	55891	3615.1	QPSK/1#0	48	20	56089	3634.9	66	20	66886	2155	66	20	67236	2190	22.66	24.5
	CA_48C-66B	48	20	55891	3615.1	QPSK/1#0	48	20	56089	3634.9	66	10	67187	2185.1	66	10	67286	2195	22.64	24.5
	CA_48C-66C	48	20	55891	3615.1	QPSK/1#0	48	20	56089	3634.9	66	20	67038	2170.2	66	20	67236	2190	22.71	24.5
	CA_48D-66A	48	20	56244	3650.4	QPSK/1#0	48	20	56442	3670.2	48	20	56640	3690	66	20	67236	2190	22.58	24.5
	CA_48E	48	20	55340	3560	QPSK/1#0	48	20	55538	3679.8	48	20	55736	3599.6	48	5	55853	3611.3	22.73	24.5

2CC NR Downlink												
Configure	CA Configuration	PCC					SCC				Power	
		Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	UL Channel	UL Fre. (MHz)	Measured Power(dBm)	Tune-up limit(dBm)
Inter-band	CA_n2(2A)	n2A	20	376000	1880	DFT-S-OFDM QPSK/1#1	n2A	20	376000	1880	23.41	25
	CA_n2A-n5A	n2A	20	376000	1880	DFT-S-OFDM QPSK/1#1	n5A	20	167300	836.5	23.38	25
	CA_n2A-n66A	n2A	20	376000	1880	DFT-S-OFDM QPSK/1#1	n66A	20	349000	1745	23.26	25
	CA_n2A-n77A	n2A	20	376000	1880	DFT-S-OFDM QPSK/1#1	n77A	100	650000	3750	23.44	25
	CA_n2A-n78A	n2A	20	376000	1880	DFT-S-OFDM QPSK/1#1	78	100	3750	65000	23.58	25
	CA_n5A-n66A	n5A	20	167300	836.5	DFT-S-OFDM QPSK/1#1	n66A	20	349000	1745	23.46	25
	CA_n5A-n77A	n5A	20	167300	836.5	DFT-S-OFDM QPSK/1#1	n77A	100	650000	3750	23.69	25
	CA_n5B	n5A	10	175300	876.5	DFT-S-OFDM QPSK/1#1	n5A	10	166300	831.5	23.57	25
	CA_n25(2A)	n25A	20	376500	1882.5	DFT-S-OFDM QPSK/1#1	n25A	20	376500	1882.5	23.28	25
	n25A_n48A	n25A	20	376500	1882.5	DFT-S-OFDM QPSK/1#1	n48A	100	641666	3624.99	23.35	25
	n25A_n66A	n25A	20	376500	1882.5	DFT-S-OFDM QPSK/1#1	n66A	20	349000	1745	23.22	25
	n25A_n71A	n25A	20	376500	1882.5	DFT-S-OFDM QPSK/1#1	n71A	20	136100	680.5	23.41	25
	n25A_n77A	n25A	20	376500	1882.5	DFT-S-OFDM QPSK/1#1	n77A	100	650000	3750	23.27	25
	n48A_n66A	n48A	40	641666	3624.99	DFT-S-OFDM QPSK/1#1	n66A	20	349000	1745	23.89	25
	n48A_n71A	n48A	40	641666	3624.99	DFT-S-OFDM QPSK/1#1	n71A	20	136100	680.5	23.1	25
	CA_n66(2A)	n66A	20	349000	1745	DFT-S-OFDM QPSK/1#1	n66A	20	349000	1745	23.52	25
	CA_n66B	n66B	20	347500	1737.5	DFT-S-OFDM QPSK/1#1	n66B	15	350920	1656.77	23.56	25
	CA_n66A-n71A	n66A	20	349000	1745	DFT-S-OFDM QPSK/1#1	n71A	20	136100	680.5	23.6	25
	CA_n66A-n78A	n66A	20	349000	1745	DFT-S-OFDM QPSK/1#1	n78A	100	633334	3500.01	23.42	25
	CA_n71(2A)	n71A	20	136100	680.5	DFT-S-OFDM QPSK/1#1	n71A	20	136100	680.5	23.49	25
	CA_n71A-n77A	n71A	20	136100	680.5	DFT-S-OFDM QPSK/1#1	n71A	20	136100	680.5	23.6	25

2.4GHz WLAN ANT 0

2.4GHz WLAN ANT 0	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11b 1Mbps	CH 1	2412	16.83	17.50	18.00	98.80
		CH 7	2442	15.95	16.50	18.00	98.71
		CH 13	2472	16.94	17.50	18.00	98.74
	802.11g 6Mbps	CH 1	2412	16.42	17.00	18.00	98.35
		CH 7	2442	15.66	16.50	18.00	98.35
		CH 13	2472	16.56	17.50	18.00	98.35
	802.11n-HT20 MCS0	CH 1	2412	16.35	17.00	18.00	98.23
		CH 7	2442	15.54	16.50	18.00	98.13
		CH 13	2472	16.37	17.00	18.00	98.23
	802.11n-HT40 MCS0	CH 3	2422	16.77	17.50	18.00	94.90
		CH 7	2442	16.57	17.50	18.00	94.90
CH 11		2462	16.85	17.50	18.00	94.89	

5.2GHz WLAN ANT 0

5.2GHz WLAN ANT 0	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 36	5180	16.09	17.00	18.00	98.06
		CH 44	5220	16.15	17.00	18.00	98.06
		CH 48	5240	15.85	16.50	18.00	98.06
	802.11n-HT20 MCS0	CH 36	5180	15.88	16.50	18.00	97.92
		CH 44	5220	16.00	17.00	18.00	97.92
		CH 48	5240	15.69	16.50	18.00	97.92
	802.11n-HT40 MCS0	CH 38	5190	16.27	17.00	18.00	95.83
		CH 46	5230	16.21	17.00	18.00	97.94
	802.11ac-VHT20 MCS0	CH 36	5180	15.88	16.50	18.00	99.31
		CH 44	5220	15.99	16.50	18.00	97.94
		CH 48	5240	15.63	16.50	18.00	99.31
	802.11ac-VHT40 MCS0	CH 38	5190	16.26	17.00	18.00	95.83
		CH 46	5230	16.18	17.00	18.00	97.94
802.11ac-VHT80 MCS0	CH 42	5210	16.16	17.00	18.00	95.92	

5.8GHz WLAN ANT 0

5.8GHz WLAN ANT 0	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 149	5745	14.99	15.50	18.00	98.06
		CH 157	5785	14.98	15.50	18.00	99.35
		CH 165	5825	14.94	15.50	18.00	98.06
	802.11n-HT20 MCS0	CH 149	5745	14.85	15.50	18.00	97.92
		CH 157	5785	14.74	15.50	18.00	97.92
		CH 165	5825	14.73	15.50	18.00	97.92
	802.11n-HT40 MCS0	CH 151	5755	15.33	16.00	18.00	95.83
		CH 159	5795	15.02	16.00	18.00	98.62
	802.11ac-VHT20 MCS0	CH 149	5745	14.75	15.50	18.00	97.94
		CH 157	5785	14.93	15.50	18.00	97.94
		CH 165	5825	14.84	15.50	18.00	97.94
	802.11ac-VHT40 MCS0	CH 151	5755	15.37	16.00	18.00	95.92
		CH 159	5795	15.09	16.00	18.00	97.94
802.11ac-VHT80 MCS0	CH 155	5775	15.10	16.00	18.00	92.00	

Mode	Channel	Frequency (MHz)	Average power (dBm)								
			1Mbps	Tune-up Limit	Duty Cycle %	2Mbps	Tune-up Limit	Duty Cycle %	3Mbps	Tune-up Limit	Duty Cycle %
BR / EDR	CH 00	2402	7.30	8.00	77.03	4.29	5.00	77.04	4.39	5.00	77.09
	CH 39	2441	6.83	7.50	76.98	3.51	4.50	77.09	3.59	4.50	77.04
	CH 78	2480	8.49	9.00	76.96	5.28	6.00	77.03	5.12	6.00	77.11

Mode	Channel	Frequency (MHz)	Average power (dBm)			
			1Mbps	Tune-up Limit	2Mbps	Tune-up Limit
LE	CH 00	2402	7.43	8.00	7.32	8.00
	CH 19	2440	6.75	7.50	6.78	7.50
	CH 39	2480	8.22	9.00	8.09	9.00
Duty Cycle %			62.96		33.28	



Reduced Power

Band		WCDMA Band II (dBm)_Ant 4			Tune-up Limit (dBm)	WCDMA Band IV (dBm)_Ant 4			Tune-up Limit (dBm)	WCDMA Band V (dBm)_Ant 1			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	16.94	17.01	16.93	18.50	16.84	16.89	16.79	18.50	20.64	20.66	20.58	22.00
3GPP Rel 5	HSDPA Subtest-1	15.08	15.10	15.19	16.50	15.33	15.43	15.28	17.00	19.71	19.70	19.65	21.00
3GPP Rel 5	HSDPA Subtest-2	15.21	15.15	15.20	16.50	15.30	15.41	15.44	17.00	19.62	19.68	19.67	21.00
3GPP Rel 5	HSDPA Subtest-3	14.62	14.77	14.83	16.00	14.88	15.05	14.95	16.00	19.33	19.23	19.29	20.50
3GPP Rel 5	HSDPA Subtest-4	14.73	14.78	14.74	16.00	14.73	14.96	14.93	16.00	19.26	19.23	19.28	20.50
3GPP Rel 6	HSUPA Subtest-1	15.15	15.22	15.27	17.00	15.66	15.68	15.49	17.00	19.69	19.86	19.73	21.00
3GPP Rel 6	HSUPA Subtest-2	14.66	15.07	14.76	16.50	15.26	15.23	15.05	17.00	19.21	19.18	19.33	21.00
3GPP Rel 6	HSUPA Subtest-3	15.21	15.21	15.26	17.00	15.63	15.66	15.63	17.00	19.75	19.64	19.72	21.00
3GPP Rel 6	HSUPA Subtest-4	15.18	15.09	15.13	17.00	15.61	15.69	15.46	17.00	19.69	19.66	19.72	21.00
3GPP Rel 6	HSUPA Subtest-5	15.17	15.19	15.22	17.00	15.66	15.19	15.47	17.00	19.77	19.80	19.73	21.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	15.24	15.33	15.27	17.00	15.82	15.89	15.67	17.00	19.76	19.76	19.75	21.00
Attenuator		Cable Loss			0.8	Cable Loss			0.8	Cable Loss			0.6
Mode		Max.			17.01	Max.			16.89	Max.			20.66
Date		12/10				12/10				12/10			

Band 2 (1900MHz Band) (dBm) Part 24E_Ant 3							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	15.45	15.47	15.40	17
20	QPSK	1	49	15.44	15.46	15.39	
20	QPSK	1	99	15.36	15.43	15.40	
20	QPSK	50	0	14.50	14.62	14.51	16
20	QPSK	50	24	14.54	14.48	14.46	
20	QPSK	50	50	14.51	14.54	14.47	
20	QPSK	100	0	14.54	14.55	14.44	16
20	16QAM	1	0	14.81	14.72	14.55	
20	16QAM	1	49	14.69	14.78	14.73	
20	16QAM	1	99	14.79	14.56	14.83	15
20	16QAM	50	0	13.50	13.45	13.49	
20	16QAM	50	24	13.71	13.56	13.55	
20	16QAM	50	50	13.58	13.61	13.63	15
20	16QAM	100	0	13.56	13.58	13.54	
20	64QAM	1	0	13.66	13.80	13.75	
20	64QAM	1	49	13.69	13.73	13.63	14
20	64QAM	1	99	13.79	13.67	13.49	
20	64QAM	50	0	13.64	13.53	13.53	
20	64QAM	50	24	13.47	13.48	13.55	11
20	64QAM	50	50	13.60	13.53	13.58	
20	64QAM	100	0	13.52	13.55	13.54	
20	256QAM	1	0	9.67	9.82	9.77	11
20	256QAM	1	49	9.70	9.75	9.65	
20	256QAM	1	99	9.80	9.69	9.51	
20	256QAM	50	0	9.65	9.55	9.55	11
20	256QAM	50	24	9.48	9.50	9.57	
20	256QAM	50	50	9.61	9.55	9.60	
20	256QAM	100	0	9.53	9.57	9.56	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	Tune-up limit (dBm)
15	QPSK	1	0	15.29	15.34	15.25	17
15	QPSK	1	37	15.33	15.34	15.28	
15	QPSK	1	74	15.19	15.34	15.31	
15	QPSK	36	0	14.38	14.44	14.33	16
15	QPSK	36	20	14.52	14.33	14.34	
15	QPSK	36	39	14.42	14.39	14.30	
15	QPSK	75	0	14.41	14.39	14.26	16
15	16QAM	1	0	14.57	14.46	14.29	
15	16QAM	1	37	14.56	14.68	14.48	
15	16QAM	1	74	14.61	14.76	14.62	15
15	16QAM	36	0	13.41	13.28	13.35	
15	16QAM	36	20	13.47	13.27	13.27	
15	16QAM	36	39	13.34	13.39	13.41	15
15	16QAM	75	0	13.26	13.34	13.33	
15	64QAM	1	0	13.43	13.59	13.50	
15	64QAM	1	37	13.43	13.43	13.38	14
15	64QAM	1	74	13.57	13.42	13.23	
15	64QAM	36	0	13.41	13.23	13.26	
15	64QAM	36	20	13.18	13.25	13.28	11
15	64QAM	36	39	13.36	13.31	13.30	
15	64QAM	75	0	13.26	13.32	13.33	
15	256QAM	1	0	9.46	9.54	9.49	11
15	256QAM	1	37	9.41	9.52	9.35	
15	256QAM	1	74	9.54	9.39	9.26	
15	256QAM	36	0	9.42	9.32	9.30	11
15	256QAM	36	20	9.21	9.25	9.35	
15	256QAM	36	39	9.31	9.25	9.33	
15	256QAM	75	0	9.35	9.43	9.41	
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	Tune-up limit (dBm)
10	QPSK	1	0	15.36	15.37	15.30	17
10	QPSK	1	25	15.29	15.33	15.25	
10	QPSK	1	49	15.20	15.34	15.24	
10	QPSK	25	0	14.36	14.53	14.38	16
10	QPSK	25	12	14.32	14.19	14.25	
10	QPSK	25	25	14.22	14.32	14.20	
10	QPSK	50	0	14.25	14.31	14.18	16
10	16QAM	1	0	14.55	14.47	14.28	
10	16QAM	1	25	14.55	14.72	14.52	
10	16QAM	1	49	14.57	14.77	14.58	15
10	16QAM	25	0	13.34	13.33	13.36	
10	16QAM	25	12	13.43	13.29	13.31	
10	16QAM	25	25	13.37	13.32	13.39	15
10	16QAM	50	0	13.35	13.32	13.25	
10	64QAM	1	0	13.36	13.51	13.53	
10	64QAM	1	25	13.47	13.52	13.41	14
10	64QAM	1	49	13.54	13.40	13.19	
10	64QAM	25	0	13.43	13.23	13.24	
10	64QAM	25	12	13.19	13.25	13.29	11
10	64QAM	25	25	13.36	13.31	13.32	
10	64QAM	50	0	13.25	13.26	13.32	
10	256QAM	1	0	9.38	9.53	9.47	11
10	256QAM	1	25	9.48	9.51	9.38	
10	256QAM	1	49	9.57	9.46	9.26	
10	256QAM	25	0	9.41	9.33	9.29	11
10	256QAM	25	12	9.22	9.22	9.29	
10	256QAM	25	25	9.35	9.33	9.35	
10	256QAM	50	0	9.29	9.34	9.32	
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	Tune-up limit (dBm)
5	QPSK	1	0	15.35	15.35	15.26	17
5	QPSK	1	12	15.26	15.28	15.30	
5	QPSK	1	24	15.27	15.33	15.23	
5	QPSK	12	0	14.33	14.49	14.37	16
5	QPSK	12	7	14.35	14.23	14.17	
5	QPSK	12	13	14.28	14.28	14.17	
5	QPSK	25	0	14.32	14.31	14.16	16
5	16QAM	1	0	14.27	14.26	14.07	
5	16QAM	1	12	14.30	14.46	14.27	
5	16QAM	1	24	14.35	14.46	14.31	15
5	16QAM	12	0	13.16	13.06	13.13	
5	16QAM	12	7	13.17	13.07	13.03	
5	16QAM	12	13	13.09	13.09	13.15	15
5	16QAM	25	0	13.03	13.05	13.01	
5	64QAM	1	0	13.13	13.33	13.25	
5	64QAM	1	12	13.16	13.24	13.14	15

Band 2 (1900MHz Band) (dBm) Part 24E_Ant 4							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	17.45	17.47	17.40	19
20	QPSK	1	49	17.44	17.46	17.39	
20	QPSK	1	99	17.36	17.43	17.40	
20	QPSK	50	0	16.50	16.62	16.51	18
20	QPSK	50	24	16.54	16.48	16.46	
20	QPSK	50	50	16.51	16.54	16.47	
20	QPSK	100	0	16.54	16.55	16.44	18
20	16QAM	1	0	16.81	16.72	16.55	
20	16QAM	1	49	16.69	16.78	16.73	
20	16QAM	1	99	16.79	16.56	16.83	17
20	16QAM	50	0	15.50	15.45	15.49	
20	16QAM	50	24	15.71	15.56	15.55	
20	16QAM	50	50	15.58	15.61	15.63	17
20	16QAM	100	0	15.56	15.58	15.54	
20	64QAM	1	0	15.66	15.80	15.75	
20	64QAM	1	49	15.69	15.73	15.63	17
20	64QAM	1	99	15.79	15.67	15.49	
20	64QAM	50	0	15.64	15.53	15.53	
20	64QAM	50	24	15.47	15.48	15.55	16
20	64QAM	50	50	15.60	15.53	15.58	
20	64QAM	100	0	15.52	15.55	15.54	
20	256QAM	1	0	11.67	11.82	11.77	13
20	256QAM	1	49	11.70	11.75	11.65	
20	256QAM	1	99	11.80	11.69	11.51	
20	256QAM	50	0	11.65	11.55	11.55	13
20	256QAM	50	24	11.48	11.50	11.57	
20	256QAM	50	50	11.61	11.55	11.60	
20	256QAM	100	0	11.53	11.57	11.56	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	17.29	17.34	17.25	19
15	QPSK	1	37	17.33	17.34	17.28	
15	QPSK	1	74	17.19	17.34	17.31	
15	QPSK	36	0	16.38	16.44	16.33	18
15	QPSK	36	20	16.52	16.33	16.34	
15	QPSK	36	39	16.42	16.39	16.30	
15	QPSK	75	0	16.41	16.39	16.26	18
15	16QAM	1	0	16.57	16.46	16.29	
15	16QAM	1	37	16.56	16.68	16.48	
15	16QAM	1	74	16.61	16.76	16.62	17
15	16QAM	36	0	15.41	15.28	15.35	
15	16QAM	36	20	15.47	15.27	15.27	
15	16QAM	36	39	15.34	15.39	15.41	17
15	16QAM	75	0	15.26	15.34	15.33	
15	64QAM	1	0	15.43	15.59	15.50	
15	64QAM	1	37	15.43	15.43	15.38	17
15	64QAM	1	74	15.57	15.42	15.23	
15	64QAM	36	0	15.41	15.23	15.26	
15	64QAM	36	20	15.18	15.25	15.28	16
15	64QAM	36	39	15.36	15.31	15.30	
15	64QAM	75	0	15.26	15.32	15.33	
15	256QAM	1	0	11.46	11.54	11.49	13
15	256QAM	1	37	11.41	11.52	11.35	
15	256QAM	1	74	11.54	11.39	11.26	
15	256QAM	36	0	11.42	11.32	11.30	13
15	256QAM	36	20	11.21	11.25	11.35	
15	256QAM	36	39	11.31	11.25	11.33	
15	256QAM	75	0	11.35	11.43	11.41	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	17.29	17.37	17.30	19
10	QPSK	1	25	17.29	17.33	17.25	
10	QPSK	1	49	17.20	17.34	17.24	
10	QPSK	25	0	16.36	16.53	16.38	18
10	QPSK	25	12	16.32	16.19	16.25	
10	QPSK	25	25	16.22	16.32	16.20	
10	QPSK	50	0	16.25	16.31	16.18	18
10	16QAM	1	0	16.55	16.47	16.28	
10	16QAM	1	25	16.55	16.72	16.52	
10	16QAM	1	49	16.57	16.77	16.58	17
10	16QAM	25	0	15.34	15.33	15.36	
10	16QAM	25	12	15.43	15.29	15.31	
10	16QAM	25	25	15.37	15.32	15.39	17
10	16QAM	50	0	15.35	15.32	15.25	
10	64QAM	1	0	15.36	15.51	15.53	
10	64QAM	1	25	15.47	15.52	15.41	17
10	64QAM	1	49	15.54	15.40	15.19	
10	64QAM	25	0	15.43	15.23	15.24	
10	64QAM	25	12	15.19	15.25	15.29	16
10	64QAM	25	25	15.36	15.31	15.32	
10	64QAM	50	0	15.25	15.26	15.32	
10	256QAM	1	0	11.38	11.53	11.47	13
10	256QAM	1	25	11.48	11.51	11.38	
10	256QAM	1	49	11.57	11.46	11.26	
10	256QAM	25	0	11.41	11.33	11.29	13
10	256QAM	25	12	11.22	11.22	11.29	
10	256QAM	25	25	11.35	11.33	11.35	
10	256QAM	50	0	11.28	11.34	11.32	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	17.35	17.35	17.26	19
5	QPSK	1	12	17.26	17.28	17.30	
5	QPSK	1	24	17.27	17.33	17.23	
5	QPSK	12	0	16.33	16.49	16.37	18
5	QPSK	12	7	16.35	16.23	16.17	
5	QPSK	12	13	16.28	16.28	16.17	
5	QPSK	25	0	16.32	16.31	16.16	18
5	16QAM	1	0	16.27	16.26	16.07	
5	16QAM	1	12	16.30	16.46	16.27	
5	16QAM	1	24	16.35	16.46	16.31	18
5	16QAM	12	0	15.16	15.06	15.13	
5	16QAM	12	7	15.17	15.07	15.03	
5	16QAM	12	13	15.09	15.09	15.15	17
5	16QAM	25	0	15.03	15.05	15.01	
5	64QAM	1	0	15.13	15.33	15.25	
5	64QAM	1	12	15.16	15.24	15.14	17

5	64QAM	1	24	13.32	13.20	13.01	14
5	64QAM	12	0	13.42	13.32	13.30	
5	64QAM	12	7	13.24	13.21	13.29	
5	64QAM	12	13	13.36	13.24	13.37	
5	64QAM	25	0	13.31	13.32	13.25	11
5	256QAM	1	0	9.46	9.54	9.54	
5	256QAM	1	12	9.45	9.47	9.42	
5	256QAM	1	24	9.50	9.40	9.27	
5	256QAM	12	0	9.44	9.32	9.32	11
5	256QAM	12	7	9.20	9.20	9.32	
5	256QAM	12	13	9.34	9.28	9.31	
5	256QAM	25	0	9.23	9.34	9.29	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	15.26	15.36	15.22	17
3	QPSK	1	8	15.30	15.35	15.26	
3	QPSK	1	14	15.10	15.13	15.11	
3	QPSK	8	0	14.23	14.35	14.27	
3	QPSK	8	4	14.31	14.25	14.24	16
3	QPSK	8	7	14.27	14.26	14.24	
3	QPSK	15	0	14.24	14.26	14.18	
3	16QAM	1	0	14.27	14.27	14.04	
3	16QAM	1	8	14.31	14.45	14.27	16
3	16QAM	1	14	14.37	14.48	14.36	
3	16QAM	8	0	13.11	13.04	13.10	
3	16QAM	8	4	13.24	13.04	13.05	
3	16QAM	8	7	13.04	13.10	13.16	15
3	16QAM	15	0	13.03	13.06	13.07	
3	64QAM	1	0	13.21	13.29	13.29	
3	64QAM	1	8	13.21	13.23	13.10	
3	64QAM	1	14	13.33	13.18	12.95	14
3	64QAM	8	0	13.38	13.23	13.23	
3	64QAM	8	4	13.22	13.21	13.25	
3	64QAM	8	7	13.31	13.25	13.34	
3	64QAM	15	0	13.25	13.27	13.31	11
3	256QAM	1	0	9.40	9.52	9.56	
3	256QAM	1	8	9.47	9.51	9.42	
3	256QAM	1	14	9.55	9.45	9.26	
3	256QAM	8	0	9.39	9.30	9.26	11
3	256QAM	8	4	9.19	9.27	9.28	
3	256QAM	8	7	9.39	9.34	9.31	
3	256QAM	15	0	9.23	9.32	9.27	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	15.17	15.27	15.13	17
1.4	QPSK	1	3	15.21	15.26	15.17	
1.4	QPSK	1	5	15.01	15.04	15.02	
1.4	QPSK	3	0	14.14	14.26	14.18	
1.4	QPSK	3	1	14.22	14.16	14.15	16
1.4	QPSK	3	3	14.18	14.17	14.15	
1.4	QPSK	6	0	14.15	14.17	14.09	
1.4	16QAM	1	0	14.18	14.18	13.95	
1.4	16QAM	1	3	14.22	14.36	14.18	16
1.4	16QAM	1	5	14.28	14.39	14.27	
1.4	16QAM	3	0	13.02	12.95	13.01	
1.4	16QAM	3	1	13.15	12.95	12.96	
1.4	16QAM	3	3	12.95	13.01	13.07	15
1.4	16QAM	6	0	12.94	12.97	12.98	
1.4	64QAM	1	0	13.12	13.20	13.20	
1.4	64QAM	1	3	13.12	13.14	13.01	
1.4	64QAM	1	5	13.24	13.09	13.06	15
1.4	64QAM	3	0	13.29	13.14	13.14	
1.4	64QAM	3	1	13.13	13.12	13.16	
1.4	64QAM	3	3	13.22	13.16	13.25	
1.4	64QAM	6	0	13.16	13.18	13.22	14
1.4	256QAM	1	0	9.31	9.43	9.47	
1.4	256QAM	1	3	9.38	9.42	9.33	
1.4	256QAM	1	5	9.46	9.36	9.17	
1.4	256QAM	3	0	9.30	9.21	9.17	11
1.4	256QAM	3	1	9.10	9.18	9.19	
1.4	256QAM	3	3	9.30	9.25	9.22	
1.4	256QAM	6	0	9.14	9.23	9.18	

