



REPORT No.: SZ23080316S01

Annex E Conducted Power

Note:

Conducted power unit: dBm

The target power was recorded in the manufacturer's document.

Full Power for ANT 1 & ANT3 & ANT4 & ANT5 & ANT6 & ANT 8

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	31.86	32.02	32.55	33.70	22.86	23.02	23.55	24.70
GPRS 1 Tx slot	31.95	32.23	32.61	33.70	22.95	23.23	23.61	24.70
GPRS 2 Tx slots	28.32	28.59	28.93	29.50	22.32	22.59	22.93	23.50
GPRS 3 Tx slots	26.29	26.58	26.88	27.50	22.03	22.32	22.62	23.24
GPRS 4 Tx slots	24.23	24.52	24.85	25.50	21.23	21.52	21.85	22.50
EDGE 1 Tx slot	26.53	26.65	26.82	27.50	17.53	17.65	17.82	18.50
EDGE 2 Tx slots	24.42	24.59	24.80	25.50	18.42	18.59	18.80	19.50
EDGE 3 Tx slots	22.49	22.61	22.87	23.50	18.23	18.35	18.61	19.24
EDGE 4 Tx slots	20.71	20.89	21.05	22.00	17.71	17.89	18.05	19.00
Mode		Max.	32.61			Max.	23.61	
Attenuator	Cable Loss : 0.6							

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1850.2	1880	1909.8		1850.2	1880	1909.8	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.33	29.60	29.71	30.50	20.33	20.60	20.71	21.50
GPRS 1 Tx slot	29.31	29.60	29.70	30.50	20.31	20.60	20.70	21.50
GPRS 2 Tx slots	28.47	28.75	28.89	29.50	22.47	22.75	22.89	23.50
GPRS 3 Tx slots	26.50	26.69	26.82	27.50	22.24	22.43	22.56	23.24
GPRS 4 Tx slots	25.09	25.31	25.43	26.00	22.09	22.31	22.43	23.00
EDGE 1 Tx slot	25.97	26.29	26.40	27.00	16.97	17.29	17.40	18.00
EDGE 2 Tx slots	24.01	24.25	24.38	25.00	18.01	18.25	18.38	19.00
EDGE 3 Tx slots	22.12	22.42	22.55	23.50	17.86	18.16	18.29	19.24
EDGE 4 Tx slots	21.38	21.53	21.69	22.50	18.38	18.53	18.69	19.50
Mode		Max.	29.71			Max.	22.89	
Attenuator	Cable Loss : 0.8							

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)	
	9262	9400	9538		1312	1413	1513		4132	4182	4233		
TX Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458		
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	23.25	23.19	23.15	23.80	23.12	23.20	23.05	23.80	24.14	24.25	24.22	24.80
3GPP Rel 5	HSDPA Subtest-1	22.90	22.50	22.40	23.30	22.67	22.84	22.57	23.30	23.36	23.52	23.70	24.30
3GPP Rel 5	HSDPA Subtest-2	22.88	22.60	22.41	23.30	22.68	22.87	22.55	23.30	23.34	23.53	23.79	24.30
3GPP Rel 5	HSDPA Subtest-3	22.40	22.03	21.92	22.80	22.19	22.34	22.07	22.80	22.87	22.96	23.19	23.80
3GPP Rel 5	HSDPA Subtest-4	22.41	22.02	21.85	22.80	22.23	22.37	22.06	22.80	22.84	23.02	23.18	23.80
3GPP Rel 8	DC-HSDPA Subtest-1	22.91	22.64	22.46	23.30	22.67	22.91	22.63	23.30	23.38	23.54	23.75	24.30
3GPP Rel 8	DC-HSDPA Subtest-2	22.93	22.62	22.44	23.30	22.69	22.90	22.65	23.30	23.36	23.58	23.76	24.30
3GPP Rel 8	DC-HSDPA Subtest-3	22.38	22.10	22.00	22.80	22.18	22.39	22.12	22.80	22.86	23.06	23.25	23.80
3GPP Rel 8	DC-HSDPA Subtest-4	22.42	22.15	21.99	22.80	22.16	22.41	22.09	22.80	22.91	23.06	23.21	23.80
3GPP Rel 6	HSUPA Subtest-1	22.95	22.65	22.47	23.30	22.64	22.83	22.59	23.30	23.38	23.57	23.72	24.30
3GPP Rel 6	HSUPA Subtest-2	22.40	22.11	21.98	22.80	22.14	22.28	22.16	22.80	22.83	23.00	23.22	23.80
3GPP Rel 6	HSUPA Subtest-3	22.88	22.60	22.40	23.30	22.70	22.85	22.57	23.30	23.26	23.53	23.73	24.30
3GPP Rel 6	HSUPA Subtest-4	22.94	22.58	22.42	23.30	22.65	22.81	22.56	23.30	23.30	23.53	23.71	24.30
3GPP Rel 6	HSUPA Subtest-5	22.96	22.61	22.44	23.30	22.67	22.86	22.56	23.30	23.36	23.45	23.74	24.30
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	22.35	22.01	21.92	22.80	22.10	22.36	22.16	22.80	22.85	23.01	23.25	23.80
Attenuator		Cable Loss	0.8			Cable Loss	0.8			Cable Loss	0.6		
Mode		Max.	23.25			Max.	23.20			Max.	24.25		

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	23.8	
20	QPSK	1	0	22.87	22.93	22.84		
20	QPSK	1	49	22.81	22.82	22.65		
20	QPSK	1	99	22.74	22.79	22.61		
20	QPSK	50	0	21.81	21.87	21.79	22.8	
20	QPSK	50	24	21.78	21.72	21.60		
20	QPSK	50	50	21.70	21.61	21.66		
20	QPSK	100	0	21.74	21.65	21.61		
20	16QAM	1	0	21.98	22.01	21.97	22.8	
20	16QAM	1	49	21.94	21.93	21.88		
20	16QAM	1	99	21.95	21.89	21.90		
20	16QAM	50	0	20.77	20.76	20.74		
20	16QAM	50	24	20.73	20.69	20.70	21.8	
20	16QAM	50	50	20.65	20.58	20.60		
20	16QAM	100	0	20.68	20.63	20.61		
20	64QAM	1	0	20.80	20.98	20.75		
20	64QAM	1	49	20.76	20.78	20.71	21.8	
20	64QAM	1	99	20.71	20.73	20.67		
20	64QAM	50	0	19.70	19.73	19.65		
20	64QAM	50	24	19.64	19.66	19.50		
20	64QAM	50	50	19.57	19.60	19.55	20.8	
20	64QAM	100	0	19.56	19.63	19.58		
Channel				18675	18900	19125		Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	22.82	22.89	22.77	23.8	
15	QPSK	1	37	22.68	22.71	22.52		
15	QPSK	1	74	22.65	22.54	22.60		
15	QPSK	36	0	21.75	21.80	21.76		
15	QPSK	36	20	21.78	21.68	21.63	22.8	
15	QPSK	36	39	21.55	21.60	21.57		
15	QPSK	75	0	21.68	21.74	21.53		
15	16QAM	1	0	21.99	22.02	21.94		
15	16QAM	1	37	21.91	21.90	21.83	22.8	
15	16QAM	1	74	21.97	21.81	21.82		
15	16QAM	36	0	20.86	20.66	20.70		
15	16QAM	36	20	20.63	20.55	20.79		
15	16QAM	36	39	20.70	20.53	20.62	21.8	
15	16QAM	75	0	20.63	20.60	20.60		
15	64QAM	1	0	20.81	20.94	20.79		
15	64QAM	1	37	20.86	20.77	20.62		
15	64QAM	1	74	20.75	20.68	20.66	21.8	
15	64QAM	36	0	19.67	19.81	19.55		
15	64QAM	36	20	19.57	19.52	19.55		
15	64QAM	36	39	19.65	19.63	19.64		
15	64QAM	75	0	19.53	19.73	19.58	20.8	
Channel				18650	18900	19150		Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	22.75	22.86	22.79		23.8
10	QPSK	1	25	22.73	22.80	22.67		
10	QPSK	1	49	22.61	22.58	22.53		
10	QPSK	25	0	21.78	21.80	21.53		
10	QPSK	25	12	21.74	21.57	21.57	22.8	
10	QPSK	25	25	21.63	21.64	21.54		
10	QPSK	50	0	21.61	21.66	21.54		
10	16QAM	1	0	21.97	22.03	21.89		
10	16QAM	1	25	21.94	21.96	21.90	22.8	
10	16QAM	1	49	21.95	21.75	21.85		
10	16QAM	25	0	20.69	20.66	20.71		
10	16QAM	25	12	20.70	20.63	20.78		
10	16QAM	25	25	20.71	20.67	20.64	21.8	
10	16QAM	50	0	20.70	20.60	20.69		
10	64QAM	1	0	20.84	20.79	20.60		
10	64QAM	1	25	20.74	20.88	20.75		
10	64QAM	1	49	20.63	20.63	20.68	21.8	
10	64QAM	25	0	19.69	19.79	19.64		
10	64QAM	25	12	19.69	19.74	19.61		
10	64QAM	25	25	19.57	19.64	19.59		
10	64QAM	50	0	19.63	19.66	19.62	20.8	
Channel				18625	18900	19175		Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	22.79	22.85	22.68		23.8
5	QPSK	1	12	22.70	22.73	22.73		
5	QPSK	1	24	22.69	22.56	22.50		
5	QPSK	12	0	21.83	21.76	21.63		
5	QPSK	12	7	21.72	21.62	21.61	22.8	
5	QPSK	12	13	21.59	21.64	21.65		
5	QPSK	25	0	21.63	21.69	21.67		
5	16QAM	1	0	22.00	22.00	21.86		
5	16QAM	1	12	21.94	21.93	21.85	22.8	
5	16QAM	1	24	21.96	21.75	21.79		
5	16QAM	12	0	20.73	20.82	20.66		
5	16QAM	12	7	20.74	20.75	20.66		
5	16QAM	12	13	20.62	20.55	20.60	21.8	
5	16QAM	25	0	20.60	20.61	20.62		
5	64QAM	1	0	20.80	20.67	20.62		
5	64QAM	1	12	20.79	20.79	20.71		
5	64QAM	1	24	20.65	20.76	20.69	21.8	
5	64QAM	12	0	19.64	19.73	19.75		
5	64QAM	12	7	19.62	19.68	19.59		
5	64QAM	12	13	19.57	19.69	19.58		
5	64QAM	25	0	19.62	19.72	19.67	20.8	
Channel				18615	18900	19185		Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	22.78	22.86	22.65		23.8
3	QPSK	1	8	22.71	22.79	22.61		
3	QPSK	1	14	22.65	22.68	22.57		

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	23.8	
20	QPSK	1	0	22.79	22.86	22.81		
20	QPSK	1	49	22.77	22.75	22.75		
20	QPSK	1	99	22.69	22.80	22.71		
20	QPSK	50	0	21.81	21.90	21.84	22.8	
20	QPSK	50	24	21.87	21.70	21.69		
20	QPSK	50	50	21.73	21.76	21.63		
20	QPSK	100	0	21.69	21.72	21.78		
20	16QAM	1	0	21.95	22.10	21.99	22.8	
20	16QAM	1	49	21.96	22.03	21.88		
20	16QAM	1	99	21.88	21.99	21.95		
20	16QAM	50	0	20.87	20.90	20.70		
20	16QAM	50	24	20.74	20.68	20.76	21.8	
20	16QAM	50	50	20.63	20.70	20.74		
20	16QAM	100	0	20.55	20.82	20.64		
20	64QAM	1	0	20.86	21.01	20.87		
20	64QAM	1	49	20.73	20.74	20.90	21.8	
20	64QAM	1	99	20.75	20.74	20.87		
20	64QAM	50	0	19.75	19.84	19.82		
20	64QAM	50	24	19.69	19.83	19.61		
20	64QAM	50	50	19.66	19.64	19.65	20.8	
20	64QAM	100	0	19.65	19.79	19.70		
Channel				20025	20175	20325		Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	22.81	22.83	22.75	23.8	
15	QPSK	1	37	22.79	22.79	22.71		
15	QPSK	1	74	22.64	22.75	22.70		
15	QPSK	36	0	21.85	21.88	21.70		
15	QPSK	36	20	21.67	21.87	21.64	22.8	
15	QPSK	36	39	21.72	21.59	21.55		
15	QPSK	75	0	21.74	21.73	21.76		
15	16QAM	1	0	21.99	22.07	21.96		
15	16QAM	1	37	21.89	22.05	21.87	22.8	
15	16QAM	1	74	21.98	21.85	22.01		
15	16QAM	36	0	20.86	20.91	20.70		
15	16QAM	36	20	20.65	20.70	20.65		
15	16QAM	36	39	20.53	20.77	20.72	21.8	
15	16QAM	75	0	20.67	20.83	20.60		
15	64QAM	1	0	20.76	20.85	20.84		
15	64QAM	1	37	20.68	20.78	20.79		
15	64QAM	1	74	20.67	20.75	20.68	21.8	
15	64QAM	36	0	19.73	19.83	19.73		
15	64QAM	36	20	19.53	19.78	19.59		
15	64QAM	36	39	19.56	19.56	19.72		
15	64QAM	75	0	19.48	19.82	19.76	20.8	
Channel				20000	20175	20350		Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	22.77	22.81	22.74		23.8
10	QPSK	1	25	22.74	22.65	22.61		
10	QPSK	1	49	22.67	22.75	22.61		
10	QPSK	25	0	21.85	21.90	21.61		
10	QPSK	25	12	21.82	21.78	21.68	22.8	
10	QPSK	25	25	21.59	21.66	21.75		
10	QPSK	50	0	21.76	21.79	21.75		
10	16QAM	1	0	22.02	22.06	21.95		
10	16QAM	1	25	22.05	21.97	21.84	22.8	
10	16QAM	1	49	22.04	22.03	21.97		
10	16QAM	25	0	20.73	20.89	20.83		
10	16QAM	25	12	20.74	20.66	20.66		
10	16QAM	25	25	20.62	20.65	20.78	21.8	
10	16QAM	50	0	20.61	20.73	20.60		
10	64QAM	1	0	20.85	20.89	20.84		
10	64QAM	1	25	20.83	20.84	20.82		
10	64QAM	1	49	20.66	20.81	20.85	21.8	
10	64QAM	25	0	19.79	19.83	19.79		
10	64QAM	25	12	19.71	19.75	19.59		
10	64QAM	25	25	19.64	19.65	19.65		
10	64QAM	50	0	19.50	19.66	19.75	20.8	
Channel				19975	20175	20375		Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	22.76	22.80	22.73		23.8
5	QPSK	1	12	22.74	22.75	22.67		
5	QPSK	1	24	22.72	22.74	22.60		
5	QPSK	12	0	21.84	21.99	21.73		
5	QPSK	12	7	21.64	21.74	21.64	22.8	
5	QPSK	12	13	21.69	21.61	21.65		
5	QPSK	25	0	21.79	21.78	21.64		
5	16QAM	1	0	22.03	22.08	21.95		
5	16QAM	1	12	22.07	21.98	22.07	22.8	
5	16QAM	1	24	21.85	21.93	21.99		
5	16QAM	12	0	20.77	20.77	20.87		
5	16QAM	12	7	20.74	20.84	20.83		
5	16QAM	12	13	20.59	20.78	20.57	21.8	
5	16QAM	25	0	20.56	20.71	20.74		
5	64QAM	1	0	20.78	20.86	20.80		
5	64QAM	1	12	20.77	20.91	20.74		
5	64QAM	1	24	20.57	20.74	20.65	21.8	
5	64QAM	12	0	19.75	19.91	19.80		
5	64QAM	12						

3	QPSK	8	0	21.92	21.84	21.76	22.8
3	QPSK	8	4	21.83	21.76	21.56	
3	QPSK	8	7	21.69	21.64	21.59	
3	QPSK	15	0	21.74	21.67	21.58	22.8
3	16QAM	1	0	21.99	21.98	21.83	
3	16QAM	1	8	21.93	21.92	21.86	
3	16QAM	1	14	21.98	21.86	21.76	21.8
3	16QAM	8	0	20.66	20.66	20.59	
3	16QAM	8	4	20.72	20.55	20.74	
3	16QAM	8	7	20.63	20.56	20.52	21.8
3	16QAM	15	0	20.55	20.57	20.56	
3	64QAM	1	0	20.69	20.72	20.83	
3	64QAM	1	8	20.66	20.70	20.62	20.8
3	64QAM	1	14	20.80	20.80	20.57	
3	64QAM	8	0	19.55	19.79	19.70	
3	64QAM	8	4	19.71	19.54	19.60	20.8
3	64QAM	8	7	19.50	19.51	19.54	
3	64QAM	15	0	19.54	19.61	19.66	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	22.77	22.84	22.72	23.8
1.4	QPSK	1	3	22.69	22.60	22.53	
1.4	QPSK	1	5	22.68	22.67	22.55	
1.4	QPSK	3	0	21.79	21.89	21.74	
1.4	QPSK	3	1	21.75	21.78	21.72	
1.4	QPSK	3	3	21.77	21.73	21.70	
1.4	QPSK	6	0	21.64	21.69	21.64	22.8
1.4	16QAM	1	0	21.97	22.01	21.95	
1.4	16QAM	1	3	21.91	21.93	21.81	
1.4	16QAM	1	5	21.91	21.87	21.96	22.8
1.4	16QAM	3	0	20.85	20.63	20.61	
1.4	16QAM	3	1	20.76	20.61	20.60	
1.4	16QAM	3	3	20.73	20.59	20.69	21.8
1.4	16QAM	6	0	20.70	20.59	20.64	
1.4	64QAM	1	0	20.82	20.69	20.60	
1.4	64QAM	1	3	20.84	20.63	20.67	21.8
1.4	64QAM	1	5	20.74	20.73	20.72	
1.4	64QAM	3	0	19.59	19.67	19.70	
1.4	64QAM	3	1	19.54	19.55	19.69	
1.4	64QAM	3	3	19.67	19.62	19.62	
1.4	64QAM	6	0	19.59	19.55	19.56	

3	QPSK	8	0	21.83	21.80	21.61	22.8
3	QPSK	8	4	21.88	21.88	21.63	
3	QPSK	8	7	21.74	21.66	21.59	
3	QPSK	15	0	21.67	21.84	21.72	22.8
3	16QAM	1	0	22.05	22.07	22.03	
3	16QAM	1	8	22.00	21.91	22.04	
3	16QAM	1	14	21.96	22.01	21.97	21.8
3	16QAM	8	0	20.68	20.78	20.84	
3	16QAM	8	4	20.71	20.76	20.82	
3	16QAM	8	7	20.60	20.59	20.72	21.8
3	16QAM	15	0	20.57	20.74	20.68	
3	64QAM	1	0	20.85	20.89	20.81	
3	64QAM	1	8	20.63	20.83	20.81	20.8
3	64QAM	1	14	20.80	20.71	20.78	
3	64QAM	8	0	19.79	19.86	19.68	
3	64QAM	8	4	19.61	19.85	19.60	20.8
3	64QAM	8	7	19.55	19.59	19.69	
3	64QAM	15	0	19.53	19.64	19.75	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.73	22.80	22.72	23.8
1.4	QPSK	1	3	22.75	22.74	22.69	
1.4	QPSK	1	5	22.67	22.68	22.64	
1.4	QPSK	3	0	21.78	21.98	21.75	
1.4	QPSK	3	1	21.88	21.80	21.74	
1.4	QPSK	3	3	21.75	21.79	21.70	
1.4	QPSK	6	0	21.64	21.68	21.64	22.8
1.4	16QAM	1	0	22.03	22.07	22.04	
1.4	16QAM	1	3	22.08	21.99	21.83	
1.4	16QAM	1	5	22.02	22.04	21.87	22.8
1.4	16QAM	3	0	20.64	20.74	20.85	
1.4	16QAM	3	1	20.62	20.64	20.74	
1.4	16QAM	3	3	20.59	20.64	20.69	21.8
1.4	16QAM	6	0	20.73	20.60	20.72	
1.4	64QAM	1	0	20.82	20.97	20.90	
1.4	64QAM	1	3	20.71	20.97	20.80	21.8
1.4	64QAM	1	5	20.62	20.90	20.66	
1.4	64QAM	3	0	19.67	19.69	19.72	
1.4	64QAM	3	1	19.71	19.72	19.56	
1.4	64QAM	3	3	19.55	19.79	19.53	
1.4	64QAM	6	0	19.56	19.59	19.63	