5	64QAM	1	24	15.32	15.20	15.01	16
5	64QAM	12	0	15.42	15.32	15.30	
5	64QAM	12	7	15.24	15.21	15.29	
5	64QAM	12	13	15.36	15.24	15.37	
5	64QAM	25	0	15.31	15.32	15.25	13
5	256QAM	1	0	11.46	11.54	11.54	
5	256QAM	1	12	11.45	11.47	11.42	
5	256QAM	1	24	11.50	11.40	11.27	
5	256QAM	12	0	11.44	11.32	11.32	13
5	256QAM	12	7	11.20	11.20	11.32	
5	256QAM	12	13	11.34	11.28	11.31	
5	256QAM	25	0	11.23	11.34	11.29	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	17.26	17.36	17.22	19
3	QPSK	1	8	17.30	17.35	17.26	
3	QPSK	1	14	17.10	17.13	17.11	
3	QPSK	8	0	16.23	16.35	16.27	
3	QPSK	8	4	16.31	16.25	16.24	18
3	QPSK	8	7	16.27	16.26	16.24	
3	QPSK	15	0	16.24	16.26	16.18	
3	16QAM	1	0	16.27	16.27	16.04	
3	16QAM	1	8	16.31	16.45	16.27	18
3	16QAM	1	14	16.37	16.48	16.36	
3	16QAM	8	0	15.11	15.04	15.10	
3	16QAM	8	4	15.24	15.04	15.05	
3	16QAM	8	7	15.04	15.10	15.16	17
3	16QAM	15	0	15.03	15.06	15.07	
3	64QAM	1	0	15.21	15.29	15.29	
3	64QAM	1	8	15.21	15.23	15.10	
3	64QAM	1	14	15.33	15.18	14.95	16
3	64QAM	8	0	15.38	15.23	15.23	
3	64QAM	8	4	15.22	15.21	15.25	
3	64QAM	8	7	15.31	15.25	15.34	
3	64QAM	15	0	15.25	15.27	15.31	13
3	256QAM	1	0	11.40	11.52	11.56	
3	256QAM	1	8	11.47	11.51	11.42	
3	256QAM	1	14	11.55	11.45	11.26	
3	256QAM	8	0	11.39	11.30	11.26	13
3	256QAM	8	4	11.19	11.27	11.28	
3	256QAM	8	7	11.39	11.34	11.31	
3	256QAM	15	0	11.23	11.32	11.27	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	17.17	17.27	17.13	19
1.4	QPSK	1	3	17.21	17.26	17.17	
1.4	QPSK	1	5	17.01	17.04	17.02	
1.4	QPSK	3	0	16.14	16.26	16.18	
1.4	QPSK	3	1	16.22	16.16	16.15	18
1.4	QPSK	3	3	16.18	16.17	16.15	
1.4	QPSK	6	0	16.15	16.17	16.09	
1.4	16QAM	1	0	16.18	16.18	15.95	
1.4	16QAM	1	3	16.22	16.36	16.18	18
1.4	16QAM	1	5	16.28	16.39	16.27	
1.4	16QAM	3	0	15.02	14.95	15.01	
1.4	16QAM	3	1	15.15	14.95	14.96	
1.4	16QAM	3	3	14.95	15.01	15.07	17
1.4	16QAM	6	0	14.94	14.97	14.98	
1.4	64QAM	1	0	15.12	15.20	15.20	
1.4	64QAM	1	3	15.12	15.14	15.01	
1.4	64QAM	1	5	15.24	15.09	15.06	17
1.4	64QAM	3	0	15.29	15.14	15.14	
1.4	64QAM	3	1	15.13	15.12	15.16	
1.4	64QAM	3	3	15.22	15.16	15.25	
1.4	64QAM	6	0	15.16	15.18	15.22	16
1.4	256QAM	1	0	11.31	11.43	11.47	
1.4	256QAM	1	3	11.38	11.42	11.33	
1.4	256QAM	1	5	11.46	11.36	11.17	
1.4	256QAM	3	0	11.30	11.21	11.17	13
1.4	256QAM	3	1	11.10	11.18	11.19	
1.4	256QAM	3	3	11.30	11.25	11.22	
1.4	256QAM	6	0	11.14	11.23	11.18	

Band 4 (AWS Band) (dBm) Part 27L (only on channel required)_Ant 3							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	15.77	15.81	15.80	17.5
20	QPSK	1	49	15.71	15.72	15.73	
20	QPSK	1	99	15.63	15.65	15.68	
20	QPSK	50	0	14.82	14.88	14.75	16.5
20	QPSK	50	24	14.80	14.83	14.84	
20	QPSK	50	50	14.77	14.80	14.86	
20	QPSK	100	0	14.74	14.83	14.78	16.5
20	16QAM	1	0	14.66	14.72	14.78	
20	16QAM	1	49	14.72	14.78	14.63	
20	16QAM	1	99	14.79	14.78	14.89	15.5
20	16QAM	50	0	13.85	13.81	13.86	
20	16QAM	50	24	13.88	13.77	13.81	
20	16QAM	50	50	13.93	13.79	13.80	15.5
20	16QAM	100	0	13.85	13.84	13.82	
20	64QAM	1	0	13.97	13.91	13.95	
20	64QAM	1	49	13.77	13.79	13.95	14.5
20	64QAM	1	99	13.87	13.88	13.99	
20	64QAM	50	0	13.79	13.76	13.77	
20	64QAM	50	24	13.78	13.80	13.93	14.5
20	64QAM	50	50	13.82	13.79	13.97	
20	64QAM	100	0	13.80	13.77	13.88	
20	256QAM	1	0	10.00	9.94	9.98	11.5
20	256QAM	1	49	9.80	9.82	9.98	
20	256QAM	1	99	9.90	9.91	10.02	
20	256QAM	50	0	9.82	9.79	9.80	11.5
20	256QAM	50	24	9.81	9.83	9.96	
20	256QAM	50	50	9.85	9.82	10.00	
20	256QAM	100	0	9.83	9.80	9.91	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	Tune-up limit (dBm)
15	QPSK	1	0	15.68	15.69	15.66	17.5
15	QPSK	1	37	15.61	15.57	15.66	
15	QPSK	1	74	15.52	15.55	15.59	
15	QPSK	36	0	14.68	14.77	14.68	16.5
15	QPSK	36	20	14.72	14.72	14.75	
15	QPSK	36	39	14.66	14.66	14.74	
15	QPSK	75	0	14.61	14.74	14.68	16.5
15	16QAM	1	0	14.81	15.00	14.63	
15	16QAM	1	37	15.09	15.04	15.04	
15	16QAM	1	74	14.71	14.72	14.78	15.5
15	16QAM	36	0	13.72	13.75	13.78	
15	16QAM	36	20	13.76	13.71	13.75	
15	16QAM	36	39	13.81	13.65	13.74	15.5
15	16QAM	75	0	13.77	13.78	13.75	
15	64QAM	1	0	13.85	13.84	13.80	
15	64QAM	1	37	13.82	13.85	13.84	14.5
15	64QAM	1	74	13.72	13.78	13.93	
15	64QAM	36	0	13.73	13.68	13.70	
15	64QAM	36	20	13.68	13.65	13.81	14.5
15	64QAM	36	39	13.67	13.70	13.86	
15	64QAM	75	0	13.70	13.63	13.81	
15	256QAM	1	0	9.93	9.79	9.85	11.5
15	256QAM	1	37	9.70	9.68	9.92	
15	256QAM	1	74	9.84	9.80	9.88	
15	256QAM	36	0	9.75	9.66	9.66	11.5
15	256QAM	36	20	9.68	9.74	9.90	
15	256QAM	36	39	9.76	9.69	9.85	
15	256QAM	75	0	9.69	9.74	9.84	
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	Tune-up limit (dBm)
10	QPSK	1	0	15.65	15.74	15.69	17.5
10	QPSK	1	25	15.59	15.61	15.61	
10	QPSK	1	49	15.54	15.51	15.54	
10	QPSK	25	0	14.69	14.80	14.62	16.5
10	QPSK	25	12	14.67	14.75	14.76	
10	QPSK	25	25	14.66	14.72	14.79	
10	QPSK	50	0	14.61	14.69	14.71	16.5
10	16QAM	1	0	14.82	15.05	14.72	
10	16QAM	1	25	15.03	15.11	14.99	
10	16QAM	1	49	14.87	14.71	14.79	15.5
10	16QAM	25	0	13.76	13.69	13.77	
10	16QAM	25	12	13.82	13.62	13.70	
10	16QAM	25	25	13.83	13.72	13.69	15.5
10	16QAM	50	0	13.79	13.72	13.73	
10	64QAM	1	0	13.82	13.78	13.86	
10	64QAM	1	25	13.71	13.72	13.89	14.5
10	64QAM	1	49	13.77	13.74	13.89	
10	64QAM	25	0	13.71	13.68	13.70	
10	64QAM	25	12	13.70	13.68	13.85	14.5
10	64QAM	25	25	13.71	13.67	13.82	
10	64QAM	50	0	13.65	13.64	13.79	
10	256QAM	1	0	9.93	9.88	9.83	11.5
10	256QAM	1	25	9.72	9.72	9.87	
10	256QAM	1	49	9.77	9.85	9.88	
10	256QAM	25	0	9.72	9.70	9.67	11.5
10	256QAM	25	12	9.75	9.73	9.82	
10	256QAM	25	25	9.74	9.73	9.87	
10	256QAM	50	0	9.75	9.73	9.76	
Channel				19975	20175	20375	
Frequency (MHz)				1712.5	1732.5	1752.5	Tune-up limit (dBm)
5	QPSK	1	0	15.64	15.70	15.67	17.5
5	QPSK	1	12	15.62	15.58	15.59	
5	QPSK	1	24	15.55	15.55	15.55	
5	QPSK	12	0	14.73	14.82	14.60	16.5
5	QPSK	12	7	14.67	14.77	14.69	
5	QPSK	12	13	14.63	14.65	14.72	
5	QPSK	25	0	14.64	14.75	14.64	16.5
5	16QAM	1	0	14.79	15.12	14.70	
5	16QAM	1	12	15.09	15.13	14.98	
5	16QAM	1	24	14.71	14.64	14.79	15.5
5	16QAM	12	0	13.71	13.73	13.76	
5	16QAM	12	7	13.73	13.64	13.70	
5	16QAM	12	13	13.85	13.72	13.66	15.5
5	16QAM	25	0	13.73	13.73	13.67	
5	64QAM	1	0	13.91	13.85	13.83	
5	64QAM	1	12	13.82	13.86	13.86	15.5

Band 4 (AWS Band) (dBm) Part 27L (only on channel required)_Ant 4							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	16.27	16.31	16.30	18
20	QPSK	1	49	16.21	16.22	16.23	
20	QPSK	1	99	16.13	16.15	16.18	
20	QPSK	50	0	15.32	15.38	15.25	17
20	QPSK	50	24	15.30	15.33	15.34	
20	QPSK	50	50	15.27	15.30	15.36	
20	QPSK	100	0	15.24	15.33	15.28	17
20	16QAM	1	0	15.16	15.22	15.28	
20	16QAM	1	49	15.22	15.28	15.13	
20	16QAM	1	99	15.29	15.28	15.39	16
20	16QAM	50	0	14.35	14.31	14.36	
20	16QAM	50	24	14.38	14.27	14.31	
20	16QAM	50	50	14.43	14.29	14.30	16
20	16QAM	100	0	14.35	14.34	14.32	
20	64QAM	1	0	14.47	14.41	14.45	
20	64QAM	1	49	14.27	14.29	14.45	16
20	64QAM	1	99	14.37	14.38	14.49	
20	64QAM	50	0	14.29	14.26	14.27	
20	64QAM	50	24	14.28	14.30	14.43	15
20	64QAM	50	50	14.32	14.29	14.47	
20	64QAM	100	0	14.30	14.27	14.38	
20	256QAM	1	0	10.50	10.44	10.48	12
20	256QAM	1	49	10.30	10.32	10.48	
20	256QAM	1	99	10.40	10.41	10.52	
20	256QAM	50	0	10.32	10.29	10.30	12
20	256QAM	50	24	10.31	10.33	10.46	
20	256QAM	50	50	10.35	10.32	10.50	
20	256QAM	100	0	10.33	10.30	10.41	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	Tune-up limit (dBm)
15	QPSK	1	0	16.18	16.19	16.16	18
15	QPSK	1	37	16.11	16.07	16.16	
15	QPSK	1	74	16.02	16.05	16.09	
15	QPSK	36	0	15.18	15.27	15.18	17
15	QPSK	36	20	15.22	15.22	15.25	
15	QPSK	36	39	15.16	15.16	15.24	
15	QPSK	75	0	15.11	15.24	15.18	17
15	16QAM	1	0	15.31	15.50	15.13	
15	16QAM	1	37	15.59	15.54	15.54	
15	16QAM	1	74	15.21	15.22	15.28	16
15	16QAM	36	0	14.22	14.25	14.28	
15	16QAM	36	20	14.26	14.21	14.25	
15	16QAM	36	39	14.31	14.15	14.24	16
15	16QAM	75	0	14.27	14.28	14.25	
15	64QAM	1	0	14.35	14.34	14.30	
15	64QAM	1	37	14.32	14.35	14.34	16
15	64QAM	1	74	14.22	14.28	14.43	
15	64QAM	36	0	14.23	14.18	14.20	
15	64QAM	36	20	14.18	14.15	14.31	15

5	64QAM	1	24	13.81	13.77	13.92	14.5
5	64QAM	12	0	13.64	13.65	13.69	
5	64QAM	12	7	13.71	13.72	13.82	
5	64QAM	12	13	13.70	13.68	13.91	
5	64QAM	25	0	13.65	13.64	13.82	11.5
5	256QAM	1	0	9.93	9.87	9.96	
5	256QAM	1	12	9.72	9.76	9.90	
5	256QAM	1	24	9.76	9.79	9.91	
5	256QAM	12	0	9.75	9.69	9.71	11.5
5	256QAM	12	7	9.69	9.70	9.86	
5	256QAM	12	13	9.77	9.73	9.93	
5	256QAM	25	0	9.69	9.66	9.80	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	15.64	15.73	15.67	17.5
3	QPSK	1	8	15.65	15.58	15.67	
3	QPSK	1	14	15.51	15.56	15.59	
3	QPSK	8	0	14.68	14.78	14.67	
3	QPSK	8	4	14.68	14.76	14.76	16.5
3	QPSK	8	7	14.63	14.73	14.71	
3	QPSK	15	0	14.61	14.73	14.69	
3	16QAM	1	0	14.79	15.06	14.68	
3	16QAM	1	8	15.05	15.14	14.99	16.5
3	16QAM	1	14	14.67	14.67	14.81	
3	16QAM	8	0	13.75	13.68	13.76	
3	16QAM	8	4	13.77	13.70	13.72	
3	16QAM	8	7	13.85	13.67	13.69	15.5
3	16QAM	15	0	13.73	13.72	13.73	
3	64QAM	1	0	13.86	13.82	13.80	
3	64QAM	1	8	13.85	13.85	13.85	
3	64QAM	1	14	13.78	13.74	13.86	15.5
3	64QAM	8	0	13.68	13.66	13.68	
3	64QAM	8	4	13.63	13.66	13.83	
3	64QAM	8	7	13.74	13.68	13.87	
3	64QAM	15	0	13.74	13.69	13.73	14.5
3	256QAM	1	0	9.86	9.88	9.96	
3	256QAM	1	8	9.67	9.74	9.91	
3	256QAM	1	14	9.75	9.83	9.88	
3	256QAM	8	0	9.69	9.64	9.66	11.5
3	256QAM	8	4	9.66	9.75	9.88	
3	256QAM	8	7	9.71	9.73	9.92	
3	256QAM	15	0	9.73	9.70	9.85	
Channel				19967	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	15.66	15.67	15.67	17.5
1.4	QPSK	1	3	15.60	15.57	15.65	
1.4	QPSK	1	5	15.56	15.59	15.54	
1.4	QPSK	3	0	15.73	15.80	15.65	
1.4	QPSK	3	1	15.68	15.73	15.76	16.5
1.4	QPSK	3	3	15.71	15.71	15.71	
1.4	QPSK	6	0	14.59	14.69	14.64	
1.4	16QAM	1	0	14.85	15.05	14.71	
1.4	16QAM	1	3	15.07	15.14	15.02	16.5
1.4	16QAM	1	5	14.65	14.68	14.76	
1.4	16QAM	3	0	14.77	14.75	14.71	
1.4	16QAM	3	1	14.81	14.65	14.70	
1.4	16QAM	3	3	14.78	14.73	14.70	15.5
1.4	16QAM	6	0	13.79	13.74	13.76	
1.4	64QAM	1	0	13.82	13.79	13.82	
1.4	64QAM	1	3	13.71	13.66	13.87	
1.4	64QAM	1	5	13.79	13.75	13.93	15.5
1.4	64QAM	3	0	13.65	13.65	13.71	
1.4	64QAM	3	1	13.63	13.65	13.83	
1.4	64QAM	3	3	13.69	13.72	13.83	
1.4	64QAM	6	0	13.70	13.71	13.81	14.5
1.4	256QAM	1	0	9.93	9.81	9.87	
1.4	256QAM	1	3	9.67	9.68	9.85	
1.4	256QAM	1	5	9.80	9.80	9.89	
1.4	256QAM	3	0	9.69	9.70	9.72	11.5
1.4	256QAM	3	1	9.67	9.77	9.90	
1.4	256QAM	3	3	9.77	9.75	9.88	
1.4	256QAM	6	0	9.76	9.68	9.76	

5	64QAM	1	24	14.31	14.27	14.42	15
5	64QAM	12	0	14.14	14.15	14.19	
5	64QAM	12	7	14.21	14.22	14.32	
5	64QAM	12	13	14.20	14.18	14.41	
5	64QAM	25	0	14.15	14.14	14.32	12
5	256QAM	1	0	10.43	10.37	10.36	
5	256QAM	1	12	10.22	10.26	10.40	
5	256QAM	1	24	10.26	10.29	10.41	
5	256QAM	12	0	10.25	10.19	10.21	12
5	256QAM	12	7	10.19	10.20	10.36	
5	256QAM	12	13	10.27	10.23	10.43	
5	256QAM	25	0	10.19	10.16	10.30	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	16.14	16.23	16.17	18
3	QPSK	1	8	16.15	16.08	16.17	
3	QPSK	1	14	16.01	16.06	16.09	
3	QPSK	8	0	15.18	15.28	15.17	
3	QPSK	8	4	15.18	15.26	15.26	17
3	QPSK	8	7	15.13	15.23	15.21	
3	QPSK	15	0	15.11	15.23	15.19	
3	16QAM	1	0	15.29	15.56	15.18	
3	16QAM	1	8	15.55	15.64	15.49	17
3	16QAM	1	14	15.17	15.17	15.31	
3	16QAM	8	0	14.25	14.18	14.26	
3	16QAM	8	4	14.27	14.20	14.22	
3	16QAM	8	7	14.35	14.17	14.19	16
3	16QAM	15	0	14.23	14.22	14.23	
3	64QAM	1	0	14.36	14.32	14.30	
3	64QAM	1	8	14.35	14.35	14.35	
3	64QAM	1	14	14.28	14.24	14.36	16
3	64QAM	8	0	14.18	14.16	14.18	
3	64QAM	8	4	14.13	14.16	14.33	
3	64QAM	8	7	14.24	14.18	14.37	
3	64QAM	15	0	14.24	14.19	14.23	15
3	256QAM	1	0	10.36	10.38	10.36	
3	256QAM	1	8	10.17	10.24	10.41	
3	256QAM	1	14	10.25	10.33	10.38	
3	256QAM	8	0	10.19	10.14	10.16	12
3	256QAM	8	4	10.16	10.25	10.38	
3	256QAM	8	7	10.21	10.23	10.42	
3	256QAM	15	0	10.23	10.20	10.35	
Channel				19967	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	16.16	16.17	16.17	18
1.4	QPSK	1	3	16.10	16.07	16.15	
1.4	QPSK	1	5	16.06	16.09	16.04	
1.4	QPSK	3	0	16.23	16.30	16.15	
1.4	QPSK	3	1	16.18	16.23	16.26	17
1.4	QPSK	3	3	16.21	16.21	16.21	
1.4	QPSK	6	0	15.09	15.19	15.14	
1.4	16QAM	1	0	15.35	15.55	15.21	
1.4	16QAM	1	3	15.57	15.64	15.52	17
1.4	16QAM	1	5	15.15	15.18	15.28	
1.4	16QAM	3	0	15.27	15.25	15.21	
1.4	16QAM	3	1	15.31	15.15	15.20	
1.4	16QAM	3	3	15.28	15.23	15.20	16
1.4	16QAM	6	0	14.29	14.24	14.26	
1.4	64QAM	1	0	14.32	14.29	14.32	
1.4	64QAM	1	3	14.21	14.16	14.37	
1.4	64QAM	1	5	14.29	14.25	14.43	16
1.4	64QAM	3	0	14.15	14.15	14.21	
1.4	64QAM	3	1	14.13	14.15	14.33	
1.4	64QAM	3	3	14.19	14.22	14.33	
1.4	64QAM	6	0	14.20	14.21	14.31	15
1.4	256QAM	1	0	10.43	10.31	10.37	
1.4	256QAM	1	3	10.17	10.18	10.35	
1.4	256QAM	1	5	10.30	10.30	10.39	
1.4	256QAM	3	0	10.19	10.20	10.22	12
1.4	256QAM	3	1	10.17	10.27	10.40	
1.4	256QAM	3	3	10.27	10.25	10.38	
1.4	256QAM	6	0	10.26	10.18	10.26	

Band 5 (Celluar Band) (dBm) Part 22H(only on channel required)_Ant 5							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	20.34	20.35	20.27	22
10	QPSK	1	25	20.30	20.33	20.22	
10	QPSK	1	49	20.22	20.29	20.04	
10	QPSK	25	0	19.40	19.48	19.34	21
10	QPSK	25	12	19.47	19.44	19.39	
10	QPSK	25	25	19.39	19.35	19.38	
10	QPSK	50	0	19.28	19.30	19.27	21
10	16QAM	1	0	19.37	19.27	19.23	
10	16QAM	1	25	19.36	19.54	19.40	
10	16QAM	1	49	19.33	19.34	19.26	20
10	16QAM	25	0	18.32	18.23	18.20	
10	16QAM	25	12	18.24	18.20	18.17	
10	16QAM	25	25	18.32	18.28	18.23	20
10	16QAM	50	0	18.36	18.22	18.19	
10	64QAM	1	0	18.38	18.45	18.34	
10	64QAM	1	25	18.25	18.23	18.29	20
10	64QAM	1	49	18.40	18.20	18.36	
10	64QAM	25	0	18.35	18.28	18.23	
10	64QAM	25	12	18.43	18.23	18.28	19
10	64QAM	25	25	18.27	18.28	18.23	
10	64QAM	50	0	18.28	18.25	18.27	
10	256QAM	1	0	14.42	14.49	14.38	16
10	256QAM	1	25	14.29	14.27	14.33	
10	256QAM	1	49	14.44	14.24	14.40	
10	256QAM	25	0	14.39	14.32	14.27	16
10	256QAM	25	12	14.47	14.27	14.32	
10	256QAM	25	25	14.31	14.32	14.27	
10	256QAM	50	0	14.32	14.29	14.31	
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	Tune-up limit (dBm)
5	QPSK	1	0	20.19	20.20	20.12	22
5	QPSK	1	12	20.15	20.15	20.08	
5	QPSK	1	24	20.05	20.12	19.86	
5	QPSK	12	0	19.27	19.33	19.09	21
5	QPSK	12	7	19.31	19.29	19.24	
5	QPSK	12	13	19.17	19.19	19.16	
5	QPSK	25	0	19.21	19.19	19.24	21
5	16QAM	1	0	19.35	19.26	19.21	
5	16QAM	1	12	19.34	19.54	19.40	
5	16QAM	1	24	19.33	19.30	19.26	20
5	16QAM	12	0	18.28	18.22	18.13	
5	16QAM	12	7	18.20	18.19	18.11	
5	16QAM	12	13	18.25	18.24	18.18	20
5	16QAM	25	0	18.34	18.15	18.12	
5	64QAM	1	0	18.20	18.27	18.20	
5	64QAM	1	12	18.03	18.10	18.12	20
5	64QAM	1	24	18.23	17.99	18.15	
5	64QAM	12	0	18.16	18.12	18.05	
5	64QAM	12	7	18.27	18.06	18.10	19
5	64QAM	12	13	18.07	18.07	18.01	
5	64QAM	25	0	18.25	18.23	18.26	
5	256QAM	1	0	14.26	14.29	14.25	16
5	256QAM	1	12	14.15	14.14	14.17	
5	256QAM	1	24	14.24	14.10	14.24	
5	256QAM	12	0	14.21	14.14	14.05	16
5	256QAM	12	7	14.26	14.09	14.11	
5	256QAM	12	13	14.09	14.12	14.08	
5	256QAM	25	0	14.16	14.16	14.12	
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	Tune-up limit (dBm)
3	QPSK	1	0	20.06	20.14	20.10	22
3	QPSK	1	8	20.13	20.11	19.99	
3	QPSK	1	14	19.97	20.06	19.80	
3	QPSK	8	0	19.17	19.28	19.06	21
3	QPSK	8	4	19.27	19.25	19.18	
3	QPSK	8	7	18.99	19.04	19.02	
3	QPSK	15	0	19.04	19.03	19.07	21
3	16QAM	1	0	19.18	19.02	19.03	
3	16QAM	1	8	19.18	19.36	19.17	
3	16QAM	1	14	19.10	19.08	19.08	20
3	16QAM	8	0	18.13	18.01	17.97	
3	16QAM	8	4	17.99	18.01	18.00	
3	16QAM	8	7	18.10	18.02	17.99	20
3	16QAM	15	0	18.16	18.03	18.00	
3	64QAM	1	0	18.14	18.20	18.15	
3	64QAM	1	8	18.08	18.02	18.12	20
3	64QAM	1	14	18.20	18.01	18.17	
3	64QAM	8	0	18.14	18.03	18.03	
3	64QAM	8	4	18.23	18.06	18.08	19
3	64QAM	8	7	18.09	18.03	18.01	
3	64QAM	15	0	18.02	18.08	18.02	
3	256QAM	1	0	14.21	14.25	14.18	16
3	256QAM	1	8	14.09	14.04	14.14	
3	256QAM	1	14	14.19	14.01	14.23	
3	256QAM	8	0	14.36	14.22	14.15	16
3	256QAM	8	4	14.38	14.22	14.29	
3	256QAM	8	7	14.23	14.24	14.20	
3	256QAM	15	0	14.24	14.25	14.22	
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	Tune-up limit (dBm)
1.4	QPSK	1	0	20.10	20.11	19.98	22
1.4	QPSK	1	3	20.03	20.03	19.92	
1.4	QPSK	1	5	19.99	20.04	19.77	
1.4	QPSK	3	0	19.99	20.10	19.84	21
1.4	QPSK	3	1	20.05	20.02	19.95	
1.4	QPSK	3	3	19.94	19.98	20.01	
1.4	QPSK	6	0	19.05	18.95	18.96	21
1.4	16QAM	1	0	19.12	19.00	18.93	
1.4	16QAM	1	3	19.12	19.30	19.08	
1.4	16QAM	1	5	19.10	19.07	18.99	21
1.4	16QAM	3	0	19.15	19.08	19.10	
1.4	16QAM	3	1	19.14	19.09	19.03	
1.4	16QAM	3	3	19.15	19.15	19.13	20
1.4	16QAM	6	0	18.26	18.12	18.09	
1.4	64QAM	1	0	18.29	18.31	18.17	
1.4	64QAM	1	3	18.10	18.07	18.12	

Band 7 (2600MHz Band) (dBm) Part 27_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	10.76	10.82	10.78	12.5
20	QPSK	1	49	10.68	10.75	10.80	
20	QPSK	1	99	10.79	10.80	10.81	
20	QPSK	50	0	9.89	10.02	10.01	11.5
20	QPSK	50	24	9.96	10.01	10.00	
20	QPSK	50	50	9.99	9.98	10.00	
20	QPSK	100	0	9.94	9.96	9.91	11.5
20	16QAM	1	0	9.90	9.84	9.89	
20	16QAM	1	49	9.97	9.96	9.88	
20	16QAM	1	99	9.98	10.03	9.99	10.5
20	16QAM	50	0	8.88	9.03	9.09	
20	16QAM	50	24	8.92	8.97	8.89	
20	16QAM	50	50	8.91	9.02	8.87	10.5
20	16QAM	100	0	8.90	8.95	9.00	
20	64QAM	1	0	8.93	8.97	9.01	
20	64QAM	1	49	8.97	9.03	8.78	10.5
20	64QAM	1	99	8.92	8.79	8.69	
20	64QAM	50	0	8.89	8.93	8.97	
20	64QAM	50	24	8.89	9.02	8.81	9.5
20	64QAM	50	50	8.86	9.01	8.95	
20	64QAM	100	0	8.94	8.93	8.83	
20	256QAM	1	0	5.46	5.50	5.54	7
20	256QAM	1	49	5.50	5.56	5.31	
20	256QAM	1	99	5.45	5.32	5.22	
20	256QAM	50	0	5.42	5.46	5.50	7
20	256QAM	50	24	5.42	5.55	5.34	
20	256QAM	50	50	5.39	5.54	5.48	
20	256QAM	100	0	5.47	5.46	5.36	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	10.68	10.74	10.70	12.5
15	QPSK	1	37	10.60	10.67	10.72	
15	QPSK	1	74	10.71	10.72	10.73	
15	QPSK	36	0	9.81	9.94	9.93	11.5
15	QPSK	36	20	9.88	9.93	9.92	
15	QPSK	36	39	9.91	9.90	9.92	
15	QPSK	75	0	9.86	9.88	9.83	11.5
15	16QAM	1	0	9.82	9.76	9.81	
15	16QAM	1	37	9.89	9.88	9.80	
15	16QAM	1	74	9.90	9.95	9.91	10.5
15	16QAM	36	0	8.80	8.95	9.01	
15	16QAM	36	20	8.84	8.89	8.81	
15	16QAM	36	39	8.83	8.94	8.79	10.5
15	16QAM	75	0	8.82	8.87	8.92	
15	64QAM	1	0	8.85	8.89	8.93	
15	64QAM	1	37	8.89	8.95	8.70	10.5
15	64QAM	1	74	8.84	8.71	8.61	
15	64QAM	36	0	8.81	8.85	8.89	
15	64QAM	36	20	8.81	8.94	8.73	9.5
15	64QAM	36	39	8.78	8.93	8.87	
15	64QAM	75	0	8.86	8.85	8.75	
15	256QAM	1	0	5.38	5.42	5.46	7
15	256QAM	1	37	5.42	5.48	5.23	
15	256QAM	1	74	5.37	5.24	5.14	
15	256QAM	36	0	5.34	5.38	5.42	7
15	256QAM	36	20	5.34	5.47	5.26	
15	256QAM	36	39	5.31	5.46	5.40	
15	256QAM	75	0	5.39	5.38	5.28	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	10.59	10.65	10.61	12.5
10	QPSK	1	25	10.51	10.58	10.63	
10	QPSK	1	49	10.62	10.63	10.64	
10	QPSK	25	0	9.72	9.85	9.84	11.5
10	QPSK	25	12	9.79	9.84	9.83	
10	QPSK	25	25	9.82	9.81	9.83	
10	QPSK	50	0	9.77	9.79	9.74	11.5
10	16QAM	1	0	9.73	9.67	9.72	
10	16QAM	1	25	9.80	9.79	9.71	
10	16QAM	1	49	9.81	9.86	9.82	10.5
10	16QAM	25	0	8.71	8.86	8.92	
10	16QAM	25	12	8.75	8.80	8.72	
10	16QAM	25	25	8.74	8.85	8.70	10.5
10	16QAM	50	0	8.73	8.78	8.83	
10	64QAM	1	0	8.76	8.80	8.84	
10	64QAM	1	25	8.80	8.86	8.61	10.5
10	64QAM	1	49	8.75	8.62	8.52	
10	64QAM	25	0	8.72	8.76	8.80	
10	64QAM	25	12	8.72	8.85	8.64	9.5
10	64QAM	25	25	8.69	8.84	8.78	
10	64QAM	50	0	8.77	8.76	8.66	
10	256QAM	1	0	5.29	5.33	5.37	7
10	256QAM	1	25	5.33	5.39	5.14	
10	256QAM	1	49	5.28	5.15	5.05	
10	256QAM	25	0	5.25	5.29	5.33	7
10	256QAM	25	12	5.25	5.38	5.17	
10	256QAM	25	25	5.22	5.37	5.31	
10	256QAM	50	0	5.30	5.29	5.19	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	10.55	10.61	10.57	12.5
5	QPSK	1	12	10.47	10.54	10.59	
5	QPSK	1	24	10.58	10.59	10.60	
5	QPSK	12	0	9.68	9.81	9.80	11.5
5	QPSK	12	7	9.75	9.80	9.79	
5	QPSK	12	13	9.78	9.77	9.79	
5	QPSK	25	0	9.73	9.75	9.70	11.5
5	16QAM	1	0	9.69	9.63	9.68	
5	16QAM	1	12	9.76	9.75	9.67	
5	16QAM	1	24	9.77	9.82	9.78	11.5
5	16QAM	12	0	8.67	8.82	8.88	
5	16QAM	12	7	8.71	8.76	8.68	
5	16QAM	12	13	8.70	8.81	8.66	10.5
5	16QAM	25	0	8.69	8.74	8.79	
5	64QAM	1	0	8.72	8.76	8.80	
5	64QAM	1	12	8.76	8.82	8.57	10.5



1.4	64QAM	1	5	18.26	18.02	18.26	20
1.4	64QAM	3	0	18.20	18.19	18.12	
1.4	64QAM	3	1	18.27	18.08	18.11	
1.4	64QAM	3	3	18.10	18.10	18.07	
1.4	64QAM	6	0	18.18	18.15	18.15	19
1.4	256QAM	1	0	14.26	14.40	14.28	16
1.4	256QAM	1	3	14.16	14.14	14.15	
1.4	256QAM	1	5	14.30	14.06	14.27	
1.4	256QAM	3	0	14.22	14.15	14.15	
1.4	256QAM	3	1	14.38	14.18	14.19	
1.4	256QAM	3	3	14.19	14.16	14.10	
1.4	256QAM	6	0	14.14	14.11	14.13	16

5	64QAM	1	24	8.71	8.58	8.48	9.5
5	64QAM	12	0	8.68	8.72	8.76	
5	64QAM	12	7	8.68	8.81	8.60	
5	64QAM	12	13	8.65	8.80	8.74	
5	64QAM	25	0	8.73	8.72	8.62	7
5	256QAM	1	0	5.25	5.29	5.33	
5	256QAM	1	12	5.29	5.35	5.10	
5	256QAM	1	24	5.24	5.11	5.01	
5	256QAM	12	0	5.21	5.25	5.29	7
5	256QAM	12	7	5.21	5.34	5.13	
5	256QAM	12	13	5.18	5.33	5.27	
5	256QAM	25	0	5.26	5.25	5.15	

Band 7 (2600MHz Band) (dBm) Part 27_Ant 5							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	10.26	10.32	10.28	12
20	QPSK	1	49	10.18	10.25	10.30	
20	QPSK	1	99	10.29	10.30	10.31	
20	QPSK	50	0	9.39	9.52	9.51	11
20	QPSK	50	24	9.46	9.51	9.50	
20	QPSK	50	50	9.49	9.48	9.50	
20	QPSK	100	0	9.44	9.46	9.41	11
20	16QAM	1	0	9.40	9.34	9.39	
20	16QAM	1	49	9.47	9.46	9.38	
20	16QAM	1	99	9.48	9.53	9.49	10
20	16QAM	50	0	8.38	8.53	8.59	
20	16QAM	50	24	8.42	8.47	8.39	
20	16QAM	50	50	8.41	8.52	8.37	10
20	16QAM	100	0	8.40	8.45	8.50	
20	64QAM	1	0	8.43	8.47	8.51	
20	64QAM	1	49	8.47	8.53	8.28	10
20	64QAM	1	99	8.42	8.29	8.19	
20	64QAM	50	0	8.39	8.43	8.47	
20	64QAM	50	24	8.39	8.52	8.31	9
20	64QAM	50	50	8.36	8.51	8.45	
20	64QAM	100	0	8.44	8.43	8.33	
20	256QAM	1	0	4.96	5.00	5.04	6.5
20	256QAM	1	49	5.00	5.06	4.81	
20	256QAM	1	99	4.95	4.82	4.72	
20	256QAM	50	0	4.92	4.96	5.00	6.5
20	256QAM	50	24	4.92	5.05	4.84	
20	256QAM	50	50	4.89	5.04	4.98	
20	256QAM	100	0	4.97	4.96	4.86	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	Tune-up limit (dBm)
15	QPSK	1	0	10.18	10.24	10.20	12
15	QPSK	1	37	10.10	10.17	10.22	
15	QPSK	1	74	10.21	10.22	10.23	
15	QPSK	36	0	9.31	9.44	9.43	11
15	QPSK	36	20	9.38	9.43	9.42	
15	QPSK	36	39	9.41	9.40	9.42	
15	QPSK	75	0	9.36	9.38	9.33	11
15	16QAM	1	0	9.32	9.26	9.31	
15	16QAM	1	37	9.39	9.38	9.30	
15	16QAM	1	74	9.40	9.45	9.41	10
15	16QAM	36	0	8.30	8.45	8.51	
15	16QAM	36	20	8.34	8.39	8.31	
15	16QAM	36	39	8.33	8.44	8.29	10
15	16QAM	75	0	8.32	8.37	8.42	
15	64QAM	1	0	8.35	8.39	8.43	
15	64QAM	1	37	8.39	8.45	8.20	10
15	64QAM	1	74	8.34	8.21	8.11	
15	64QAM	36	0	8.31	8.35	8.39	
15	64QAM	36	20	8.31	8.44	8.23	9
15	64QAM	36	39	8.28	8.43	8.37	
15	64QAM	75	0	8.36	8.35	8.25	
15	256QAM	1	0	4.88	4.92	4.96	6.5
15	256QAM	1	37	4.92	4.98	4.73	
15	256QAM	1	74	4.87	4.74	4.64	
15	256QAM	36	0	4.84	4.88	4.92	6.5
15	256QAM	36	20	4.84	4.97	4.76	
15	256QAM	36	39	4.81	4.96	4.90	
15	256QAM	75	0	4.89	4.88	4.78	
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	Tune-up limit (dBm)
10	QPSK	1	0	10.09	10.15	10.11	12
10	QPSK	1	25	10.01	10.08	10.13	
10	QPSK	1	49	10.12	10.13	10.14	
10	QPSK	25	0	9.22	9.35	9.34	11
10	QPSK	25	12	9.29	9.34	9.33	
10	QPSK	25	25	9.32	9.31	9.33	
10	QPSK	50	0	9.27	9.29	9.24	11
10	16QAM	1	0	9.23	9.17	9.22	
10	16QAM	1	25	9.30	9.29	9.21	
10	16QAM	1	49	9.31	9.36	9.32	10
10	16QAM	25	0	8.21	8.36	8.42	
10	16QAM	25	12	8.25	8.30	8.22	
10	16QAM	25	25	8.24	8.35	8.20	10
10	16QAM	50	0	8.23	8.28	8.33	
10	64QAM	1	0	8.26	8.30	8.34	
10	64QAM	1	25	8.30	8.36	8.11	10
10	64QAM	1	49	8.25	8.12	8.02	
10	64QAM	25	0	8.22	8.26	8.30	
10	64QAM	25	12	8.22	8.35	8.14	9
10	64QAM	25	25	8.19	8.34	8.28	
10	64QAM	50	0	8.27	8.26	8.16	
10	256QAM	1	0	4.79	4.83	4.87	6.5
10	256QAM	1	25	4.83	4.89	4.64	
10	256QAM	1	49	4.78	4.65	4.55	
10	256QAM	25	0	4.75	4.79	4.83	6.5
10	256QAM	25	12	4.75	4.88	4.67	
10	256QAM	25	25	4.72	4.87	4.81	
10	256QAM	50	0	4.80	4.79	4.69	
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)
5	QPSK	1	0	10.05	10.11	10.07	12
5	QPSK	1	12	9.97	10.04	10.09	
5	QPSK	1	24	10.08	10.09	10.10	
5	QPSK	12	0	9.18	9.31	9.30	11
5	QPSK	12	7	9.25	9.30	9.29	
5	QPSK	12	13	9.28	9.27	9.29	
5	QPSK	25	0	9.23	9.25	9.20	11
5	16QAM	1	0	9.19	9.13	9.18	
5	16QAM	1	12	9.26	9.25	9.17	
5	16QAM	1	24	9.27	9.32	9.28	10
5	16QAM	12	0	8.17	8.32	8.38	
5	16QAM	12	7	8.21	8.26	8.18	
5	16QAM	12	13	8.20	8.31	8.16	10
5	16QAM	25	0	8.19	8.24	8.29	
5	64QAM	1	0	8.22	8.26	8.30	
5	64QAM	1	12	8.26	8.32	8.07	10

Band 12 (700MHz Low Band) (dBm) Part 27F(only on channel required)_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	20.54	20.56	20.47	22
10	QPSK	1	25	20.47	20.50	20.51	
10	QPSK	1	49	20.37	20.52	20.54	
10	QPSK	25	0	19.53	19.58	19.57	21
10	QPSK	25	12	19.55	19.46	19.53	
10	QPSK	25	25	19.55	19.50	19.47	
10	QPSK	50	0	19.49	19.54	19.50	21
10	16QAM	1	0	19.73	19.70	19.57	
10	16QAM	1	25	19.48	19.55	19.55	
10	16QAM	1	49	19.53	19.48	19.59	20
10	16QAM	25	0	18.51	18.53	18.64	
10	16QAM	25	12	18.49	18.54	18.51	
10	16QAM	25	25	18.61	18.58	18.60	20
10	16QAM	50	0	18.65	18.59	18.56	
10	64QAM	1	0	18.65	18.60	18.50	
10	64QAM	1	25	18.71	18.66	18.64	20
10	64QAM	1	49	18.77	18.79	18.73	
10	64QAM	25	0	18.49	18.69	18.53	19
10	64QAM	25	12	18.56	18.62	18.64	
10	64QAM	25	25	18.51	18.58	18.52	
10	64QAM	50	0	18.55	18.53	18.56	16.5
10	256QAM	1	0	15.03	14.98	14.88	
10	256QAM	1	25	15.09	15.04	15.02	
10	256QAM	1	49	15.15	15.17	15.11	16.5
10	256QAM	25	0	14.87	15.07	14.91	
10	256QAM	25	12	14.94	15.00	15.02	
10	256QAM	25	25	14.89	14.96	14.90	
10	256QAM	50	0	14.93	14.91	14.94	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	20.41	20.43	20.34	22
5	QPSK	1	12	20.34	20.37	20.38	
5	QPSK	1	24	20.24	20.39	20.41	
5	QPSK	12	0	19.40	19.45	19.44	21
5	QPSK	12	7	19.42	19.33	19.40	
5	QPSK	12	13	19.42	19.37	19.34	
5	QPSK	25	0	19.36	19.35	19.41	21
5	16QAM	1	0	19.60	19.57	19.44	
5	16QAM	1	12	19.35	19.42	19.42	
5	16QAM	1	24	19.40	19.35	19.46	20
5	16QAM	12	0	18.38	18.40	18.51	
5	16QAM	12	7	18.36	18.41	18.38	
5	16QAM	12	13	18.48	18.45	18.47	20
5	16QAM	25	0	18.52	18.46	18.43	
5	64QAM	1	0	18.52	18.47	18.37	
5	64QAM	1	12	18.58	18.53	18.51	20
5	64QAM	1	24	18.64	18.66	18.60	
5	64QAM	12	0	18.36	18.56	18.40	19
5	64QAM	12	7	18.43	18.49	18.51	
5	64QAM	12	13	18.38	18.45	18.39	
5	64QAM	25	0	18.42	18.40	18.43	16.5
5	256QAM	1	0	14.99	14.94	14.84	
5	256QAM	1	12	15.05	15.00	14.98	16.5
5	256QAM	1	24	15.11	15.13	15.07	
5	256QAM	12	0	14.83	15.03	14.87	
5	256QAM	12	7	14.90	14.96	14.98	16.5
5	256QAM	12	13	14.85	14.92	14.86	
5	256QAM	25	0	14.89	14.87	14.90	
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	20.32	20.34	20.25	22
3	QPSK	1	8	20.25	20.28	20.29	
3	QPSK	1	14	20.15	20.30	20.32	
3	QPSK	8	0	19.31	19.36	19.35	21
3	QPSK	8	4	19.33	19.24	19.31	
3	QPSK	8	7	19.33	19.28	19.25	
3	QPSK	15	0	19.27	19.26	19.32	21
3	16QAM	1	0	19.51	19.48	19.35	
3	16QAM	1	8	19.26	19.33	19.33	
3	16QAM	1	14	19.31	19.26	19.37	20
3	16QAM	8	0	18.29	18.31	18.42	
3	16QAM	8	4	18.27	18.32	18.29	
3	16QAM	8	7	18.39	18.36	18.38	20
3	16QAM	15	0	18.43	18.37	18.34	
3	64QAM	1	0	18.43	18.38	18.28	
3	64QAM	1	8	18.49	18.44	18.42	20
3	64QAM	1	14	18.55	18.57	18.51	
3	64QAM	8	0	18.27	18.47	18.31	19
3	64QAM	8	4	18.34	18.40	18.42	
3	64QAM	8	7	18.29	18.36	18.30	
3	64QAM	15	0	18.33	18.31	18.34	16.5
3	256QAM	1	0	14.90	14.85	14.75	
3	256QAM	1	8	14.96	14.91	14.89	
3	256QAM	1	14	15.02	15.04	14.98	16.5
3	256QAM	8	0	14.74	14.94	14.78	
3	256QAM	8	4	14.81	14.87	14.80	
3	256QAM	8	7	14.76	14.83	14.77	16.5
3	256QAM	15	0	14.80	14.78	14.81	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	20.24	20.26	20.17	22
1.4	QPSK	1	3	20.17	20.20	20.21	
1.4	QPSK	1	5	20.07	20.22	20.24	
1.4	QPSK	3	0	19.23	19.28	19.27	21
1.4	QPSK	3	1	19.25	19.16	19.23	
1.4	QPSK	3	3	19.25	19.20	19.17	
1.4	QPSK	6	0	19.19	19.18	19.24	21
1.4	16QAM	1	0	19.43	19.40	19.27	
1.4	16QAM	1	3	19.18	19.25	19.25	
1.4	16QAM	1	5	19.23	19.18	19.29	21
1.4	16QAM	3	0	18.21	18.23	18.34	
1.4	16QAM	3	1	18.19	18.24	18.21	
1.4	16QAM	3	3	18.31	18.28	18.30	20
1.4	16QAM	6	0	18.35	18.29	18.26	
1.4	64QAM	1	0	18.35	18.30	18.20	
1.4	64QAM	1	3	18.41	18.36	18.34	



5	64QAM	1	24	8.21	8.08	7.98	9
5	64QAM	12	0	8.18	8.22	8.26	
5	64QAM	12	7	8.18	8.31	8.10	
5	64QAM	12	13	8.15	8.30	8.24	
5	64QAM	25	0	8.23	8.22	8.12	6.5
5	256QAM	1	0	4.75	4.79	4.83	
5	256QAM	1	12	4.79	4.85	4.60	
5	256QAM	1	24	4.74	4.61	4.51	
5	256QAM	12	0	4.71	4.75	4.79	6.5
5	256QAM	12	7	4.71	4.94	4.63	
5	256QAM	12	13	4.68	4.83	4.77	
5	256QAM	25	0	4.76	4.75	4.65	

1.4	64QAM	1	5	18.47	18.49	18.43	20
1.4	64QAM	3	0	18.19	18.39	18.23	
1.4	64QAM	3	1	18.26	18.32	18.34	
1.4	64QAM	3	3	18.21	18.28	18.22	
1.4	64QAM	6	0	18.25	18.23	18.26	19
1.4	256QAM	1	0	14.82	14.77	14.67	16.5
1.4	256QAM	1	3	14.88	14.83	14.81	
1.4	256QAM	1	5	14.94	14.96	14.90	
1.4	256QAM	3	0	14.66	14.86	14.70	
1.4	256QAM	3	1	14.73	14.79	14.81	
1.4	256QAM	3	3	14.68	14.75	14.69	
1.4	256QAM	6	0	14.72	14.70	14.73	
1.4	256QAM	6	0	14.72	14.70	14.73	16.5

Band 13(700MHz Band) (dBm) Part 27F_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0		20.58		22
10	QPSK	1	25		20.51		
10	QPSK	1	49		20.41		
10	QPSK	25	0		19.59		21
10	QPSK	25	12		19.51		
10	QPSK	25	25		19.52		
10	QPSK	50	0		19.53		21
10	16QAM	1	0		19.68		
10	16QAM	1	25		19.65		
10	16QAM	1	49		19.76		20
10	16QAM	25	0		18.62		
10	16QAM	25	12		18.62		
10	16QAM	25	25		18.54		20
10	16QAM	50	0		18.58		
10	64QAM	1	0		18.70		
10	64QAM	1	25		18.79		20
10	64QAM	1	49		18.73		
10	64QAM	25	0		18.60		
10	64QAM	25	12		18.57		19
10	64QAM	25	25		18.61		
10	64QAM	50	0		18.52		
10	256QAM	1	0		15.08		16.5
10	256QAM	1	25		15.17		
10	256QAM	1	49		15.11		
10	256QAM	25	0		14.98		16.5
10	256QAM	25	12		14.95		
10	256QAM	25	25		14.99		
10	256QAM	50	0		14.90		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	20.38	20.39	20.36	22
5	QPSK	1	12	20.33	20.29	20.35	
5	QPSK	1	24	20.20	20.17	20.26	
5	QPSK	12	0	19.43	19.39	19.40	21
5	QPSK	12	7	19.38	19.35	19.38	
5	QPSK	12	13	19.37	19.35	19.29	
5	QPSK	25	0	19.29	19.35	19.29	21
5	16QAM	1	0	19.52	19.53	19.52	
5	16QAM	1	12	19.43	19.49	19.43	
5	16QAM	1	24	19.56	19.53	19.54	21
5	16QAM	12	0	18.43	18.44	18.46	
5	16QAM	12	7	18.39	18.40	18.42	
5	16QAM	12	13	18.32	18.35	18.38	20
5	16QAM	25	0	18.41	18.34	18.41	
5	64QAM	1	0	18.54	18.48	18.54	
5	64QAM	1	12	18.56	18.61	18.63	20
5	64QAM	1	24	18.49	18.52	18.49	
5	64QAM	12	0	18.45	18.45	18.36	
5	64QAM	12	7	18.38	18.33	18.40	19
5	64QAM	12	13	18.45	18.43	18.40	
5	64QAM	25	0	18.32	18.35	18.34	
5	256QAM	1	0	14.98	15.00	15.06	16.5
5	256QAM	1	12	15.12	15.10	15.11	
5	256QAM	1	24	15.04	15.01	15.01	
5	256QAM	12	0	14.90	14.92	14.88	16.5
5	256QAM	12	7	14.89	14.93	14.91	
5	256QAM	12	13	14.95	14.97	14.95	
5	256QAM	25	0	14.86	14.89	14.86	

Band 14 (700MHz Band) (dBm)_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23330			
Frequency (MHz)				793			
10	QPSK	1	0		20.51		22
10	QPSK	1	25		20.44		
10	QPSK	1	49		20.34		
10	QPSK	25	0		19.52		21
10	QPSK	25	12		19.44		
10	QPSK	25	25		19.45		
10	QPSK	50	0		19.46		21
10	16QAM	1	0		19.61		
10	16QAM	1	25		19.58		
10	16QAM	1	49		19.69		20
10	16QAM	25	0		18.55		
10	16QAM	25	12		18.55		
10	16QAM	25	25		18.47		20
10	16QAM	50	0		18.51		
10	64QAM	1	0		18.63		
10	64QAM	1	25		18.72		19
10	64QAM	1	49		18.66		
10	64QAM	25	0		18.53		
10	64QAM	25	12		18.50		16.5
10	64QAM	25	25		18.54		
10	64QAM	50	0		18.45		
10	256QAM	1	0		15.01		16.5
10	256QAM	1	25		15.10		
10	256QAM	1	49		15.04		
10	256QAM	25	0		14.91		16.5
10	256QAM	25	12		14.88		
10	256QAM	25	25		14.92		
10	256QAM	50	0		14.83		
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	20.31	20.32	20.29	22
5	QPSK	1	12	20.26	20.22	20.28	
5	QPSK	1	24	20.13	20.10	20.19	
5	QPSK	12	0	19.36	19.32	19.33	21
5	QPSK	12	7	19.31	19.28	19.31	
5	QPSK	12	13	19.30	19.28	19.22	
5	QPSK	25	0	19.22	19.28	19.22	21
5	16QAM	1	0	19.45	19.46	19.45	
5	16QAM	1	12	19.36	19.42	19.36	
5	16QAM	1	24	19.49	19.46	19.47	20
5	16QAM	12	0	18.36	18.37	18.39	
5	16QAM	12	7	18.32	18.33	18.35	
5	16QAM	12	13	18.25	18.28	18.31	20
5	16QAM	25	0	18.34	18.27	18.34	
5	64QAM	1	0	18.47	18.41	18.47	
5	64QAM	1	12	18.49	18.54	18.56	19
5	64QAM	1	24	18.42	18.45	18.42	
5	64QAM	12	0	18.38	18.38	18.29	
5	64QAM	12	7	18.31	18.26	18.33	16.5
5	64QAM	12	13	18.38	18.36	18.33	
5	64QAM	25	0	18.25	18.28	18.27	
5	256QAM	1	0	14.91	14.93	14.99	16.5
5	256QAM	1	12	15.05	15.03	15.04	
5	256QAM	1	24	14.97	14.94	14.94	
5	256QAM	12	0	14.83	14.85	14.81	16.5
5	256QAM	12	7	14.82	14.86	14.84	
5	256QAM	12	13	14.88	14.90	14.88	
5	256QAM	25	0	14.79	14.82	14.79	

Band 17 (700MHz Band) (dBm) Part 27H(only on channel required)_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	20.53	20.55	20.40	22
10	QPSK	1	25	20.52	20.54	20.50	
10	QPSK	1	49	20.43	20.51	20.53	
10	QPSK	25	0	19.63	19.64	19.62	21
10	QPSK	25	12	19.60	19.59	19.59	
10	QPSK	25	25	19.61	19.55	19.56	
10	QPSK	50	0	19.62	19.60	19.60	21
10	16QAM	1	0	19.74	19.90	19.57	
10	16QAM	1	25	19.56	19.62	19.67	
10	16QAM	1	49	19.70	19.76	19.78	20
10	16QAM	25	0	18.63	18.67	18.55	
10	16QAM	25	12	18.69	18.71	18.70	
10	16QAM	25	25	18.71	18.65	18.64	20
10	16QAM	50	0	18.56	18.60	18.61	
10	64QAM	1	0	18.61	18.80	18.69	
10	64QAM	1	25	18.84	18.88	18.75	20
10	64QAM	1	49	18.69	18.68	18.66	
10	64QAM	25	0	18.57	18.69	18.58	
10	64QAM	25	12	18.56	18.63	18.60	19
10	64QAM	25	25	18.64	18.67	18.63	
10	64QAM	50	0	18.60	18.56	18.61	
10	256QAM	1	0	15.17	15.36	15.25	17
10	256QAM	1	25	15.40	15.44	15.31	
10	256QAM	1	49	15.25	15.24	15.22	
10	256QAM	25	0	15.13	15.25	15.14	17
10	256QAM	25	12	15.12	15.19	15.16	
10	256QAM	25	25	15.20	15.23	15.19	
10	256QAM	50	0	15.16	15.12	15.17	
Channel				23755	23790	23825	
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	20.44	20.46	20.31	22
5	QPSK	1	12	20.43	20.45	20.41	
5	QPSK	1	24	20.34	20.42	20.44	
5	QPSK	12	0	19.54	19.55	19.53	21
5	QPSK	12	7	19.51	19.50	19.50	
5	QPSK	12	13	19.52	19.46	19.47	
5	QPSK	25	0	19.53	19.51	19.51	21
5	16QAM	1	0	19.65	19.81	19.48	
5	16QAM	1	12	19.47	19.53	19.58	
5	16QAM	1	24	19.61	19.67	19.69	20
5	16QAM	12	0	18.54	18.58	18.46	
5	16QAM	12	7	18.60	18.62	18.61	
5	16QAM	12	13	18.62	18.56	18.55	20
5	16QAM	25	0	18.47	18.51	18.52	
5	64QAM	1	0	18.52	18.71	18.60	
5	64QAM	1	12	18.75	18.79	18.66	20
5	64QAM	1	24	18.60	18.59	18.57	
5	64QAM	12	0	18.48	18.60	18.49	
5	64QAM	12	7	18.47	18.54	18.51	19
5	64QAM	12	13	18.55	18.58	18.54	
5	64QAM	25	0	18.51	18.47	18.52	
5	256QAM	1	0	15.08	15.27	15.16	17
5	256QAM	1	12	15.31	15.35	15.22	
5	256QAM	1	24	15.16	15.15	15.13	
5	256QAM	12	0	15.04	15.16	15.05	17
5	256QAM	12	7	15.03	15.10	15.07	
5	256QAM	12	13	15.11	15.14	15.10	
5	256QAM	25	0	15.07	15.03	15.08	