Band 5 (Cellular 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		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	22.98	23.05	23.01	23.8	
10	QPSK	1	25	23.00	22.99	22.86		
10	QPSK	1	49	22.93	22.91	22.85		
10	QPSK	25	0	21.95	21.97	21.92		
10	QPSK	25	12	21.90	21.97	21.79	22.8	
10	QPSK	25	25	21.86	21.86	21.78		
10	QPSK	50	0	21.86	21.85	21.78		
10	16QAM	1	0	22.37	22.27	22.17		
10	16QAM	1	25	22.20	22.22	22.18	22.8	
10	16QAM	1	49	22.16	22.19	22.24		
10	16QAM	25	0	20.96	21.08	21.11		
10	16QAM	25	12	20.85	21.05	21.03		
10	16QAM	25	25	20.89	20.88	20.86	21.8	
10	16QAM	50	0	20.92	20.99	20.91		
10	64QAM	1	0	20.94	21.15	20.98		
10	64QAM	1	25	20.81	21.04	20.94		
10	64QAM	1	49	20.97	20.95	21.03	21.8	
10	64QAM	25	0	19.81	20.05	19.81		
10	64QAM	25	12	19.69	19.98	19.72		
10	64QAM	25	25	19.71	19.96	19.70		
10	64QAM	50	0	19.62	19.79	19.89	20.8	
Channel				20425	20525	20625		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	23.00	23.01	22.95		23.8
5	QPSK	1	12	22.94	22.98	22.99		
5	QPSK	1	24	22.88	22.85	22.90		
5	QPSK	12	0	22.13	22.19	22.03		
5	QPSK	12	7	22.02	22.05	21.95	22.8	
5	QPSK	12	13	21.81	21.96	21.83		
5	QPSK	25	0	21.94	22.03	22.00		
5	16QAM	1	0	22.16	22.25	22.25		
5	16QAM	1	12	22.30	22.13	22.21	22.8	
5	16QAM	1	24	22.02	22.20	22.17		
5	16QAM	12	0	21.03	21.00	21.07		
5	16QAM	12	7	20.93	20.97	21.08		
5	16QAM	12	13	20.81	20.85	20.85	21.8	
5	16QAM	25	0	20.79	20.80	20.88		
5	64QAM	1	0	20.94	20.99	21.10		
5	64QAM	1	12	20.88	20.96	20.88		
5	64QAM	1	24	20.80	21.04	21.01	21.8	
5	64QAM	12	0	19.78	19.96	19.97		
5	64QAM	12	7	19.88	20.00	19.80		
5	64QAM	12	13	19.65	19.79	19.81		
5	64QAM	25	0	19.66	19.79	19.83	20.8	
Channel				20415	20525	20635		
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	23.01	23.02	22.88		23.8
3	QPSK	1	8	23.00	22.97	22.93		
3	QPSK	1	14	22.97	22.85	22.78		
3	QPSK	8	0	21.99	22.08	21.91		
3	QPSK	8	4	21.96	21.91	21.87	22.8	
3	QPSK	8	7	21.82	21.87	21.80		
3	QPSK	15	0	21.81	21.99	21.93		
3	16QAM	1	0	22.25	22.33	22.15		
3	16QAM	1	8	22.19	22.22	22.04	22.8	
3	16QAM	1	14	22.00	22.25	22.09		
3	16QAM	8	0	20.83	20.93	20.97		
3	16QAM	8	4	20.93	20.95	20.99		
3	16QAM	8	7	20.85	20.82	20.90	21.8	
3	16QAM	15	0	20.84	20.81	20.87		
3	64QAM	1	0	20.89	21.04	21.09		
3	64QAM	1	8	20.81	21.06	21.04		
3	64QAM	1	14	20.87	21.02	20.83	21.8	
3	64QAM	8	0	19.98	20.10	20.00		
3	64QAM	8	4	19.81	19.93	19.82		
3	64QAM	8	7	19.87	19.94	19.84		
3	64QAM	15	0	19.72	19.99	19.84	20.8	
Channel				20407	20525	20643		
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	22.95	23.00	22.93		23.8
1.4	QPSK	1	3	22.91	22.85	22.90		
1.4	QPSK	1	5	22.89	22.92	22.81		
1.4	QPSK	3	0	22.03	22.09	21.84		
1.4	QPSK	3	1	22.08	21.90	21.84	22.8	
1.4	QPSK	3	3	21.82	22.01	21.81		
1.4	QPSK	6	0	21.90	21.87	21.95		
1.4	16QAM	1	0	22.16	22.37	22.25		
1.4	16QAM	1	3	22.34	22.21	22.04	22.8	
1.4	16QAM	1	5	22.09	22.15	22.09		
1.4	16QAM	3	0	20.82	21.11	21.12		
1.4	16QAM	3	1	20.83	21.03	21.08		
1.4	16QAM	3	3	20.81	20.89	20.88	21.8	
1.4	16QAM	6	0	20.91	20.97	20.83		
1.4	64QAM	1	0	21.09	21.17	21.07		
1.4	64QAM	1	3	20.94	21.13	20.93		
1.4	64QAM	1	5	20.93	20.88	21.03	21.8	
1.4	64QAM	3	0	19.89	20.08	20.03		
1.4	64QAM	3	1	19.91	19.95	19.81		
1.4	64QAM	3	3	19.85	20.00	19.83		
1.4	64QAM	6	0	19.85	20.02	19.93	20.8	

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		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	22.70	22.74	22.93	23.8	
20	QPSK	1	49	22.55	22.65	22.90		
20	QPSK	1	99	22.62	22.59	22.79		
20	QPSK	50	0	21.71	21.75	21.88		
20	QPSK	50	24	21.51	21.56	21.76	22.8	
20	QPSK	50	50	21.56	21.58	21.81		
20	QPSK	100	0	21.51	21.54	21.79		
20	16QAM	1	0	21.83	21.87	22.04		
20	16QAM	1	49	21.85	21.82	21.96	22.8	
20	16QAM	1	99	21.82	21.76	21.95		
20	16QAM	50	0	20.63	20.60	20.86		
20	16QAM	50	24	20.59	20.71	20.83		
20	16QAM	50	50	20.53	20.55	20.69	21.8	
20	16QAM	100	0	20.62	20.51	20.77		
20	64QAM	1	0	20.68	20.71	20.99		
20	64QAM	1	49	20.62	20.62	21.00		
20	64QAM	1	99	20.66	20.63	20.81	21.8	
20	64QAM	50	0	19.81	19.72	19.86		
20	64QAM	50	24	19.58	19.69	19.70		
20	64QAM	50	50	19.53	19.54	19.83		
20	64QAM	100	0	19.56	19.58	19.72	20.8	
Channel				20825	21100	21375		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	22.68	22.70	22.90		23.8
15	QPSK	1	37	22.60	22.59	22.65		
15	QPSK	1	74	22.55	22.61	22.74		
15	QPSK	36	0	21.75	21.77	21.85		
15	QPSK	36	20	21.54	21.54	21.76	22.8	
15	QPSK	36	39	21.56	21.59	21.82		
15	QPSK	75	0	21.64	21.58	21.80		
15	16QAM	1	0	21.99	21.98	22.03		
15	16QAM	1	37	21.97	21.78	21.93	22.8	
15	16QAM	1	74	21.73	21.94	22.01		
15	16QAM	36	0	20.63	20.62	20.87		
15	16QAM	36	20	20.68	20.62	20.75		
15	16QAM	36	39	20.55	20.53	20.85	21.8	
15	16QAM	75	0	20.60	20.56	20.75		
15	64QAM	1	0	20.74	20.82	20.94		
15	64QAM	1	37	20.63	20.75	21.05		
15	64QAM	1	74	20.68	20.59	20.81	21.8	
15	64QAM	36	0	19.55	19.72	19.83		
15	64QAM	36	20	19.47	19.50	19.65		
15	64QAM	36	39	19.59	19.53	19.73		
15	64QAM	75	0	19.55	19.57	19.68	20.8	
Channel				20800	21100	21400		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	22.61	22.69	22.89		23.8
10	QPSK	1	25	22.59	22.53	22.80		
10	QPSK	1	49	22.60	22.57	22.72		
10	QPSK	25	0	21.72	21.74	21.86		
10	QPSK	25	12	21.65	21.73	21.84	22.8	
10	QPSK	25	25	21.57	21.65	21.69		
10	QPSK	50	0	21.62	21.56	21.68		
10	16QAM	1	0	21.88	21.95	22.09		
10	16QAM	1	25	21.80	21.87	22.08	22.8	
10	16QAM	1	49	21.71	21.69	22.05		
10	16QAM	25	0	20.68	20.75	20.90		
10	16QAM	25	12	20.53	20.55	20.89		
10	16QAM	25	25	20.56	20.61	20.89	21.8	
10	16QAM	50	0	20.53	20.59	20.85		
10	64QAM	1	0	20.66	20.69	20.83		
10	64QAM	1	25	20.59	20.75	20.82		
10	64QAM	1	49	20.60	20.67	20.89	21.8	
10	64QAM	25	0	19.61	19.75	19.80		
10	64QAM	25	12	19.60	19.69	19.84		
10	64QAM	25	25	19.55	19.55	19.70		
10	64QAM	50	0	19.52	19.56	19.67	20.8	
Channel				20775				

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			
10	QPSK	1	0	24.07	24.12	24.09			
10	QPSK	1	25	23.87	23.89	23.84	24.8		
10	QPSK	1	49	23.90	24.02	24.05			
10	QPSK	25	0	23.06	23.15	23.10			
10	QPSK	25	12	22.86	23.01	22.91	23.8		
10	QPSK	25	25	22.87	22.95	22.91			
10	QPSK	50	0	22.79	22.98	22.91			
10	16QAM	1	0	23.22	23.33	23.18	23.8		
10	16QAM	1	25	23.05	23.07	23.05			
10	16QAM	1	49	23.10	23.23	23.00			
10	16QAM	25	0	21.77	22.00	21.84			
10	16QAM	25	12	21.73	22.04	22.00	22.8		
10	16QAM	25	25	21.84	21.71	21.82			
10	16QAM	50	0	21.78	21.89	21.78			
10	64QAM	1	0	21.78	22.15	21.86			
10	64QAM	1	25	21.86	22.13	22.00	22.8		
10	64QAM	1	49	21.91	21.89	21.80			
10	64QAM	25	0	20.86	21.02	20.85			
10	64QAM	25	12	20.81	20.82	20.90	21.8		
10	64QAM	25	25	20.72	20.87	20.85			
10	64QAM	50	0	20.72	20.74	20.78			
Channel				23035	23095	23155			
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	23.99	24.07	24.01			
5	QPSK	1	12	23.91	24.01	23.93	24.8		
5	QPSK	1	24	23.93	23.83	23.87			
5	QPSK	12	0	22.82	23.02	22.96			
5	QPSK	12	7	22.79	22.98	22.92	23.8		
5	QPSK	12	13	22.79	22.74	22.83			
5	QPSK	25	0	22.70	22.79	22.84			
5	16QAM	1	0	23.06	23.27	23.22	23.8		
5	16QAM	1	12	23.16	23.23	23.03			
5	16QAM	1	24	23.14	23.14	23.07			
5	16QAM	12	0	21.79	22.06	21.87			
5	16QAM	12	7	21.82	21.89	21.88	22.8		
5	16QAM	12	13	21.81	21.79	21.81			
5	16QAM	25	0	21.82	21.81	21.80			
5	64QAM	1	0	21.85	22.06	22.00	22.8		
5	64QAM	1	12	21.80	22.08	21.97			
5	64QAM	1	24	21.86	22.07	21.82			
5	64QAM	12	0	20.89	21.04	20.99	21.8		
5	64QAM	12	7	20.83	20.86	20.83			
5	64QAM	12	13	20.77	20.78	20.67			
5	64QAM	25	0	20.65	20.83	20.82			
Channel				23025	23095	23165			
Frequency (MHz)				700.5	707.5	714.5			
3	QPSK	1	0	24.02	24.09	24.05			
3	QPSK	1	8	23.97	24.05	24.00	24.8		
3	QPSK	1	14	23.75	23.90	23.73			
3	QPSK	8	0	23.01	23.06	22.95			
3	QPSK	8	4	22.88	22.87	22.79	23.8		
3	QPSK	8	7	22.88	22.82	22.74			
3	QPSK	15	0	22.79	22.85	22.82			
3	16QAM	1	0	23.22	23.21	23.26	23.8		
3	16QAM	1	8	23.03	23.06	23.05			
3	16QAM	1	14	23.05	23.24	23.14			
3	16QAM	8	0	21.75	22.07	21.95			
3	16QAM	8	4	21.89	21.83	21.96	22.8		
3	16QAM	8	7	21.83	21.84	21.71			
3	16QAM	15	0	21.69	21.73	21.71			
3	64QAM	1	0	21.97	22.02	21.92	22.8		
3	64QAM	1	8	21.89	22.13	21.90			
3	64QAM	1	14	21.83	21.90	22.02			
3	64QAM	8	0	20.76	20.91	20.85	21.8		
3	64QAM	8	4	20.65	20.93	20.75			
3	64QAM	8	7	20.72	20.79	20.68			
3	64QAM	15	0	20.84	20.90	20.93			
Channel				23017	23095	23173			
Frequency (MHz)				699.7	707.5	715.3			
1.4	QPSK	1	0	24.03	24.08	23.99			
1.4	QPSK	1	3	23.89	23.98	23.89	24.8		
1.4	QPSK	1	5	23.81	23.87	23.76			
1.4	QPSK	3	0	22.86	23.00	22.96			
1.4	QPSK	3	1	22.80	23.05	22.90			
1.4	QPSK	3	3	22.80	22.88	22.91	23.8		
1.4	QPSK	6	0	22.80	22.99	22.88			
1.4	16QAM	1	0	23.07	23.24	23.17			
1.4	16QAM	1	3	23.08	23.03	23.08	23.8		
1.4	16QAM	1	5	22.90	23.15	23.03			
1.4	16QAM	3	0	21.91	22.04	22.01			
1.4	16QAM	3	1	21.90	21.90	21.92			
1.4	16QAM	3	3	21.85	21.84	21.87	22.8		
1.4	16QAM	6	0	21.78	21.92	21.75			
1.4	64QAM	1	0	21.98	21.91	22.00			
1.4	64QAM	1	3	21.72	22.03	21.98	22.8		
1.4	64QAM	1	5	21.72	21.92	21.98			
1.4	64QAM	3	0	20.89	21.06	20.88			
1.4	64QAM	3	1	20.91	20.83	20.81			
1.4	64QAM	3	3	20.83	20.82	20.84			
1.4	64QAM	6	0	20.74	20.94	20.69	21.8		

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		24.03				
10	QPSK	1	25		23.95		24.8		
10	QPSK	1	49		23.88				
10	QPSK	25	0		22.96				
10	QPSK	25	12		22.84		23.8		
10	QPSK	25	25		22.88				
10	QPSK	50	0		22.74				
10	16QAM	1	0		23.11		23.8		
10	16QAM	1	25		23.03				
10	16QAM	1	49		22.98				
10	16QAM	25	0		21.94				
10	16QAM	25	12		21.90		22.8		
10	16QAM	25	25		21.80				
10	16QAM	50	0		21.99				
10	64QAM	1	0		21.95				
10	64QAM	1	25		21.87		22.8		
10	64QAM	1	49		21.96				
10	64QAM	25	0		20.92				
10	64QAM	25	12		20.75		21.8		
10	64QAM	25	25		20.84				
10	64QAM	50	0		20.78				
Channel				23205	23230	23255			
Frequency (MHz)				779.5	782	784.5			
5	QPSK	1	0	23.94	23.99	23.92			
5	QPSK	1	12	23.89	23.96	23.88	24.8		
5	QPSK	1	24	23.73	23.84	23.86			
5	QPSK	12	0	22.83	23.08	22.96			
5	QPSK	12	7	22.83	23.01	22.95	23.8		
5	QPSK	12	13	22.77	22.85	22.79			
5	QPSK	25	0	22.81	22.77	22.83			
5	16QAM	1	0	23.22	23.15	23.07	23.8		
5	16QAM	1	12	23.22	23.15	23.23			
5	16QAM	1	24	23.14	23.19	23.03			
5	16QAM	12	0	21.88	21.90	22.00			
5	16QAM	12	7	21.85	22.02	21.84	22.8		
5	16QAM	12	13	21.84	21.78	21.87			
5	16QAM	25	0	21.67	21.79	21.74			
5	64QAM	1	0	21.77	21.93	22.02	22.8		
5	64QAM	1	12	21.71	22.05	22.02			
5	64QAM	1	24	21.79	21.91	21.92			
5	64QAM	12	0	20.88	20.91	20.95	21.8		
5	64QAM	12	7	20.79	20.87	20.85			
5	64QAM	12	13	20.75	20.70	20.80			
5	64QAM	25	0	20.72	20.93	20.87			