Band 18 (835MHz Band) (dBm)_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					23925		
Frequency (MHz)					822.5		
15	QPSK	1	0		20.31		22
15	QPSK	1	37		20.26		
15	QPSK	1	74		20.13		
15	QPSK	36	0		19.42		21
15	QPSK	36	20		19.29		
15	QPSK	36	39		19.31		
15	QPSK	75	0		19.36		21
15	16QAM	1	0		19.52		
15	16QAM	1	37		19.32		
15	16QAM	1	74		19.36		20
15	16QAM	36	0		18.40		
15	16QAM	36	20		18.37		
15	16QAM	36	39		18.46		20
15	16QAM	75	0		18.35		
15	64QAM	1	0		18.42		
15	64QAM	1	25		18.36		20
15	64QAM	1	49		18.54		
15	64QAM	25	0		18.38		
15	64QAM	25	12		18.29		19
15	64QAM	25	25		18.38		
15	64QAM	50	0		18.36		
15	256QAM	1	0		15.47		17
15	256QAM	1	25		15.41		
15	256QAM	1	49		15.59		
15	256QAM	25	0		15.48		17
15	256QAM	25	12		15.39		
15	256QAM	25	25		15.48		
15	256QAM	50	0		15.46		
Channel				23900	23925	23950	
Frequency (MHz)				820	822.5	825	
10	QPSK	1	0	20.26	20.35	20.33	22
10	QPSK	1	25	20.25	20.34	20.33	
10	QPSK	1	49	20.22	20.19	20.23	
10	QPSK	25	0	19.33	19.42	19.27	21
10	QPSK	25	12	19.40	19.35	19.41	
10	QPSK	25	25	19.27	19.28	19.33	
10	QPSK	50	0	19.29	19.25	19.36	21
10	16QAM	1	0	19.47	19.49	19.44	
10	16QAM	1	25	19.32	19.29	19.32	
10	16QAM	1	49	19.30	19.33	19.33	20
10	16QAM	25	0	18.30	18.37	18.31	
10	16QAM	25	12	18.38	18.35	18.39	
10	16QAM	25	25	18.40	18.41	18.47	20
10	16QAM	50	0	18.37	18.32	18.33	
10	64QAM	1	0	18.44	18.47	18.34	
10	64QAM	1	25	18.43	18.38	18.35	20
10	64QAM	1	49	18.51	18.58	18.48	
10	64QAM	25	0	18.39	18.36	18.33	
10	64QAM	25	12	18.31	18.29	18.26	19
10	64QAM	25	25	18.28	18.39	18.32	
10	64QAM	50	0	18.22	18.31	18.33	
10	256QAM	1	0	15.42	15.40	15.26	17
10	256QAM	1	25	15.43	15.32	15.23	
10	256QAM	1	49	15.52	15.57	15.50	
10	256QAM	25	0	15.43	15.37	15.36	17
10	256QAM	25	12	15.34	15.34	15.34	
10	256QAM	25	25	15.34	15.38	15.42	
10	256QAM	50	0	15.24	15.45	15.37	
Channel				23875	23925	23975	
Frequency (MHz)				817.5	822.5	827.5	
5	QPSK	1	0	20.19	20.28	20.26	22
5	QPSK	1	12	20.18	20.27	20.26	
5	QPSK	1	24	20.15	20.12	20.16	
5	QPSK	12	0	19.26	19.35	19.20	21
5	QPSK	12	7	19.33	19.28	19.34	
5	QPSK	12	13	19.20	19.21	19.26	
5	QPSK	25	0	19.22	19.18	19.29	21
5	16QAM	1	0	19.40	19.42	19.37	
5	16QAM	1	12	19.25	19.22	19.25	
5	16QAM	1	24	19.23	19.26	19.26	20
5	16QAM	12	0	18.23	18.30	18.24	
5	16QAM	12	7	18.31	18.28	18.32	
5	16QAM	12	13	18.33	18.34	18.40	20
5	16QAM	25	0	18.30	18.25	18.26	
5	64QAM	1	0	18.37	18.40	18.27	
5	64QAM	1	12	18.36	18.31	18.28	20
5	64QAM	1	24	18.44	18.51	18.41	
5	64QAM	12	0	18.32	18.29	18.26	
5	64QAM	12	7	18.24	18.22	18.19	19
5	64QAM	12	13	18.21	18.32	18.25	
5	64QAM	25	0	18.15	18.24	18.26	
5	256QAM	1	0	15.42	15.40	15.26	17
5	256QAM	1	12	15.43	15.32	15.23	
5	256QAM	1	24	15.52	15.57	15.50	
5	256QAM	12	0	15.43	15.37	15.36	17
5	256QAM	12	7	15.34	15.34	15.34	
5	256QAM	12	13	15.34	15.38	15.42	
5	256QAM	25	0	15.24	15.45	15.37	

Band 19 (835MHz Band) (dBm)_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					24075		
Frequency (MHz)					837.5		
15	QPSK	1	0		20.35		22
15	QPSK	1	37		20.32		
15	QPSK	1	74		20.30		
15	QPSK	36	0		19.39		21
15	QPSK	36	20		19.34		
15	QPSK	36	39		19.30		
15	QPSK	75	0		19.37		21
15	16QAM	1	0		19.12		
15	16QAM	1	37		19.49		
15	16QAM	1	74		19.44		20
15	16QAM	36	0		18.38		
15	16QAM	36	20		18.45		
15	16QAM	36	39		18.40		20
15	16QAM	75	0		18.36		
15	64QAM	1	0		18.33		
15	64QAM	1	25		18.31		20
15	64QAM	1	49		18.47		
15	64QAM	25	0		18.35		
15	64QAM	25	12		18.43		19
15	64QAM	25	25		18.42		
15	64QAM	50	0		18.37		
15	256QAM	1	0		15.32		17
15	256QAM	1	25		15.30		
15	256QAM	1	49		15.46		
15	256QAM	25	0		15.34		17
15	256QAM	25	12		15.42		
15	256QAM	25	25		15.41		
15	256QAM	50	0		15.36		
Channel				24050	24075	24100	Tune-up limit (dBm)
Frequency (MHz)				835	837.5	840	
10	QPSK	1	0	20.11	20.23	20.04	22
10	QPSK	1	25	20.05	20.12	20.08	
10	QPSK	1	49	20.18	20.14	20.19	
10	QPSK	25	0	19.17	19.07	19.27	21
10	QPSK	25	12	19.20	19.21	19.18	
10	QPSK	25	25	19.22	19.27	19.21	
10	QPSK	50	0	19.06	19.19	19.19	21
10	16QAM	1	0	19.19	18.98	19.21	
10	16QAM	1	25	19.26	19.39	19.18	
10	16QAM	1	49	19.31	19.26	19.15	20
10	16QAM	25	0	18.29	18.25	18.32	
10	16QAM	25	12	18.17	18.30	18.33	
10	16QAM	25	25	18.25	18.30	18.28	20
10	16QAM	50	0	18.14	18.17	18.18	
10	64QAM	1	0	18.21	18.15	18.34	
10	64QAM	1	25	18.18	18.13	18.20	20
10	64QAM	1	49	18.27	18.30	18.06	
10	64QAM	25	0	18.18	18.15	18.19	
10	64QAM	25	12	18.29	18.27	18.29	19
10	64QAM	25	25	18.24	18.26	18.28	
10	64QAM	50	0	18.14	18.19	18.25	
10	256QAM	1	0	15.29	15.26	15.40	17
10	256QAM	1	25	15.22	15.24	15.30	
10	256QAM	1	49	15.38	15.44	15.21	
10	256QAM	25	0	15.33	15.25	15.30	17
10	256QAM	25	12	15.31	15.38	15.34	
10	256QAM	25	25	15.32	15.32	15.41	
10	256QAM	50	0	15.21	15.33	15.32	
Channel				24025	24075	24125	Tune-up limit (dBm)
Frequency (MHz)				832.5	837.5	842.5	
5	QPSK	1	0	20.04	20.16	19.97	22
5	QPSK	1	12	19.98	20.05	20.01	
5	QPSK	1	24	20.11	20.07	20.12	
5	QPSK	12	0	19.10	19.00	19.20	21
5	QPSK	12	7	19.13	19.14	19.11	
5	QPSK	12	13	19.15	19.20	19.14	
5	QPSK	25	0	18.99	19.12	19.12	21
5	16QAM	1	0	19.12	18.91	19.14	
5	16QAM	1	12	19.19	19.32	19.11	
5	16QAM	1	24	19.24	19.19	19.08	20
5	16QAM	12	0	18.22	18.18	18.25	
5	16QAM	12	7	18.10	18.23	18.26	
5	16QAM	12	13	18.18	18.23	18.21	20
5	16QAM	25	0	18.07	18.10	18.11	
5	64QAM	1	0	18.14	18.08	18.27	
5	64QAM	1	12	18.11	18.06	18.13	20
5	64QAM	1	24	18.20	18.23	17.99	
5	64QAM	12	0	18.11	18.08	18.12	
5	64QAM	12	7	18.22	18.20	18.22	19
5	64QAM	12	13	18.17	18.19	18.21	
5	64QAM	25	0	18.07	18.12	18.18	
5	256QAM	1	0	15.22	15.19	15.33	17
5	256QAM	1	12	15.15	15.17	15.23	
5	256QAM	1	24	15.31	15.37	15.14	
5	256QAM	12	0	15.26	15.18	15.23	17
5	256QAM	12	7	15.24	15.31	15.27	
5	256QAM	12	13	15.25	15.25	15.34	
5	256QAM	25	0	15.14	15.26	15.25	

Band 25 (1900MHz Band) (dBm) Part 24E_Ant 4							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26140	26365	26590	19
Frequency (MHz)				1860	1882.5	1905	
20	QPSK	1	0	17.42	17.48	17.40	18
20	QPSK	1	49	17.29	17.26	17.23	
20	QPSK	1	99	17.27	17.18	17.16	
20	QPSK	50	0	16.44	16.45	16.42	17
20	QPSK	50	24	16.41	16.37	16.39	
20	QPSK	50	50	16.40	16.31	16.33	
20	QPSK	100	0	16.39	16.41	16.39	16
20	16QAM	1	0	16.32	16.32	16.34	
20	16QAM	1	49	16.41	16.38	16.37	
20	16QAM	1	99	16.23	16.35	16.36	15
20	16QAM	50	0	15.44	15.29	15.30	
20	16QAM	50	24	15.34	15.33	15.23	
20	16QAM	50	50	15.29	15.27	15.28	14
20	16QAM	100	0	15.28	15.37	15.27	
20	64QAM	1	0	15.35	15.36	15.29	
20	64QAM	1	49	15.30	15.32	15.39	13
20	64QAM	1	99	15.37	15.34	15.32	
20	64QAM	50	0	15.33	15.28	15.31	
20	64QAM	50	24	15.33	15.39	15.30	12
20	64QAM	50	50	15.24	15.30	15.24	
20	64QAM	100	0	15.39	15.38	15.18	
20	256QAM	1	0	11.42	11.43	11.36	11
20	256QAM	1	49	11.37	11.39	11.46	
20	256QAM	1	99	11.44	11.41	11.39	
20	256QAM	50	0	11.40	11.35	11.38	10
20	256QAM	50	24	11.40	11.46	11.37	
20	256QAM	50	50	11.31	11.37	11.31	
20	256QAM	100	0	11.46	11.45	11.25	9
Channel				26115	26365	26615	
Frequency (MHz)				1857.5	1882.5	1907.5	19
15	QPSK	1	0	17.28	17.27	17.25	
15	QPSK	1	37	17.21	17.22	17.19	18
15	QPSK	1	74	17.22	17.12	17.06	
15	QPSK	36	0	16.45	16.21	16.32	
15	QPSK	36	20	16.36	16.29	16.37	17
15	QPSK	36	39	16.30	16.25	16.32	
15	QPSK	75	0	16.30	16.30	16.35	
15	16QAM	1	0	16.27	16.21	16.22	16
15	16QAM	1	37	16.36	16.26	16.30	
15	16QAM	1	74	16.18	16.32	16.25	
15	16QAM	36	0	15.38	15.28	15.23	15
15	16QAM	36	20	15.24	15.22	15.22	
15	16QAM	36	39	15.21	15.23	15.24	
15	16QAM	75	0	15.22	15.35	15.25	14
15	64QAM	1	0	15.23	15.26	15.22	
15	64QAM	1	37	15.24	15.20	15.36	
15	64QAM	1	74	15.25	15.29	15.27	13
15	64QAM	36	0	15.29	15.24	15.23	
15	64QAM	36	20	15.28	15.29	15.29	
15	64QAM	36	39	15.17	15.26	15.20	12
15	64QAM	75	0	15.36	15.33	15.08	
15	256QAM	1	0	11.35	11.39	11.32	
15	256QAM	1	37	11.31	11.29	11.43	11
15	256QAM	1	74	11.42	11.34	11.29	
15	256QAM	36	0	11.33	11.34	11.33	
15	256QAM	36	20	11.32	11.40	11.29	10
15	256QAM	36	39	11.29	11.35	11.20	
15	256QAM	75	0	11.39	11.37	11.24	
Channel				26090	26365	26640	9
Frequency (MHz)				1855	1882.5	1910	
10	QPSK	1	0	17.27	17.25	17.25	19
10	QPSK	1	25	17.25	17.17	17.14	
10	QPSK	1	49	17.25	17.08	17.13	
10	QPSK	25	0	16.44	16.22	16.23	18
10	QPSK	25	12	16.38	16.27	16.31	
10	QPSK	25	25	16.31	16.27	16.28	
10	QPSK	50	0	16.31	16.35	16.37	17
10	16QAM	1	0	16.22	16.21	16.33	
10	16QAM	1	25	16.29	16.35	16.26	
10	16QAM	1	49	16.22	16.26	16.26	16
10	16QAM	25	0	15.38	15.27	15.24	
10	16QAM	25	12	15.22	15.28	15.15	
10	16QAM	25	25	15.25	15.24	15.16	15
10	16QAM	50	0	15.25	15.29	15.18	
10	64QAM	1	0	15.25	15.29	15.20	
10	64QAM	1	25	15.19	15.22	15.28	14
10	64QAM	1	49	15.31	15.23	15.27	
10	64QAM	25	0	15.26	15.19	15.19	
10	64QAM	25	12	15.21	15.36	15.24	13
10	64QAM	25	25	15.20	15.21	15.18	
10	64QAM	50	0	15.35	15.27	15.16	
10	256QAM	1	0	11.36	11.36	11.24	12
10	256QAM	1	25	11.33	11.29	11.41	
10	256QAM	1	49	11.42	11.39	11.38	
10	256QAM	25	0	11.36	11.34	11.26	11
10	256QAM	25	12	11.35	11.37	11.31	
10	256QAM	25	25	11.28	11.36	11.19	
10	256QAM	50	0	11.42	11.37	11.18	10
Channel				26065	26365	26665	
Frequency (MHz)				1852.5	1882.5	1912.5	9
5	QPSK	1	0	17.24	17.27	17.24	
5	QPSK	1	12	17.18	17.14	17.15	19
5	QPSK	1	24	17.20	17.09	17.10	
5	QPSK	12	0	16.44	16.20	16.30	
5	QPSK	12	7	16.37	16.31	16.29	18
5	QPSK	12	13	16.36	16.21	16.25	
5	QPSK	25	0	16.38	16.26	16.28	
5	16QAM	1	0	16.21	16.24	16.25	17
5	16QAM	1	12	16.35	16.37	16.35	
5	16QAM	1	24	16.17	16.24	16.29	
5	16QAM	12	0	15.42	15.18	15.18	16
5	16QAM	12	7	15.24	15.28	15.11	
5	16QAM	12	13	15.21	15.17	15.22	
5	16QAM	25	0	15.24	15.27	15.16	15
5	64QAM	1	0	15.25	15.30	15.28	
5	64QAM	1	12	15.26	15.23	15.36	

Band 26 for FCC (dBm) (only on channel required)_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	20.35	20.36	20.31	22
15	QPSK	1	37	20.33	20.27	20.34	
15	QPSK	1	74	20.32	20.34	20.01	
15	QPSK	36	0	19.44	19.47	19.38	
15	QPSK	36	20	19.40	19.44	19.30	21
15	QPSK	36	39	19.45	19.46	19.40	
15	QPSK	75	0	19.36	19.42	19.33	
15	16QAM	1	0	19.44	19.28	19.42	
15	16QAM	1	37	19.28	19.31	19.29	21
15	16QAM	1	74	19.15	19.25	19.20	
15	16QAM	36	0	18.41	18.42	18.35	
15	16QAM	36	20	18.14	18.35	18.34	
15	16QAM	36	39	18.40	18.43	18.41	20
15	16QAM	75	0	18.46	18.45	18.39	
15	64QAM	1	0	18.31	18.43	18.44	
15	64QAM	1	37	18.47	18.43	18.40	
15	64QAM	1	74	18.30	18.28	18.16	20
15	64QAM	36	0	18.44	18.34	18.38	
15	64QAM	36	20	18.35	18.37	18.26	
15	64QAM	36	39	18.39	18.41	18.37	
15	64QAM	75	0	18.35	18.45	18.30	19
15	256QAM	1	0	15.12	15.21	15.22	
15	256QAM	1	37	15.28	15.21	15.18	
15	256QAM	1	74	15.11	15.06	14.94	
15	256QAM	36	0	15.25	15.12	15.16	16.5
15	256QAM	36	20	15.16	15.15	15.04	
15	256QAM	36	39	15.20	15.19	15.15	
15	256QAM	75	0	15.16	15.23	15.08	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	20.26	20.27	20.22	22
10	QPSK	1	25	20.24	20.18	20.25	
10	QPSK	1	49	20.23	20.25	19.92	
10	QPSK	25	0	19.35	19.38	19.29	
10	QPSK	25	12	19.31	19.35	19.21	21
10	QPSK	25	25	19.36	19.37	19.31	
10	QPSK	50	0	19.33	19.27	19.24	
10	16QAM	1	0	19.35	19.19	19.33	
10	16QAM	1	25	19.19	19.22	19.20	21
10	16QAM	1	49	19.06	19.16	19.11	
10	16QAM	25	0	18.32	18.33	18.26	
10	16QAM	25	12	18.05	18.26	18.25	
10	16QAM	25	25	18.31	18.34	18.32	20
10	16QAM	50	0	18.37	18.36	18.30	
10	64QAM	1	0	18.22	18.34	18.35	
10	64QAM	1	25	18.38	18.34	18.31	
10	64QAM	1	49	18.21	18.19	18.07	20
10	64QAM	25	0	18.35	18.25	18.29	
10	64QAM	25	12	18.26	18.28	18.17	
10	64QAM	25	25	18.30	18.32	18.28	
10	64QAM	50	0	18.26	18.36	18.21	19
10	256QAM	1	0	15.12	15.21	15.22	
10	256QAM	1	25	15.28	15.21	15.18	
10	256QAM	1	49	15.11	15.06	14.94	
10	256QAM	25	0	15.25	15.12	15.16	16.5
10	256QAM	25	12	15.16	15.15	15.04	
10	256QAM	25	25	15.20	15.19	15.15	
10	256QAM	50	0	15.16	15.23	15.08	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	20.22	20.23	20.16	22
5	QPSK	1	12	20.20	20.14	20.21	
5	QPSK	1	24	20.19	20.21	19.88	
5	QPSK	12	0	19.31	19.34	19.25	
5	QPSK	12	7	19.27	19.31	19.17	21
5	QPSK	12	13	19.32	19.33	19.27	
5	QPSK	25	0	19.29	19.23	19.20	
5	16QAM	1	0	19.31	19.15	19.29	
5	16QAM	1	12	19.15	19.18	19.16	21
5	16QAM	1	24	19.02	19.12	19.07	
5	16QAM	12	0	18.28	18.29	18.22	
5	16QAM	12	7	18.01	18.22	18.21	
5	16QAM	12	13	18.27	18.30	18.28	20
5	16QAM	25	0	18.33	18.32	18.26	
5	64QAM	1	0	18.18	18.30	18.31	
5	64QAM	1	12	18.34	18.30	18.27	
5	64QAM	1	24	18.17	18.15	18.03	20
5	64QAM	12	0	18.31	18.21	18.25	
5	64QAM	12	7	18.22	18.24	18.13	
5	64QAM	12	13	18.26	18.28	18.24	
5	64QAM	25	0	18.22	18.32	18.17	19
5	256QAM	1	0	15.08	15.17	15.18	
5	256QAM	1	12	15.24	15.17	15.14	
5	256QAM	1	24	15.07	15.02	14.90	
5	256QAM	12	0	15.21	15.08	15.12	16.5
5	256QAM	12	7	15.12	15.11	15.00	
5	256QAM	12	13	15.16	15.15	15.11	
5	256QAM	25	0	15.12	15.19	15.04	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	20.14	20.15	20.10	22
3	QPSK	1	8	20.12	20.06	20.13	
3	QPSK	1	14	20.11	20.13	19.80	
3	QPSK	8	0	19.23	19.26	19.17	
3	QPSK	8	4	19.19	19.23	19.09	21
3	QPSK	8	7	19.24	19.25	19.19	
3	QPSK	15	0	19.21	19.15	19.12	
3	16QAM	1	0	19.23	19.07	19.21	
3	16QAM	1	8	19.07	19.10	19.08	21
3	16QAM	1	14	18.94	19.04	18.99	
3	16QAM	8	0	18.20	18.21	18.14	
3	16QAM	8	4	17.93	18.14	18.13	
3	16QAM	8	7	18.19	18.22	18.20	20
3	16QAM	15	0	18.25	18.24	18.18	
3	64QAM	1	0	18.10	18.22	18.23	
3	64QAM	1	8	18.26	18.22	18.19	

5	64QAM	1	24	15.35	15.25	15.22	16
5	64QAM	12	0	15.29	15.21	15.23	
5	64QAM	12	7	15.28	15.27	15.26	
5	64QAM	12	13	15.22	15.24	15.18	
5	64QAM	25	0	15.33	15.30	15.10	13
5	256QAM	1	0	11.35	11.35	11.33	
5	256QAM	1	12	11.30	11.38	11.40	
5	256QAM	1	24	11.33	11.38	11.36	
5	256QAM	12	0	11.28	11.24	11.32	13
5	256QAM	12	7	11.36	11.39	11.25	
5	256QAM	12	13	11.20	11.34	11.29	
5	256QAM	25	0	11.43	11.37	11.17	
Channel				26065	26365	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1882.5	1913.5	
3	QPSK	1	0	17.27	17.28	17.16	19
3	QPSK	1	8	17.17	17.19	17.17	
3	QPSK	1	14	17.21	17.16	17.14	
3	QPSK	8	0	16.39	16.23	16.23	
3	QPSK	8	4	16.30	16.32	16.33	18
3	QPSK	8	7	16.32	16.19	16.26	
3	QPSK	15	0	16.32	16.26	16.38	
3	16QAM	1	0	16.28	16.28	16.33	
3	16QAM	1	8	16.39	16.32	16.32	18
3	16QAM	1	14	16.15	16.31	16.33	
3	16QAM	8	0	15.33	15.27	15.25	
3	16QAM	8	4	15.28	15.31	15.12	
3	16QAM	8	7	15.17	15.15	15.27	17
3	16QAM	15	0	15.19	15.31	15.18	
3	64QAM	1	0	15.24	15.29	15.26	
3	64QAM	1	8	15.29	15.26	15.35	
3	64QAM	1	14	15.35	15.28	15.22	17
3	64QAM	8	0	15.28	15.22	15.29	
3	64QAM	8	4	15.30	15.36	15.27	
3	64QAM	8	7	15.21	15.20	15.20	
3	64QAM	15	0	15.38	15.32	15.14	16
3	256QAM	1	0	11.38	11.39	11.25	
3	256QAM	1	8	11.28	11.29	11.34	
3	256QAM	1	14	11.36	11.32	11.31	
3	256QAM	8	0	11.29	11.34	11.27	13
3	256QAM	8	4	11.28	11.40	11.32	
3	256QAM	8	7	11.28	11.35	11.19	
3	256QAM	15	0	11.36	11.42	11.15	
Channel				26047	26365	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	17.30	17.23	17.19	19
1.4	QPSK	1	3	17.19	17.22	17.18	
1.4	QPSK	1	5	17.18	17.08	17.15	
1.4	QPSK	3	0	17.37	17.22	17.32	
1.4	QPSK	3	1	17.33	17.31	17.27	18
1.4	QPSK	3	3	17.30	17.21	17.28	
1.4	QPSK	6	0	16.35	16.27	16.28	
1.4	16QAM	1	0	16.20	16.29	16.23	
1.4	16QAM	1	3	16.37	16.32	16.26	17
1.4	16QAM	1	5	16.11	16.28	16.35	
1.4	16QAM	3	0	16.32	16.20	16.28	
1.4	16QAM	3	1	16.31	16.32	16.16	
1.4	16QAM	3	3	16.26	16.20	16.21	16
1.4	16QAM	6	0	15.16	15.27	15.17	
1.4	64QAM	1	0	15.32	15.29	15.24	
1.4	64QAM	1	3	15.23	15.26	15.34	
1.4	64QAM	1	5	15.34	15.30	15.20	17
1.4	64QAM	3	0	15.27	15.25	15.21	
1.4	64QAM	3	1	15.24	15.31	15.23	
1.4	64QAM	3	3	15.17	15.22	15.15	
1.4	64QAM	6	0	15.31	15.33	15.08	16
1.4	256QAM	1	0	11.31	11.38	11.25	
1.4	256QAM	1	3	11.26	11.33	11.40	
1.4	256QAM	1	5	11.39	11.37	11.37	
1.4	256QAM	3	0	11.39	11.34	11.36	13
1.4	256QAM	3	1	11.34	11.44	11.27	
1.4	256QAM	3	3	11.28	11.25	11.26	
1.4	256QAM	6	0	11.38	11.36	11.21	

3	64QAM	1	14	18.09	18.07	17.95	19
3	64QAM	8	0	18.23	18.13	18.17	
3	64QAM	8	4	18.14	18.16	18.05	
3	64QAM	8	7	18.18	18.20	18.16	
3	64QAM	15	0	18.14	18.24	18.09	16.5
3	256QAM	1	0	15.00	15.09	15.10	
3	256QAM	1	8	15.16	15.09	15.06	
3	256QAM	1	14	14.99	14.94	14.82	
3	256QAM	8	0	15.13	15.00	15.04	16.5
3	256QAM	8	4	15.04	15.03	14.92	
3	256QAM	8	7	15.08	15.07	15.03	
3	256QAM	15	0	15.04	15.11	14.96	
Channel				26697	26865	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	20.11	20.12	20.07	22
1.4	QPSK	1	3	20.09	20.03	20.10	
1.4	QPSK	1	5	20.08	20.10	19.77	
1.4	QPSK	3	0	19.20	19.23	19.14	
1.4	QPSK	3	1	19.16	19.20	19.06	21
1.4	QPSK	3	3	19.21	19.22	19.16	
1.4	QPSK	6	0	19.18	19.12	19.09	
1.4	16QAM	1	0	19.20	19.04	19.18	
1.4	16QAM	1	3	19.04	19.07	19.05	21
1.4	16QAM	1	5	18.91	19.01	18.96	
1.4	16QAM	3	0	18.17	18.18	18.11	
1.4	16QAM	3	1	17.90	18.11	18.10	
1.4	16QAM	3	3	18.16	18.19	18.17	20
1.4	16QAM	6	0	18.22	18.21	18.15	
1.4	64QAM	1	0	18.07	18.19	18.20	
1.4	64QAM	1	3	18.23	18.19	18.16	
1.4	64QAM	1	5	18.06	18.04	17.92	20
1.4	64QAM	3	0	18.20	18.10	18.14	
1.4	64QAM	3	1	18.11	18.13	18.02	
1.4	64QAM	3	3	18.15	18.17	18.13	
1.4	64QAM	6	0	18.11	18.21	18.06	19
1.4	256QAM	1	0	14.97	15.06	15.07	
1.4	256QAM	1	3	15.13	15.06	15.03	
1.4	256QAM	1	5	14.96	14.91	14.79	
1.4	256QAM	3	0	15.10	14.97	15.01	16.5
1.4	256QAM	3	1	15.01	15.00	14.89	
1.4	256QAM	3	3	15.05	15.04	15.00	
1.4	256QAM	6	0	15.01	15.08	14.93	

Band 30 (dBm)_Ant 5							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				27710			
Frequency (MHz)				2310			
10	QPSK	1	0		13.46		15
10	QPSK	1	25		13.44		
10	QPSK	1	49		13.40		
10	QPSK	25	0		12.52		14
10	QPSK	25	12		12.41		
10	QPSK	25	25		12.42		
10	QPSK	50	0		12.44		14
10	16QAM	1	0		12.63		
10	16QAM	1	25		12.60		
10	16QAM	1	49		12.67		13
10	16QAM	25	0		11.49		
10	16QAM	25	12		11.44		
10	16QAM	25	25		11.45		13
10	16QAM	50	0		11.42		
10	64QAM	1	0		11.69		
10	64QAM	1	25		11.43		12
10	64QAM	1	49		11.59		
10	64QAM	25	0		11.53		
10	64QAM	25	12		11.48		10
10	64QAM	25	25		11.43		
10	64QAM	50	0		11.45		
10	256QAM	1	0		9.47		10
10	256QAM	1	25		9.21		
10	256QAM	1	49		9.37		
10	256QAM	25	0		9.30		10
10	256QAM	25	12		9.25		
10	256QAM	25	25		9.20		
10	256QAM	50	0		9.22		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	13.30	13.40	13.29	15
5	QPSK	1	12	13.21	13.21	13.24	
5	QPSK	1	24	13.25	13.19	13.26	
5	QPSK	12	0	12.31	12.40	12.32	14
5	QPSK	12	7	12.37	12.30	12.32	
5	QPSK	12	13	12.35	12.31	12.34	
5	QPSK	25	0	12.23	12.30	12.33	14
5	16QAM	1	0	12.56	12.50	12.56	
5	16QAM	1	12	12.51	12.47	12.51	
5	16QAM	1	24	12.54	12.55	12.60	13
5	16QAM	12	0	11.36	11.35	11.43	
5	16QAM	12	7	11.32	11.32	11.36	
5	16QAM	12	13	11.31	11.39	11.29	13
5	16QAM	25	0	11.29	11.31	11.30	
5	64QAM	1	0	11.58	11.60	11.54	
5	64QAM	1	12	11.32	11.27	11.36	13
5	64QAM	1	24	11.53	11.48	11.49	
5	64QAM	12	0	11.46	11.39	11.38	
5	64QAM	12	7	11.42	11.40	11.42	12
5	64QAM	12	13	11.35	11.33	11.26	
5	64QAM	25	0	11.36	11.28	11.30	
5	256QAM	1	0	9.38	9.44	9.36	10
5	256QAM	1	12	9.19	9.18	9.17	
5	256QAM	1	24	9.34	9.32	9.30	
5	256QAM	12	0	9.18	9.24	9.20	10
5	256QAM	12	7	9.18	9.19	9.21	
5	256QAM	12	13	9.08	9.09	9.13	
5	256QAM	25	0	9.12	9.14	9.20	

Band 38(only on channel required) (dBm)_Ant 5								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	11.33	11.37	11.35	13	
20	QPSK	1	49	11.20	11.33	11.17		
20	QPSK	1	99	11.32	11.29	11.11		
20	QPSK	50	0	10.32	10.39	10.34		
20	QPSK	50	24	10.35	10.36	10.22	12	
20	QPSK	50	50	10.32	10.25	10.18		
20	QPSK	100	0	10.35	10.38	10.25		
20	16QAM	1	0	10.45	10.46	10.34		
20	16QAM	1	49	10.35	10.38	10.42	12	
20	16QAM	1	99	10.27	10.31	10.28		
20	16QAM	50	0	9.32	9.39	9.20		
20	16QAM	50	24	9.40	9.35	9.37		
20	16QAM	50	50	9.22	9.27	9.20	11	
20	16QAM	100	0	9.31	9.32	9.26		
20	64QAM	1	0	9.36	9.43	9.34		
20	64QAM	1	49	9.18	9.26	9.29		
20	64QAM	1	99	9.25	9.27	9.28	11	
20	64QAM	50	0	9.29	9.34	9.24		
20	64QAM	50	24	9.28	9.24	9.20		
20	64QAM	50	50	9.15	9.22	9.09		
20	64QAM	100	0	9.07	9.25	9.11	10	
20	256QAM	1	0	5.39	5.46	5.37		
20	256QAM	1	49	5.21	5.29	5.32		
20	256QAM	1	99	5.28	5.30	5.31		
20	256QAM	50	0	5.27	5.32	5.27	7	
20	256QAM	50	24	5.31	5.27	5.23		
20	256QAM	50	50	5.18	5.25	5.12		
20	256QAM	100	0	5.10	5.28	5.14		
Channel				37825	38000	38175	Tune-up limit (dBm)	
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	11.08	11.33	11.24	13	
15	QPSK	1	37	11.18	11.30	11.09		
15	QPSK	1	74	11.23	11.19	11.08		
15	QPSK	36	0	10.34	10.42	10.31		
15	QPSK	36	20	10.43	10.39	10.27	12	
15	QPSK	36	39	10.42	10.29	10.27		
15	QPSK	75	0	10.29	10.21	10.23		
15	16QAM	1	0	10.44	10.42	10.27		
15	16QAM	1	37	10.28	10.31	10.34	12	
15	16QAM	1	74	10.24	10.24	10.21		
15	16QAM	36	0	9.31	9.37	9.13		
15	16QAM	36	20	9.30	9.32	9.34		
15	16QAM	36	39	9.18	9.25	9.18	11	
15	16QAM	75	0	9.27	9.23	9.17		
15	64QAM	1	0	9.30	9.33	9.25		
15	64QAM	1	37	9.10	9.24	9.27		
15	64QAM	1	74	9.24	9.20	9.24	11	
15	64QAM	36	0	9.14	9.22	9.14		
15	64QAM	36	20	9.24	9.14	9.12		
15	64QAM	36	39	9.13	9.20	9.04		
15	64QAM	75	0	9.01	9.24	9.10	10	
15	256QAM	1	0	5.37	5.41	5.29		
15	256QAM	1	37	5.14	5.19	5.26		
15	256QAM	1	74	5.36	5.34	5.39		
15	256QAM	36	0	5.33	5.44	5.36	7	
15	256QAM	36	20	5.35	5.30	5.30		
15	256QAM	36	39	5.21	5.32	5.19		
15	256QAM	75	0	5.22	5.40	5.22		
Channel				37860	38000	38060	Tune-up limit (dBm)	
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	11.15	11.32	11.20	13	
10	QPSK	1	25	11.17	11.31	11.12		
10	QPSK	1	49	11.28	11.21	11.13		
10	QPSK	25	0	10.37	10.48	10.34		
10	QPSK	25	12	10.44	10.44	10.28	12	
10	QPSK	25	25	10.41	10.29	10.23		
10	QPSK	50	0	10.39	10.39	10.34		
10	16QAM	1	0	10.39	10.41	10.33		
10	16QAM	1	25	10.32	10.32	10.38	12	
10	16QAM	1	49	10.24	10.28	10.27		
10	16QAM	25	0	9.26	9.35	9.15		
10	16QAM	25	12	9.33	9.32	9.34		
10	16QAM	25	25	9.12	9.13	9.25	11	
10	16QAM	50	0	9.25	9.26	9.20		
10	64QAM	1	0	9.33	9.42	9.30		
10	64QAM	1	25	9.17	9.18	9.28		
10	64QAM	1	49	9.23	9.23	9.26	10	
10	64QAM	25	0	9.18	9.26	9.22		
10	64QAM	25	12	9.27	9.22	9.18		
10	64QAM	25	25	9.05	9.14	9.01		
10	64QAM	50	0	9.08	9.22	9.10	7	
10	256QAM	1	0	5.33	5.38	5.31		
10	256QAM	1	25	5.13	5.27	5.29		
10	256QAM	1	49	5.19	5.28	5.21		
10	256QAM	25	0	5.19	5.24	5.23	7	
10	256QAM	25	12	5.37	5.33	5.32		
10	256QAM	25	25	5.28	5.37	5.22		
10	256QAM	50	0	5.21	5.40	5.21		
Channel				37775	38000	38025	Tune-up limit (dBm)	
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	11.07	11.32	11.25	13	
5	QPSK	1	12	11.14	11.31	11.13		
5	QPSK	1	24	11.23	11.24	11.08		
5	QPSK	12	0	10.35	10.45	10.36		
5	QPSK	12	7	10.33	10.28	10.20	12	
5	QPSK	12	13	10.24	10.23	10.08		
5	QPSK	25	0	10.34	10.28	10.21		
5	16QAM	1	0	10.42	10.45	10.29		
5	16QAM	1	12	10.34	10.36	10.37	12	
5	16QAM	1	24	10.26	10.21	10.18		
5	16QAM	12	0	9.27	9.31	9.16		
5	16QAM	12	7	9.36	9.32	9.33		
5	16QAM	12	13	9.19	9.22	9.17	11	
5	16QAM	25	0	9.22	9.25	9.21		
5	64QAM	1	0	9.33	9.41	9.30		
5	64QAM	1	12	9.14	9.20	9.24		
5	64QAM	1	24	9.21	9.23	9.27	10	
5	64QAM	12	7	9.15	9.24	9.23		
5	64QAM	12	7	9.27	9.20	9.19		
5	64QAM	12	13	9.08	9.15	9.03		
5	64QAM	25	0	8.99	9.15	9.03	7	
5	256QAM	1	0	5.32	5.36	5.31		
5	256QAM	1	12	5.18	5.24	5.31		
5	256QAM	1	24	5.20	5.22	5.22		
5	256QAM	12	0	5.19	5.22	5.19	7	
5	256QAM	12	7	5.38	5.36	5.30		
5	256QAM	12	13	5.30	5.33	5.17		
5	256QAM	25	0	5.30	5.38	5.36		

Band 41 (2496~2690MHz) (dBm)_Ant 5										
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Low Channel	Middle Channel	Middle-High Channel	High Channel		Tune-up limit (dBm)
Channel				39790	40185	40620	41055	41490		
Frequency (MHz)				2596	2549.5	2593	2636.5	2680		
20	QPSK	1	0	11.33	11.24	11.39	11.22	11.22	13	
20	QPSK	1	49	11.24	11.31	11.14	11.16	11.12		
20	QPSK	1	99	11.33	11.18	11.29	11.19	11.11		
20	QPSK	50	0	10.56	10.51	10.57	10.42	10.54		
20	QPSK	50	24	10.52	10.49	10.43	10.28	10.25	12	
20	QPSK	50	50	10.54	10.43	10.39	10.22	10.12		
20	QPSK	100	0	10.43	10.49	10.53	10.34	10.22		
20	16QAM	1	0	10.61	10.63	10.57	10.51	10.52		
20	16QAM	1	49	10.54	10.41	10.51	10.44	10.47	12	
20	16QAM	1	99	10.47	10.33	10.56	10.42	10.44		
20	16QAM	50	0	9.62	9.58	9.44	9.38	9.29		
20	16QAM	50	24	9.56	9.41	9.47	9.35	9.32		
20	16QAM	50	50	9.53	9.29	9.32	9.24	9.28	11	
20	16QAM	100	0	9.44	9.41	9.47	9.41	9.42		
20	64QAM	1	0	9.52	9.59	9.50	9.40	9.44		
20	64QAM	1	49	9.51	9.23	9.41	9.32	9.34		
20	64QAM	1	99	9.45	9.36	9.45	9.36	9.39	11	
20	64QAM	50	0	9.57	9.51	9.38	9.31	9.15		
20	64QAM	50	24	9.47	9.42	9.41	9.29	9.33		
20	64QAM	50	50	9.34	9.35	9.36	9.25	9.27		
20	64QAM	100	0	9.53	9.48	9.52	9.43	9.42	10	
20	256QAM	1	0	5.51	5.58	5.49	5.39	5.43		
20	256QAM	1	49	5.50	5.22	5.40	5.31	5.33		
20	256QAM	1	99	5.44	5.35	5.44	5.35	5.38		
20	256QAM	50	0	5.56	5.50	5.37	5.30	5.14	7	
20	256QAM	50	24	5.46	5.41	5.40	5.28	5.32		
20	256QAM	50	50	5.31	5.34	5.35	5.24	5.26		
20	256QAM	100	0	5.52	5.47	5.51	5.42	5.41		
Channel				39725	40173	40620	41086	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	11.07	10.92	11.17	10.96	10.92	13	
15	QPSK	1	37	11.02	11.00	10.91	10.90	10.92		
15	QPSK	1	74	11.03	10.91	10.98	10.93	10.89		
15	QPSK	36	0	10.24	10.22	10.32	10.14	10.08		
15	QPSK	36	20	10.20	10.20	10.18	9.98	9.98	12	
15	QPSK	36	39	10.32	10.21	10.15	9.92	9.89		
15	QPSK	75	0	10.23	10.22	10.15	10.03	9.94		
15	16QAM	1	0	10.36	10.30	10.25	10.18	10.25		
15	16QAM	1	37	10.24	10.13	10.28	10.13	10.16	12	
15	16QAM	1	74	10.22	10.00	10.25	10.18	10.11		
15	16QAM	36	0	9.34	9.29	9.15	9.07	9.03		
15	16QAM	36	20	9.34	9.11	9.20	9.05	9.08		
15	16QAM	36	39	9.21	8.96	9.02	8.96	9.06	11	
15	16QAM	75	0	9.19	9.14	9.25	9.11	9.18		
15	64QAM	1	0	9.20	9.27	9.23	9.09	9.13		
15	64QAM	1	37	9.27	8.94	9.16	8.99	9.04		
15	64QAM	1	74	9.21	9.12	9.13	9.04	9.14	11	
15	64QAM	36	0	9.24	9.29	9.07	9.07	8.89		
15	64QAM	36	20	9.15	9.09	9.10	8.99	9.08		
15	64QAM	36	39	9.08	9.10	9.07	9.03	9.02		
15	64QAM	75	0	9.25	9.18	9.19	9.15	9.19	10	
15	256QAM	1	0	5.41	5.49	5.46	5.36	5.34		
15	256QAM	1	37	5.40	5.20	5.32	5.27	5.30		
15	256QAM	1	74	5.36	5.28	5.37	5.24	5.32		
15	256QAM	36	0	5.51	5.40	5.27	5.19	5.08	7	
15	256QAM	36	20	5.38	5.38	5.30	5.26	5.26		
15	256QAM	36	39	5.27	5.33	5.32	5.13	5.15		
15	256QAM	75	0	5.44	5.37	5.44	5.36	5.30		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	11.03	10.98	11.13	10.96	10.92	13	
10	QPSK	1	25	10.95	11.00	10.89	10.95	10.91		
10	QPSK	1	49	11.08	10.92	10.98	10.96	10.93		
10	QPSK	25	0	10.31	10.23	10.28	10.16	10.02		
10	QPSK	25	12	10.30	10.21	10.19	10.05	9.94	12	
10	QPSK	25	25	10.32	10.13	10.16	9.98	9.89		
10	QPSK	50	0	10.28	10.20	10.22	10.04	9.96		
10	16QAM	1	0	10.38	10.31	10.27	10.18	10.24		
10	16QAM	1	25	10.27	10.17	10.20	10.19	10.17	12	
10	16QAM	1	49	10.23	10.06	10.34	10.17	10.17		
10	16QAM	25	0	9.30	9.33	9.15	9.12	8.99		
10	16QAM	25	12	9.32	9.16	9.21	9.10	9.00		
10	16QAM	25	25	9.25	9.01	9.04	9.02	8.97	11	
10	16QAM	50	0	9.13	9.14	9.22	9.17	9.19		
10	64QAM	1	0	9.26	9.31	9.19	9.12	9.17		
10	64QAM	1	25	9.27	8.92	9.12	9.06	9.04		
10	64QAM	1	49	9.12	9.07	9.16	9.14	9.08	10	
10	64QAM	25	0	9.25	9.27	9.07	9.03	8.93		
10	64QAM	25	12	9.22	9.14	9.10	9.06	9.13		
10	64QAM	25	25	9.12	9.03	9.12	9.01	8.99		
10	64QAM	50	0	9.31	9.25	9.27	9.12	9.17	7	
10	256QAM	1	0	5.44	5.52	5.47	5.27	5.36		
10	256QAM	1	25	5.44	5.16	5.28	5.27	5.26		
10	256QAM	1	49	5.40	5.33	5.34	5.28	5.27		
10	256QAM	25	0	5.52	5.45	5.26	5.21	5.08	7	
10	256QAM	25	12	5.40	5.40	5.37	5.18	5.21		
10	256QAM	25	25	5.32	5.24	5.25	5.12	5.17		
10	256QAM	50	0	5.45	5.43	5.44	5.37	5.37		
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.5	2593	2640.30	2687.5		
5	QPSK	1	0	11.01	10.92	11.15	10.94	11.00	13	
5	QPSK	1	12	11.01	11.00	10.93	10.92	10.96		
5	QPSK	1	24	11.07	10.90	10.96	10.94	10.95		
5	QPSK	12	0	10.31	10.24	10.29	10.15	10.03		
5	QPSK	12	7	10.23	10.27	10.14	10.00	10.00	12	
5	QPSK	12	13	10.21	10.13	10.11	9.98	9.90		
5	QPSK	25	0	10.21	10.26	10.16	10.03	9.90		
5	16QAM	1	0	10.30	10.34	10.30	10.29	10.29		
5	16QAM	1	12	10.23	10.11	10.19	10.14	10.19	12	
5	16QAM	1	24	10.15	10.09	10.23	10.20	10.13		
5	16QAM	12	0	9.30	9.26	9.19	9.05	8.97		
5	16QAM	12	7	9.24	9.14	9.19	9.13	9.02		
5	16QAM	12	13	9.24	9.00	9.04	8.93	8.99	11	
5	16QAM	25	0	9.18	9.18	9.21	9.18	9.15		
5	64QAM	1	0	9.25	9.28	9.21	9.11	9.14		
5	64QAM	1	12	9.19	8.92	9.13	8.99	9.09		
5	64QAM	1	24	9.14	9.05	9.22	9.11	9.16	10	
5	64QAM	12	0	9.26	9.24	9.14	8.98	8.92		
5	64QAM	12	7	9.14	9.16	9.08	9.00	9.02		
5	64QAM	12	13	9.04	9.04	9.04	9.00	8.97		
5	64QAM	25	0	9.24	9.19	9.26	9.11	9.18	7	
5	256QAM	1	0	5.46	5.53	5.44	5.35	5.31		
5	256QAM	1	12	5.40	5.14	5.32	5.21	5.21		
5	256QAM	1	24	5.34	5.23	5.34	5.26	5.31		
5	256QAM	12	0	5.49	5.38	5.36	5.26	5.10	7	
5	256QAM	12	7	5.41	5.29	5.38	5.21	5.27		
5	256QAM	12	13	5.28	5.24	5.24	5.22	5.25		
5	256QAM	25	0	5.49	5.44	5.45	5.37	5.37		

Band 66 (dBm)_Ant 3							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	17.5
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	15.81	15.84	15.75	16.5
20	QPSK	1	49	15.53	15.65	15.50	
20	QPSK	1	99	15.61	15.61	15.58	
20	QPSK	50	0	14.73	14.78	14.76	16.5
20	QPSK	50	24	14.66	14.74	14.73	
20	QPSK	50	50	14.77	14.72	14.74	
20	QPSK	100	0	14.68	14.75	14.65	16.5
20	16QAM	1	0	15.03	14.98	15.00	
20	16QAM	1	49	14.90	14.99	14.76	
20	16QAM	1	99	14.84	14.91	14.99	15.5
20	16QAM	50	0	13.70	13.63	13.62	
20	16QAM	50	24	13.82	13.77	13.65	
20	16QAM	50	50	13.75	13.74	13.71	15.5
20	16QAM	100	0	13.76	13.73	13.63	
20	64QAM	1	0	13.99	13.96	13.97	
20	64QAM	1	49	13.87	13.97	13.71	14.5
20	64QAM	1	99	13.78	13.91	13.92	
20	64QAM	50	0	13.67	13.62	13.62	
20	64QAM	50	24	13.74	13.72	13.64	14.5
20	64QAM	50	50	13.67	13.68	13.68	
20	64QAM	100	0	13.78	13.67	13.56	
20	256QAM	1	0	9.88	9.83	9.90	11.5
20	256QAM	1	49	9.71	9.88	9.61	
20	256QAM	1	99	9.73	9.80	9.88	
20	256QAM	50	0	9.53	9.46	9.47	11.5
20	256QAM	50	24	9.63	9.67	9.48	
20	256QAM	50	50	9.66	9.59	9.57	
20	256QAM	100	0	9.62	9.65	9.48	17.5
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	16.5
15	QPSK	1	0	15.43	15.63	15.59	
15	QPSK	1	37	15.51	15.58	15.40	16.5
15	QPSK	1	74	15.55	15.60	15.54	
15	QPSK	36	0	14.51	14.55	14.54	
15	QPSK	36	20	14.57	14.70	14.72	16.5
15	QPSK	36	39	14.68	14.68	14.69	
15	QPSK	75	0	14.53	14.57	14.69	
15	16QAM	1	0	15.01	14.91	14.98	16.5
15	16QAM	1	37	14.85	14.95	14.72	
15	16QAM	1	74	14.79	14.82	14.92	
15	16QAM	36	0	13.68	13.58	13.60	15.5
15	16QAM	36	20	13.71	13.75	13.64	
15	16QAM	36	39	13.69	13.65	13.63	
15	16QAM	75	0	13.69	13.65	13.53	15.5
15	64QAM	1	0	13.94	13.92	13.90	
15	64QAM	1	37	13.78	13.87	13.67	
15	64QAM	1	74	13.67	13.86	13.90	14.5
15	64QAM	36	0	13.55	13.61	13.54	
15	64QAM	36	20	13.64	13.62	13.63	
15	64QAM	36	39	13.58	13.66	13.58	14.5
15	64QAM	75	0	13.76	13.65	13.49	
15	256QAM	1	0	9.85	9.78	9.84	
15	256QAM	1	37	9.65	9.80	9.55	11.5
15	256QAM	1	74	9.62	9.75	9.86	
15	256QAM	36	0	9.57	9.56	9.56	
15	256QAM	36	20	9.64	9.81	9.54	11.5
15	256QAM	36	39	9.66	9.67	9.68	
15	256QAM	75	0	9.62	9.76	9.57	
Channel				132022	132322	132622	17.5
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	15.53	15.63	15.61	16.5
10	QPSK	1	25	15.41	15.62	15.42	
10	QPSK	1	49	15.51	15.55	15.49	
10	QPSK	25	0	14.51	14.59	14.60	16.5
10	QPSK	25	12	14.59	14.67	14.65	
10	QPSK	25	25	14.68	14.67	14.68	
10	QPSK	50	0	14.59	14.48	14.74	16.5
10	16QAM	1	0	15.02	14.92	14.96	
10	16QAM	1	25	14.83	14.95	14.68	
10	16QAM	1	49	14.80	14.86	14.91	15.5
10	16QAM	25	0	13.58	13.60	13.54	
10	16QAM	25	12	13.79	13.71	13.60	
10	16QAM	25	25	13.64	13.71	13.64	15.5
10	16QAM	50	0	13.71	13.64	13.59	
10	64QAM	1	0	13.87	13.94	13.87	
10	64QAM	1	25	13.85	13.91	13.65	14.5
10	64QAM	1	49	13.67	13.88	13.86	
10	64QAM	25	0	13.65	13.61	13.53	
10	64QAM	25	12	13.70	13.69	13.54	14.5
10	64QAM	25	25	13.56	13.66	13.59	
10	64QAM	50	0	13.70	13.57	13.55	
10	256QAM	1	0	10.00	9.91	9.99	11.5
10	256QAM	1	25	9.83	10.02	9.70	
10	256QAM	1	49	9.80	9.94	9.94	
10	256QAM	25	0	9.58	9.55	9.56	11.5
10	256QAM	25	12	9.78	9.82	9.57	
10	256QAM	25	25	9.72	9.69	9.70	
10	256QAM	50	0	9.75	9.73	9.58	17.5
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	16.5
5	QPSK	1	0	15.49	15.66	15.60	
5	QPSK	1	12	15.50	15.57	15.44	16.5
5	QPSK	1	24	15.56	15.53	15.53	
5	QPSK	12	0	14.59	14.62	14.60	
5	QPSK	12	7	14.60	14.70	14.64	16.5
5	QPSK	12	13	14.71	14.68	14.67	
5	QPSK	25	0	14.55	14.54	14.74	
5	16QAM	1	0	14.97	14.94	14.97	16.5
5	16QAM	1	12	14.78	14.95	14.70	
5	16QAM	1	24	14.77	14.88	14.89	
5	16QAM	12	0	13.65	13.53	13.56	15.5
5	16QAM	12	7	13.76	13.70	13.55	
5	16QAM	12	13	13.63	13.72	13.67	
5	16QAM	25	0	13.75	13.70	13.58	15.5
5	64QAM	1	0	13.89	13.88	13.94	
5	64QAM	1	12	13.75	13.94	13.68	15.5
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	