Band 66 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	22.85	22.97	22.93	23.8
20	QPSK	1	49	22.79	22.91	22.86	
20	QPSK	1	99	22.68	22.89	22.74	
20	QPSK	50	0	21.83	21.92	21.87	22.8
20	QPSK	50	24	21.83	21.91	21.82	
20	QPSK	50	50	21.85	21.75	21.77	
20	QPSK	100	0	21.75	21.82	21.83	22.8
20	16QAM	1	0	21.98	22.07	22.06	
20	16QAM	1	49	22.02	21.95	21.89	
20	16QAM	1	99	21.87	21.96	22.03	21.8
20	16QAM	50	0	20.88	20.95	20.90	
20	16QAM	50	24	20.70	20.87	20.95	
20	16QAM	50	50	20.71	20.77	20.73	21.8
20	16QAM	100	0	20.70	20.73	20.75	
20	64QAM	1	0	20.81	20.92	20.85	
20	64QAM	1	49	20.75	20.89	20.92	21.8
20	64QAM	1	99	20.67	20.88	20.82	
20	64QAM	50	0	19.72	19.86	19.82	
20	64QAM	50	24	19.57	19.78	19.69	20.8
20	64QAM	50	50	19.71	19.82	19.59	
20	64QAM	100	0	19.59	19.82	19.84	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.81	22.94	22.90	23.8
15	QPSK	1	37	22.72	22.83	22.68	
15	QPSK	1	74	22.71	22.66	22.63	
15	QPSK	36	0	21.78	21.96	21.87	22.8
15	QPSK	36	20	21.80	21.78	21.70	
15	QPSK	36	39	21.70	21.86	21.73	
15	QPSK	75	0	21.74	21.73	21.75	22.8
15	16QAM	1	0	22.01	22.09	22.05	
15	16QAM	1	37	22.03	22.00	21.91	
15	16QAM	1	74	21.97	21.96	22.06	21.8
15	16QAM	36	0	20.83	20.93	20.95	
15	16QAM	36	20	20.78	20.86	20.78	
15	16QAM	36	39	20.73	20.81	20.85	21.8
15	16QAM	75	0	20.66	20.78	20.82	
15	64QAM	1	0	20.84	20.97	20.90	
15	64QAM	1	37	20.67	20.91	20.80	21.8
15	64QAM	1	74	20.73	20.84	20.82	
15	64QAM	36	0	19.84	19.90	19.85	
15	64QAM	36	20	19.63	19.67	19.57	20.8
15	64QAM	36	39	19.72	19.61	19.74	
15	64QAM	75	0	19.68	19.79	19.59	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.84	22.90	22.86	23.8
10	QPSK	1	25	22.83	22.86	22.72	
10	QPSK	1	49	22.73	22.85	22.61	
10	QPSK	25	0	21.79	21.93	21.90	22.8
10	QPSK	25	12	21.86	21.83	21.71	
10	QPSK	25	25	21.63	21.72	21.80	
10	QPSK	50	0	21.75	21.77	21.83	22.8
10	16QAM	1	0	22.02	22.10	22.09	
10	16QAM	1	25	21.92	22.03	21.96	
10	16QAM	1	49	21.94	22.04	22.07	21.8
10	16QAM	25	0	20.78	20.96	20.92	
10	16QAM	25	12	20.71	20.88	20.95	
10	16QAM	25	25	21.69	20.66	20.71	21.8
10	16QAM	50	0	20.84	20.70	20.80	
10	64QAM	1	0	20.79	20.87	20.89	
10	64QAM	1	25	20.87	20.90	20.79	21.8
10	64QAM	1	49	20.71	20.97	20.69	
10	64QAM	25	0	19.79	19.87	19.84	
10	64QAM	25	12	19.72	19.79	19.63	20.8
10	64QAM	25	25	19.62	19.68	19.81	
10	64QAM	50	0	19.66	19.73	19.76	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.79	22.91	22.85	23.8
5	QPSK	1	12	22.73	22.90	22.75	
5	QPSK	1	24	22.79	22.80	22.63	
5	QPSK	12	0	21.90	21.94	21.90	22.8
5	QPSK	12	7	21.84	21.93	21.69	
5	QPSK	12	13	21.72	21.74	21.71	
5	QPSK	25	0	21.83	21.88	21.66	22.8
5	16QAM	1	0	22.08	22.10	22.07	
5	16QAM	1	12	21.96	22.03	22.02	
5	16QAM	1	24	22.03	22.05	21.96	21.8
5	16QAM	12	0	20.85	20.81	20.79	
5	16QAM	12	7	20.82	20.91	20.71	
5	16QAM	12	13	20.75	20.74	20.65	21.8
5	16QAM	25	0	20.66	20.88	20.63	
5	64QAM	1	0	20.96	20.91	20.86	
5	64QAM	1	12	20.92	20.84	20.80	21.8
5	64QAM	1	24	20.79	20.79	20.73	
5	64QAM	12	0	19.61	19.84	19.77	
5	64QAM	12	7	19.78	19.67	19.56	20.8
5	64QAM	12	13	19.64	19.70	19.57	
5	64QAM	25	0	19.59	19.80	19.80	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.83	22.92	22.87	23.8
3	QPSK	1	8	22.86	22.85	22.81	
3	QPSK	1	14	22.76	22.86	22.64	

3	QPSK	8	0	21.90	21.92	21.77	22.8
3	QPSK	8	4	21.71	21.78	21.79	
3	QPSK	8	7	21.64	21.73	21.65	
3	QPSK	15	0	21.88	21.87	21.70	22.8
3	16QAM	1	0	22.05	22.10	21.98	
3	16QAM	1	8	21.99	22.08	21.93	
3	16QAM	1	14	21.86	21.99	21.98	21.8
3	16QAM	8	0	20.82	20.78	20.87	
3	16QAM	8	4	20.87	20.92	20.80	
3	16QAM	8	7	20.67	20.60	20.82	21.8
3	16QAM	15	0	20.82	20.65	20.66	
3	64QAM	1	0	20.92	21.06	20.92	
3	64QAM	1	8	20.82	20.93	20.72	21.8
3	64QAM	1	14	20.77	20.97	20.72	
3	64QAM	8	0	19.68	19.99	19.80	
3	64QAM	8	4	19.63	19.90	19.65	20.8
3	64QAM	8	7	19.66	19.75	19.67	
3	64QAM	15	0	19.64	19.64	19.65	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.84	22.89	22.81	23.8
1.4	QPSK	1	3	22.87	22.82	22.67	
1.4	QPSK	1	5	22.71	22.77	22.62	
1.4	QPSK	3	0	21.86	21.86	21.89	
1.4	QPSK	3	1	21.81	21.85	21.81	
1.4	QPSK	3	3	21.79	21.77	21.80	
1.4	QPSK	6	0	21.77	21.70	21.65	22.8
1.4	16QAM	1	0	22.00	22.08	22.02	
1.4	16QAM	1	3	22.06	22.07	22.01	
1.4	16QAM	1	5	22.00	21.93	22.05	
1.4	16QAM	3	0	20.78	20.89	20.84	
1.4	16QAM	3	1	20.76	20.92	20.96	
1.4	16QAM	3	3	20.79	20.86	20.81	21.8
1.4	16QAM	6	0	20.84	20.83	20.67	
1.4	64QAM	1	0	20.72	20.89	20.77	
1.4	64QAM	1	3	20.84	20.86	20.72	
1.4	64QAM	1	5	20.72	20.89	20.84	
1.4	64QAM	3	0	19.82	19.86	19.74	
1.4	64QAM	3	1	19.60	19.90	19.54	20.8
1.4	64QAM	3	3	19.55	19.82	19.59	
1.4	64QAM	6	0	19.59	19.64	19.77	

Band 48 (3.5G Band) (dBm)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Middle-Low Channel	Middle-Low Channel	Middle-High Channel	High Channel	Tune-up limit (dBm)
Channel				55340	55830	55990	56150	56640	
Frequency (MHz)				3560	3609	3625	3641	3690	
20	QPSK	1	0	23.11	23.06	22.96	22.95	23.21	23.8
20	QPSK	1	49	23.07	22.96	22.80	22.86	23.15	
20	QPSK	1	99	23.00	22.94	22.90	22.79	23.02	
20	QPSK	50	0	22.08	21.92	22.02	21.88	22.17	22.8
20	QPSK	50	24	22.06	21.97	21.77	21.81	22.17	
20	QPSK	50	50	21.98	21.90	21.87	21.77	22.14	
20	QPSK	100	0	22.06	21.86	21.91	21.89	22.26	22.8
20	16QAM	1	0	22.29	22.19	22.17	22.03	22.31	
20	16QAM	1	49	22.28	22.13	22.12	22.09	22.30	
20	16QAM	1	99	22.21	21.97	22.09	22.12	22.27	21.8
20	16QAM	50	0	20.96	20.80	21.04	20.98	21.15	
20	16QAM	50	24	20.98	20.89	20.94	20.89	21.11	
20	16QAM	50	50	20.92	20.87	20.78	20.89	21.07	21.8
20	16QAM	100	0	21.05	20.85	20.77	20.75	21.09	
20	64QAM	1	0	20.99	20.96	20.86	20.93	21.18	
20	64QAM	1	49	21.04	20.81	20.88	20.92	21.08	21.8
20	64QAM	1	99	21.07	20.85	20.85	20.88	21.15	
20	64QAM	50	0	19.99	19.83	19.88	19.85	20.05	
20	64QAM	50	24	19.99	19.79	19.79	19.75	20.01	20.8
20	64QAM	50	50	19.90	19.76	19.80	19.72	20.03	
20	64QAM	100	0	19.79	19.73	19.83	19.81	20.00	
Channel				55315	55820	55990	56160	56665	
Frequency (MHz)				3557.5	3608	3625	3642	3692.5	
15	QPSK	1	0	23.01	22.93	22.81	22.88	23.18	23.8
15	QPSK	1	37	23.02	22.98	22.75	22.76	23.15	
15	QPSK	1	74	22.90	22.86	22.76	22.75	23.02	
15	QPSK	36	0	22.11	22.04	22.07	21.87	22.14	22.8
15	QPSK	36	20	22.05	21.94	21.87	21.79	22.13	
15	QPSK	36	39	21.91	21.82	21.80	21.75	22.07	
15	QPSK	75	0	22.02	21.83	21.93	21.80	22.17	22.8
15	16QAM	1	0	22.15	22.09	22.05	22.14	22.22	
15	16QAM	1	37	22.09	22.04	22.04	21.98	22.16	
15	16QAM	1	74	22.10	22.03	22.05	22.06	22.09	21.8
15	16QAM	36	0	21.06	21.00	20.80	20.91	21.16	
15	16QAM	36	20	20.96	20.96	20.94	20.80	21.19	
15	16QAM	36	39	20.81	20.89	20.81	20.82	20.97	21.8
15	16QAM	75	0	21.03	20.91	20.80	20.90	21.05	
15	64QAM	1	0	20.95	20.91	21.10	20.88	21.17	
15	64QAM	1	37	21.04	20.89	20.84	20.79	21.16	21.8
15	64QAM	1	74	21.08	20.84	20.79	20.81	21.14	
15	64QAM	36	0	19.93	19.90	19.86	19.82	20.00	
15	64QAM	36	20	19.89	19.76	19.95	19.74	20.03	20.8
15	64QAM	36	39	19.95	19.70	19.88	19.76	19.90	
15	64QAM	75	0	19.88	19.75	19.81	19.80	19.92	
Channel				55290	55815	55990	56165	56690	
Frequency (MHz)				3555	3607.5	3625	3642.5	3695	
10	QPSK	1	0	22.97	23.03	23.00	22.92	23.17	23.8
10	QPSK	1	25	22.92	22.98	22.74	22.83	23.05	
10	QPSK	1	49	22.89	22.82	22.79	22.81	23.02	
10	QPSK	25	0	22.05	22.09	21.95	21.82	22.12	22.8
10	QPSK	25	12	22.03	21.77	21.82	21.81	22.11	
10	QPSK	25	25	21.93	21.94	21.79	21.76	22.01	
10	QPSK	50	0	21.91	21.86	21.87	21.84	22.09	22.8
10	16QAM	1	0	22.21	22.19	22.17	22.08	22.29	
10	16QAM	1	25	22.14	22.05	22.16	22.07	22.25	
10	16QAM	1	49	22.10	21.94	22.11	22.03	22.17	21.8
10	16QAM	25	0	21.04	20.78	20.83	20.99	21.11	
10	16QAM	25	12	21.03	20.74	20.73	20.93	21.12	
10	16QAM	25	25	20.82	20.76	20.79	20.76	21.01	21.8
10	16QAM	50	0	21.03	20.83	20.76	20.90	21.05	
10	64QAM	1	0	21.10	20.94	21.01	20.92	21.08	
10	64QAM	1	25	21.09	20.80	20.91	20.98	21.06	21.8
10	64QAM	1	49	21.03	20.70	20.82	20.87	21.02	
10	64QAM	25	0	20.02	19.78	19.89	19.70	20.06	
10	64QAM	25	12	19.89	19.72	19.91	19.76	19.93	20.8
10	64QAM	25	25	19.74	19.75	19.85	19.64	20.07	
10	64QAM	50	0	19.78	19.79	19.91	19.86	19.84	
Channel				55265	55810	55990	56170	56175	
Frequency (MHz)				3552.5	3607	3625	3643	3697.5	
5	QPSK	1	0	23.05	22.90	23.02	22.94	23.15	23.8
5	QPSK	1	12	23.04	22.96	22.75	22.72	23.13	
5	QPSK	1	24	23.00	22.88	22.77	22.78	23.09	
5	QPSK	12	0	22.05	22.02	21.82	21.79	22.12	22.8
5	QPSK	12	7	22.01	21.98	21.94	21.80	22.11	
5	QPSK	12	13	21.85	21.90	21.79	21.84	22.08	
5	QPSK	25	0	22.04	21.86	21.80	21.85	22.06	22.8
5	16QAM	1	0	22.16	22.13	22.08	22.06	22.17	
5	16QAM	1	12	22.14	22.11	22.08	22.08	22.09	
5	16QAM	1	24	22.05	22.06	22.01	22.02	22.12	21.8
5	16QAM	12	0	21.04	20.79	20.94	20.91	21.06	
5	16QAM	12	7	20.92	20.96	20.73	20.99	21.05	
5	16QAM	12	13	20.96	20.77	20.71	20.80	21.02	21.8
5	16QAM	25	0	20.91	20.72	20.83	20.89	21.01	
5	64QAM	1	0	21.09	20.98	21.01	20.98	21.19	
5	64QAM	1	12	21.04	20.88	20.86	20.85	21.14	21.8
5	64QAM	1	24	20.96	20.86	20.95	20.79	21.13	
5	64QAM	12	0	19.93	19.80	19.79	19.86	20.14	
5	64QAM	12	7	19.87	19.85	19.91	19.79	20.05	20.8
5	64QAM	12	13	19.82	19.76	19.80	19.77	19.99	
5	64QAM	25	0	19.98	19.89	19.80	19.81	20.09	

n2 (PC3)							
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	DFT-s-OFDM PI/2 BPSK	1	1	22.87	22.83	22.53	24.00
20		1	53	22.93	22.62	22.57	
20		1	104	22.66	22.54	22.51	
20		50	1	23.08	22.80	22.64	24.00
20		50	25	23.02	22.80	22.63	
20		50	50	22.98	22.77	22.67	
20		100	0	22.98	22.80	22.61	
20	DFT-s-OFDM QPSK	1	1	23.07	23.13	23.02	24.00
20		1	53	22.92	22.72	22.95	
20		1	104	22.76	22.67	22.63	
20		50	1	23.05	23.08	23.07	24.00
20		50	25	23.03	22.69	22.68	
20		50	50	22.95	22.69	22.74	
20		100	0	23.01	22.79	22.63	
20	DFT-s-OFDM 16QAM	1	1	23.11	22.97	22.71	24.00
20	DFT-s-OFDM 64QAM	1	1	21.58	21.50	21.22	22.50
20	DFT-s-OFDM 256QAM	1	1	19.20	19.16	18.90	20.00
20	CP-OFDM QPSK	1	1	22.48	22.39	22.15	23.50
20	CP-OFDM 16QAM	1	1	21.98	21.95	21.68	23.00
20	CP-OFDM 64QAM	1	1	20.64	20.56	20.25	21.50
20	CP-OFDM 256QAM	1	1	17.31	17.23	16.90	18.00
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	23.09	22.83	22.59	24.00
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	23.08	22.81	22.70	24.00
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	23.06	22.63	22.59	24.00

n5 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Chann	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	23.61	23.67	23.67	24.50
20		1	53	23.53	23.51	23.55	
20		1	104	23.27	23.21	23.29	
20		50	1	23.72	23.71	23.72	24.50
20		50	25	23.62	23.66	23.59	
20		50	50	23.62	23.51	23.49	
20		100	0	23.70	23.62	23.54	
20	DFT-s-OFDM QPSK	1	1	23.77	23.82	23.81	24.50
20		1	53	23.60	23.60	23.68	
20		1	104	23.35	23.24	23.32	
20		50	1	23.71	23.73	23.64	24.50
20		50	25	23.65	23.65	23.56	
20		50	50	23.50	23.54	23.31	
20		100	0	23.69	23.67	23.51	
20	DFT-s-OFDM 16QAM	1	1	23.72	23.76	23.75	23.50
20	DFT-s-OFDM 64QAM	1	1	22.14	22.33	22.36	22.50
20	DFT-s-OFDM 256QAM	1	1	19.98	20.07	20.00	19.50
20	CP-OFDM QPSK	1	1	23.21	23.31	23.11	25.00
20	CP-OFDM 16QAM	1	1	22.80	22.82	22.77	24.00
20	CP-OFDM 64QAM	1	1	21.27	21.42	21.32	23.00
20	CP-OFDM 256QAM	1	1	18.01	18.11	18.10	19.00
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	23.75	23.79	23.57	24.50
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	23.53	23.35	23.48	24.50
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	23.59	23.52	23.28	24.50

n48 (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				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	24.92	24.63	23.81	23.62	25.48	27.5
40		1	53	25.69	24.19	22.82	25.01	26.20	
40		1	104	24.58	25.35	24.41	26.01	26.25	
40		50	1	24.41	24.01	22.81	23.83	25.36	27.5
40		50	25	24.83	24.31	23.24	24.95	26.18	
40		50	50	24.14	23.31	22.98	24.81	25.43	
40		100	0	24.25	23.78	22.83	24.41	25.69	
40	DFT-s-OFDM QPSK	1	1	26.55	26.61	26.73	26.63	26.67	27.5
40		1	53	24.83	24.18	22.83	25.04	26.22	
40		1	104	25.58	23.33	24.41	26.04	26.70	
40		50	1	25.72	25.66	25.83	25.53	25.67	26.5
40		50	25	24.87	24.30	25.11	24.92	25.58	
40		50	50	24.56	25.26	25.45	25.38	25.50	
40		100	0	25.55	25.30	25.35	24.78	25.19	
40	DFT-s-OFDM 16QAM	1	1	23.81	23.49	23.66	23.53	24.36	25.5
40	DFT-s-OFDM 64QAM	1	1	22.40	22.06	22.26	22.10	22.33	25.5
40	DFT-s-OFDM 256QAM	1	1	20.25	19.98	19.14	18.93	20.76	21.5
40	CP-OFDM QPSK	1	1	23.44	23.13	22.30	22.15	23.97	25
40	CP-OFDM 16QAM	1	1	22.89	22.60	21.86	21.69	23.54	24.5
40	CP-OFDM 64QAM	1	1	21.02	20.69	19.88	19.69	21.57	23
40	CP-OFDM 256QAM	1	1	18.25	17.99	17.05	16.94	18.75	19.5
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	24.75	24.39	23.14	24.67	26.29	27.5

n66 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM PI/2 BPSK	1	1	22.81	22.65	22.57	23.5
20		1	53	22.73	22.60	22.51	
20		1	104	22.63	22.66	22.53	
20		50	1	22.88	22.71	22.66	23.5
20		50	25	22.87	22.66	22.61	
20		50	50	22.79	22.67	22.60	
20		100	0	22.83	22.68	22.65	
20	DFT-s-OFDM QPSK	1	1	22.88	22.90	22.86	23.5
20		1	53	22.81	22.59	22.49	
20		1	104	22.66	22.64	22.52	
20		50	1	22.80	22.84	22.79	23.5
20		50	25	22.78	22.74	22.59	
20		50	50	22.76	22.68	22.56	
20	100	0	22.82	22.74	22.56		
20	DFT-s-OFDM 16QAM	1	1	22.81	22.76	22.66	23.5
20	DFT-s-OFDM 64QAM	1	1	21.46	21.24	21.17	21.5
20	DFT-s-OFDM 256QAM	1	1	19.09	18.90	18.81	19.5
20	CP-OFDM QPSK	1	1	22.47	22.29	22.19	23
20	CP-OFDM 16QAM	1	1	22.01	21.70	21.67	23
20	CP-OFDM 64QAM	1	1	20.56	20.35	20.28	21
20	CP-OFDM 256QAM	1	1	17.09	16.92	16.79	18
Channel				343500	349000	354500	Tune-up limit
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	22.96	22.84	22.76	23.5
Channel				343000	349000	355000	Tune-up limit
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	22.78	22.65	22.57	23.5
Channel				342500	349000	355500	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	22.83	22.69	22.73	23.5

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			26.82			27.5
100		1	136			26.17			
100		1	271			25.95			
100		135	1			26.22			27.5
100		135	67			26.51			
100		135	136			25.49			
100		270	0			25.95			
100	DFT-s-OFDM QPSK	1	1			26.93			27.5
100		1	136			26.45			
100		1	271			25.89			
100		135	1			26.51			27
100		135	67			26.49			
100		135	136			25.96			
100		270	0			26.42			
100	DFT-s-OFDM 16QAM	1	1			25.83			26.5
100	DFT-s-OFDM 64QAM	1	1			24.47			25.5
100	DFT-s-OFDM 256QAM	1	1			22.28			22.5
100	CP-OFDM QPSK	1	1			25.42			26.5
100	CP-OFDM 16QAM	1	1			24.91			25.5
100	CP-OFDM 64QAM	1	1			23.03			24
100	CP-OFDM 256QAM	1	1			20.29			21
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	26.83	26.84	26.82	26.68	26.59	27.5
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	26.03	26.85	26.62	26.48	26.54	27.5
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	26.89	26.83	26.86	26.82	26.69	27.5
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	26.84	26.85	26.80	26.81	26.45	27.5
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	26.81	26.84	26.75	26.59	26.19	27.5