Band 66 (dBm)_Ant 4							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	16.31	16.34	16.25	18
20	QPSK	1	49	16.03	16.15	16.00	
20	QPSK	1	99	16.11	16.11	16.08	
20	QPSK	50	0	15.23	15.28	15.26	17
20	QPSK	50	24	15.16	15.24	15.23	
20	QPSK	50	50	15.27	15.22	15.24	
20	QPSK	100	0	15.18	15.25	15.15	17
20	16QAM	1	0	15.53	15.48	15.50	
20	16QAM	1	49	15.40	15.49	15.26	
20	16QAM	1	99	15.34	15.41	15.49	16
20	16QAM	50	0	14.20	14.13	14.12	
20	16QAM	50	24	14.32	14.27	14.15	
20	16QAM	50	50	14.25	14.24	14.21	16
20	16QAM	100	0	14.26	14.23	14.13	
20	64QAM	1	0	14.49	14.46	14.47	
20	64QAM	1	49	14.37	14.47	14.21	16
20	64QAM	1	99	14.28	14.41	14.42	
20	64QAM	50	0	14.17	14.12	14.12	
20	64QAM	50	24	14.24	14.22	14.14	15
20	64QAM	50	50	14.17	14.18	14.18	
20	64QAM	100	0	14.28	14.17	14.06	
20	256QAM	1	0	10.38	10.33	10.40	12
20	256QAM	1	49	10.21	10.38	10.11	
20	256QAM	1	99	10.23	10.30	10.38	
20	256QAM	50	0	10.03	9.96	9.97	12
20	256QAM	50	24	10.13	10.17	9.98	
20	256QAM	50	50	10.16	10.09	10.07	
20	256QAM	100	0	10.12	10.15	9.98	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	15.93	16.13	16.09	18
15	QPSK	1	37	16.01	16.08	15.90	
15	QPSK	1	74	16.05	16.10	16.04	
15	QPSK	36	0	15.01	15.05	15.04	17
15	QPSK	36	20	15.07	15.20	15.22	
15	QPSK	36	39	15.18	15.18	15.19	
15	QPSK	75	0	15.03	15.07	15.19	17
15	16QAM	1	0	15.51	15.41	15.48	
15	16QAM	1	37	15.35	15.45	15.22	
15	16QAM	1	74	15.29	15.32	15.42	16
15	16QAM	36	0	14.18	14.08	14.10	
15	16QAM	36	20	14.21	14.25	14.14	
15	16QAM	36	39	14.19	14.15	14.13	16
15	16QAM	75	0	14.19	14.15	14.03	
15	64QAM	1	0	14.44	14.42	14.40	
15	64QAM	1	37	14.28	14.37	14.17	16
15	64QAM	1	74	14.17	14.36	14.40	
15	64QAM	36	0	14.05	14.11	14.04	
15	64QAM	36	20	14.14	14.12	14.13	15
15	64QAM	36	39	14.08	14.16	14.08	
15	64QAM	75	0	14.26	14.15	13.99	
15	256QAM	1	0	10.35	10.28	10.34	12
15	256QAM	1	37	10.15	10.30	10.05	
15	256QAM	1	74	10.12	10.25	10.36	
15	256QAM	36	0	10.07	10.06	10.06	12
15	256QAM	36	20	10.14	10.31	10.04	
15	256QAM	36	39	10.16	10.17	10.18	
15	256QAM	75	0	10.12	10.26	10.07	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	16.03	16.13	16.11	18
10	QPSK	1	25	15.91	16.12	15.92	
10	QPSK	1	49	16.01	16.05	15.99	
10	QPSK	25	0	15.01	15.09	15.10	17
10	QPSK	25	12	15.09	15.17	15.15	
10	QPSK	25	25	15.18	15.17	15.18	
10	QPSK	50	0	15.09	14.98	15.24	17
10	16QAM	1	0	15.52	15.42	15.46	
10	16QAM	1	25	15.33	15.45	15.18	
10	16QAM	1	49	15.30	15.36	15.41	16
10	16QAM	25	0	14.08	14.10	14.04	
10	16QAM	25	12	14.29	14.21	14.10	
10	16QAM	25	25	14.14	14.21	14.14	16
10	16QAM	50	0	14.21	14.14	14.09	
10	64QAM	1	0	14.37	14.44	14.37	
10	64QAM	1	25	14.35	14.41	14.15	16
10	64QAM	1	49	14.17	14.38	14.38	
10	64QAM	25	0	14.15	14.11	14.03	
10	64QAM	25	12	14.20	14.19	14.04	15
10	64QAM	25	25	14.06	14.16	14.09	
10	64QAM	50	0	14.20	14.07	14.05	
10	256QAM	1	0	10.50	10.41	10.49	12
10	256QAM	1	25	10.33	10.52	10.20	
10	256QAM	1	49	10.30	10.44	10.44	
10	256QAM	25	0	10.08	10.05	10.06	12
10	256QAM	25	12	10.28	10.32	10.07	
10	256QAM	25	25	10.22	10.19	10.20	
10	256QAM	50	0	10.25	10.23	10.08	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	15.99	16.16	16.10	18
5	QPSK	1	12	16.00	16.07	15.94	
5	QPSK	1	24	16.06	16.03	16.03	
5	QPSK	12	0	15.09	15.12	15.10	17
5	QPSK	12	7	15.10	15.20	15.14	
5	QPSK	12	13	15.21	15.18	15.17	
5	QPSK	25	0	15.05	15.04	15.24	17
5	16QAM	1	0	15.47	15.44	15.47	
5	16QAM	1	12	15.28	15.45	15.20	
5	16QAM	1	24	15.27	15.38	15.39	16
5	16QAM	12	0	14.15	14.03	14.06	
5	16QAM	12	7	14.26	14.20	14.05	
5	16QAM	12	13	14.13	14.22	14.17	16
5	16QAM	25	0	14.25	14.20	14.08	
5	64QAM	1	0	14.39	14.38	14.44	
5	64QAM	1	12	14.25	14.44	14.18	16

5	64QAM	1	24	13.69	13.83	13.90	14.5
5	64QAM	12	0	13.64	13.53	13.56	
5	64QAM	12	7	13.72	13.69	13.56	
5	64QAM	12	13	13.65	13.67	13.64	
5	64QAM	25	0	13.66	13.66	13.51	11.5
5	256QAM	1	0	10.00	9.92	9.98	
5	256QAM	1	12	9.77	9.94	9.70	
5	256QAM	1	24	9.83	9.94	9.97	
5	256QAM	12	0	9.62	9.59	9.53	11.5
5	256QAM	12	7	9.68	9.74	9.63	
5	256QAM	12	13	9.79	9.71	9.69	
5	256QAM	25	0	9.74	9.74	9.56	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	15.49	15.59	15.56	17.5
3	QPSK	1	8	15.41	15.59	15.46	
3	QPSK	1	14	15.51	15.52	15.57	
3	QPSK	8	0	14.58	14.56	14.59	
3	QPSK	8	4	14.62	14.65	14.65	16.5
3	QPSK	8	7	14.68	14.68	14.65	
3	QPSK	15	0	14.57	14.48	14.65	
3	16QAM	1	0	14.98	14.95	14.90	
3	16QAM	1	8	14.86	14.91	14.74	16.5
3	16QAM	1	14	14.72	14.88	14.98	
3	16QAM	8	0	13.60	13.60	13.55	
3	16QAM	8	4	13.73	13.70	13.63	
3	16QAM	8	7	13.67	13.66	13.70	15.5
3	16QAM	15	0	13.66	13.64	13.58	
3	64QAM	1	0	13.98	13.89	13.96	
3	64QAM	1	8	13.85	13.92	13.69	
3	64QAM	1	14	13.73	13.85	13.82	15.5
3	64QAM	8	0	13.58	13.60	13.52	
3	64QAM	8	4	13.73	13.62	13.63	
3	64QAM	8	7	13.63	13.58	13.62	
3	64QAM	15	0	13.74	13.61	13.50	14.5
3	256QAM	1	0	9.93	9.91	10.03	
3	256QAM	1	8	9.85	9.97	9.67	
3	256QAM	1	14	9.82	9.88	9.99	
3	256QAM	8	0	9.57	9.59	9.62	11.5
3	256QAM	8	4	9.76	9.76	9.57	
3	256QAM	8	7	9.74	9.66	9.67	
3	256QAM	15	0	9.76	9.72	9.55	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	15.48	15.64	15.60	17.5
1.4	QPSK	1	3	15.51	15.59	15.48	
1.4	QPSK	1	5	15.52	15.60	15.48	
1.4	QPSK	3	0	15.62	15.60	15.74	
1.4	QPSK	3	1	15.65	15.67	15.63	16.5
1.4	QPSK	3	3	15.70	15.67	15.64	
1.4	QPSK	6	0	14.61	14.48	14.72	
1.4	16QAM	1	0	14.95	14.91	14.90	
1.4	16QAM	1	3	14.82	14.94	14.67	16.5
1.4	16QAM	1	5	14.82	14.89	14.93	
1.4	16QAM	3	0	14.59	14.81	14.60	
1.4	16QAM	3	1	14.79	14.76	14.62	
1.4	16QAM	3	3	14.66	14.69	14.68	15.5
1.4	16QAM	6	0	13.69	13.65	13.66	
1.4	64QAM	1	0	13.95	13.88	13.87	
1.4	64QAM	1	3	13.79	13.95	13.68	
1.4	64QAM	1	5	13.76	13.83	13.86	15.5
1.4	64QAM	3	0	13.69	13.64	13.60	
1.4	64QAM	3	1	13.63	13.68	13.62	
1.4	64QAM	3	3	13.63	13.64	13.67	
1.4	64QAM	6	0	13.75	13.62	13.54	14.5
1.4	256QAM	1	0	10.02	9.98	10.02	
1.4	256QAM	1	3	9.77	9.97	9.76	
1.4	256QAM	1	5	9.79	9.90	10.01	
1.4	256QAM	3	0	9.66	9.54	9.57	11.5
1.4	256QAM	3	1	9.78	9.73	9.62	
1.4	256QAM	3	3	9.71	9.73	9.72	
1.4	256QAM	6	0	9.67	9.76	9.57	

5	64QAM	1	24	14.19	14.33	14.40	15
5	64QAM	12	0	14.14	14.03	14.06	
5	64QAM	12	7	14.22	14.19	14.06	
5	64QAM	12	13	14.15	14.17	14.14	
5	64QAM	25	0	14.16	14.16	14.01	12
5	256QAM	1	0	10.50	10.42	10.48	
5	256QAM	1	12	10.27	10.44	10.20	
5	256QAM	1	24	10.33	10.44	10.47	
5	256QAM	12	0	10.12	10.09	10.03	12
5	256QAM	12	7	10.18	10.24	10.13	
5	256QAM	12	13	10.29	10.21	10.19	
5	256QAM	25	0	10.24	10.24	10.06	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	15.99	16.09	16.06	18
3	QPSK	1	8	15.91	16.09	15.96	
3	QPSK	1	14	16.01	16.02	16.07	
3	QPSK	8	0	15.08	15.06	15.09	
3	QPSK	8	4	15.12	15.15	15.15	17
3	QPSK	8	7	15.18	15.16	15.15	
3	QPSK	15	0	15.07	14.98	15.15	
3	16QAM	1	0	15.48	15.45	15.40	
3	16QAM	1	8	15.36	15.41	15.24	17
3	16QAM	1	14	15.22	15.38	15.48	
3	16QAM	8	0	14.10	14.10	14.05	
3	16QAM	8	4	14.23	14.20	14.13	
3	16QAM	8	7	14.17	14.16	14.20	16
3	16QAM	15	0	14.16	14.14	14.08	
3	64QAM	1	0	14.48	14.39	14.46	
3	64QAM	1	8	14.35	14.42	14.19	
3	64QAM	1	14	14.23	14.35	14.32	16
3	64QAM	8	0	14.08	14.10	14.02	
3	64QAM	8	4	14.23	14.12	14.13	
3	64QAM	8	7	14.13	14.08	14.12	
3	64QAM	15	0	14.24	14.11	14.00	15
3	256QAM	1	0	10.43	10.41	10.53	
3	256QAM	1	8	10.35	10.47	10.17	
3	256QAM	1	14	10.32	10.38	10.49	
3	256QAM	8	0	10.07	10.09	10.12	12
3	256QAM	8	4	10.26	10.26	10.07	
3	256QAM	8	7	10.24	10.16	10.17	
3	256QAM	15	0	10.26	10.22	10.05	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	15.98	16.14	16.10	18
1.4	QPSK	1	3	16.01	16.09	15.98	
1.4	QPSK	1	5	16.02	16.10	15.98	
1.4	QPSK	3	0	16.12	16.10	16.24	
1.4	QPSK	3	1	16.15	16.17	16.13	17
1.4	QPSK	3	3	16.20	16.17	16.14	
1.4	QPSK	6	0	15.11	14.98	15.22	
1.4	16QAM	1	0	15.45	15.41	15.40	
1.4	16QAM	1	3	15.32	15.44	15.17	17
1.4	16QAM	1	5	15.32	15.39	15.43	
1.4	16QAM	3	0	15.09	15.31	15.10	
1.4	16QAM	3	1	15.29	15.26	15.12	
1.4	16QAM	3	3	15.16	15.19	15.18	16
1.4	16QAM	6	0	14.19	14.15	14.16	
1.4	64QAM	1	0	14.45	14.38	14.37	
1.4	64QAM	1	3	14.29	14.45	14.18	
1.4	64QAM	1	5	14.26	14.33	14.36	16
1.4	64QAM	3	0	14.19	14.14	14.10	
1.4	64QAM	3	1	14.13	14.18	14.12	
1.4	64QAM	3	3	14.13	14.14	14.17	
1.4	64QAM	6	0	14.25	14.12	14.04	15
1.4	256QAM	1	0	10.52	10.48	10.52	
1.4	256QAM	1	3	10.27	10.47	10.26	
1.4	256QAM	1	5	10.29	10.40	10.51	
1.4	256QAM	3	0	10.16	10.04	10.07	12
1.4	256QAM	3	1	10.28	10.23	10.12	
1.4	256QAM	3	3	10.21	10.23	10.22	
1.4	256QAM	6	0	10.17	10.26	10.07	

Band 71 (dBm)_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				133222	133322	133372	
Frequency (MHz)				673	683	688	
20	QPSK	1	0	20.69	20.82	20.75	22.5
20	QPSK	1	49	20.66	20.72	20.65	
20	QPSK	1	99	20.77	20.74	20.78	
20	QPSK	50	0	19.80	19.88	19.84	21.5
20	QPSK	50	24	19.73	19.76	19.80	
20	QPSK	50	50	19.84	19.87	19.85	
20	QPSK	100	0	19.69	19.79	19.71	21.5
20	16QAM	1	0	20.00	20.04	20.04	
20	16QAM	1	49	20.02	20.11	20.09	
20	16QAM	1	99	20.05	20.12	20.10	20.5
20	16QAM	50	0	18.72	18.76	18.81	
20	16QAM	50	24	18.87	18.89	18.86	
20	16QAM	50	50	18.86	18.91	18.88	20.5
20	16QAM	100	0	18.85	18.77	18.91	
20	64QAM	1	0	18.94	19.08	18.99	
20	64QAM	1	49	18.96	19.11	19.03	20.5
20	64QAM	1	99	19.06	19.17	19.07	
20	64QAM	50	0	18.66	18.70	18.80	19.5
20	64QAM	50	24	18.87	18.87	18.86	
20	64QAM	50	50	18.90	18.90	18.90	
20	64QAM	100	0	18.87	18.74	18.95	17
20	256QAM	1	0	15.52	15.66	15.57	
20	256QAM	1	49	15.54	15.69	15.61	
20	256QAM	1	99	15.64	15.75	15.65	17
20	256QAM	50	0	15.25	15.29	15.39	
20	256QAM	50	24	15.46	15.46	15.45	
20	256QAM	50	50	15.49	15.49	15.49	
20	256QAM	100	0	15.46	15.33	15.54	
Channel				133197	133297	133397	
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	20.60	20.73	20.66	22.5
15	QPSK	1	37	20.57	20.63	20.56	
15	QPSK	1	74	20.68	20.65	20.69	
15	QPSK	36	0	19.71	19.79	19.75	21.5
15	QPSK	36	20	19.64	19.67	19.71	
15	QPSK	36	39	19.75	19.78	19.76	
15	QPSK	75	0	19.70	19.80	19.72	21.5
15	16QAM	1	0	19.91	19.95	19.95	
15	16QAM	1	37	19.93	20.02	20.00	
15	16QAM	1	74	19.96	20.03	20.01	20.5
15	16QAM	36	0	18.63	18.67	18.72	
15	16QAM	36	20	18.78	18.80	18.77	
15	16QAM	36	39	18.77	18.82	18.79	20.5
15	16QAM	75	0	18.76	18.68	18.82	
15	64QAM	1	0	18.85	18.99	18.90	
15	64QAM	1	37	18.87	19.02	18.94	20.5
15	64QAM	1	74	18.97	19.08	18.98	
15	64QAM	36	0	18.57	18.61	18.71	19.5
15	64QAM	36	20	18.78	18.78	18.77	
15	64QAM	36	39	18.81	18.81	18.81	
15	64QAM	75	0	18.78	18.65	18.86	17
15	256QAM	1	0	15.43	15.57	15.48	
15	256QAM	1	37	15.45	15.60	15.52	
15	256QAM	1	74	15.55	15.66	15.56	17
15	256QAM	36	0	15.16	15.20	15.30	
15	256QAM	36	20	15.37	15.37	15.36	
15	256QAM	36	39	15.40	15.40	15.40	
15	256QAM	75	0	15.37	15.24	15.45	
Channel				133172	133272	133422	
Frequency (MHz)				668	678	693	
10	QPSK	1	0	20.56	20.69	20.62	22.5
10	QPSK	1	25	20.53	20.59	20.52	
10	QPSK	1	49	20.64	20.61	20.65	
10	QPSK	25	0	19.67	19.75	19.71	21.5
10	QPSK	25	12	19.60	19.63	19.67	
10	QPSK	25	25	19.71	19.74	19.72	
10	QPSK	50	0	19.66	19.76	19.68	21.5
10	16QAM	1	0	19.87	19.91	19.91	
10	16QAM	1	25	19.89	19.98	19.96	
10	16QAM	1	49	19.92	19.99	19.97	20.5
10	16QAM	25	0	18.59	18.63	18.68	
10	16QAM	25	12	18.74	18.76	18.73	
10	16QAM	25	25	18.73	18.78	18.75	20.5
10	16QAM	50	0	18.72	18.64	18.78	
10	64QAM	1	0	18.81	18.95	18.86	
10	64QAM	1	25	18.83	18.98	18.90	20.5
10	64QAM	1	49	18.93	19.04	18.94	
10	64QAM	25	0	18.53	18.57	18.67	
10	64QAM	25	12	18.74	18.74	18.73	19.5
10	64QAM	25	25	18.77	18.77	18.77	
10	64QAM	50	0	18.74	18.61	18.82	
10	256QAM	1	0	15.39	15.53	15.44	17
10	256QAM	1	25	15.41	15.56	15.48	
10	256QAM	1	49	15.51	15.62	15.52	
10	256QAM	25	0	15.12	15.16	15.26	17
10	256QAM	25	12	15.33	15.33	15.32	
10	256QAM	25	25	15.36	15.36	15.36	
10	256QAM	50	0	15.33	15.20	15.41	
Channel				133147	133247	133447	
Frequency (MHz)				665.5	675.5	695.5	
5	QPSK	1	0	20.49	20.62	20.55	22.5
5	QPSK	1	12	20.46	20.52	20.45	
5	QPSK	1	24	20.57	20.54	20.58	
5	QPSK	12	0	19.60	19.68	19.64	21.5
5	QPSK	12	7	19.53	19.56	19.60	
5	QPSK	12	13	19.64	19.67	19.65	
5	QPSK	25	0	19.59	19.69	19.61	21.5
5	16QAM	1	0	19.80	19.84	19.84	
5	16QAM	1	12	19.82	19.91	19.89	
5	16QAM	1	24	19.85	19.92	19.90	20.5
5	16QAM	12	0	18.52	18.56	18.61	
5	16QAM	12	7	18.67	18.69	18.66	
5	16QAM	12	13	18.66	18.71	18.68	20.5
5	16QAM	25	0	18.65	18.57	18.71	
5	64QAM	1	0	18.74	18.88	18.79	
5	64QAM	1	12	18.76	18.91	18.83	20.5



5	64QAM	1	24	18.86	18.97	18.87	19.5
5	64QAM	12	0	18.46	18.50	18.60	
5	64QAM	12	7	18.67	18.67	18.66	
5	64QAM	12	13	18.70	18.70	18.70	
5	64QAM	25	0	18.67	18.54	18.75	
5	256QAM	1	0	15.32	15.46	15.37	17
5	256QAM	1	12	15.34	15.49	15.41	
5	256QAM	1	24	15.44	15.55	15.45	
5	256QAM	12	0	15.05	15.09	15.19	17
5	256QAM	12	7	15.26	15.26	15.25	
5	256QAM	12	13	15.29	15.29	15.29	
5	256QAM	25	0	15.26	15.13	15.34	

n2 (PC3)_Ant 3

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	19
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	17.50	17.52	17.59	19
20		1	53	17.43	17.44	17.33	
20		1	104	17.43	17.45	17.28	
20		50	1	17.08	17.16	17.05	19
20	DFT-s-OFDM QPSK	50	25	17.62	17.57	17.50	
20		50	50	17.12	17.09	16.95	
20		100	0	17.10	17.10	16.99	
20		1	1	17.73	17.78	17.76	19
20	DFT-s-OFDM 16QAM	1	53	17.61	17.55	17.48	
20		1	104	17.57	17.45	17.44	
20		50	1	16.64	16.69	16.63	19
20		50	25	17.58	17.63	17.59	
20	DFT-s-OFDM 64QAM	50	50	16.60	16.41	16.48	
20		100	0	16.60	16.66	16.57	18
20	DFT-s-OFDM 256QAM	1	1	16.63	16.64	16.56	18
20	CP-OFDM QPSK	1	1	15.23	15.12	15.06	17
20	CP-OFDM 16QAM	1	1	12.88	12.83	12.90	14.5
20	CP-OFDM 64QAM	1	1	16.16	16.11	16.03	18
20	CP-OFDM 256QAM	1	1	15.62	15.54	15.58	17
20		1	1	14.31	14.27	14.20	16
20		1	1	10.83	10.88	10.81	12
Channel				371500	376000	380500	19
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	17.68	17.63	17.47	19
Channel				371000	376000	381000	19
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	17.60	17.62	17.58	19
Channel				370500	376000	381500	19
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	17.68	16.57	17.56	19

n2 (PC3)_Ant 4							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	T-s-OFDM PI/2 B	1	1	17.50	17.52	17.59	19
20		1	53	17.43	17.44	17.33	
20		1	104	17.43	17.45	17.28	
20		50	1	17.08	17.16	17.05	19
20	T-s-OFDM QPS	50	25	17.62	17.57	17.50	
20		50	50	17.12	17.09	16.95	
20		100	0	17.10	17.10	16.99	
20	T-s-OFDM QPS	1	1	17.73	17.78	17.76	19
20		1	53	17.61	17.55	17.48	
20		1	104	17.57	17.45	17.44	
20		50	1	16.64	16.69	16.63	19
20	T-s-OFDM 16Q	50	25	17.58	17.63	17.59	
20		50	50	16.60	16.41	16.48	
20		100	0	16.60	16.66	16.57	18
20	T-s-OFDM 16Q	1	1	16.63	16.64	16.56	18
20	T-s-OFDM 64Q	1	1	15.23	15.12	15.06	17
20	T-s-OFDM 256Q	1	1	12.88	12.83	12.90	14.5
20	CP-OFDM QPSK	1	1	16.16	16.11	16.03	18
20	CP-OFDM 16QAM	1	1	15.62	15.54	15.58	17
20	CP-OFDM 64QAM	1	1	14.31	14.27	14.20	16
20	CP-OFDM 256QAM	1	1	10.83	10.88	10.81	12
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	T-s-OFDM QPS	1	1	17.68	17.63	17.47	19
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	T-s-OFDM QPS	1	1	17.60	17.62	17.58	19
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	T-s-OFDM QPS	1	1	17.68	16.57	17.56	19

n5 (PC3)_Ant 1							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	21
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	19.64	19.67	19.57	21
20		1	53	19.36	19.43	19.38	
20		1	104	19.31	19.35	19.23	
20		50	1	18.70	19.12	19.09	21
20		50	25	19.57	19.62	19.57	
20		50	50	18.53	18.98	18.97	
20		100	0	18.70	19.12	19.06	
20	DFT-s-OFDM QPSK	1	1	19.90	19.98	19.94	21
20		1	53	19.38	19.56	19.52	
20		1	104	19.40	19.39	19.53	
20		50	1	18.71	18.62	18.62	21
20		50	25	19.57	19.60	19.57	
20		50	50	18.53	18.50	18.47	
20		100	0	18.59	18.65	18.57	20
20	DFT-s-OFDM 16QAM	1	1	18.86	18.84	18.75	20
20	DFT-s-OFDM 64QAM	1	1	17.44	17.42	17.29	19
20	DFT-s-OFDM 256QAM	1	1	15.09	15.04	15.00	17
20	CP-OFDM QPSK	1	1	18.33	18.24	18.19	20
20	CP-OFDM 16QAM	1	1	17.91	17.78	17.77	19
20	CP-OFDM 64QAM	1	1	16.41	16.38	16.33	18
20	CP-OFDM 256QAM	1	1	13.11	13.06	13.00	15
Channel				166300	167300	168300	21
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	19.89	19.76	19.71	21
Channel				165800	167300	168800	21
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	19.89	19.72	19.52	21
Channel				165300	167300	169300	21
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	19.53	19.56	19.52	21

n7 (PC3)_Ant 5

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	T-s-OFDM PI/2 E	1	1	11.80	12.20	12.06	14
20		1	53	12.23	12.16	12.04	
20		1	104	12.16	12.17	12.11	
20		50	1	11.78	11.79	11.66	14
20	T-s-OFDM QP	50	25	12.28	12.35	12.11	
20		50	50	11.74	11.66	11.62	
20		100	0	11.73	11.73	11.60	
20	T-s-OFDM QP	1	1	12.33	12.39	12.20	14
20		1	53	12.28	12.33	12.09	
20		1	104	12.27	12.23	12.23	
20		50	1	11.29	11.23	11.06	14
20	T-s-OFDM 16Q	50	25	12.25	12.29	12.21	
20		50	50	11.27	11.21	11.11	
20		100	0	11.15	11.19	11.10	13
20	T-s-OFDM 16Q	1	1	11.33	11.38	11.27	13
20	T-s-OFDM 64Q	1	1	9.84	9.88	9.63	11
20	T-s-OFDM 256Q	1	1	7.46	7.39	7.20	9
20	CP-OFDM QPS	1	1	10.90	10.86	10.69	12
20	P-OFDM 16QA	1	1	10.36	10.34	10.21	12
20	P-OFDM 64QA	1	1	8.92	8.92	8.77	10.5
20	P-OFDM 256Q	1	1	5.54	5.46	5.28	7
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	T-s-OFDM QP	1	1	12.32	12.20	12.09	14
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	T-s-OFDM QP	1	1	12.21	12.13	12.09	14
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	T-s-OFDM QP	1	1	12.25	12.17	12.17	14

n25 (PC3)_Ant 3

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376500	381000	19
Frequency (MHz)				1860	1882.5	1905	
20	DFT-s-OFDM PI/2 BPSK	1	1	17.22	17.30	17.23	19
20		1	53	17.32	17.29	17.24	
20		1	104	17.25	17.22	17.26	
20		50	1	16.85	16.51	16.76	19
20		50	25	17.33	17.31	17.32	
20		50	50	16.84	16.78	16.79	
20		100	0	16.84	16.88	16.73	
20	DFT-s-OFDM QPSK	1	1	17.43	17.48	17.46	19
20		1	53	17.40	17.36	17.38	
20		1	104	17.40	17.38	17.40	
20		50	1	16.37	16.33	16.27	19
20		50	25	17.34	17.40	17.35	
20		50	50	16.43	16.30	16.35	
20		100	0	16.26	16.31	16.23	
20	DFT-s-OFDM 16QAM	1	1	16.49	16.38	16.38	18
20	DFT-s-OFDM 64QAM	1	1	14.95	14.86	14.88	17
20	DFT-s-OFDM 256QAM	1	1	12.34	12.40	12.26	14
20	CP-OFDM QPSK	1	1	15.96	15.87	15.87	17
20	CP-OFDM 16QAM	1	1	15.41	15.34	15.34	17
20	CP-OFDM 64QAM	1	1	14.02	14.00	13.91	16
20	CP-OFDM 256QAM	1	1	10.44	10.40	10.33	12
Channel				371500	376500	381500	19
Frequency (MHz)				1857.5	1882.5	1907.5	
15	DFT-s-OFDM QPSK	1	1	17.40	17.41	17.39	19
Channel				371000	376500	382000	19
Frequency (MHz)				1855	1882.5	1910	
10	DFT-s-OFDM QPSK	1	1	17.34	17.37	16.97	19
Channel				370500	376500	382500	19
Frequency (MHz)				1852.5	1882.5	1912.5	
5	DFT-s-OFDM QPSK	1	1	17.35	17.30	17.20	19

n25 (PC3)_Ant 4							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	-s-OFDM PI/2 B	1	1	17.22	17.30	17.23	19
20		1	53	17.32	17.29	17.24	
20		1	104	17.25	17.22	17.26	
20		50	1	16.85	16.51	16.76	19
20		50	25	17.33	17.31	17.32	
20		50	50	16.84	16.78	16.79	
20		100	0	16.84	16.88	16.73	
20	T-s-OFDM QPS	1	1	17.83	17.88	17.86	19
20		1	53	17.40	17.36	17.38	
20		1	104	17.40	17.38	17.40	
20		50	1	16.37	16.33	16.27	19
20		50	25	17.34	17.40	17.35	
20		50	50	16.43	16.30	16.35	
20		100	0	16.26	16.31	16.23	18
20	T-s-OFDM 16Q	1	1	16.49	16.38	16.38	18
20	T-s-OFDM 64Q	1	1	14.95	14.86	14.88	17
20	T-s-OFDM 256Q	1	1	12.34	12.40	12.26	14
20	CP-OFDM QPSK	1	1	15.96	15.87	15.87	17
20	CP-OFDM 16QAM	1	1	15.41	15.34	15.34	17
20	CP-OFDM 64QAM	1	1	14.02	14.00	13.91	16
20	P-OFDM 256QAM	1	1	10.44	10.40	10.33	12
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	T-s-OFDM QPS	1	1	17.40	17.41	17.39	19
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	T-s-OFDM QPS	1	1	17.34	17.37	16.97	19
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	T-s-OFDM QPS	1	1	17.35	17.30	17.20	19