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	
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	26.08	27.68	27.80	27.69	26.75	29.50
100		1	136	27.77	27.91	27.68	26.71	27.65	
100		1	271	27.57	27.59	26.68	26.56	26.45	
100		135	1	27.02	27.55	27.30	26.54	26.76	28.50
100		135	67	27.87	27.92	27.70	26.73	25.71	
100		135	136	27.02	27.26	26.38	25.50	25.09	
100		270	0	27.01	27.49	27.17	26.26	26.68	
100	DFT-s-OFDM QPSK	1	1	28.52	28.65	28.67	28.57	28.62	29.50
100		1	136	28.13	27.89	27.71	26.72	25.52	
100		1	271	27.58	27.55	26.70	25.54	25.41	
100		135	1	27.54	27.63	27.87	27.75	27.79	28.50
100		135	67	27.25	26.68	27.66	26.75	25.69	
100		135	136	26.54	26.75	25.88	25.03	25.22	
100		270	0	27.44	27.01	26.69	25.76	25.34	
100	DFT-s-OFDM 16QAM	1	1	26.93	27.56	26.43	26.58	25.66	28.50
100	DFT-s-OFDM 64QAM	1	1	26.80	26.31	25.34	25.40	24.35	27.50
100	DFT-s-OFDM 256QAM	1	1	21.37	23.94	23.15	23.01	22.05	23.50
100	CP-OFDM QPSK	1	1	24.57	27.15	26.32	26.21	25.25	25.00
100	CP-OFDM 16QAM	1	1	24.07	24.22	25.89	25.74	24.77	24.00
100	CP-OFDM 64QAM	1	1	22.17	24.84	23.89	23.85	22.85	23.00
100	CP-OFDM 256QAM	1	1	20.39	22.00	21.06	21.04	20.08	22.00
Channel				649334	652668	656000	659332	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	26.05	28.52	27.91	27.34	26.22	29.50
Channel				648668	652334	656000	659666	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	26.09	28.34	27.86	26.85	25.57	29.50
Channel				648000	652000	656000	660000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	26.50	28.50	28.07	27.13	24.94	29.50
Channel				647668	651834	656000	660166	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	26.42	28.29	27.95	26.79	24.98	29.50
Channel				647334	651668	656000	660332	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	26.34	28.25	27.99	26.64	25.36	29.50

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			27.99			29.00
100		1	136			26.84			
100		1	271			26.15			
100		135	1			26.85			28.00
100		135	67			27.05			
100		135	136			25.74			
100		270	0			26.45			
100	DFT-s-OFDM QPSK	1	1			28.02			29.00
100		1	136			26.89			
100		1	271			26.12			
100		135	1			27.03			28.00
100		135	67			26.88			
100		135	136			26.28			
100		270	0			26.93			
100	DFT-s-OFDM 16QAM	1	1			26.82			27.50
100	DFT-s-OFDM 64QAM	1	1			25.50			26.50
100	DFT-s-OFDM 256QAM	1	1			23.37			24.50
100	CP-OFDM QPSK	1	1			26.29			27.50
100	CP-OFDM 16QAM	1	1			25.83			26.50
100	CP-OFDM 64QAM	1	1			24.19			25.00
100	CP-OFDM 256QAM	1	1			21.30			22.00
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	27.98	27.94	27.81	27.70	27.66	29.00
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	27.98	27.90	27.75	27.62	27.38	29.00
Channel				632334	632634	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	27.99	27.85	27.63	27.37	27.15	29.00
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	27.94	27.73	27.48	27.16	27.12	29.00
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	27.93	27.64	27.26	27.08	26.99	29.00
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	27.99	27.10	27.43	27.30	27.04	29.00
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	27.96	27.68	27.32	27.09	26.63	29.00
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	27.90	27.59	27.30	26.89	26.40	29.00

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			28.50
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			26.51			28.50
100		1	136			27.71			
100		1	271			27.60			
100		135	1			27.10			28.50
100		135	67			27.68			
100		135	136			26.88			
100		270	0			27.00			
100	DFT-s-OFDM QPSK	1	1			27.73			28.50
100		1	136			26.89			
100		1	271			27.09			
100		135	1			27.61			28.50
100		135	67			27.49			
100		135	136			27.37			
100		270	0			27.41			
100	DFT-s-OFDM 16QAM	1	1			25.38			26.50
100	DFT-s-OFDM 64QAM	1	1			24.07			25.00
100	DFT-s-OFDM 256QAM	1	1			21.78			22.50
100	CP-OFDM QPSK	1	1			24.98			26.00
100	CP-OFDM 16QAM	1	1			24.62			25.50
100	CP-OFDM 64QAM	1	1			22.69			23.50
100	CP-OFDM 256QAM	1	1			19.81			20.50
Channel				649668	649834	650000	650166	650332	28.50
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	26.47	26.51	26.65	26.73	26.92	28.50
Channel				649334	649666	650000	650334	650666	28.50
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	26.52	26.74	26.95	27.14	27.43	28.50
Channel				649000	649500	650000	650500	651000	28.50
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	26.53	26.86	27.18	27.55	27.68	28.50
Channel				648668	649334	650000	650666	651332	28.50
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	26.42	26.89	27.43	27.62	27.58	28.50
Channel				648334	649166	650000	650834	651666	28.50
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	26.59	27.15	27.67	27.66	27.68	28.50
Channel				648000	649000	650000	651000	652000	28.50
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	26.80	27.57	27.63	27.63	27.89	28.50
Channel				647668	648834	650000	651166	652332	28.50
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	26.68	27.56	27.67	27.59	27.51	28.50
Channel				647334	648666	650000	651334	652666	28.50
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	26.66	27.60	27.66	27.66	27.54	28.50

CA_5B											
Combination:10MHz+10MHz(50RB+50RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	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	20549	QPSK	1	0	0	0	1	0	22.83	23.80
20525	20476	20575	QPSK	1	0	0	0	1	0	22.86	23.80
20600	20501	20600	QPSK	1	0	0	0	1	0	22.75	23.80
20450	20450	20549	16QAM	1	0	0	0	1	0	22.08	22.80
20525	20476	20575	16QAM	1	0	0	0	1	0	22.03	22.80
20600	20501	20600	16QAM	1	0	0	0	1	0	22.01	22.80
20450	20450	20549	64QAM	1	0	0	0	1	0	20.98	21.80
20525	20476	20575	64QAM	1	0	0	0	1	0	21.03	21.80
20600	20501	20600	64QAM	1	0	0	0	1	0	21.00	21.80
20450	20450	20549	256QAM	1	0	0	0	1	0	18.21	18.80
20525	20476	20575	256QAM	1	0	0	0	1	0	18.25	18.80
20600	20501	20600	256QAM	1	0	0	0	1	0	18.19	18.80
20450	20450	20549	QPSK	25	0	0	0	1	0	21.85	22.80
20525	20476	20575	QPSK	25	0	0	0	1	0	21.86	22.80
20600	20501	20600	QPSK	25	0	0	0	1	0	21.81	22.80

CA_48C											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	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	55538	QPSK	1	0	0	0	1	0	22.80	23.80
55990	55891	56089	QPSK	1	0	0	0	1	0	22.65	23.80
56640	56442	56640	QPSK	1	0	0	0	1	0	22.88	23.80
55340	55340	55538	16QAM	1	0	0	0	1	0	22.13	22.80
55990	55891	56089	16QAM	1	0	0	0	1	0	22.02	22.80
56640	56442	56640	16QAM	1	0	0	0	1	0	22.28	22.80
55340	55340	55538	64QAM	1	0	0	0	1	0	21.25	21.80
55990	55891	56089	64QAM	1	0	0	0	1	0	21.15	21.80
56640	56442	56640	64QAM	1	0	0	0	1	0	21.21	21.80
55340	55340	55538	256QAM	1	0	0	0	1	0	18.18	18.80
55990	55891	56089	256QAM	1	0	0	0	1	0	18.05	18.80
56640	56442	56640	256QAM	1	0	0	0	1	0	18.15	18.80
55340	55340	55538	QPSK	50	0	0	0	1	0	21.76	22.80
55990	55891	56089	QPSK	50	0	0	0	1	0	21.65	22.80
56640	56442	56640	QPSK	50	0	0	0	1	0	21.70	22.80

CA_66B											
Combination:10MHz+10MHz(50RB+50RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	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	132121	QPSK	1	0	0	0	1	0	22.68	23.80
132322	132373	132472	QPSK	1	0	0	0	1	0	22.75	23.80
132572	132523	132622	QPSK	1	0	0	0	1	0	22.71	23.80
132072	132022	132121	16QAM	1	0	0	0	1	0	21.89	22.80
132322	132373	132472	16QAM	1	0	0	0	1	0	22.12	22.80
132572	132523	132622	16QAM	1	0	0	0	1	0	22.14	22.80
132072	132022	132121	64QAM	1	0	0	0	1	0	20.92	21.80
132322	132373	132472	64QAM	1	0	0	0	1	0	20.94	21.80
132572	132523	132622	64QAM	1	0	0	0	1	0	21.12	21.80
132072	132022	132121	256QAM	1	0	0	0	1	0	17.79	18.80
132322	132373	132472	256QAM	1	0	0	0	1	0	18.01	18.80
132572	132523	132622	256QAM	1	0	0	0	1	0	17.95	18.80
132072	132022	132121	QPSK	25	0	0	0	1	0	21.71	22.80
132322	132373	132472	QPSK	25	0	0	0	1	0	21.88	22.80
132572	132523	132622	QPSK	25	0	0	0	1	0	21.84	22.80

CA_66C

Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	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	132270	QPSK	1	0	0	0	1	0	22.66	23.80
132322	132323	132521	QPSK	1	0	0	0	1	0	22.74	23.80
132572	132374	132572	QPSK	1	0	0	0	1	0	22.70	23.80
132072	132072	132270	16QAM	1	0	0	0	1	0	22.00	22.80
132322	132323	132521	16QAM	1	0	0	0	1	0	21.95	22.80
132572	132374	132572	16QAM	1	0	0	0	1	0	21.96	22.80
132072	132072	132270	64QAM	1	0	0	0	1	0	20.77	21.80
132322	132323	132521	64QAM	1	0	0	0	1	0	20.94	21.80
132572	132374	132572	64QAM	1	0	0	0	1	0	20.88	21.80
132072	132072	132270	256QAM	1	0	0	0	1	0	17.53	18.80
132322	132323	132521	256QAM	1	0	0	0	1	0	17.86	18.80
132572	132374	132572	256QAM	1	0	0	0	1	0	17.79	18.80
132072	132072	132270	QPSK	50	0	0	0	1	0	21.73	22.80
132322	132323	132521	QPSK	50	0	0	0	1	0	21.83	22.80
132572	132374	132572	QPSK	50	0	0	0	1	0	21.86	22.80

2CC LTE Uplink												
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_2A-4A	2	20	18700	1860	QPSK/1#0	4	20	20300	2145	22.23	22.93
	CA_2A-5A	2	20	18700	1860	QPSK/1#0	5	10	20600	844	22.18	22.93
	CA_2A-13A	2	20	18700	1860	QPSK/1#0	13	10	23230	782	22.20	22.93
	CA_2A-66A	2	20	18700	1860	QPSK/1#0	66	20	67236	2190	22.17	22.93
	CA_4A-5A	4	10	20175	1732.5	QPSK/1#0	5	10	20450	829	22.55	22.86
	CA_4A-13A	4	10	20175	1732.5	QPSK/1#0	13	10	23230	782	22.44	22.86
	CA_5A-66A	5	10	20450	829	QPSK/1#0	66	20	66886	2155	22.89	23.05
	CA_13A-66A	13	10	23230	782	QPSK/1#0	66	20	66886	2155	22.57	22.93

2CC LTE Downlink													
Configure	CA Configuration	Ant	PCC					SCC			Power		
			Band	BW (MHz)	UL Channel	UL Freq. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	DL Channel	DL Freq. (MHz)	CA TX (dBm)	Rel.8 TX (dBm)
Intra-band & Inter-band	CA_4A-5A	Ant1	4	10	20175	1732.5	QPSK/1/0	5	10	20450	829	22.52	22.86
	CA_4A-13A	Ant1	4	10	20175	1732.5	QPSK/1/0	13	10	23230	782	22.48	22.86
	CA_4A-48A	Ant1	4	20	20050	1720	QPSK/1/0	48	20	56640	3690	22.33	22.86
	CA_66B	Ant1	66	10	132373	1750.1	QPSK/1/0	66	10	67286	2195	22.43	22.97
	CA_66C	Ant1	66	20	132323	1745.1	QPSK/1/0	66	20	67236	2190	22.36	22.97
CA_66A-66A	Ant1	66	20	132072	1720	QPSK/1/0	66	20	67236	2190	22.09	22.97	

3CC LTE Downlink																	
Configure	CA Configuration	Ant	PCC					SCC			SCC		Power				
			Band	BW (MHz)	UL Channel	UL Freq. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	DL Channel	DL Freq. (MHz)	CA TX (dBm)	Rel.8 TX (dBm)				
Intra-band & Inter-band	CA_2A-4A-5A	Ant1	2	20	18700	1860	QPSK/1/0	4	20	20300	2145	5	10	20600	844	22.15	22.93
	CA_2A-4A-13A	Ant1	2	20	18700	1860	QPSK/1/0	4	20	20300	2145	13	10	23230	782	22.18	22.93
	CA_2A-66B	Ant1	2	20	18700	1860	QPSK/1/0	66	10	67187	2185.1	66	10	67286	2195	22.08	22.93
	CA_2A-66C	Ant1	2	20	18700	1860	QPSK/1/0	66	20	67038	2170.2	66	20	67236	2190	22.05	22.93
	CA_4A-4A-5A	Ant1	4	20	20050	1720	QPSK/1/0	4	20	20300	1745	5	10	20600	844	22.26	22.86
	CA_4A-4A-13A	Ant1	4	20	20050	1720	QPSK/1/0	4	20	20300	1745	13	10	23230	782	22.15	22.86
	CA_4A-5B	Ant1	4	20	20050	1720	QPSK/1/0	5	10	20476	831.6	5	10	20575	841.5	22.12	22.86
	CA_5A-66A-66A	Ant1	5	10	20450	829	QPSK/1/0	66	20	66886	2155	66	20	67236	2190	22.85	23.05
	CA_5A-66B	Ant1	5	10	20450	829	QPSK/1/0	66	10	67187	2185.1	66	10	67286	2195	22.90	23.05
	CA_5A-66C	Ant1	5	10	20450	829	QPSK/1/0	66	20	67038	2170.2	66	20	67236	2190	22.84	23.05
	CA_5B-66A	Ant1	5	10	20476	831.6	QPSK/1/0	5	10	20575	841.5	66	20	67236	2190	22.92	23.05
	CA_13A-66A-66A	Ant1	13	10	23230	782	QPSK/1/0	66	20	66886	2155	66	20	67236	2190	22.53	22.93
	CA_13A-66B	Ant1	13	10	23230	782	QPSK/1/0	66	10	67187	2185.1	66	10	67286	2195	22.58	22.93
	CA_13A-66C	Ant1	13	10	23230	782	QPSK/1/0	66	20	67038	2170.2	66	20	67236	2190	22.63	22.93
	CA_66A-66C	Ant1	66	20	132072	1720	QPSK/1/0	66	20	67038	2170.2	66	20	67236	2190	22.08	22.97
	CA_66A-66A-66A	Ant1	66	20	132072	1720	QPSK/1/0	66	20	66886	2155	66	20	67236	2190	21.99	22.97
	CA_2A-48A-48A	Ant1	2	20	18700	1860	QPSK/1/0	48	20	55340	3560	48	20	56640	3690	22.08	22.93
	CA_13A-48A-48A	Ant1	13	10	23230	782	QPSK/1/0	48	20	55340	3560	48	20	56640	3690	22.58	22.93
	CA_13A-48A-66A	Ant1	13	10	23230	782	QPSK/1/0	48	20	56640	3690	66	20	67236	2190	22.62	22.93
	CA_2A-13A-48A	Ant1	2	20	18700	1860	QPSK/1/0	13	10	23230	782	48	20	56640	3690	22.13	22.93
	CA_2A-5A-48A	Ant1	2	20	18700	1860	QPSK/1/0	5	10	20600	844	48	20	56089	3634.9	22.09	22.93
	CA_48A-66A-66A	Ant1	48	20	55340	3560	QPSK/1/0	66	20	66966	2155	66	20	67236	2190	21.09	23.11
	CA_48A-66B	Ant1	48	20	55340	3560	QPSK/1/0	66	10	67187	2185.1	66	10	67286	2195	21.52	23.11
	CA_48A-66C	Ant1	48	20	55340	3560	QPSK/1/0	66	20	67038	2170.2	66	20	67236	2190	21.60	23.11
	CA_4A-48C	Ant1	4	20	20050	1720	QPSK/1/0	48	20	56442	3670.2	48	20	56640	3690	22.08	22.86
	CA_5A-48A-66A	Ant1	5	10	20450	829	QPSK/1/0	48	20	56640	3690	66	20	67236	2190	22.78	23.05