n26(814-824MHz) (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					163800		21.5
Frequency (MHz)					819		
10	DFT-s-OFDM PI/2 BPSK	1	1		19.62		21.5
10		1	26		19.68		
10		1	50		19.62		
10		25	1		19.27		21.5
10		25	12		19.71		
10		25	25		19.31		
10		50	0		19.25		21.5
10	DFT-s-OFDM QPSK	1	1		19.76		
10		1	26		19.80		
10		1	50		19.79		
10		25	1		18.78		21.5
10		25	12		19.71		
10		25	25		18.80		
10		50	0		18.77		20
10	DFT-s-OFDM 16QAM	1	1		18.79		20
10	DFT-s-OFDM 64QAM	1	1		17.40		19
10	DFT-s-OFDM 256QAM	1	1		15.04		17
10	CP-OFDM QPSK	1	1		18.23		20
10	CP-OFDM 16QAM	1	1		17.84		20
10	CP-OFDM 64QAM	1	1		16.42		18
10	CP-OFDM 256QAM	1	1		12.97		14
Channel				163300	163800	164300	21.5
Frequency (MHz)				816.5	819	821.5	
5	DFT-s-OFDM QPSK	1	1	19.76	19.75	19.74	21.5

n26(824-849MHz) (PC3)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166300	167300	168300	21.5
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM PI/2 BPSK	1	1	19.62	19.64	19.60	21.5
15		1	39	19.55	19.55	19.60	
15		1	77	19.63	19.62	19.64	
15		36	1	19.28	19.20	19.18	21.5
15		36	18	19.69	19.73	19.56	
15		36	37	19.23	19.18	19.18	
15		75	0	19.19	19.28	19.13	
15	DFT-s-OFDM QPSK	1	1	19.78	19.81	19.77	21.5
15		1	39	19.77	19.73	19.70	
15		1	77	19.72	19.88	19.66	
15		36	1	18.75	18.68	18.70	21.5
15		36	18	19.69	19.74	19.59	
15		36	37	18.73	18.69	18.70	
15		75	0	18.75	18.81	18.68	20.5
15	DFT-s-OFDM 16QAM	1	1	18.83	18.85	18.81	20.5
15	DFT-s-OFDM 64QAM	1	1	17.38	17.44	17.40	19.5
15	DFT-s-OFDM 256QAM	1	1	15.06	15.06	15.02	17
15	CP-OFDM QPSK	1	1	18.27	18.30	18.25	20
15	CP-OFDM 16QAM	1	1	17.85	17.90	17.81	19.5
15	CP-OFDM 64QAM	1	1	16.45	16.42	16.38	18
15	CP-OFDM 256QAM	1	1	13.09	13.09	13.07	15
Channel				165800	167300	168800	21.5
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	19.74	19.79	19.57	21.5
Channel				165300	167300	169300	21.5
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	19.82	19.79	19.83	21.5

n30 (PC3)_Ant 5							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					462000		13
Frequency (MHz)					2310		
10	s-OFDM PI/2 E	1	1		11.06		13
10		1	26		11.09		
10		1	50		11.09		
10		25	1		10.64		13
10		25	12		11.14		
10		25	25		10.63		
10		50	0		10.60		
10	T-s-OFDM QP	1	1		11.12		13
10		1	26		11.16		
10		1	50		11.15		
10		25	1		10.14		13
10		25	12		11.15		
10		25	25		10.15		
10		50	0		10.23		12
10	T-s-OFDM 16Q	1	1		10.31		12
10	T-s-OFDM 64Q	1	1		8.79		10
10	T-s-OFDM 256Q	1	1		6.38		8
10	CP-OFDM QPS	1	1		9.70		11
10	P-OFDM 16QA	1	1		9.20		11
10	P-OFDM 64QA	1	1		7.83		9
10	P-OFDM 256Q	1	1		4.26		6
Channel				461500	462000	462500	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	T-s-OFDM QP	1	1	11.01	11.11	11.15	13

n41 (PC2)_Ant 3

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	16
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	14.41	14.27	14.10	13.94	13.75	16
100		1	136	14.25	14.16	13.97	13.97	13.99	
100		1	271	14.16	14.15	14.36	14.49	14.53	
100		135	1	13.84	13.77	13.63	13.48	13.41	16
100		135	67	14.32	14.20	14.12	14.07	14.05	
100		135	136	13.70	13.61	13.62	13.69	13.83	
100		270	0	13.79	13.74	13.68	13.64	13.63	
100	DFT-s-OFDM QPSK	1	1	14.46	14.39	14.13	13.97	13.82	16
100		1	136	14.23	14.16	13.98	14.00	14.04	
100		1	271	14.51	14.62	14.65	14.57	14.62	
100		135	1	13.33	13.21	13.15	12.98	12.87	15.5
100		135	67	14.30	14.21	14.32	14.27	14.24	
100		135	136	13.21	13.07	13.16	13.17	13.31	
100		270	0	13.17	13.12	14.20	13.14	13.11	
100	DFT-s-OFDM 16QAM	1	1	13.54	13.30	13.24	13.02	12.83	15
100	DFT-s-OFDM 64QAM	1	1	11.61	11.48	11.48	11.36	11.18	13
100	DFT-s-OFDM 256QAM	1	1	9.78	9.68	9.52	9.39	9.15	11
100	CP-OFDM QPSK	1	1	12.94	12.85	12.53	12.51	12.27	14
100	CP-OFDM 16QAM	1	1	12.32	12.13	12.02	11.97	11.72	14
100	CP-OFDM 64QAM	1	1	10.84	10.60	10.63	10.42	10.23	12
100	CP-OFDM 256QAM	1	1	7.79	7.78	7.63	7.45	7.22	9
Channel				508200	513402	518598	523800	528996	16
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	14.41	14.35	14.08	13.90	13.72	16
Channel				507204	512904	518598	524298	529998	16
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	14.39	14.30	14.04	13.86	13.71	16
Channel				506202	512400	518598	524796	531000	16
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	14.40	14.38	14.12	13.86	13.81	16
Channel				505200	511902	518598	525798	531996	16
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	14.45	14.44	14.19	13.87	14.07	16
Channel				504204	511404	518598	525798	532998	16
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	14.54	14.34	14.23	13.98	14.08	16
Channel				503202	510900	518598	526296	534000	16
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	14.56	14.47	14.21	14.09	14.28	16
Channel				502200	510402	518598	526800	534996	16
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	14.45	14.37	14.17	13.93	14.29	16
Channel				501204	509904	518598	527298	535998	16
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	14.44	14.30	14.09	14.09	14.31	16

n41 (PC2)_Ant 5									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	15
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	-OFDM PI/2	1	1	13.41	13.27	13.10	12.94	12.75	15
100		1	136	13.25	13.16	12.97	12.97	12.99	
100		1	271	13.16	13.15	13.36	13.49	13.53	
100		135	1	12.84	12.77	12.63	12.48	12.41	
100	-OFDM PI/2	135	67	13.32	13.20	13.12	13.07	13.05	14.5
100		135	136	12.70	12.61	12.62	12.69	12.83	
100		270	0	12.79	12.74	12.68	12.64	12.63	
100		1	1	13.46	13.39	13.13	12.97	12.82	
100	-s-OFDM QPS	1	136	13.23	13.16	12.98	13.00	13.04	15
100		1	271	13.51	13.62	13.65	13.57	13.62	
100		135	1	12.33	12.21	12.15	11.98	11.87	
100		135	67	13.30	13.21	13.32	13.27	13.24	
100	-s-OFDM QPS	135	136	12.21	12.07	12.16	12.17	12.31	14.5
100		270	0	12.17	12.12	13.20	12.14	12.11	
100		1	1	12.54	12.30	12.24	12.02	11.83	
100		1	1	10.61	10.48	10.48	10.36	10.18	
100	-s-OFDM 64Q	1	1	8.78	8.68	8.52	8.39	8.15	10
100	-s-OFDM 256Q	1	1	11.94	11.85	11.53	11.51	11.27	13
100	-s-OFDM QPS	1	1	11.32	11.13	11.02	10.97	10.72	13
100	-s-OFDM 16Q	1	1	9.84	9.60	9.63	9.42	9.23	11
100	-s-OFDM 64Q	1	1	6.79	6.78	6.63	6.45	6.22	8
Channel				508200	513402	518598	523800	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	-s-OFDM QPS	1	1	13.41	13.35	13.08	12.90	12.72	15
Channel				507204	512904	518598	524298	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	-s-OFDM QPS	1	1	13.39	13.30	13.04	12.86	12.71	15
Channel				506202	512400	518598	524796	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	-s-OFDM QPS	1	1	13.40	13.38	13.12	12.86	12.81	15
Channel				505200	511902	518598	525798	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	-s-OFDM QPS	1	1	13.45	13.44	13.19	12.87	13.07	15
Channel				504204	511404	518598	525798	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	-s-OFDM QPS	1	1	13.54	13.34	13.23	12.98	13.08	15
Channel				503202	510900	518598	526296	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	-s-OFDM QPS	1	1	13.56	13.47	13.21	13.09	13.28	15
Channel				502200	510402	518598	526800	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	-s-OFDM QPS	1	1	13.45	13.37	13.17	12.93	13.29	15
Channel				501204	509904	518598	527298	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	-s-OFDM QPS	1	1	13.44	13.30	13.09	13.09	13.31	15

n41 (PC3)_Ant 3

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	14
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	12.28	12.30	12.15	10.49	11.79	14
100		1	136	12.22	12.12	11.96	11.95	12.03	
100		1	271	12.09	12.11	12.30	12.41	12.34	
100		135	1	12.38	12.27	12.12	11.92	11.86	
100		135	67	12.28	12.22	12.09	12.00	12.04	14
100		135	136	12.16	12.05	12.06	12.23	12.23	
100		270	0	12.25	12.22	12.03	12.07	12.12	
100	DFT-s-OFDM QPSK	1	1	12.43	12.26	12.17	12.07	11.71	14
100		1	136	12.25	12.12	11.86	11.94	12.03	
100		1	271	12.42	12.52	12.54	12.47	12.50	
100		135	1	12.24	12.21	12.31	12.29	12.25	
100		135	67	12.30	12.21	11.99	12.02	12.08	14
100		135	136	12.19	12.05	12.06	12.23	12.23	
100		270	0	12.22	12.21	12.02	12.07	12.13	
100	DFT-s-OFDM 16QAM	1	1	12.29	12.23	12.30	12.14	11.67	14
100	DFT-s-OFDM 64QAM	1	1	11.70	11.58	11.54	11.39	11.11	13
100	DFT-s-OFDM 256QAM	1	1	9.72	9.76	9.56	9.37	9.12	11
100	CP-OFDM QPSK	1	1	12.37	12.26	12.13	12.01	12.14	14
100	CP-OFDM 16QAM	1	1	12.35	12.13	12.06	11.92	12.02	14
100	CP-OFDM 64QAM	1	1	10.80	10.51	10.65	10.50	10.51	12
100	CP-OFDM 256QAM	1	1	7.84	7.75	7.62	7.47	7.29	9
Channel				508200	513402	518598	523800	528996	14
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	
90	DFT-s-OFDM QPSK	1	1	12.16	12.08	12.15	11.85	11.65	14
Channel				507204	512904	518598	524298	529998	14
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	12.12	12.11	12.10	11.81	11.75	14
Channel				506202	512400	518598	524796	531000	14
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	
70	DFT-s-OFDM QPSK	1	1	12.17	12.19	11.99	11.82	11.83	14
Channel				505200	511902	518598	525798	531996	14
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	
60	DFT-s-OFDM QPSK	1	1	12.26	12.27	12.11	11.90	11.97	14
Channel				504193	511393	518587	525787	532987	14
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	
50	DFT-s-OFDM QPSK	1	1	12.36	12.39	12.13	11.90	12.08	14
Channel				503202	510900	518598	526296	534000	14
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	
40	DFT-s-OFDM QPSK	1	1	12.43	12.40	12.23	12.00	12.17	14
Channel				502200	510402	518598	526800	534996	14
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	
30	DFT-s-OFDM QPSK	1	1	12.26	12.36	12.06	11.94	12.25	14
Channel				501204	509904	518598	527298	535998	14
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	12.27	12.25	12.01	11.94	12.18	14

n41 (PC3)_Ant 5									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	13
Frequency (MHz)				2546.01	2569.5	2592.99	2616.48	2640	
100	-OFDM PI/2	1	1	11.28	11.30	11.15	9.49	10.79	13
100		1	136	11.22	11.12	10.96	10.95	11.03	
100		1	271	11.09	11.11	11.30	11.41	11.34	
100		135	1	11.38	11.27	11.12	10.92	10.86	
100	-OFDM PI/2	135	67	11.28	11.22	11.09	11.00	11.04	13
100		135	136	11.16	11.05	11.06	11.23	11.23	
100		270	0	11.25	11.22	11.03	11.07	11.12	
100		1	1	11.43	11.26	11.17	11.07	10.71	
100	-s-OFDM QPS	1	136	11.25	11.12	10.86	10.94	11.03	13
100		1	271	11.42	11.52	11.54	11.47	11.50	
100		135	1	11.24	11.21	11.31	11.29	11.25	
100		135	67	11.30	11.21	10.99	11.02	11.08	
100	-s-OFDM QPS	135	136	11.19	11.05	11.06	11.23	11.23	13
100		270	0	11.22	11.21	11.02	11.07	11.13	
100		1	1	11.29	11.23	11.30	11.14	10.67	
100		1	1	10.70	10.58	10.54	10.39	10.11	
100	-s-OFDM 16Q	1	1	8.72	8.76	8.56	8.37	8.12	10
100	-s-OFDM 64Q	1	1	11.37	11.26	11.13	11.01	11.14	13
100	-s-OFDM QPS	1	1	11.35	11.13	11.06	10.92	11.02	13
100	-s-OFDM 16Q	1	1	9.80	9.51	9.65	9.50	9.51	11
100	-s-OFDM 64Q	1	1	6.84	6.75	6.62	6.47	6.29	8
Channel				508200	513402	518598	523800	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2567.01	2592.99	2619	2644.98	(dBm)
90	-s-OFDM QPS	1	1	11.16	11.08	11.15	10.85	10.65	13
Channel				507204	512904	518598	524298	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2564.52	2592.99	2621.49	2649.99	(dBm)
80	-s-OFDM QPS	1	1	11.12	11.11	11.10	10.81	10.75	13
Channel				506202	512400	518598	524796	531000	Tune-up limit (dBm)
Frequency (MHz)				2531.01	2562	2592.99	2623.98	2655	(dBm)
70	-s-OFDM QPS	1	1	11.17	11.19	10.99	10.82	10.83	13
Channel				505200	511902	518598	525798	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2559.51	2592.99	2626.5	2659.98	(dBm)
60	-s-OFDM QPS	1	1	11.26	11.27	11.11	10.90	10.97	13
Channel				504204	511404	518598	525798	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2557.02	2592.99	2626.5	2664.99	(dBm)
50	-s-OFDM QPS	1	1	11.36	11.39	11.13	10.90	11.08	13
Channel				503202	510900	518598	526296	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2554.5	2592.99	2631.48	2670	(dBm)
40	-s-OFDM QPS	1	1	11.43	11.40	11.23	11.00	11.17	13
Channel				502200	510402	518598	526800	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2552.01	2592.99	2634	2674.98	(dBm)
30	-s-OFDM QPS	1	1	11.26	11.36	11.06	10.94	11.25	13
Channel				501204	509904	518598	527298	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2549.52	2592.99	2636.49	2679.99	(dBm)
20	-s-OFDM QPS	1	1	11.27	11.25	11.01	10.94	11.18	13

n48 (PC3)_Ant 6

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				638000	639834	641666	643500	645332	
Frequency (MHz)				3570	3597.51	3624.99	3652.5	3679.98	
40	DFT-s-OFDM PI/2 BPSK	1	1	16.89	17.13	13.82	17.66	17.64	18.5
40		1	53	16.93	17.25	17.50	17.63	17.60	
40		1	104	17.00	17.39	17.48	17.64	17.53	
40		50	1	16.39	16.69	16.98	17.13	17.16	18.5
40		50	25	16.96	17.23	17.55	17.64	17.58	
40		50	50	16.38	16.74	16.92	17.11	16.99	
40		100	0	16.41	16.77	17.08	17.13	17.09	
40	DFT-s-OFDM QPSK	1	1	17.65	17.56	17.69	17.65	17.62	18.5
40		1	53	16.92	17.19	17.49	17.56	17.58	
40		1	104	17.05	17.35	17.51	17.60	17.49	
40		50	1	15.94	16.22	16.49	16.68	16.64	18.5
40		50	25	17.59	17.57	17.65	17.58	17.60	
40		50	50	15.94	16.30	16.43	16.69	16.53	
40		100	0	16.64	16.59	16.67	16.60	16.58	17.5
40	DFT-s-OFDM 16QAM	1	1	16.54	16.56	16.61	16.69	16.72	17.5
40	DFT-s-OFDM 64QAM	1	1	14.55	14.59	14.79	14.96	14.97	16
40	DFT-s-OFDM 256QAM	1	1	12.28	12.50	12.86	13.03	13.10	14
40	CP-OFDM QPSK	1	1	15.39	15.71	15.96	16.19	16.20	17.5
40	CP-OFDM 16QAM	1	1	14.83	15.09	15.38	15.66	15.64	16.5
40	CP-OFDM 64QAM	1	1	13.38	13.56	13.81	14.08	14.13	15.5
40	CP-OFDM 256QAM	1	1	10.31	10.64	10.89	11.17	11.10	12.5
Channel				637334	639500	641666	643832	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3592.5	3624.99	3657.48	3690	
20	DFT-s-OFDM QPSK	1	1	16.67	16.97	17.32	17.48	17.45	18.5

n66 (PC3)_Ant 3

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				344000	349000	354000	19
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM PI/2 BPSK	1	1	17.56	17.49	17.38	19
20		1	53	17.36	17.48	17.41	
20		1	104	17.36	17.53	17.44	
20		50	1	16.98	17.11	17.04	19
20		50	25	17.48	17.54	17.51	
20		50	50	16.91	17.09	16.98	
20		100	0	16.98	17.14	16.99	
20	DFT-s-OFDM QPSK	1	1	17.59	17.53	17.63	19
20		1	53	17.53	17.52	17.57	
20		1	104	17.65	17.69	17.62	
20		50	1	16.43	16.60	16.62	19
20		50	25	17.56	17.58	17.57	
20		50	50	16.55	16.52	16.51	
20		100	0	16.53	16.65	16.58	18
20	DFT-s-OFDM 16QAM	1	1	16.65	16.59	16.64	18
20	DFT-s-OFDM 64QAM	1	1	15.16	15.06	15.13	16
20	DFT-s-OFDM 256QAM	1	1	12.53	12.63	12.67	14
20	CP-OFDM QPSK	1	1	16.05	16.06	16.11	17
20	CP-OFDM 16QAM	1	1	15.55	15.58	15.55	17
20	CP-OFDM 64QAM	1	1	14.27	14.17	14.26	15
20	CP-OFDM 256QAM	1	1	10.61	10.66	10.68	12
Channel				343500	349000	354500	19
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	17.56	17.59	17.62	19
Channel				343000	349000	355000	19
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	17.51	17.51	17.66	19
Channel				342500	349000	355500	19
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	17.52	17.65	17.63	19

n66 (PC3)_Ant 4							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				344000	349000	354000	18.5
Frequency (MHz)				1720	1745	1770	
20	T-s-OFDM PI/2 B	1	1	16.56	16.49	16.38	18.5
20		1	53	16.86	16.98	16.91	
20		1	104	16.86	17.03	16.94	
20		50	1	16.48	16.61	16.54	18.5
20	T-s-OFDM QPS	50	25	16.98	17.04	17.01	
20		50	50	16.41	16.59	16.48	
20		100	0	16.48	16.64	16.49	
20	T-s-OFDM QPS	1	1	17.09	17.03	17.13	18.5
20		1	53	17.03	17.02	17.07	
20		1	104	17.15	17.19	17.12	
20		50	1	15.93	16.10	16.12	18.5
20	T-s-OFDM 16Q	50	25	17.06	17.08	17.07	
20		50	50	16.05	16.02	16.01	
20		100	0	16.03	16.15	16.08	17
20	T-s-OFDM 16Q	1	1	16.15	16.09	16.14	17
20	T-s-OFDM 64Q	1	1	14.66	14.56	14.63	163
20	T-s-OFDM 256Q	1	1	12.03	12.13	12.17	13
20	CP-OFDM QPSK	1	1	15.55	15.56	15.61	17
20	CP-OFDM 16QAM	1	1	15.05	15.08	15.05	16
20	CP-OFDM 64QAM	1	1	13.77	13.67	13.76	15
20	P-OFDM 256QA	1	1	10.11	10.16	10.18	11
Channel				343500	349000	354500	18.5
Frequency (MHz)				1717.5	1745	1772.5	
15	T-s-OFDM QPS	1	1	17.06	17.09	17.12	18.5
Channel				343000	349000	355000	18.5
Frequency (MHz)				1715	1745	1775	
10	T-s-OFDM QPS	1	1	17.01	17.01	17.16	18.5
Channel				342500	349000	355500	18.5
Frequency (MHz)				1712.5	1745	1777.5	
5	T-s-OFDM QPS	1	1	17.02	17.15	17.13	18.5

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BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				134600	136100	137600	21.5
Frequency (MHz)				673	680.5	688	
20	DFT-s-OFDM PI/2 BPSK	1	1	20.03	19.87	19.89	21.5
20		1	53	19.92	19.90	19.78	
20		1	104	19.91	19.83	19.52	
20		50	1	19.45	19.40	19.42	21.5
20		50	25	20.04	20.03	19.93	
20		50	50	19.57	19.48	19.26	
20		100	0	19.55	19.40	19.35	
20	DFT-s-OFDM QPSK	1	1	20.20	20.24	20.18	21.5
20		1	53	20.08	20.06	19.97	
20		1	104	20.02	19.91	19.58	
20		50	1	19.08	18.90	18.95	21.5
20		50	25	20.13	20.15	20.12	
20		50	50	19.08	18.96	18.73	
20		100	0	19.01	19.03	18.91	
20	DFT-s-OFDM 16QAM	1	1	19.23	19.06	19.12	21
20	DFT-s-OFDM 64QAM	1	1	17.64	17.49	17.52	19
20	DFT-s-OFDM 256QAM	1	1	15.03	14.86	14.90	16
20	CP-OFDM QPSK	1	1	18.69	18.48	18.60	20
20	CP-OFDM 16QAM	1	1	18.19	17.99	18.10	20
20	CP-OFDM 64QAM	1	1	16.78	16.62	16.64	18
20	CP-OFDM 256QAM	1	1	13.05	12.89	12.94	14
Channel				134100	136100	138100	21.5
Frequency (MHz)				670.5	680.5	690.5	
15	DFT-s-OFDM QPSK	1	1	20.19	19.96	20.13	21.5
Channel				133600	136100	138600	21.5
Frequency (MHz)				668	680.5	693	
10	DFT-s-OFDM QPSK	1	1	20.12	19.99	20.04	21.5
Channel				133100	136100	139100	21.5
Frequency (MHz)				665.5	680.5	695.5	
5	DFT-s-OFDM QPSK	1	1	20.20	19.96	19.93	21.5

n77(3450-3550MHz) (PC2)_Ant 6

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			15.61			17
100		1	136			14.92			
100		1	271			14.75			
100		135	1			14.77			16
100		135	67			15.00			
100		135	136			14.29			
100		270	0			14.57			
100	DFT-s-OFDM QPSK	1	1			15.71			17
100		1	136			14.84			
100		1	271			14.72			
100		135	1			14.26			16
100		135	67			14.93			
100		135	136			13.80			
100		270	0			14.00			
100	DFT-s-OFDM 16QAM	1	1			14.69			15.5
100	DFT-s-OFDM 64QAM	1	1			13.04			14
100	DFT-s-OFDM 256QAM	1	1			10.98			12
100	CP-OFDM QPSK	1	1			14.11			15
100	CP-OFDM 16QAM	1	1			13.53			14.5
100	CP-OFDM 64QAM	1	1			12.02			13
100	CP-OFDM 256QAM	1	1			9.07			11
Channel				632668	633000	633334	633666	634000	Tune-up limit
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	(dBm)
80	DFT-s-OFDM QPSK	1	1	15.55	15.47	15.50	15.28	15.21	17
Channel				632000	632668	633334	634000	634666	Tune-up limit
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	(dBm)
60	DFT-s-OFDM QPSK	1	1	15.49	15.45	15.32	15.25	15.16	17
Channel				631334	632334	633334	634332	635332	Tune-up limit
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	(dBm)
40	DFT-s-OFDM QPSK	1	1	15.64	15.55	15.35	15.26	15.31	17
Channel				631000	632168	633334	634500	635666	Tune-up limit
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	(dBm)
30	DFT-s-OFDM QPSK	1	1	15.64	15.55	15.29	15.26	15.32	17
Channel				630668	632000	633334	634666	636000	Tune-up limit
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	(dBm)
20	DFT-s-OFDM QPSK	1	1	15.54	15.40	15.20	15.20	15.18	17

n77(3450-3550MHz) (PC3)_Ant 6

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			13.45			15
100		1	136			12.91			
100		1	271			12.75			
100		135	1			13.25			15
100		135	67			13.08			
100		135	136			12.83			
100		270	0			13.09			
100	DFT-s-OFDM QPSK	1	1			13.65			15
100		1	136			13.19			
100		1	271			12.67			
100		135	1			13.29			14.5
100		135	67			13.03			
100		135	136			12.80			
100		270	0			13.11			
100	DFT-s-OFDM 16QAM	1	1			13.50			14.5
100	DFT-s-OFDM 64QAM	1	1			12.99			14
100	DFT-s-OFDM 256QAM	1	1			11.05			12
100	CP-OFDM QPSK	1	1			13.45			14.5
100	CP-OFDM 16QAM	1	1			13.30			14
100	CP-OFDM 64QAM	1	1			12.11			13
100	CP-OFDM 256QAM	1	1			9.06			10
Channel				632668	633000	633334	633666	634000	Tune-up limit
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	(dBm)
80	DFT-s-OFDM QPSK	1	1	13.51	13.46	13.46	13.39	13.37	15
Channel				632000	632668	633334	634000	634666	Tune-up limit
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	(dBm)
60	DFT-s-OFDM QPSK	1	1	13.46	13.36	13.34	13.18	13.23	15
Channel				631334	632334	633334	634332	635332	Tune-up limit
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	(dBm)
40	DFT-s-OFDM QPSK	1	1	13.69	13.57	13.44	13.27	13.35	15
Channel				631000	632168	633334	634500	635666	Tune-up limit
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	(dBm)
30	DFT-s-OFDM QPSK	1	1	13.66	13.51	13.33	13.25	13.32	15
Channel				630668	632000	633334	634666	636000	Tune-up limit
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	(dBm)
20	DFT-s-OFDM QPSK	1	1	13.53	13.37	13.16	13.14	13.13	15

n77(3700-3980MHz) (PC2)_Ant 6

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	17.5
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	15.43	15.33	15.70	16.33	16.29	17.5
100		1	136	14.92	15.80	16.35	16.31	16.17	
100		1	271	15.11	16.45	16.21	16.06	15.98	
100		135	1	14.64	15.00	15.56	15.97	15.81	17.5
100		135	67	14.97	15.75	16.28	16.37	16.14	
100		135	136	14.39	15.63	15.79	15.65	15.46	
100		270	0	14.58	15.34	15.72	15.89	15.73	
100	DFT-s-OFDM QPSK	1	1	16.41	16.31	16.64	16.48	16.40	17.5
100		1	136	14.84	15.83	16.33	16.39	16.07	
100		1	271	15.04	16.41	16.22	16.03	15.97	
100		135	1	14.15	14.56	15.10	15.48	15.35	17.5
100		135	67	16.37	16.31	16.40	16.34	16.32	
100		135	136	13.92	15.19	15.29	15.16	15.01	
100		270	0	14.05	14.78	15.21	15.28	15.15	
100	DFT-s-OFDM 16QAM	1	1	15.38	15.25	15.27	15.34	15.51	16.5
100	DFT-s-OFDM 64QAM	1	1	13.71	13.62	13.60	13.67	13.76	14.5
100	DFT-s-OFDM 256QAM	1	1	11.28	11.44	11.42	11.70	11.80	12.5
100	CP-OFDM QPSK	1	1	14.14	14.28	14.29	14.55	14.36	15
100	CP-OFDM 16QAM	1	1	14.26	14.18	14.29	14.39	14.30	15
100	CP-OFDM 64QAM	1	1	12.26	12.38	12.09	12.70	12.93	13.5
100	CP-OFDM 256QAM	1	1	9.75	9.68	9.77	9.83	9.89	10.5
Channel				649334	652668	656000	659332	662666	17.5
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	15.42	15.26	15.74	16.51	16.34	17.5
Channel				648668	652334	656000	659666	663332	17.5
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	15.43	15.27	15.95	16.44	16.29	17.5
Channel				648000	652000	656000	660000	664000	17.5
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	15.87	15.54	16.42	16.49	16.24	17.5
Channel				647668	651834	656000	660166	664332	17.5
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	15.72	15.42	16.31	16.49	16.10	17.5
Channel				647334	651668	656000	660332	664666	17.5
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	15.59	15.44	16.39	16.40	16.08	17.5

n77(3700-3980MHz) (PC3)_Ant 6

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	16
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	13.22	12.97	13.43	14.22	14.31	16
100		1	136	12.79	13.56	14.23	14.09	14.13	
100		1	271	13.01	14.17	13.97	13.87	14.04	
100		135	1	13.05	13.25	13.83	14.27	14.33	
100		135	67	12.90	13.57	14.08	14.16	14.08	16
100		135	136	12.90	13.94	14.12	13.93	14.05	
100		270	0	12.93	13.58	14.06	14.19	14.11	
100	DFT-s-OFDM QPSK	1	1	14.26	14.24	14.38	14.32	14.30	16
100		1	136	12.82	13.60	14.13	14.11	14.11	
100		1	271	12.87	14.24	13.99	13.84	13.97	
100		135	1	14.26	13.29	14.30	14.26	14.20	
100		135	67	12.88	13.56	14.09	14.15	14.10	16
100		135	136	12.78	13.88	14.09	14.03	13.92	
100		270	0	13.49	13.55	13.58	13.51	13.47	15
100	DFT-s-OFDM 16QAM	1	1	13.12	13.12	13.56	14.13	14.33	16
100	DFT-s-OFDM 64QAM	1	1	13.26	13.37	13.28	13.56	13.47	15
100	DFT-s-OFDM 256QAM	1	1	11.26	11.37	11.44	11.56	11.55	13
100	CP-OFDM QPSK	1	1	14.14	14.10	14.20	14.15	14.19	16
100	CP-OFDM 16QAM	1	1	13.17	12.91	13.35	14.08	14.31	16
100	CP-OFDM 64QAM	1	1	12.17	12.34	12.29	12.26	12.47	14
100	CP-OFDM 256QAM	1	1	9.47	9.50	9.47	9.55	9.16	11
Channel				649334	652668	656000	659332	662666	16
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	13.31	13.03	13.64	14.34	14.30	16
Channel				648668	652334	656000	659666	663332	16
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	13.34	13.08	13.81	14.24	14.07	16
Channel				648000	652000	656000	660000	664000	16
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	13.58	13.40	14.26	14.46	14.05	16
Channel				647668	651834	656000	660166	664332	16
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	13.49	13.32	14.16	14.26	14.00	16
Channel				647334	651668	656000	660332	664666	16
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	13.61	13.30	14.27	14.21	13.92	16

n78(3450-3550MHz) (PC2)_Ant 6

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			16.83			19
100		1	136			16.09			
100		1	271			15.79			
100		135	1			16.05			18
100		135	67			16.17			
100		135	136			15.46			
100		270	0			15.74			
100	DFT-s-OFDM QPSK	1	1			17.08			19
100		1	136			16.71			
100		1	271			16.59			
100		135	1			16.47			18
100		135	67			16.36			
100		135	136			16.21			
100		270	0			15.71			17
100	DFT-s-OFDM 16QAM	1	1			15.90			16.5
100	DFT-s-OFDM 64QAM	1	1			14.26			16
100	DFT-s-OFDM 256QAM	1	1			12.20			14
100	CP-OFDM QPSK	1	1			15.37			17
100	CP-OFDM 16QAM	1	1			14.84			16
100	CP-OFDM 64QAM	1	1			13.31			15
100	CP-OFDM 256QAM	1	1			10.32			12
Channel				633000	633166	633334	633500	633666	Tune-up limit
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	(dBm)
90	DFT-s-OFDM QPSK	1	1	16.76	16.76	16.74	16.75	16.74	19
Channel				632668	633000	633334	633666	634000	Tune-up limit
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	(dBm)
80	DFT-s-OFDM QPSK	1	1	16.81	16.73	16.77	16.70	16.59	19
Channel				632334	632834	633334	633832	634332	Tune-up limit
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	(dBm)
70	DFT-s-OFDM QPSK	1	1	16.82	16.78	16.74	16.56	16.56	19
Channel				632000	632666	633334	634000	634666	Tune-up limit
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	(dBm)
60	DFT-s-OFDM QPSK	1	1	16.81	16.65	16.58	16.42	16.42	19
Channel				631668	632500	633334	634166	635000	Tune-up limit
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	(dBm)
50	DFT-s-OFDM QPSK	1	1	16.77	16.54	16.48	16.32	16.17	19
Channel				631334	636672	633334	634334	635332	Tune-up limit
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	(dBm)
40	DFT-s-OFDM QPSK	1	1	16.86	16.39	16.60	16.46	16.49	19
Channel				631000	632166	633334	634500	635666	Tune-up limit
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	(dBm)
30	DFT-s-OFDM QPSK	1	1	16.98	16.72	16.50	16.39	16.32	19
Channel				630668	632000	633334	634668	636000	Tune-up limit
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	(dBm)
20	DFT-s-OFDM QPSK	1	1	16.91	16.70	16.48	16.35	16.33	19

n78(3450-3550MHz) (PC3)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			14.66			16
100		1	136			14.07			
100		1	271			13.79			
100		135	1			14.55			15
100		135	67			14.19			
100		135	136			13.92			
100		270	0			14.26			
100	DFT-s-OFDM QPSK	1	1			14.86			16
100		1	136			14.11			
100		1	271			13.76			
100		135	1			14.49			15
100		135	67			14.17			
100		135	136			13.94			
100		270	0			14.23			
100	DFT-s-OFDM 16QAM	1	1			14.62			15.5
100	DFT-s-OFDM 64QAM	1	1			14.24			15
100	DFT-s-OFDM 256QAM	1	1			12.20			13
100	CP-OFDM QPSK	1	1			14.84			15.5
100	CP-OFDM 16QAM	1	1			14.85			15.5
100	CP-OFDM 64QAM	1	1			13.31			14
100	CP-OFDM 256QAM	1	1			10.30			11
Channel				633000	633166	633334	633500	633666	Tune-up limit
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	(dBm)
90	DFT-s-OFDM QPSK	1	1	14.77	14.79	14.76	14.72	14.73	16
Channel				632668	633000	633334	633666	634000	Tune-up limit
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	(dBm)
80	DFT-s-OFDM QPSK	1	1	14.86	14.73	14.72	14.70	14.56	16
Channel				632334	632834	633334	633832	634332	Tune-up limit
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	(dBm)
70	DFT-s-OFDM QPSK	1	1	14.80	14.80	14.73	14.52	14.50	16
Channel				632000	632666	633334	634000	634666	Tune-up limit
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	(dBm)
60	DFT-s-OFDM QPSK	1	1	14.80	14.64	14.56	14.40	14.37	16
Channel				631668	632500	633334	634166	635000	Tune-up limit
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	(dBm)
50	DFT-s-OFDM QPSK	1	1	14.73	14.46	14.47	14.30	14.29	16
Channel				631334	636672	633334	634334	635332	Tune-up limit
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	(dBm)
40	DFT-s-OFDM QPSK	1	1	15.06	14.40	14.61	14.51	14.44	16
Channel				631000	632166	633334	634500	635666	Tune-up limit
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	(dBm)
30	DFT-s-OFDM QPSK	1	1	14.95	14.69	14.53	14.34	14.31	16
Channel				630668	632000	633334	634668	636000	Tune-up limit
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	(dBm)
20	DFT-s-OFDM QPSK	1	1	14.94	14.66	14.42	14.31	14.28	16

n78(3700-3800MHz) (PC2)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			16.62			18
100		1	136			15.99			
100		1	271			16.05			
100		135	1			15.78			17
100		135	67			16.09			
100	DFT-s-OFDM QPSK	135	136			15.42			
100		270	0			15.62			
100		1	1			16.78			18
100		1	136			16.59			
100		1	271			16.33			
100	DFT-s-OFDM QPSK	135	1			15.30			17
100		135	67			16.17			
100		135	136			15.69			
100		270	0			15.53			16
100	DFT-s-OFDM 16QAM	1	1			15.42			16
100	DFT-s-OFDM 64QAM	1	1			13.97			15
100	DFT-s-OFDM 256QAM	1	1			11.97			13
100	CP-OFDM QPSK	1	1			15.10			17
100	CP-OFDM 16QAM	1	1			14.58			16
100	CP-OFDM 64QAM	1	1			12.89			14
100	CP-OFDM 256QAM	1	1			10.05			12
Channel				649668	649834	650000	650166	650332	Tune-up limit
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	(dBm)
90	DFT-s-OFDM QPSK	1	1	16.58	16.53	16.47	16.47	16.42	18
Channel				649334	649666	650000	650334	650666	Tune-up limit
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	(dBm)
80	DFT-s-OFDM QPSK	1	1	16.58	16.53	16.49	16.38	16.31	18
Channel				649000	649500	650000	650500	651000	Tune-up limit
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	(dBm)
70	DFT-s-OFDM QPSK	1	1	16.62	16.53	16.45	16.33	16.28	18
Channel				648668	649334	650000	650666	651332	Tune-up limit
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	(dBm)
60	DFT-s-OFDM QPSK	1	1	16.58	16.40	16.28	16.15	16.11	18
Channel				648334	649166	650000	650834	651666	Tune-up limit
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	(dBm)
50	DFT-s-OFDM QPSK	1	1	16.71	16.45	16.32	16.08	16.15	18
Channel				648000	649000	650000	651000	652000	Tune-up limit
Frequency (MHz)				3720	3735	3750	3765	3780	(dBm)
40	DFT-s-OFDM QPSK	1	1	16.57	16.70	16.47	16.34	16.37	18
Channel				647668	648834	650000	651166	652332	Tune-up limit
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	(dBm)
30	DFT-s-OFDM QPSK	1	1	16.66	16.55	16.31	16.29	16.33	18
Channel				647334	648666	650000	651334	652666	Tune-up limit
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	(dBm)
20	DFT-s-OFDM QPSK	1	1	16.61	16.47	16.29	16.24	16.27	18

n78(3700-3800MHz) (PC3)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			14.55			16
100		1	136			14.02			
100		1	271			14.10			
100		135	1			14.36			15.5
100		135	67			14.07			
100	DFT-s-OFDM QPSK	135	136			13.93			
100		270	0			14.09			
100		1	1			14.65			16
100		1	136			14.00			
100		1	271			13.97			
100	DFT-s-OFDM QPSK	135	1			14.27			15.5
100		135	67			14.05			
100		135	136			13.93			
100		270	0			14.12			
100	DFT-s-OFDM 16QAM	1	1			14.41			16
100	DFT-s-OFDM 64QAM	1	1			13.97			15
100	DFT-s-OFDM 256QAM	1	1			12.01			14
100	CP-OFDM QPSK	1	1			14.45			16
100	CP-OFDM 16QAM	1	1			14.51			16
100	CP-OFDM 64QAM	1	1			13.07			15
100	CP-OFDM 256QAM	1	1			9.98			11
Channel				649668	649834	650000	650166	650332	Tune-up limit
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	(dBm)
90	DFT-s-OFDM QPSK	1	1	14.60	14.53	14.58	14.49	14.46	16
Channel				649334	649666	650000	650334	650666	Tune-up limit
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	(dBm)
80	DFT-s-OFDM QPSK	1	1	14.57	14.47	14.46	14.31	14.33	16
Channel				649000	649500	650000	650500	651000	Tune-up limit
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	(dBm)
70	DFT-s-OFDM QPSK	1	1	14.52	14.51	14.33	14.31	14.27	16
Channel				648668	649334	650000	650666	651332	Tune-up limit
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	(dBm)
60	DFT-s-OFDM QPSK	1	1	14.57	14.42	14.22	14.07	14.13	16
Channel				648334	649166	650000	650834	651666	Tune-up limit
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	(dBm)
50	DFT-s-OFDM QPSK	1	1	14.56	14.44	14.30	14.08	14.16	16
Channel				648000	649000	650000	651000	652000	Tune-up limit
Frequency (MHz)				3720	3735	3750	3765	3780	(dBm)
40	DFT-s-OFDM QPSK	1	1	14.55	14.51	14.42	14.44	14.44	16
Channel				647668	648834	650000	651166	652332	Tune-up limit
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	(dBm)
30	DFT-s-OFDM QPSK	1	1	14.47	14.18	14.34	14.36	14.33	16
Channel				647334	648666	650000	651334	652666	Tune-up limit
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	(dBm)
20	DFT-s-OFDM QPSK	1	1	14.51	14.42	14.30	14.31	14.31	16

CA_5B_ANT 1													
Combination:10MHz+10MHz(50RB+50RB)													
PCC Channel	PCC Channel (3GPP)	UL Fre. (MHz)	SCC Channel	UL Fre. (MHz)	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
						RB Size	RB Offset	RB Size	RB Offset				
20450	20450	829	20549	838.9	QPSK	1	0	0	0	1	0	20.21	22.00
20525	20476	831.6	20575	841.5	QPSK	1	0	0	0	1	0	20.26	22.00
20600	20501	834.1	20600	844	QPSK	1	0	0	0	1	0	20.09	22.00
20450	20450	829	20549	838.9	16QAM	1	0	0	0	1	0	19.94	22.00
20525	20476	831.6	20575	841.5	16QAM	1	0	0	0	1	0	20.08	22.00
20600	20501	834.1	20600	844	16QAM	1	0	0	0	1	0	19.91	22.00
20450	20450	829	20549	838.9	64QAM	1	0	0	0	1	0	19.89	22.00
20525	20476	831.6	20575	841.5	64QAM	1	0	0	0	1	0	19.90	22.00
20600	20501	834.1	20600	844	64QAM	1	0	0	0	1	0	19.92	22.00
20450	20450	829	20549	838.9	256QAM	1	0	0	0	1	0	19.89	22.00
20525	20476	831.6	20575	841.5	256QAM	1	0	0	0	1	0	19.87	22.00
20600	20501	834.1	20600	844	256QAM	1	0	0	0	1	0	19.90	22.00
20450	20450	829	20549	838.9	QPSK	50	0	0	0	1	0	19.02	21.00
20525	20476	831.6	20575	841.5	QPSK	50	0	0	0	1	0	19.16	21.00
20600	20501	834.1	20600	844	QPSK	50	0	0	0	1	0	19.08	21.00

CA_41C_ANT 5													
Combination:20MHz+20MHz(100RB+100RB)													
PCC Channel	PCC Channel (3GPP)	UL Fre. (MHz)	SCC Channel	UL Fre. (MHz)	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
						RB Size	RB Offset	RB Size	RB Offset				
39750	39750	2506	39948	2525.8	QPSK	1	0	0	0	1	0	11.15	13.00
40620	40521	2583.1	40719	2602.9	QPSK	1	0	0	0	1	0	11.19	13.00
41490	41292	2660.2	41490	2680	QPSK	1	0	0	0	1	0	11.03	13.00
39750	39750	2506	39948	2525.8	16QAM	1	0	0	0	1	0	11.16	13.00
40620	40521	2583.1	40719	2602.9	16QAM	1	0	0	0	1	0	11.10	13.00
41490	41292	2660.2	41490	2680	16QAM	1	0	0	0	1	0	11.08	13.00
39750	39750	2506	39948	2525.8	64QAM	1	0	0	0	1	0	11.14	13.00
40620	40521	2583.1	40719	2602.9	64QAM	1	0	0	0	1	0	11.06	13.00
41490	41292	2660.2	41490	2680	64QAM	1	0	0	0	1	0	11.03	13.00
39750	39750	2506	39948	2525.8	256QAM	1	0	0	0	1	0	11.01	13.00
40620	40521	2583.1	40719	2602.9	256QAM	1	0	0	0	1	0	11.11	13.00
41490	41292	2660.2	41490	2680	256QAM	1	0	0	0	1	0	11.05	13.00
39750	39750	2506	39948	2525.8	QPSK	50	0	0	0	1	0	10.26	12.00
40620	40521	2583.1	40719	2602.9	QPSK	50	0	0	0	1	0	10.33	12.00
41490	41292	2660.2	41490	2680	QPSK	50	0	0	0	1	0	10.20	12.00

CA_41C_PC 2_ANT 5													
Combination:20MHz+20MHz(100RB+100RB)													
PCC Channel	PCC Channel (3GPP)	UL Fre. (MHz)	SCC Channel	UL Fre. (MHz)	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
						RB Size	RB Offset	RB Size	RB Offset				
39750	39750	2506	39948	2525.8	QPSK	1	0	0	0	1	0	14.03	16.00
40620	40521	2583.1	40719	2602.9	QPSK	1	0	0	0	1	0	14.18	16.00
41490	41292	2660.2	41490	2680	QPSK	1	0	0	0	1	0	13.09	16.00
39750	39750	2506	39948	2525.8	16QAM	1	0	0	0	1	0	13.10	16.00
40620	40521	2583.1	40719	2602.9	16QAM	1	0	0	0	1	0	13.14	16.00
41490	41292	2660.2	41490	2680	16QAM	1	0	0	0	1	0	13.03	16.00
39750	39750	2506	39948	2525.8	64QAM	1	0	0	0	1	0	13.06	16.00
40620	40521	2583.1	40719	2602.9	64QAM	1	0	0	0	1	0	13.12	16.00
41490	41292	2660.2	41490	2680	64QAM	1	0	0	0	1	0	13.09	16.00
39750	39750	2506	39948	2525.8	256QAM	1	0	0	0	1	0	12.99	16.00
40620	40521	2583.1	40719	2602.9	256QAM	1	0	0	0	1	0	13.04	16.00
41490	41292	2660.2	41490	2680	256QAM	1	0	0	0	1	0	13.03	16.00
39750	39750	2506	39948	2525.8	QPSK	50	0	0	0	1	0	12.29	15.00
40620	40521	2583.1	40719	2602.9	QPSK	50	0	0	0	1	0	12.33	15.00
41490	41292	2660.2	41490	2680	QPSK	50	0	0	0	1	0	12.22	15.00

CA_48C_ANT 6													
Combination:20MHz+20MHz(100RB+100RB)													
PCC Channel	PCC Channel (3GPP)	UL Fre. (MHz)	SCC Channel	UL Fre. (MHz)	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
						RB Size	RB Offset	RB Size	RB Offset				
55340	55340	3560	55538	3579.8	QPSK	1	0	0	0	1	0	16.19	18.00
55990	55891	3615.1	56089	3634.9	QPSK	1	0	0	0	1	0	16.24	18.00
56640	56442	3670.2	56640	3690	QPSK	1	0	0	0	1	0	16.11	18.00
55340	55340	3560	55538	3579.8	16QAM	1	0	0	0	1	0	16.06	18.00
55990	55891	3615.1	56089	3634.9	16QAM	1	0	0	0	1	0	16.15	18.00
56640	56442	3670.2	56640	3690	16QAM	1	0	0	0	1	0	16.03	18.00
55340	55340	3560	55538	3579.8	64QAM	1	0	0	0	1	0	16.11	18.00
55990	55891	3615.1	56089	3634.9	64QAM	1	0	0	0	1	0	16.03	18.00
56640	56442	3670.2	56640	3690	64QAM	1	0	0	0	1	0	15.96	18.00
55340	55340	3560	55538	3579.8	256QAM	1	0	0	0	1	0	16.05	18.00
55990	55891	3615.1	56089	3634.9	256QAM	1	0	0	0	1	0	16.11	18.00
56640	56442	3670.2	56640	3690	256QAM	1	0	0	0	1	0	15.89	18.00
55340	55340	3560	55538	3579.8	QPSK	50	0	0	0	1	0	15.33	17.00
55990	55891	3615.1	56089	3634.9	QPSK	50	0	0	0	1	0	15.26	17.00
56640	56442	3670.2	56640	3690	QPSK	50	0	0	0	1	0	15.20	17.00

CA_66B_ANT 4												
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Combination:10MHz+10MHz(50RB+50RB)													
PCC Channel	PCC Channel (3GPP)	UL Fre. (MHz)	SCC Channel	UL Fre. (MHz)	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
						RB Size	RB Offset	RB Size	RB Offset				
132072	132022	1715	132121	1724.9	QPSK	1	0	0	0	1	0	15.69	17.50
132322	132373	1750.1	132472	1760	QPSK	1	0	0	0	1	0	15.76	17.50
132572	132523	1765.1	132622	1775	QPSK	1	0	0	0	1	0	15.64	17.50
132072	132022	1715	132121	1724.9	16QAM	1	0	0	0	1	0	15.70	17.50
132322	132373	1750.1	132472	1760	16QAM	1	0	0	0	1	0	15.58	17.50
132572	132523	1765.1	132622	1775	16QAM	1	0	0	0	1	0	15.53	17.50
132072	132022	1715	132121	1724.9	64QAM	1	0	0	0	1	0	15.45	17.50
132322	132373	1750.1	132472	1760	64QAM	1	0	0	0	1	0	15.75	17.50
132572	132523	1765.1	132622	1775	64QAM	1	0	0	0	1	0	15.64	17.50
132072	132022	1715	132121	1724.9	256QAM	1	0	0	0	1	0	15.70	17.50
132322	132373	1750.1	132472	1760	256QAM	1	0	0	0	1	0	15.68	17.50
132572	132523	1765.1	132622	1775	256QAM	1	0	0	0	1	0	15.53	17.50
132072	132022	1715	132121	1724.9	QPSK	25	0	0	0	1	0	14.76	16.50
132322	132373	1750.1	132472	1760	QPSK	25	0	0	0	1	0	14.61	16.50
132572	132523	1765.1	132622	1775	QPSK	25	0	0	0	1	0	14.70	16.50

CA_66C_ANT 4													
Combination:20MHz+20MHz(100RB+100RB)													
PCC Channel	PCC Channel (3GPP)	UL Fre. (MHz)	SCC Channel	UL Fre. (MHz)	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
						RB Size	RB Offset	RB Size	RB Offset				
132072	132072	1720	132270	1739.8	QPSK	1	0	0	0	1	0	15.81	17.50
132322	132323	1745.1	132521	1764.9	QPSK	1	0	0	0	1	0	15.88	17.50
132572	132374	1750.2	132572	1770	QPSK	1	0	0	0	1	0	15.73	17.50
132072	132072	1720	132270	1739.8	16QAM	1	0	0	0	1	0	15.80	17.50
132322	132323	1745.1	132521	1764.9	16QAM	1	0	0	0	1	0	15.75	17.50
132572	132374	1750.2	132572	1770	16QAM	1	0	0	0	1	0	15.71	17.50
132072	132072	1720	132270	1739.8	64QAM	1	0	0	0	1	0	15.64	17.50
132322	132323	1745.1	132521	1764.9	64QAM	1	0	0	0	1	0	15.68	17.50
132572	132374	1750.2	132572	1770	64QAM	1	0	0	0	1	0	15.83	17.50
132072	132072	1720	132270	1739.8	256QAM	1	0	0	0	1	0	15.77	17.50
132322	132323	1745.1	132521	1764.9	256QAM	1	0	0	0	1	0	15.69	17.50
132572	132374	1750.2	132572	1770	256QAM	1	0	0	0	1	0	15.55	17.50
132072	132072	1720	132270	1739.8	QPSK	50	0	0	0	1	0	14.73	16.50
132322	132323	1745.1	132521	1764.9	QPSK	50	0	0	0	1	0	14.83	16.50
132572	132374	1750.2	132572	1770	QPSK	50	0	0	0	1	0	14.90	16.50

2.4GHz WLAN ANT 0

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
2.4GHz WLAN ANT 0	802.11b 1Mbps	CH 1	2412	10.83	11.50	12.00	98.80
		CH 7	2442	9.95	10.50	12.00	98.71
		CH 13	2472	10.94	11.50	12.00	98.74
	802.11g 6Mbps	CH 1	2412	10.42	11.00	12.00	98.35
		CH 7	2442	9.66	10.50	12.00	98.35
		CH 13	2472	10.56	11.50	12.00	98.35
	802.11n-HT20 MCS0	CH 1	2412	10.35	11.00	12.00	98.23
		CH 7	2442	9.54	10.50	12.00	98.13
		CH 13	2472	10.37	11.00	12.00	98.23
	802.11n-HT40 MCS0	CH 3	2422	10.77	11.50	12.00	94.90
		CH 7	2442	10.57	11.50	12.00	94.90
		CH 11	2462	10.85	11.50	12.00	94.89

5.2GHz WLAN ANT 0

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN ANT 0	802.11a 6Mbps	CH 36	5180	7.09	8.00	9.00	98.06
		CH 44	5220	7.15	8.00	9.00	98.06
		CH 48	5240	6.85	7.50	9.00	98.06
	802.11n-HT20 MCS0	CH 36	5180	6.88	7.50	9.00	97.92
		CH 44	5220	7.00	8.00	9.00	97.92
		CH 48	5240	6.69	7.50	9.00	97.92
	802.11n-HT40 MCS0	CH 38	5190	7.27	8.00	9.00	95.83
		CH 46	5230	7.21	8.00	9.00	97.94
	802.11ac-VHT20 MCS0	CH 36	5180	6.88	7.50	9.00	99.31
		CH 44	5220	6.99	7.50	9.00	97.94
		CH 48	5240	6.63	7.50	9.00	99.31
	802.11ac-VHT40 MCS0	CH 38	5190	7.26	8.00	9.00	95.83
		CH 46	5230	7.18	8.00	9.00	97.94
	802.11ac-VHT80 MCS0	CH 42	5210	7.16	8.00	9.00	95.92

5.8GHz WLAN ANT 0

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.8GHz WLAN ANT 0	802.11a 6Mbps	CH 149	5745	6.49	7.00	9.50	98.06
		CH 157	5785	6.48	7.00	9.50	99.35
		CH 165	5825	6.44	7.00	9.50	98.06
	802.11n-HT20 MCS0	CH 149	5745	6.35	7.00	9.50	97.92
		CH 157	5785	6.24	7.00	9.50	97.92
		CH 165	5825	6.23	7.00	9.50	97.92
	802.11n-HT40 MCS0	CH 151	5755	6.83	7.50	9.50	95.83
		CH 159	5795	6.52	7.50	9.50	98.62
	802.11ac-VHT20 MCS0	CH 149	5745	6.25	7.00	9.50	97.94
		CH 157	5785	6.43	7.00	9.50	97.94
		CH 165	5825	6.34	7.00	9.50	97.94
	802.11ac-VHT40 MCS0	CH 151	5755	6.87	7.50	9.50	95.92
		CH 159	5795	6.59	7.50	9.50	97.94
	802.11ac-VHT80 MCS0	CH 155	5775	6.60	7.50	9.50	92.00