4CC LTE Downlink																					
Configure	CA Configuration	Ant	PCC					SCC			SCC			Power							
			Band	BW (MHz)	UL Channel	UL Freq. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	DL Channel	DL Freq. (MHz)	Band	BW (MHz)	DL Channel	DL Freq. (MHz)	CA TX (dBm)	Rel.8 TX (dBm)				
Intra-band & Inter-band	CA_2A-2A-4A-4A	Ant1	2	20	18700	1860	QPSK/1/0	2	20	19100	1900	4	20	20050	1745	22.14	22.93				
	CA_2A-2A-4A-5A	Ant1	2	20	18700	1860	QPSK/1/0	2	20	19100	1900	4	20	20300	1745	5	10	20600	844	22.13	22.93
	CA_2A-2A-4A-66A	Ant1	2	20	18700	1860	QPSK/1/0	2	20	19100	1900	5	10	20600	844	66	20	67236	2190	22.09	22.93
	CA_2A-2A-13A-66A	Ant1	2	20	18700	1860	QPSK/1/0	2	20	19100	1900	13	10	23230	782	66	20	67236	2190	22.05	22.93
	CA_2A-2A-66A-66A	Ant1	2	20	18700	1860	QPSK/1/0	2	20	19100	1900	66	20	66886	2155	66	20	67236	2190	22.11	22.93
	CA_2A-2A-66B	Ant1	2	20	18700	1860	QPSK/1/0	2	20	19100	1900	66	10	67187	2185.1	66	10	67286	2195	22.08	22.93
	CA_2A-2A-66C	Ant1	2	20	18700	1860	QPSK/1/0	2	20	19100	1900	66	20	67038	2170.2	66	20	67236	2190	22.04	22.93
	CA_2A-4A-4A-5A	Ant1	2	20	18700	1860	QPSK/1/0	4	20	20050	1720	4	20	20300	1745	5	10	20600	844	22.16	22.93
	CA_2A-4A-5B	Ant1	2	20	18700	1860	QPSK/1/0	4	20	20300	1745	5	10	20476	831.6	5	10	20575	841.5	22.12	22.93
	CA_2A-5A-5A-66A	Ant1	2	20	18700	1860	QPSK/1/0	5	10	20600	844	5	10	20450	829.0	66	20	66886	2155.0	22.07	22.93
	CA_2A-5A-66A-66A	Ant1	2	20	18700	1860	QPSK/1/0	5	10	20600	844	66	20	66886	2155	66	20	67236	2190	22.06	22.93
	CA_2A-5A-66B	Ant1	2	20	18700	1860	QPSK/1/0	5	10	20600	844	66	10	67187	2185.1	66	10	67286	2195	22.05	22.93
	CA_2A-5A-66C	Ant1	2	20	18700	1860	QPSK/1/0	5	10	20600	844	66	20	67038	2170.2	66	20	67236	2190	22.18	22.93
	CA_2A-5B-66A	Ant1	2	20	18700	1860	QPSK/1/0	5	10	20476	831.6	5	10	20575	841.5	66	20	66886	2155.0	22.14	22.93
	CA_2A-13A-66A-66A	Ant1	2	20	18700	1860	QPSK/1/0	13	10	23230	782	66	20	66886	2155	66	20	67236	2190	22.16	22.93
	CA_2A-13A-66B	Ant1	2	20	18700	1860	QPSK/1/0	13	10	23230	782	66	10	67187	2185.1	66	10	67286	2195	22.11	22.93
	CA_2A-13A-66C	Ant1	2	20	18700	1860	QPSK/1/0	13	10	23230	782	66	20	67038	2170.2	66	20	67236	2190	22.03	22.93
	CA_4A-4A-5B	Ant1	4	20	20050	1720	QPSK/1/0	4	20	20300	1745	5	10	20476	831.6	5	10	20575	841.5	22.05	22.86
	CA_5A-5A-66A-66A	Ant1	5	10	20450	829	QPSK/1/0	5	10	20600	844.0	66	20	66886	2155	66	20	67236	2190	22.72	23.05
	CA_5A-5A-66B	Ant1	5	10	20450	829	QPSK/1/0	5	10	20600	844.0	66	10	67187	2185.1	66	10	67286	2195	22.78	23.05
	CA_5A-5A-66C	Ant1	5	10	20450	829	QPSK/1/0	5	10	20600	844.0	66	20	67038	2170.2	66	20	67236	2190	22.76	23.05
	CA_5B-66A-66A	Ant1	5	10	20476	831.6	QPSK/1/0	5	10	20575	841.5	66	20	66886	2155	66	20	67236	2190	22.82	23.05
	CA_5B-66B	Ant1	5	10	20476	831.6	QPSK/1/0	5	10	20575	841.5	66	10	67187	2185.1	66	10	67286	2195	22.90	23.05
	CA_5B-66C	Ant1	5	10	20476	831.6	QPSK/1/0	5	10	20575	841.5	66	20	67038	2170.2	66	20	67236	2190	22.82	23.05
	CA_2A-66A-66A-66A	Ant1	2	20	18700	1860	QPSK/1/0	66	20	132072	1720	66	20	66886	2155	66	20	67236	2190	22.14	22.93
	CA_13A-48A-48C	Ant1	13	10	23230	782	QPSK/1/0	48	20	55340	3560.0	48	20	56891	3615.1	48	20	56089	3634.9	22.55	22.93
	CA_13A-48A-66B	Ant1	13	10	23230	782	QPSK/1/0	48	20	55340	3560.0	66	10	67187	2185.1	66	10	67286	2195.0	22.54	22.93
	CA_13A-48A-66C	Ant1	13	10	23230	782	QPSK/1/0	48	10	56640	3690	66	10	67038	2170.2	66	10				

2CC LTE 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)	CA TX (dBm)	Rel.8 TX (dBm)
Intra-band & Inter-band	CA_n2(2A)	n2A	20	388000	1940	QPSK/1#0	n2A	20	396000	1980	22.42	23.13
	CA_n2A-n5A	n2A	20	396000	1980	QPSK/1#0	n5A	20	176300	881.5	22.48	23.13
	CA_n2A-n48A	n2A	20	396000	1980	QPSK/1#0	n48A	100	641666	3624.99	22.43	23.13
	CA_n2A-n66A	n2A	20	396000	1980	QPSK/1#0	n66A	30	431000	2515	22.52	23.13
	CA_n5(2A)	n5A	20	175800	879	QPSK/1#0	n5A	20	176800	884	23.15	23.82
	CA_n5B	n5A	20	175800	879	QPSK/1#0	n5A	20	176800	884	23.21	23.82
	CA_n5A-n48A	n5A	20	176300	881.5	QPSK/1#0	n48A	100	641666	3624.99	23.12	23.82
	CA_n5A-n66A	n5A	20	176300	881.5	QPSK/1#0	n66A	30	431000	2515	23.05	23.82
	CA_n66(2A)	n66A	20	424000	2120	QPSK/1#0	n66A	20	434000	2170	22.36	22.99
	CA_n66B	n66B	10	423000	2115	QPSK/1#0	n66B	15	435000	2175	22.25	22.99

2.4GHz WLAN ANT 8

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11b 1Mbps	CH 1	2412	20.25	21.00	19.50	98.77
	CH 6	2437	19.65	20.50		
	CH 11	2462	20.31	21.00		
802.11g 6Mbps	CH 1	2412	18.51	19.50	18.50	98.26
	CH 6	2437	18.30	19.50		
	CH 11	2462	18.55	19.50		
802.11n-HT20 MCS0	CH 1	2412	18.42	19.50	18.50	98.13
	CH 6	2437	18.08	19.00		
	CH 11	2462	18.48	19.50		
802.11n-HT40 MCS0	CH 3	2422	18.83	19.50	18.50	94.90
	CH 6	2437	18.79	19.50		
	CH 9	2452	19.25	20.00		

5GHz WLAN ANT 8

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 36	5180	18.11	19.00	18.50	98.26
	CH 44	5220	18.14	19.00		
	CH 48	5240	17.94	19.00		
802.11n-HT20 MCS0	CH 36	5180	17.44	18.50	18.00	98.13
	CH 44	5220	17.54	18.50		
	CH 48	5240	17.26	18.00		
802.11n-HT40 MCS0	CH 38	5190	18.06	19.00	18.00	96.47
	CH 46	5230	17.94	19.00		
802.11ac-VHT20 MCS0	CH 36	5180	17.40	18.50	18.00	98.13
	CH 44	5220	17.56	18.50		
	CH 48	5240	17.28	18.00		
802.11ac-VHT40 MCS0	CH 38	5190	18.07	19.00	18.00	96.30
	CH 46	5230	17.94	19.00		
802.11ac-VHT80 MCS0	CH 42	5210	18.36	19.00	18.00	93.09

5GHz WLAN ANT 8

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 149	5745	19.16	20.00	18.50	98.26
	CH 157	5785	19.09	20.00		
	CH 165	5825	19.22	20.00		
802.11n-HT20 MCS0	CH 149	5745	18.46	19.50	18.00	98.13
	CH 157	5785	18.44	19.50		
	CH 165	5825	18.53	19.50		
802.11n-HT40 MCS0	CH 151	5755	19.30	20.00	18.00	96.47
	CH 159	5795	19.03	20.00		
802.11ac-VHT20 MCS0	CH 149	5745	18.50	19.50	18.00	98.13
	CH 157	5785	18.42	19.50		
	CH 165	5825	18.54	19.50		
802.11ac-VHT40 MCS0	CH 151	5755	19.31	20.00	18.00	96.30
	CH 159	5795	19.03	20.00		
802.11ac-VHT80 MCS0	CH 155	5775	19.06	20.00	18.00	92.68

Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit
BR / EDR	CH 00	2402	11.88	13.00	10.44	11.50	10.45	11.50
	CH 39	2441	11.84	13.00	9.72	10.50	9.73	10.50
	CH 78	2480	11.71	13.00	10.57	11.50	10.48	11.50
Duty Cycle %			76.96		77.25		77.28	
Power Setting			Default		Default		Default	

Mode	Channel	Frequency (MHz)	Average power (dBm)		Tune-up Limit
			GFSK		
LE	CH 00	2402	6.81		8.00
	CH 19	2440	6.43		7.50
	CH 39	2480	8.01		9.00
Duty Cycle %			61.9		
Power Setting			Default		

Reduced Power Level 1 for ANT 1 & ANT 4 & ANT 5 & ANT 6 & ANT 8

Band		WCDMA Band V (dBm)			Tune-up Limit (dBm)
TX Channel		4132	4182	4233	
Rx Channel		4357	4407	4458	
Frequency (MHz)		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	22.14	22.25	22.22	22.80
3GPP Rel 5	HSDPA Subtest-1	21.36	21.52	21.70	22.30
3GPP Rel 5	HSDPA Subtest-2	21.34	21.53	21.79	22.30
3GPP Rel 5	HSDPA Subtest-3	20.87	20.96	21.19	21.80
3GPP Rel 5	HSDPA Subtest-4	20.84	21.02	21.18	21.80
3GPP Rel 8	DC-HSDPA Subtest-1	21.38	21.54	21.75	22.30
3GPP Rel 8	DC-HSDPA Subtest-2	21.36	21.58	21.76	22.30
3GPP Rel 8	DC-HSDPA Subtest-3	20.86	21.06	21.25	21.80
3GPP Rel 8	DC-HSDPA Subtest-4	20.91	21.06	21.21	21.80
3GPP Rel 6	HSUPA Subtest-1	21.38	21.57	21.72	22.30
3GPP Rel 6	HSUPA Subtest-2	20.83	21.00	21.22	21.80
3GPP Rel 6	HSUPA Subtest-3	21.26	21.53	21.73	22.30
3GPP Rel 6	HSUPA Subtest-4	21.30	21.53	21.71	22.30
3GPP Rel 6	HSUPA Subtest-5	21.36	21.45	21.74	22.30
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.85	21.01	21.25	21.80
Attenuator			Cable Loss	0.6	
Mode			Max.	22.25	

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	21.79	21.86	21.81	22.8
20	QPSK	1	49	21.77	21.75	21.75	
20	QPSK	1	99	21.69	21.80	21.71	
20	QPSK	50	0	20.81	20.90	20.84	21.8
20	QPSK	50	24	20.87	20.70	20.69	
20	QPSK	50	50	20.73	20.76	20.63	
20	QPSK	100	0	20.69	20.72	20.78	21.8
20	16QAM	1	0	20.95	21.10	20.99	
20	16QAM	1	49	20.96	21.03	20.88	
20	16QAM	1	99	20.88	20.99	20.95	21.8
20	16QAM	50	0	19.87	19.90	19.70	
20	16QAM	50	24	19.74	19.68	19.76	
20	16QAM	50	50	19.63	19.70	19.74	20.8
20	16QAM	100	0	19.55	19.82	19.64	
20	64QAM	1	0	19.86	20.01	19.87	
20	64QAM	1	49	19.73	19.74	19.90	20.8
20	64QAM	1	99	19.75	19.74	19.87	
20	64QAM	50	0	18.75	18.84	18.82	
20	64QAM	50	24	18.69	18.83	18.61	19.8
20	64QAM	50	50	18.66	18.64	18.65	
20	64QAM	100	0	18.65	18.79	18.70	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	21.81	21.83	21.75	22.8
15	QPSK	1	37	21.79	21.79	21.71	
15	QPSK	1	74	21.64	21.75	21.70	
15	QPSK	36	0	20.85	20.88	20.70	21.8
15	QPSK	36	20	20.67	20.87	20.64	
15	QPSK	36	39	20.72	20.59	20.55	
15	QPSK	75	0	20.74	20.73	20.76	21.8
15	16QAM	1	0	20.99	21.07	20.96	
15	16QAM	1	37	20.89	21.05	20.87	
15	16QAM	1	74	20.98	20.85	21.01	21.8
15	16QAM	36	0	19.86	19.91	19.70	
15	16QAM	36	20	19.65	19.70	19.65	
15	16QAM	36	39	19.53	19.77	19.72	20.8
15	16QAM	75	0	19.67	19.83	19.60	
15	64QAM	1	0	19.76	19.85	19.84	
15	64QAM	1	37	19.68	19.78	19.79	20.8
15	64QAM	1	74	19.67	19.75	19.68	
15	64QAM	36	0	18.73	18.83	18.73	
15	64QAM	36	20	18.53	18.78	18.59	19.8
15	64QAM	36	39	18.56	18.56	18.72	
15	64QAM	75	0	18.48	18.82	18.76	
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	21.77	21.81	21.74	22.8
10	QPSK	1	25	21.74	21.65	21.61	
10	QPSK	1	49	21.67	21.75	21.61	
10	QPSK	25	0	20.85	20.90	20.61	21.8
10	QPSK	25	12	20.82	20.78	20.68	
10	QPSK	25	25	20.59	20.66	20.75	
10	QPSK	50	0	20.76	20.79	20.75	21.8
10	16QAM	1	0	21.02	21.06	20.95	
10	16QAM	1	25	21.05	20.97	20.84	
10	16QAM	1	49	21.04	21.03	20.97	20.8
10	16QAM	25	0	19.73	19.89	19.83	
10	16QAM	25	12	19.74	19.66	19.66	
10	16QAM	25	25	19.62	19.65	19.78	20.8
10	16QAM	50	0	19.61	19.73	19.60	
10	64QAM	1	0	19.85	19.89	19.84	
10	64QAM	1	25	19.83	19.84	19.82	20.8
10	64QAM	1	49	19.66	19.81	19.85	
10	64QAM	25	0	18.79	18.83	18.79	
10	64QAM	25	12	18.71	18.75	18.59	19.8
10	64QAM	25	25	18.64	18.65	18.65	
10	64QAM	50	0	18.50	18.66	18.75	
Channel				19975	20175	20375	
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	21.76	21.80	21.73	22.8
5	QPSK	1	12	21.74	21.75	21.67	
5	QPSK	1	24	21.72	21.74	21.60	
5	QPSK	12	0	20.84	20.99	20.73	21.8
5	QPSK	12	7	20.64	20.74	20.64	
5	QPSK	12	13	20.69	20.61	20.65	
5	QPSK	25	0	20.79	20.78	20.64	21.8
5	16QAM	1	0	21.03	21.08	20.95	
5	16QAM	1	12	21.07	20.98	21.07	
5	16QAM	1	24	20.85	20.93	20.99	21.8
5	16QAM	12	0	19.77	19.77	19.87	
5	16QAM	12	7	19.74	19.84	19.83	
5	16QAM	12	13	19.59	19.78	19.57	20.8
5	16QAM	25	0	19.56	19.71	19.74	
5	64QAM	1	0	19.78	19.86	19.80	
5	64QAM	1	12	19.77	19.91	19.74	20.8
5	64QAM	1	24	19.57	19.74	19.65	
5	64QAM	12	0	18.75	18.91	18.80	
5	64QAM	12	7	18.59	18.84	18.59	19.8
5	64QAM	12	13	18.54	18.80	18.60	
5	64QAM	25	0	18.55	18.60	18.63	
Channel				19965	20175	20385	
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	21.78	21.82	21.76	22.8
3	QPSK	1	8	21.66	21.78	21.73	
3	QPSK	1	14	21.67	21.66	21.70	
3	QPSK	8	0	20.83	20.80	20.61	21.8
3	QPSK	8	4	20.88	20.88	20.63	
3	QPSK	8	7	20.74	20.66	20.59	

Band 5 (Cellular 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	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	21.48	21.55	21.51	22.3
10	QPSK	1	25	21.50	21.49	21.36	
10	QPSK	1	49	21.43	21.41	21.35	
10	QPSK	25	0	20.45	20.47	20.42	21.3
10	QPSK	25	12	20.40	20.47	20.29	
10	QPSK	25	25	20.36	20.36	20.28	
10	QPSK	50	0	20.36	20.35	20.28	21.3
10	16QAM	1	0	20.87	20.77	20.67	
10	16QAM	1	25	20.70	20.72	20.68	
10	16QAM	1	49	20.66	20.69	20.74	21.3
10	16QAM	25	0	19.48	19.58	19.61	
10	16QAM	25	12	19.35	19.55	19.53	
10	16QAM	25	25	19.39	19.38	19.36	20.3
10	16QAM	50	0	19.42	19.49	19.41	
10	64QAM	1	0	19.44	19.65	19.48	
10	64QAM	1	25	19.31	19.54	19.44	20.3
10	64QAM	1	49	19.47	19.45	19.53	
10	64QAM	25	0	18.31	18.55	18.31	
10	64QAM	25	12	18.19	18.48	18.22	19.3
10	64QAM	25	25	18.21	18.46	18.20	
10	64QAM	50	0	18.12	18.29	18.39	
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	21.50	21.51	21.45	22.3
5	QPSK	1	12	21.44	21.48	21.49	
5	QPSK	1	24	21.38	21.35	21.40	
5	QPSK	12	0	20.63	20.69	20.53	21.3
5	QPSK	12	7	20.52	20.55	20.45	
5	QPSK	12	13	20.31	20.46	20.33	
5	QPSK	25	0	20.44	20.53	20.50	21.3
5	16QAM	1	0	20.66	20.75	20.75	
5	16QAM	1	12	20.80	20.63	20.71	
5	16QAM	1	24	20.52	20.70	20.67	21.3
5	16QAM	12	0	19.53	19.50	19.57	
5	16QAM	12	7	19.43	19.47	19.58	
5	16QAM	12	13	19.31	19.35	19.35	20.3
5	16QAM	25	0	19.29	19.30	19.38	
5	64QAM	1	0	19.44	19.49	19.60	
5	64QAM	1	12	19.38	19.46	19.38	20.3
5	64QAM	1	24	19.30	19.54	19.51	
5	64QAM	12	0	18.28	18.46	18.47	
5	64QAM	12	7	18.38	18.50	18.30	19.3
5	64QAM	12	13	18.15	18.29	18.31	
5	64QAM	25	0	18.16	18.29	18.33	
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	21.51	21.52	21.38	22.3
3	QPSK	1	8	21.50	21.47	21.43	
3	QPSK	1	14	21.47	21.35	21.28	
3	QPSK	8	0	20.49	20.58	20.41	21.3
3	QPSK	8	4	20.46	20.41	20.37	
3	QPSK	8	7	20.32	20.37	20.30	
3	QPSK	15	0	20.31	20.49	20.43	21.3
3	16QAM	1	0	20.75	20.83	20.65	
3	16QAM	1	8	20.69	20.72	20.54	
3	16QAM	1	14	20.50	20.75	20.59	20.3
3	16QAM	8	0	19.33	19.43	19.47	
3	16QAM	8	4	19.43	19.45	19.49	
3	16QAM	8	7	19.35	19.32		

3	QPSK	15	0	20.67	20.84	20.72	
3	16QAM	1	0	21.05	21.07	21.03	21.8
3	16QAM	1	8	21.00	20.91	21.04	
3	16QAM	1	14	20.96	21.01	20.97	
3	16QAM	8	0	19.68	19.78	19.84	20.8
3	16QAM	8	4	19.71	19.76	19.82	
3	16QAM	8	7	19.60	19.59	19.72	
3	16QAM	15	0	19.57	19.74	19.68	
3	64QAM	1	0	19.85	19.89	19.81	20.8
3	64QAM	1	8	19.63	19.83	19.81	
3	64QAM	1	14	19.80	19.71	19.78	
3	64QAM	8	0	18.79	18.86	18.68	19.8
3	64QAM	8	4	18.61	18.85	18.60	
3	64QAM	8	7	18.55	18.59	18.69	
3	64QAM	15	0	18.53	18.64	18.75	
Channel				19957	20175	20393	Tune-up limit
Frequency (MHz)				1710.7	1732.5	1754.3	(dBm)
1.4	QPSK	1	0	21.73	21.80	21.72	
1.4	QPSK	1	3	21.75	21.74	21.69	22.8
1.4	QPSK	1	5	21.67	21.68	21.64	
1.4	QPSK	3	0	20.78	20.98	20.75	
1.4	QPSK	3	1	20.88	20.80	20.74	
1.4	QPSK	3	3	20.75	20.79	20.70	
1.4	QPSK	6	0	20.64	20.68	20.64	21.8
1.4	16QAM	1	0	21.03	21.07	21.04	
1.4	16QAM	1	3	21.08	20.99	20.83	21.8
1.4	16QAM	1	5	21.02	21.04	20.87	
1.4	16QAM	3	0	19.64	19.74	19.85	
1.4	16QAM	3	1	19.62	19.64	19.74	
1.4	16QAM	3	3	19.59	19.64	19.69	
1.4	16QAM	6	0	19.73	19.60	19.72	20.8
1.4	64QAM	1	0	19.82	19.97	19.90	
1.4	64QAM	1	3	19.71	19.97	19.80	20.8
1.4	64QAM	1	5	19.62	19.90	19.66	
1.4	64QAM	3	0	18.67	18.69	18.72	
1.4	64QAM	3	1	18.71	18.72	18.56	
1.4	64QAM	3	3	18.55	18.79	18.53	
1.4	64QAM	6	0	18.56	18.59	18.63	19.8

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	19.70	19.74	19.93	20.8
20	QPSK	1	49	19.55	19.65	19.90	
20	QPSK	1	99	19.62	19.59	19.79	
20	QPSK	50	0	18.71	18.75	18.88	19.8
20	QPSK	50	24	18.51	18.56	18.76	
20	QPSK	50	50	18.56	18.58	18.81	
20	QPSK	100	0	18.51	18.54	18.79	19.8
20	16QAM	1	0	18.83	18.87	19.04	
20	16QAM	1	49	18.85	18.82	18.96	
20	16QAM	1	99	18.82	18.76	18.95	19.8
20	16QAM	50	0	17.63	17.60	17.86	
20	16QAM	50	24	17.59	17.71	17.83	
20	16QAM	50	50	17.53	17.55	17.69	18.8
20	16QAM	100	0	17.62	17.51	17.77	
20	64QAM	1	0	17.68	17.71	17.99	
20	64QAM	1	49	17.62	17.62	18.00	18.8
20	64QAM	1	99	17.66	17.63	17.81	
20	64QAM	50	0	16.61	16.72	16.86	
20	64QAM	50	24	16.58	16.69	16.70	17.8
20	64QAM	50	50	16.53	16.54	16.83	
20	64QAM	100	0	16.56	16.58	16.72	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	19.68	19.70	19.90	20.8
15	QPSK	1	37	19.60	19.59	19.85	
15	QPSK	1	74	19.55	19.61	19.74	
15	QPSK	36	0	18.75	18.77	18.85	19.8
15	QPSK	36	20	18.54	18.54	18.76	
15	QPSK	36	39	18.56	18.59	18.82	
15	QPSK	75	0	18.64	18.58	18.80	19.8
15	16QAM	1	0	18.99	18.98	19.03	
15	16QAM	1	37	18.97	18.78	18.93	
15	16QAM	1	74	18.73	18.94	19.01	19.8
15	16QAM	36	0	17.63	17.62	17.87	
15	16QAM	36	20	17.68	17.62	17.75	
15	16QAM	36	39	17.55	17.53	17.85	18.8
15	16QAM	75	0	17.60	17.56	17.75	
15	64QAM	1	0	17.74	17.82	17.94	
15	64QAM	1	37	17.63	17.75	18.05	18.8
15	64QAM	1	74	17.68	17.59	17.81	
15	64QAM	36	0	16.55	16.72	16.83	
15	64QAM	36	20	16.47	16.50	16.65	17.8
15	64QAM	36	39	16.59	16.53	16.73	
15	64QAM	75	0	16.55	16.57	16.68	
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	19.61	19.69	19.89	20.8
10	QPSK	1	25	19.59	19.53	19.80	
10	QPSK	1	49	19.60	19.57	19.72	
10	QPSK	25	0	18.72	18.74	18.86	19.8
10	QPSK	25	12	18.65	18.73	18.84	
10	QPSK	25	25	18.57	18.65	18.69	
10	QPSK	50	0	18.62	18.56	18.68	19.8
10	16QAM	1	0	18.88	18.95	19.09	
10	16QAM	1	25	18.80	18.87	19.08	
10	16QAM	1	49	18.71	18.69	19.05	19.8
10	16QAM	25	0	17.88	17.75	17.90	
10	16QAM	25	12	17.53	17.55	17.89	
10	16QAM	25	25	17.56	17.61	17.89	18.8
10	16QAM	50	0	17.53	17.59	17.85	
10	64QAM	1	0	17.66	17.69	17.83	
10	64QAM	1	25	17.59	17.75	17.82	18.8
10	64QAM	1	49	17.60	17.67	17.89	
10	64QAM	25	0	16.61	16.75	16.80	
10	64QAM	25	12	16.60	16.69	16.64	17.8
10	64QAM	25	25	16.55	16.55	16.70	
10	64QAM	50	0	16.52	16.56	16.67	
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	19.68	19.71	19.86	20.8
5	QPSK	1	12	19.61	19.63	19.84	
5	QPSK	1	24	19.65	19.62	19.78	
5	QPSK	12	0	18.67	18.72	18.84	19.8
5	QPSK	12	7	18.71	18.69	18.82	
5	QPSK	12	13	18.55	18.60	18.68	
5	QPSK	25	0	18.61	18.68	18.74	19.8
5	16QAM	1	0	18.85	18.89	19.05	
5	16QAM	1	12	18.79	18.78	19.03	
5	16QAM	1	24	18.86	18.72	18.99	19.8
5	16QAM	12	0	17.58	17.63	17.86	
5	16QAM	12	7	17.51	17.53	17.81	
5	16QAM	12	13	17.60	17.58	17.67	18.8
5	16QAM	25	0	17.57	17.53	17.77	
5	64QAM	1	0	17.71	17.72	17.83	
5	64QAM	1	12	17.62	17.70	17.78	18.8
5	64QAM	1	24	17.55	17.67	17.79	
5	64QAM	12	0	16.65	16.58	16.88	
5	64QAM	12	7	16.53	16.56	16.79	17.8
5	64QAM	12	13	16.53	16.55	16.80	
5	64QAM	25	0	16.59	16.68	16.69	

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	
10	QPSK	1	0	23.07	23.12	23.09	23.8
10	QPSK	1	25	22.87	22.89	22.84	
10	QPSK	1	49	22.90	23.02	23.05	
10	QPSK	25	0	22.06	22.15	22.10	22.8
10	QPSK	25	12	21.86	22.01	21.91	
10	QPSK	25	25	21.87	21.95	21.91	
10	QPSK	50	0	21.79	21.98	21.91	22.8
10	16QAM	1	0	22.22	22.33	22.18	
10	16QAM	1	25	22.05	22.07	22.05	
10	16QAM	1	49	22.10	22.23	22.00	21.8
10	16QAM	25	0	20.77	21.00	20.84	
10	16QAM	25	12	20.73	21.04	21.00	
10	16QAM	25	25	20.84	20.71	20.82	21.8
10	16QAM	50	0	20.78	20.89	20.78	
10	64QAM	1	0	20.78	21.15	20.86	
10	64QAM	1	25	20.86	21.13	21.00	21.8
10	64QAM	1	49	20.91	20.89	20.80	
10	64QAM	25	0	19.86	20.02	19.85	
10	64QAM	25	12	19.81	19.82	19.90	20.8
10	64QAM	25	25	19.72	19.87	19.85	
10	64QAM	50	0	19.72	19.74	19.78	
Channel				23035	23095	23155	
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	22.99	23.07	23.01	23.8
5	QPSK	1	12	22.91	23.01	22.93	
5	QPSK	1	24	22.93	22.83	22.87	
5	QPSK	12	0	21.82	22.02	21.96	22.8
5	QPSK	12	7	21.79	21.98	21.92	
5	QPSK	12	13	21.79	21.74	21.83	
5	QPSK	25	0	21.70	21.79	21.84	22.8
5	16QAM	1	0	22.06	22.27	22.22	
5	16QAM	1	12	22.16	22.23	22.03	
5	16QAM	1	24	22.14	22.14	22.07	21.8
5	16QAM	12	0	20.79	21.06	20.87	
5	16QAM	12	7	20.82	20.89	20.88	
5	16QAM	12	13	20.81	20.79	20.81	21.8
5	16QAM	25	0	20.82	20.81	20.80	
5	64QAM	1	0	20.85	21.06	21.00	
5	64QAM	1	12	20.80	21.08	20.97	21.8
5	64QAM	1	24	20.86	21.07	20.82	
5	64QAM	12	0	19.89	20.04	19.99	
5	64QAM	12	7	19.83	19.86	19.83	20.8
5	64QAM	12	13	19.77	19.78	19.67	
5	64QAM	25	0	19.65	19.83	19.82	
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	23.02	23.09	23.05	23.8
3	QPSK	1	8	22.97	23.05	23.00	
3	QPSK	1	14	22.75	22.90	22.73	
3	QPSK	8	0	22.01	22.06	21.95	22.8
3	QPSK	8	4	21.88	21.87	21.79	
3	QPSK	8	7	21.88	21.82	21.74	
3	QPSK	15	0	21.79	21.85	21.82	22.8
3	16QAM	1	0	22.22	22.21	22.26	
3	16QAM	1	8	22.03	22.06	22.05	
3	16QAM	1	14	22.05	22.24	22.14	21.8
3	16QAM	8	0	20.75	21.07	20.95	
3	16QAM	8	4	20.89	20.83	20.96	
3	16QAM	8	7	20.83	20.84	20.71	21.8
3	16QAM	15	0	20.69	20.73	20.71	
3	64QAM	1	0	20.97	21.02	20.92	
3	64QAM	1	8	20.89	21.13	20.90	21.8
3	64QAM	1	14	20.83	20.90	21.02	
3	64QAM	8	0	19.76	19.91	19.85	
3	64QAM	8	4	19.65	19.93	19.75	20.8
3	64QAM	8	7	19.72	19.79	19.68	
3							

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		23.03		23.8
10	QPSK	1	25		22.95		
10	QPSK	1	49		22.88		
10	QPSK	25	0		21.96		22.8
10	QPSK	25	12		21.84		
10	QPSK	25	25		21.88		
10	QPSK	50	0		21.74		22.8
10	16QAM	1	0		22.11		
10	16QAM	1	25		22.03		
10	16QAM	1	49		21.98		21.8
10	16QAM	25	0		20.94		
10	16QAM	25	12		20.90		
10	16QAM	25	25		20.80		21.8
10	16QAM	50	0		20.99		
10	64QAM	1	0		20.95		
10	64QAM	1	25		20.87		21.8
10	64QAM	1	49		20.96		
10	64QAM	25	0		19.92		
10	64QAM	25	12		19.75		20.8
10	64QAM	25	25		19.84		
10	64QAM	50	0		19.78		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	22.94	22.99	22.92	23.8
5	QPSK	1	12	22.89	22.96	22.88	
5	QPSK	1	24	22.73	22.84	22.86	
5	QPSK	12	0	21.83	22.08	21.96	22.8
5	QPSK	12	7	21.83	22.01	21.95	
5	QPSK	12	13	21.77	21.85	21.79	
5	QPSK	25	0	21.81	21.77	21.83	22.8
5	16QAM	1	0	22.22	22.15	22.07	
5	16QAM	1	12	22.22	22.15	22.23	
5	16QAM	1	24	22.14	22.19	22.03	21.8
5	16QAM	12	0	20.88	20.90	21.00	
5	16QAM	12	7	20.85	21.02	20.84	
5	16QAM	12	13	20.84	20.78	20.87	21.8
5	16QAM	25	0	20.67	20.79	20.74	
5	64QAM	1	0	20.77	20.93	21.02	
5	64QAM	1	12	20.71	21.05	21.02	21.8
5	64QAM	1	24	20.79	20.91	20.92	
5	64QAM	12	0	19.88	19.91	19.95	
5	64QAM	12	7	19.79	19.87	19.85	20.8
5	64QAM	12	13	19.75	19.70	19.80	
5	64QAM	25	0	19.72	19.93	19.87	

Band 48 (3.5G Band) (dBm)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Middle-Low Channel	Middle-Low Channel	Middle-High Channel	High Channel	Tune-up limit (dBm)
Channel				55340	55830	55990	56150	56640	
Frequency (MHz)				3560	3609	3625	3641	3690	
20	QPSK	1	0	22.11	22.06	21.96	21.95	22.21	22.8
20	QPSK	1	49	22.07	21.96	21.80	21.86	22.15	
20	QPSK	1	99	22.00	21.94	21.90	21.79	22.02	
20	QPSK	50	0	21.08	20.92	21.02	20.88	21.17	21.8
20	QPSK	50	24	21.06	20.97	20.77	20.81	21.17	
20	QPSK	50	50	20.98	20.90	20.87	20.77	21.14	
20	QPSK	100	0	21.06	20.86	20.91	20.89	21.26	21.8
20	16QAM	1	0	21.29	21.19	21.17	21.03	21.31	
20	16QAM	1	49	21.28	21.13	21.12	21.09	21.30	
20	16QAM	1	99	21.21	20.97	21.09	21.12	21.27	20.8
20	16QAM	50	0	19.96	19.80	20.04	19.98	20.15	
20	16QAM	50	24	19.98	19.89	19.94	19.89	20.11	
20	16QAM	50	50	19.92	19.87	19.78	19.89	20.07	20.8
20	16QAM	100	0	20.05	19.85	19.77	19.75	20.09	
20	64QAM	1	0	19.99	19.96	19.86	19.93	20.18	
20	64QAM	1	49	20.04	19.81	19.88	19.92	20.08	20.8
20	64QAM	1	99	20.07	19.85	19.85	19.88	20.15	
20	64QAM	50	0	18.99	18.83	18.88	18.85	19.05	
20	64QAM	50	24	18.99	18.79	18.79	18.75	19.01	19.8
20	64QAM	50	50	18.90	18.76	18.80	18.72	19.03	
20	64QAM	100	0	18.79	18.73	18.83	18.81	19.00	
Channel				55315	55820	55990	56160	56665	
Frequency (MHz)				3557.5	3608	3625	3642	3692.5	
15	QPSK	1	0	22.01	21.93	21.81	21.88	22.18	22.8
15	QPSK	1	37	22.02	21.98	21.75	21.76	22.15	
15	QPSK	1	74	21.90	21.86	21.76	21.75	22.02	
15	QPSK	36	0	21.11	21.04	21.07	20.87	21.14	21.8
15	QPSK	36	20	21.05	20.94	20.87	20.79	21.13	
15	QPSK	36	39	20.91	20.82	20.80	20.75	21.07	
15	QPSK	75	0	21.02	20.83	20.93	20.80	21.17	21.8
15	16QAM	1	0	21.15	21.09	21.05	21.14	21.22	
15	16QAM	1	37	21.09	21.04	21.04	20.98	21.16	
15	16QAM	1	74	21.10	21.03	21.05	21.06	21.09	20.8
15	16QAM	36	0	20.06	20.00	19.80	19.91	20.16	
15	16QAM	36	20	19.96	19.96	19.94	19.80	20.19	
15	16QAM	36	39	19.81	19.89	19.81	19.82	19.97	20.8
15	16QAM	75	0	20.03	19.91	19.80	19.90	20.05	
15	64QAM	1	0	19.95	19.91	20.10	19.88	20.17	
15	64QAM	1	37	20.04	19.89	19.84	19.79	20.16	20.8
15	64QAM	1	74	20.08	19.84	19.79	19.81	20.14	
15	64QAM	36	0	18.93	18.90	18.86	18.82	19.00	
15	64QAM	36	20	18.89	18.76	18.95	18.74	19.03	19.8
15	64QAM	36	39	18.95	18.70	18.88	18.76	18.90	
15	64QAM	75	0	18.88	18.75	18.81	18.80	18.92	
Channel				55290	55815	55990	56165	56690	
Frequency (MHz)				3555	3607.5	3625	3642.5	3695	
10	QPSK	1	0	21.97	22.03	22.00	21.92	22.17	22.8
10	QPSK	1	25	21.92	21.98	21.74	21.83	22.05	
10	QPSK	1	49	21.89	21.82	21.79	21.81	22.02	
10	QPSK	25	0	21.05	21.09	20.95	20.82	21.12	21.8
10	QPSK	25	12	21.03	20.77	20.82	20.81	21.11	
10	QPSK	25	25	20.93	20.94	20.79	20.76	21.01	
10	QPSK	50	0	20.91	20.86	20.87	20.84	21.09	21.8
10	16QAM	1	0	21.21	21.19	21.17	21.08	21.29	
10	16QAM	1	25	21.14	21.05	21.16	21.07	21.25	
10	16QAM	1	49	21.10	20.94	21.11	21.03	21.17	20.8
10	16QAM	25	0	20.04	19.78	19.83	19.99	20.11	
10	16QAM	25	12	20.03	19.74	19.73	19.93	20.12	
10	16QAM	25	25	19.82	19.76	19.79	19.76	20.01	20.8
10	16QAM	50	0	20.03	19.83	19.76	19.90	20.05	
10	64QAM	1	0	20.10	19.94	20.01	19.92	20.08	
10	64QAM	1	25	20.09	19.80	19.91	19.98	20.06	20.8
10	64QAM	1	49	20.03	19.70	19.82	19.87	20.02	
10	64QAM	25	0	19.02	18.78	18.89	18.70	19.06	
10	64QAM	25	12	18.89	18.72	18.91	18.76	18.93	19.8
10	64QAM	25	25	18.74	18.75	18.85	18.64	19.07	
10	64QAM	50	0	18.78	18.79	18.91	18.86	18.84	
Channel				55265	55810	55990	56170	56175	
Frequency (MHz)				3552.5	3607	3625	3643	3697.5	
5	QPSK	1	0	22.05	21.90	22.02	21.94	22.15	22.8
5	QPSK	1	12	22.04	21.96	21.75	21.72	22.13	
5	QPSK	1	24	22.00	21.88	21.77	21.78	22.09	
5	QPSK	12	0	21.05	21.02	20.82	20.79	21.12	21.8
5	QPSK	12	7	21.01	20.98	20.94	20.80	21.11	
5	QPSK	12	13	20.85	20.90	20.79	20.84	21.08	
5	QPSK	25	0	21.04	20.86	20.80	20.85	21.06	21.8
5	16QAM	1	0	21.16	21.13	21.08	21.06	21.17	
5	16QAM	1	12	21.14	21.11	21.08	21.08	21.09	
5	16QAM	1	24	21.05	21.06	21.01	21.02	21.12	20.8
5	16QAM	12	0	20.04	19.79	19.94	19.91	20.06	
5	16QAM	12	7	19.92	19.96	19.73	19.99	20.05	
5	16QAM	12	13	19.96	19.77	19.71	19.80	20.02	20.8
5	16QAM	25	0	19.91	19.72	19.83	19.89	20.01	
5	64QAM	1	0	20.09	19.98	20.01	19.98	20.19	
5	64QAM	1	12	20.04	19.88	19.96	19.85	20.14	20.8
5	64QAM	1	24	19.98	19.86	19.95	19.79	20.13	
5	64QAM	12	0	18.93	18.80	18.79	18.86	19.14	
5	64QAM	12	7	18.87	18.85	18.91	18.79	19.05	19.8
5	64QAM	12	13	18.82	18.76	18.80	18.77	18.99	
5	64QAM	25	0	18.98	18.89	18.80	18.81	19.09	

n5 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Chann	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	21.61	21.67	21.67	22.50
20		1	53	21.53	21.51	21.55	
20		1	104	21.27	21.21	21.29	
20		50	1	21.72	21.71	21.72	22.50
20		50	25	21.62	21.66	21.59	
20		50	50	21.62	21.51	21.49	
20		100	0	21.70	21.62	21.54	
20	DFT-s-OFDM QPSK	1	1	21.77	21.82	21.81	22.50
20		1	53	21.60	21.60	21.68	
20		1	104	21.35	21.24	21.32	
20		50	1	21.71	21.73	21.64	22.50
20		50	25	21.65	21.65	21.56	
20		50	50	21.50	21.54	21.31	
20		100	0	21.69	21.67	21.51	
20	DFT-s-OFDM 16QAM	1	1	21.72	21.76	21.75	22.50
20	DFT-s-OFDM 64QAM	1	1	20.14	20.33	20.36	21.00
20	DFT-s-OFDM 256QAM	1	1	17.98	18.07	18.00	19.00
20	CP-OFDM QPSK	1	1	21.21	21.31	21.11	22.00
20	CP-OFDM 16QAM	1	1	20.80	20.82	20.77	21.50
20	CP-OFDM 64QAM	1	1	19.27	19.42	19.32	20.00
20	CP-OFDM 256QAM	1	1	16.01	16.11	16.10	17.00
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	21.75	21.79	21.57	22.50
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	21.53	21.35	21.48	22.00
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	21.59	21.52	21.28	22.00

n48 (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				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	19.92	19.63	18.81	18.62	20.48	22
40		1	53	20.69	19.19	17.82	20.01	21.20	
40		1	104	19.58	20.35	19.41	21.01	21.25	
40		50	1	19.41	19.01	17.81	18.83	20.36	22
40		50	25	19.83	19.31	18.24	19.95	21.18	
40		50	50	19.14	18.31	17.98	19.81	20.43	
40		100	0	19.25	18.78	17.83	19.41	20.69	
40	DFT-s-OFDM QPSK	1	1	21.55	21.61	21.73	21.63	21.67	22.5
40		1	53	19.83	19.18	17.83	20.04	21.22	
40		1	104	20.58	18.33	19.41	21.04	21.70	
40		50	1	20.72	20.66	20.83	20.53	20.67	21.5
40		50	25	19.87	19.30	20.11	19.92	20.58	
40		50	50	19.56	20.26	20.45	20.38	20.50	
40		100	0	20.55	20.30	20.35	19.78	20.19	
40	DFT-s-OFDM 16QAM	1	1	18.81	18.49	18.66	18.53	19.36	20.00
40	DFT-s-OFDM 64QAM	1	1	17.40	17.06	17.26	17.10	17.33	18.00
40	DFT-s-OFDM 256QAM	1	1	15.25	14.98	14.14	13.93	15.76	16.50
40	CP-OFDM QPSK	1	1	18.44	18.13	17.30	17.15	18.97	19.50
40	CP-OFDM 16QAM	1	1	17.89	17.60	16.86	16.69	18.54	19.50
40	CP-OFDM 64QAM	1	1	16.02	15.69	14.88	14.69	16.57	17.50
40	CP-OFDM 256QAM	1	1	13.25	12.99	12.05	11.94	13.75	14.50
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	19.75	19.39	18.14	19.67	21.29	22.00

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			22.32			23
100		1	136			21.67			
100		1	271			21.45			
100		135	1			21.72			23
100		135	67			22.01			
100		135	136			20.99			
100		270	0			21.45			
100	DFT-s-OFDM QPSK	1	1			22.43			23
100		1	136			21.95			
100		1	271			21.39			
100		135	1			22.01			22.5
100		135	67			21.99			
100		135	136			21.46			
100		270	0			21.92			
100	DFT-s-OFDM 16QAM	1	1			21.33			22.00
100	DFT-s-OFDM 64QAM	1	1			19.97			20.50
100	DFT-s-OFDM 256QAM	1	1			17.78			18.50
100	CP-OFDM QPSK	1	1			20.92			21.50
100	CP-OFDM 16QAM	1	1			20.41			21.00
100	CP-OFDM 64QAM	1	1			18.53			19.50
100	CP-OFDM 256QAM	1	1			15.79			16.50
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	22.33	22.34	22.32	22.18	22.09	23.00
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	21.53	22.35	22.12	21.98	22.04	23.00
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	22.39	22.33	22.36	22.32	22.19	23.00
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	22.34	22.35	22.30	22.31	21.95	23.00
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	22.31	22.34	22.25	22.09	21.69	23.00

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		
Frequency (MHz)				3750	3795	3840	3885	3930		
100	DFT-s-OFDM PI/2 BPSK	1	1	19.08	20.68	20.80	20.69	19.75	22.50	
100		1	136	20.77	20.91	20.68	19.71	20.65		
100		1	271	20.57	20.59	19.68	19.56	19.45		
100		DFT-s-OFDM PI/2 BPSK	135	1	20.02	20.55	20.30	19.54	19.76	21.50
100			135	67	20.87	20.92	20.70	19.73	18.71	
100			135	136	20.02	20.26	19.38	18.50	18.09	
100			270	0	20.01	20.49	20.17	19.26	19.68	
100	DFT-s-OFDM QPSK	1	1	21.52	21.65	21.67	21.57	21.62	22.50	
100		1	136	21.13	20.89	20.71	19.72	18.52		
100		1	271	20.58	20.55	19.70	18.54	18.41		
100		DFT-s-OFDM QPSK	135	1	20.54	20.63	20.87	20.75	20.79	21.50
100			135	67	20.25	19.68	20.66	19.75	18.69	
100			135	136	19.54	19.75	18.88	18.03	18.22	
100			270	0	20.44	20.01	19.69	18.76	18.34	
100	DFT-s-OFDM 16QAM	1	1	19.93	20.56	19.43	19.58	18.66	20.50	
100	DFT-s-OFDM 64QAM	1	1	19.80	19.31	18.34	18.40	17.35	19.00	
100	DFT-s-OFDM 256QAM	1	1	14.37	16.94	16.15	16.01	15.05	17.00	
100	CP-OFDM QPSK	1	1	17.57	20.15	19.32	19.21	18.25	20.00	
100	CP-OFDM 16QAM	1	1	17.07	17.22	18.89	18.74	17.77	19.50	
100	CP-OFDM 64QAM	1	1	15.17	17.84	16.89	16.85	15.85	17.50	
100	CP-OFDM 256QAM	1	1	13.39	15.00	14.06	14.04	13.08	15.00	
Channel				649334	652668	656000	659332	662666	Tune-up limit (dBm)	
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99		
80	DFT-s-OFDM QPSK	1	1	19.05	21.52	20.91	20.34	19.22	22.00	
Channel				648668	652334	656000	659666	663332	Tune-up limit (dBm)	
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98		
60	DFT-s-OFDM QPSK	1	1	19.09	21.34	20.86	19.85	18.57	22.00	
Channel				648000	652000	656000	660000	664000	Tune-up limit (dBm)	
Frequency (MHz)				3720	3780	3840	3900	3960		
40	DFT-s-OFDM QPSK	1	1	19.50	21.50	21.07	20.13	17.94	22.00	
Channel				647668	651834	656000	660166	664332	Tune-up limit (dBm)	
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98		
30	DFT-s-OFDM QPSK	1	1	19.42	21.29	20.95	19.79	17.98	22.00	
Channel				647334	651668	656000	660332	664666	Tune-up limit (dBm)	
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99		
20	DFT-s-OFDM QPSK	1	1	19.34	21.25	20.99	19.64	18.36	22.00	

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			21.99			23.00
100		1	136			20.84			
100		1	271			20.15			
100		135	1			20.85			22.00
100		135	67			21.05			
100		135	136			19.74			
100		270	0			20.45			
100	DFT-s-OFDM QPSK	1	1			22.02			23.00
100		1	136			20.89			
100		1	271			20.12			
100		135	1			21.03			22.00
100		135	67			20.88			
100		135	136			19.28			
100		270	0			19.93			
100	DFT-s-OFDM 16QAM	1	1			20.82			21.50
100	DFT-s-OFDM 64QAM	1	1			19.50			20.50
100	DFT-s-OFDM 256QAM	1	1			17.37			18.00
100	CP-OFDM QPSK	1	1			20.29			21.00
100	CP-OFDM 16QAM	1	1			19.83			20.50
100	CP-OFDM 64QAM	1	1			18.19			19.00
100	CP-OFDM 256QAM	1	1			15.30			16.00
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	21.98	21.94	21.81	21.70	21.66	22.50
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	21.98	21.90	21.75	21.62	21.38	22.50
Channel				632334	632634	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	21.99	21.85	21.63	21.37	21.15	22.50
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	21.94	21.73	21.48	21.16	21.12	22.00
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	21.93	21.64	21.26	21.08	20.99	22.00
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	21.99	21.10	21.43	21.30	21.04	22.00
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	21.96	21.68	21.32	21.09	20.63	22.00
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	21.90	21.59	21.30	20.89	20.40	22.00

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			22.00
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			20.01			22.00
100		1	136			21.21			
100		1	271			21.10			
100		135	1			20.60			22.00
100		135	67			21.18			
100		135	136			20.38			
100		270	0			20.50			
100	DFT-s-OFDM QPSK	1	1			21.23			22.00
100		1	136			20.39			
100		1	271			20.59			
100		135	1			21.11			22.00
100		135	67			20.99			
100		135	136			20.87			
100		270	0			20.91			
100	DFT-s-OFDM 16QAM	1	1			18.88			19.50
100	DFT-s-OFDM 64QAM	1	1			17.57			18.50
100	DFT-s-OFDM 256QAM	1	1			15.28			16.00
100	CP-OFDM QPSK	1	1			18.48			19.00
100	CP-OFDM 16QAM	1	1			18.12			19.00
100	CP-OFDM 64QAM	1	1			16.19			17.00
100	CP-OFDM 256QAM	1	1			13.31			14.00
Channel				649668	649834	650000	650166	650332	21.00
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	19.97	20.01	20.15	20.23	20.42	21.00
Channel				649334	649666	650000	650334	650666	21.50
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	20.02	20.24	20.45	20.64	20.93	21.50
Channel				649000	649500	650000	650500	651000	22.00
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	20.03	20.36	20.68	21.05	21.18	22.00
Channel				648668	649334	650000	650666	651332	22.00
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	19.92	20.39	20.93	21.12	21.08	22.00
Channel				648334	649166	650000	650834	651666	22.00
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	20.09	20.65	21.17	21.16	21.18	22.00
Channel				648000	649000	650000	651000	652000	22.00
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	20.30	21.07	21.13	21.13	21.39	22.00
Channel				647668	648834	650000	651166	652332	22.00
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	20.18	21.06	21.17	21.09	21.01	22.00
Channel				647334	648666	650000	651334	652666	22.00
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	20.16	21.10	21.16	21.16	21.04	22.00

CA_5B											
Combination:10MHz+10MHz(50RB+50RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	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	20549	QPSK	1	0	0	0	1	0	21.33	22.30
20525	20476	20575	QPSK	1	0	0	0	1	0	21.36	22.30
20600	20501	20600	QPSK	1	0	0	0	1	0	21.25	22.30
20450	20450	20549	16QAM	1	0	0	0	1	0	20.58	21.30
20525	20476	20575	16QAM	1	0	0	0	1	0	20.53	21.30
20600	20501	20600	16QAM	1	0	0	0	1	0	20.51	21.30
20450	20450	20549	64QAM	1	0	0	0	1	0	19.48	20.30
20525	20476	20575	64QAM	1	0	0	0	1	0	19.53	20.30
20600	20501	20600	64QAM	1	0	0	0	1	0	19.50	20.30
20450	20450	20549	256QAM	1	0	0	0	1	0	16.71	17.30
20525	20476	20575	256QAM	1	0	0	0	1	0	16.75	17.30
20600	20501	20600	256QAM	1	0	0	0	1	0	16.69	17.30
20450	20450	20549	QPSK	25	0	0	0	1	0	20.35	21.30
20525	20476	20575	QPSK	25	0	0	0	1	0	20.36	21.30
20600	20501	20600	QPSK	25	0	0	0	1	0	20.31	21.30

CA_48C											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	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	55538	QPSK	1	0	0	0	1	0	21.80	22.80
55990	55891	56089	QPSK	1	0	0	0	1	0	21.65	22.80
56640	56442	56640	QPSK	1	0	0	0	1	0	21.88	22.80
55340	55340	55538	16QAM	1	0	0	0	1	0	21.13	21.80
55990	55891	56089	16QAM	1	0	0	0	1	0	21.02	21.80
56640	56442	56640	16QAM	1	0	0	0	1	0	21.28	21.80
55340	55340	55538	64QAM	1	0	0	0	1	0	20.25	20.80
55990	55891	56089	64QAM	1	0	0	0	1	0	20.15	20.80
56640	56442	56640	64QAM	1	0	0	0	1	0	20.21	20.80
55340	55340	55538	256QAM	1	0	0	0	1	0	17.18	17.80
55990	55891	56089	256QAM	1	0	0	0	1	0	17.05	17.80
56640	56442	56640	256QAM	1	0	0	0	1	0	17.15	17.80
55340	55340	55538	QPSK	50	0	0	0	1	0	20.76	21.80
55990	55891	56089	QPSK	50	0	0	0	1	0	20.65	21.80
56640	56442	56640	QPSK	50	0	0	0	1	0	20.70	21.80

5GHz WLAN ANT 8

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.8GHz WLAN ANT 8	802.11a 6Mbps	CH 149	5745	17.16	18.00	16.50	98.26
		CH 157	5785	17.09	18.00		
		CH 165	5825	17.22	18.00		
	802.11n-HT20 MCS0	CH 149	5745	16.46	17.50	16.00	98.13
		CH 157	5785	16.44	17.50		
		CH 165	5825	16.53	17.50		
	802.11n-HT40 MCS0	CH 151	5755	17.30	18.00	16.00	96.47
		CH 159	5795	17.03	18.00		
	802.11ac-VHT20 MCS0	CH 149	5745	16.50	17.50	16.00	98.13
		CH 157	5785	16.42	17.50		
		CH 165	5825	16.54	17.50		
	802.11ac-VHT40 MCS0	CH 151	5755	17.31	18.00	16.00	96.30
		CH 159	5795	17.03	18.00		
	802.11ac-VHT80 MCS0	CH 155	5775	17.06	18.00	16.00	92.68

Reduced Power Level 2 for ANT 1 & ANT3 & ANT 4 & ANT 6 & ANT 8

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	20.8
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	19.79	19.86	19.81	20.8
20	QPSK	1	49	19.77	19.75	19.75	
20	QPSK	1	99	19.69	19.80	19.71	
20	QPSK	50	0	18.81	18.90	18.84	19.8
20	QPSK	50	24	18.87	18.70	18.69	
20	QPSK	50	50	18.73	18.76	18.63	
20	QPSK	100	0	18.69	18.72	18.78	19.8
20	16QAM	1	0	18.95	19.10	18.99	
20	16QAM	1	49	18.96	19.03	18.88	
20	16QAM	1	99	18.88	18.99	18.95	19.8
20	16QAM	50	0	17.87	17.90	17.70	
20	16QAM	50	24	17.74	17.68	17.76	
20	16QAM	50	50	17.63	17.70	17.74	18.8
20	16QAM	100	0	17.55	17.82	17.64	
20	64QAM	1	0	17.86	18.01	17.87	
20	64QAM	1	49	17.73	17.74	17.90	18.8
20	64QAM	1	99	17.75	17.74	17.87	
20	64QAM	50	0	16.75	16.84	16.82	
20	64QAM	50	24	16.69	16.83	16.61	17.8
20	64QAM	50	50	16.66	16.64	16.65	
20	64QAM	100	0	16.65	16.79	16.70	
Channel				20025	20175	20325	20.8
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	19.81	19.83	19.75	20.8
15	QPSK	1	37	19.79	19.79	19.71	
15	QPSK	1	74	19.64	19.75	19.70	
15	QPSK	36	0	18.85	18.88	18.70	19.8
15	QPSK	36	20	18.67	18.87	18.64	
15	QPSK	36	39	18.72	18.59	18.55	
15	QPSK	75	0	18.74	18.73	18.76	19.8
15	16QAM	1	0	18.99	19.07	18.96	
15	16QAM	1	37	18.89	19.05	18.87	
15	16QAM	1	74	18.98	18.85	19.01	19.8
15	16QAM	36	0	17.86	17.91	17.70	
15	16QAM	36	20	17.65	17.70	17.65	
15	16QAM	36	39	17.53	17.77	17.72	18.8
15	16QAM	75	0	17.67	17.83	17.60	
15	64QAM	1	0	17.76	17.85	17.84	
15	64QAM	1	37	17.68	17.78	17.79	18.8
15	64QAM	1	74	17.67	17.75	17.68	
15	64QAM	36	0	16.73	16.83	16.73	
15	64QAM	36	20	16.53	16.78	16.59	17.8
15	64QAM	36	39	16.56	16.56	16.72	
15	64QAM	75	0	16.48	16.82	16.76	
Channel				20000	20175	20350	20.8
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	19.77	19.81	19.74	20.8
10	QPSK	1	25	19.74	19.65	19.61	
10	QPSK	1	49	19.67	19.75	19.61	
10	QPSK	25	0	18.85	18.90	18.61	19.8
10	QPSK	25	12	18.82	18.78	18.68	
10	QPSK	25	25	18.59	18.66	18.75	
10	QPSK	50	0	18.76	18.79	18.75	19.8
10	16QAM	1	0	19.02	19.06	18.95	
10	16QAM	1	25	19.05	18.97	18.84	
10	16QAM	1	49	19.04	19.03	18.97	19.8
10	16QAM	25	0	17.73	17.89	17.83	
10	16QAM	25	12	17.74	17.66	17.66	
10	16QAM	25	25	17.62	17.65	17.78	18.8
10	16QAM	50	0	17.61	17.73	17.60	
10	64QAM	1	0	17.85	17.89	17.84	
10	64QAM	1	25	17.83	17.84	17.82	18.8
10	64QAM	1	49	17.66	17.81	17.85	
10	64QAM	25	0	16.79	16.83	16.79	
10	64QAM	25	12	16.71	16.75	16.59	17.8
10	64QAM	25	25	16.64	16.65	16.65	
10	64QAM	50	0	16.50	16.66	16.75	
Channel				19975	20175	20375	20.8
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	19.76	19.80	19.73	20.8
5	QPSK	1	12	19.74	19.75	19.67	
5	QPSK	1	24	19.72	19.74	19.60	
5	QPSK	12	0	18.84	18.99	18.73	19.8
5	QPSK	12	7	18.64	18.74	18.64	
5	QPSK	12	13	18.69	18.61	18.65	
5	QPSK	25	0	18.79	18.78	18.64	19.8
5	16QAM	1	0	19.03	19.08	18.95	
5	16QAM	1	12	19.07	18.98	19.07	
5	16QAM	1	24	18.85	18.93	18.99	19.8
5	16QAM	12	0	17.77	17.77	17.87	
5	16QAM	12	7	17.74	17.84	17.83	
5	16QAM	12	13	17.59	17.78	17.57	18.8
5	16QAM	25	0	17.56	17.71	17.74	
5	64QAM	1	0	17.78	17.86	17.80	
5	64QAM	1	12	17.77	17.91	17.74	18.8
5	64QAM	1	24	17.57	17.74	17.65	
5	64QAM	12	0	16.75	16.91	16.80	
5	64QAM	12	7	16.59	16.84	16.59	17.8
5	64QAM	12	13	16.54	16.80	16.60	
5	64QAM	25	0	16.55	16.60	16.63	
Channel				19965	20175	20385	20.8
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	19.78	19.82	19.76	20.8
3	QPSK	1	8	19.66	19.78	19.73	
3	QPSK	1	14	19.67	19.66	19.70	
3	QPSK	8	0	18.83	18.80	18.61	20.8

Band 5 (Celluar Band) (dBm) Part 22H(only on channel required)_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	20.3
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	19.48	19.55	19.51	20.3
10	QPSK	1	25	19.50	19.49	19.36	
10	QPSK	1	49	19.43	19.41	19.35	
10	QPSK	25	0	18.45	18.47	18.42	19.3
10	QPSK	25	12	18.40	18.47	18.29	
10	QPSK	25	25	18.36	18.36	18.28	
10	QPSK	50	0	18.36	18.35	18.28	19.3
10	16QAM	1	0	18.87	18.77	18.67	
10	16QAM	1	25	18.70	18.72	18.68	
10	16QAM	1	49	18.66	18.69	18.74	19.3
10	16QAM	25	0	17.48	17.58	17.61	
10	16QAM	25	12	17.35	17.55	17.53	
10	16QAM	25	25	17.39	17.38	17.36	18.3
10	16QAM	50	0	17.42	17.49	17.41	
10	64QAM	1	0	17.44	17.65	17.48	
10	64QAM	1	25	17.31	17.54	17.44	18.3
10	64QAM	1	49	17.47	17.45	17.53	
10	64QAM	25	0	16.31	16.55	16.31	
10	64QAM	25	12	16.19	16.48	16.22	17.3
10	64QAM	25	25	16.21	16.46	16.20	
10	64QAM	50	0	16.12	16.29	16.39	
Channel				20425	20525	20625	20.3
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	19.50	19.51	19.45	20.3
5	QPSK	1	12	19.44	19.48	19.49	
5	QPSK	1	24	19.38	19.35	19.40	
5	QPSK	12	0	18.63	18.69	18.53	19.3
5	QPSK	12	7	18.52	18.55	18.45	
5	QPSK	12	13	18.31	18.46	18.33	
5	QPSK	25	0	18.44	18.53	18.50	19.3
5	16QAM	1	0	18.66	18.75	18.75	
5	16QAM	1	12	18.80	18.63	18.71	
5	16QAM	1	24	18.52	18.70	18.67	19.3
5	16QAM	12	0	17.53	17.50	17.57	
5	16QAM	12	7	17.43	17.47	17.58	
5	16QAM	12	13	17.31	17.35	17.35	18.3
5	16QAM	25	0	17.29	17.30	17.38	
5	64QAM	1	0	17.44	17.49	17.60	
5	64QAM	1	12	17.38	17.46	17.38	18.3
5	64QAM	1	24	17.30	17.54	17.51	
5	64QAM	12	0	16.28	16.46	16.47	
5	64QAM	12	7	16.38	16.50	16.30	17.3
5	64QAM	12	13	16.15	16.29	16.31	
5	64QAM	25	0	16.16	16.29	16.33	
Channel				20415	20525	20635	20.3
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	19.51	19.52	19.38	20.3
3	QPSK	1	8	19.50	19.47	19.43	
3	QPSK	1	14	19.47	19.35	19.28	
3	QPSK	8	0	18.49	18.58	18.41	19.3
3	QPSK	8	4	18.46	18.41	18.37	
3	QPSK	8	7	18.32	18.37	18.30	
3	QPSK	15	0	18.31	18.49	18.43	19.3
3	16QAM	1	0	18.75	18.83	18.65	
3	16QAM	1	8	18.69	18.72	18.54	
3	16QAM	1	14	18.50	18.75	18.59	18.3
3	16QAM	8	0	17.33	17.43	17.47	
3	16QAM	8	4	17.43	17.45	17.49	
3	16QAM	8	7	17.35	17.32	17.40	18.3

3	QPSK	8	4	18.88	18.88	18.63	19.8
3	QPSK	8	7	18.74	18.66	18.59	
3	QPSK	15	0	18.67	18.84	18.72	
3	16QAM	1	0	19.05	19.07	19.03	19.8
3	16QAM	1	8	19.00	18.91	19.04	
3	16QAM	1	14	18.96	19.01	18.97	
3	16QAM	8	0	17.68	17.78	17.84	18.8
3	16QAM	8	4	17.71	17.76	17.82	
3	16QAM	8	7	17.60	17.59	17.72	
3	16QAM	15	0	17.57	17.74	17.68	18.8
3	64QAM	1	0	17.85	17.89	17.81	
3	64QAM	1	8	17.63	17.63	17.61	
3	64QAM	1	14	17.80	17.71	17.78	17.8
3	64QAM	8	0	16.79	16.86	16.68	
3	64QAM	8	4	16.61	16.85	16.60	
3	64QAM	8	7	16.55	16.59	16.69	17.8
3	64QAM	15	0	16.53	16.64	16.75	
Channel				19957	20176	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	19.73	19.80	19.72	20.8
1.4	QPSK	1	3	19.75	19.74	19.69	
1.4	QPSK	1	5	19.67	19.68	19.64	
1.4	QPSK	3	0	18.78	18.98	18.75	
1.4	QPSK	3	1	18.88	18.80	18.74	
1.4	QPSK	3	3	18.75	18.79	18.70	
1.4	QPSK	6	0	18.64	18.68	18.64	19.8
1.4	16QAM	1	0	19.03	19.07	19.04	19.8
1.4	16QAM	1	3	19.08	18.99	18.83	
1.4	16QAM	1	5	19.02	19.04	18.87	
1.4	16QAM	3	0	17.64	17.74	17.85	
1.4	16QAM	3	1	17.62	17.64	17.74	
1.4	16QAM	3	3	17.59	17.64	17.69	
1.4	16QAM	6	0	17.73	17.60	17.72	18.8
1.4	64QAM	1	0	17.82	17.97	17.90	18.8
1.4	64QAM	1	3	17.71	17.97	17.80	
1.4	64QAM	1	5	17.62	17.90	17.66	
1.4	64QAM	3	0	16.67	16.69	16.72	
1.4	64QAM	3	1	16.71	16.72	16.56	
1.4	64QAM	3	3	16.55	16.79	16.53	
1.4	64QAM	6	0	16.56	16.59	16.63	17.8

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			21.3
Frequency (MHz)				782			
10	QPSK	1	0		20.53		21.3
10	QPSK	1	25		20.45		
10	QPSK	1	49		20.38		
10	QPSK	25	0		19.46		20.3
10	QPSK	25	12		19.34		
10	QPSK	25	25		19.38		
10	QPSK	50	0		19.24		20.3
10	16QAM	1	0		19.61		
10	16QAM	1	25		19.53		
10	16QAM	1	49		19.48		19.3
10	16QAM	25	0		18.44		
10	16QAM	25	12		18.40		
10	16QAM	25	25		18.30		19.3
10	16QAM	50	0		18.49		
10	64QAM	1	0		18.45		
10	64QAM	1	25		18.37		19.3
10	64QAM	1	49		18.46		
10	64QAM	25	0		17.42		
10	64QAM	25	12		17.25		18.3
10	64QAM	25	25		17.34		
10	64QAM	50	0		17.28		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	21.3
5	QPSK	1	0	20.44	20.49	20.42	
5	QPSK	1	12	20.39	20.46	20.38	20.3
5	QPSK	1	24	20.23	20.34	20.36	
5	QPSK	12	0	19.33	19.58	19.46	
5	QPSK	12	7	19.33	19.51	19.45	20.3
5	QPSK	12	13	19.27	19.35	19.29	
5	QPSK	25	0	19.31	19.27	19.33	
5	16QAM	1	0	19.72	19.65	19.57	20.3
5	16QAM	1	12	19.72	19.65	19.73	
5	16QAM	1	24	19.64	19.69	19.53	
5	16QAM	12	0	18.38	18.40	18.50	19.3
5	16QAM	12	7	18.35	18.52	18.34	
5	16QAM	12	13	18.34	18.28	18.37	
5	16QAM	25	0	18.17	18.29	18.24	19.3
5	64QAM	1	0	18.27	18.43	18.52	
5	64QAM	1	12	18.21	18.55	18.52	
5	64QAM	1	24	18.29	18.41	18.42	18.3
5	64QAM	12	0	17.38	17.41	17.45	
5	64QAM	12	7	17.29	17.37	17.35	
5	64QAM	12	13	17.25	17.20	17.30	18.3
5	64QAM	25	0	17.22	17.43	17.37	

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	20.8
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	19.85	19.97	19.93	20.8
20	QPSK	1	49	19.79	19.91	19.86	
20	QPSK	1	99	19.68	19.89	19.74	
20	QPSK	50	0	18.83	18.92	18.87	19.8
20	QPSK	50	24	18.83	18.91	18.82	
20	QPSK	50	50	18.85	18.75	18.77	
20	QPSK	100	0	18.75	18.82	18.83	19.8
20	16QAM	1	0	18.98	19.07	19.06	
20	16QAM	1	49	19.02	18.95	18.89	
20	16QAM	1	99	18.87	18.96	19.03	18.8
20	16QAM	50	0	17.88	17.95	17.90	
20	16QAM	50	24	17.70	17.87	17.95	
20	16QAM	50	50	17.71	17.77	17.73	18.8
20	16QAM	100	0	17.70	17.73	17.75	
20	64QAM	1	0	17.81	17.92	17.85	
20	64QAM	1	49	17.75	17.89	17.92	18.8
20	64QAM	1	99	17.67	17.88	17.82	
20	64QAM	50	0	16.72	16.86	16.82	
20	64QAM	50	24	16.57	16.78	16.69	17.8
20	64QAM	50	50	16.71	16.82	16.59	
20	64QAM	100	0	16.59	16.82	16.84	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	20.8
15	QPSK	1	0	19.81	19.94	19.90	
15	QPSK	1	37	19.72	19.83	19.68	19.8
15	QPSK	1	74	19.71	19.66	19.63	
15	QPSK	36	0	18.78	18.96	18.87	
15	QPSK	36	20	18.80	18.78	18.70	19.8
15	QPSK	36	39	18.70	18.86	18.73	
15	QPSK	75	0	18.74	18.73	18.75	
15	16QAM	1	0	19.01	19.09	19.05	19.8
15	16QAM	1	37	19.03	19.00	18.91	
15	16QAM	1	74	18.97	18.96	19.06	
15	16QAM	36	0	17.83	17.93	17.95	18.8
15	16QAM	36	20	17.78	17.86	17.78	
15	16QAM	36	39	17.73	17.81	17.85	
15	16QAM	75	0	17.66	17.78	17.82	18.8
15	64QAM	1	0	17.84	17.97	17.90	
15	64QAM	1	37	17.67	17.91	17.80	
15	64QAM	1	74	17.73	17.84	17.82	17.8
15	64QAM	36	0	16.84	16.90	16.85	
15	64QAM	36	20	16.83	16.87	16.57	
15	64QAM	36	39	16.72	16.61	16.74	17.8
15	64QAM	75	0	16.68	16.79	16.59	

3	QPSK	8	4	18.71	18.78	18.79	19.8
3	QPSK	8	7	18.64	18.73	18.65	
3	QPSK	15	0	18.88	18.87	18.70	
3	16QAM	1	0	19.05	19.10	18.98	19.8
3	16QAM	1	8	18.99	19.08	18.93	
3	16QAM	1	14	18.86	18.99	18.98	
3	16QAM	8	0	17.82	17.78	17.87	18.8
3	16QAM	8	4	17.87	17.92	17.80	
3	16QAM	8	7	17.67	17.60	17.82	
3	16QAM	15	0	17.82	17.65	17.66	18.8
3	64QAM	1	0	17.92	18.06	17.92	
3	64QAM	1	8	17.82	17.93	17.72	
3	64QAM	1	14	17.77	17.97	17.72	17.8
3	64QAM	8	0	16.68	16.99	16.80	
3	64QAM	8	4	16.63	16.90	16.65	
3	64QAM	8	7	16.66	16.75	16.67	17.8
3	64QAM	15	0	16.64	16.64	16.65	
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	19.84	19.89	19.81	20.8
1.4	QPSK	1	3	19.87	19.82	19.67	
1.4	QPSK	1	5	19.71	19.77	19.62	
1.4	QPSK	3	0	18.86	18.86	18.89	
1.4	QPSK	3	1	18.81	18.85	18.81	
1.4	QPSK	3	3	18.79	18.77	18.80	
1.4	QPSK	6	0	18.77	18.70	18.65	19.8
1.4	16QAM	1	0	19.00	19.08	19.02	
1.4	16QAM	1	3	19.06	19.07	19.01	
1.4	16QAM	1	5	19.00	18.93	19.05	19.8
1.4	16QAM	3	0	17.78	17.89	17.84	
1.4	16QAM	3	1	17.76	17.92	17.96	
1.4	16QAM	3	3	17.79	17.86	17.81	
1.4	16QAM	6	0	17.84	17.83	17.67	
1.4	64QAM	1	0	17.72	17.89	17.77	
1.4	64QAM	1	3	17.84	17.86	17.72	
1.4	64QAM	1	5	17.72	17.89	17.84	
1.4	64QAM	3	0	16.82	16.86	16.74	
1.4	64QAM	3	1	16.80	16.90	16.54	
1.4	64QAM	3	3	16.55	16.82	16.59	
1.4	64QAM	6	0	16.59	16.64	16.77	17.8

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	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	21.85	21.97	21.93	22.8
20	QPSK	1	49	21.79	21.91	21.86	
20	QPSK	1	99	21.68	21.89	21.74	
20	QPSK	50	0	20.83	20.92	20.87	21.8
20	QPSK	50	24	20.83	20.91	20.82	
20	QPSK	50	50	20.85	20.75	20.77	
20	QPSK	100	0	20.75	20.82	20.83	21.8
20	16QAM	1	0	20.98	21.07	21.06	
20	16QAM	1	49	21.02	20.95	20.89	
20	16QAM	1	99	20.87	20.96	21.03	20.8
20	16QAM	50	0	19.88	19.95	19.90	
20	16QAM	50	24	19.70	19.87	19.95	
20	16QAM	50	50	19.71	19.77	19.73	20.8
20	16QAM	100	0	19.70	19.73	19.75	
20	64QAM	1	0	19.81	19.92	19.85	
20	64QAM	1	49	19.75	19.89	19.92	20.8
20	64QAM	1	99	19.67	19.88	19.82	
20	64QAM	50	0	18.72	18.86	18.82	
20	64QAM	50	24	18.57	18.78	18.69	19.8
20	64QAM	50	50	18.71	18.82	18.59	
20	64QAM	100	0	18.59	18.82	18.84	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	21.81	21.94	21.90	22.8
15	QPSK	1	37	21.72	21.83	21.68	
15	QPSK	1	74	21.71	21.66	21.63	
15	QPSK	36	0	20.78	20.96	20.87	21.8
15	QPSK	36	20	20.80	20.78	20.70	
15	QPSK	36	39	20.70	20.86	20.73	
15	QPSK	75	0	20.74	20.73	20.75	21.8
15	16QAM	1	0	21.01	21.09	21.05	
15	16QAM	1	37	21.03	21.00	20.91	
15	16QAM	1	74	20.97	20.96	21.06	20.8
15	16QAM	36	0	19.83	19.93	19.95	
15	16QAM	36	20	19.78	19.88	19.78	
15	16QAM	36	39	19.73	19.81	19.85	20.8
15	16QAM	75	0	19.66	19.78	19.82	
15	64QAM	1	0	19.84	19.97	19.90	
15	64QAM	1	37	19.67	19.91	19.80	20.8
15	64QAM	1	74	19.73	19.84	19.82	
15	64QAM	36	0	18.84	18.90	18.85	
15	64QAM	36	20	18.63	18.67	18.57	19.8
15	64QAM	36	39	18.72	18.61	18.74	
15	64QAM	75	0	18.68	18.79	18.59	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	21.84	21.90	21.86	22.8
10	QPSK	1	25	21.83	21.86	21.72	
10	QPSK	1	49	21.73	21.85	21.61	
10	QPSK	25	0	20.79	20.93	20.90	21.8
10	QPSK	25	12	20.86	20.83	20.71	
10	QPSK	25	25	20.63	20.72	20.80	
10	QPSK	50	0	20.75	20.77	20.83	21.8
10	16QAM	1	0	21.02	21.10	21.09	
10	16QAM	1	25	20.92	21.03	20.96	
10	16QAM	1	49	20.94	21.04	21.07	20.8
10	16QAM	25	0	19.78	19.96	19.92	
10	16QAM	25	12	19.71	19.88	19.95	
10	16QAM	25	25	20.69	19.66	19.71	20.8
10	16QAM	50	0	19.84	19.70	19.80	
10	64QAM	1	0	19.79	19.87	19.89	
10	64QAM	1	25	19.87	19.90	19.79	20.8
10	64QAM	1	49	19.71	19.97	19.69	
10	64QAM	25	0	18.79	18.87	18.84	
10	64QAM	25	12	18.72	18.79	18.63	19.8
10	64QAM	25	25	18.62	18.68	18.81	
10	64QAM	50	0	18.66	18.73	18.76	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	21.79	21.91	21.85	22.8
5	QPSK	1	12	21.73	21.90	21.75	
5	QPSK	1	24	21.79	21.80	21.63	
5	QPSK	12	0	20.90	20.94	20.90	21.8
5	QPSK	12	7	20.84	20.93	20.69	
5	QPSK	12	13	20.72	20.74	20.71	
5	QPSK	25	0	20.83	20.88	20.66	21.8
5	16QAM	1	0	21.08	21.10	21.07	
5	16QAM	1	12	20.96	21.03	21.02	
5	16QAM	1	24	21.03	21.05	20.96	20.8
5	16QAM	12	0	19.85	19.81	19.79	
5	16QAM	12	7	19.82	19.91	19.71	
5	16QAM	12	13	19.75	19.74	19.65	20.8
5	16QAM	25	0	19.66	19.88	19.63	
5	64QAM	1	0	19.96	19.91	19.86	
5	64QAM	1	12	19.92	19.84	19.80	20.8
5	64QAM	1	24	19.79	19.79	19.73	
5	64QAM	12	0	18.61	18.84	18.77	
5	64QAM	12	7	18.78	18.67	18.56	19.8
5	64QAM	12	13	18.64	18.70	18.57	
5	64QAM	25	0	18.59	18.80	18.80	
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	21.83	21.92	21.87	22.8
3	QPSK	1	8	21.86	21.85	21.81	
3	QPSK	1	14	21.76	21.66	21.64	
3	QPSK	8	0	20.90	20.92	20.77	21.8
3	QPSK	8	4	20.71	20.78	20.79	
3	QPSK	8	7	20.64	20.73	20.65	

3	QPSK	15	0	20.88	20.87	20.70	
3	16QAM	1	0	21.05	21.10	20.98	21.8
3	16QAM	1	8	20.99	21.08	20.93	
3	16QAM	1	14	20.86	20.99	20.98	20.8
3	16QAM	8	0	19.82	19.78	19.87	
3	16QAM	8	4	19.87	19.92	19.80	
3	16QAM	8	7	19.67	19.60	19.82	
3	16QAM	15	0	19.82	19.65	19.66	20.8
3	64QAM	1	0	19.92	20.06	19.92	
3	64QAM	1	8	19.82	19.93	19.72	19.8
3	64QAM	1	14	19.77	19.97	19.72	
3	64QAM	8	0	18.68	18.99	18.80	19.8
3	64QAM	8	4	18.63	18.90	18.65	
3	64QAM	8	7	18.66	18.75	18.67	
3	64QAM	15	0	18.64	18.64	18.65	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	21.84	21.89	21.81	22.8
1.4	QPSK	1	3	21.87	21.82	21.67	
1.4	QPSK	1	5	21.71	21.77	21.62	
1.4	QPSK	3	0	20.86	20.86	20.89	
1.4	QPSK	3	1	20.81	20.85	20.81	
1.4	QPSK	3	3	20.79	20.77	20.80	
1.4	QPSK	6	0	20.77	20.70	20.65	21.8
1.4	16QAM	1	0	21.00	21.08	21.02	21.8
1.4	16QAM	1	3	21.06	21.07	21.01	
1.4	16QAM	1	5	21.00	20.93	21.05	
1.4	16QAM	3	0	19.78	19.89	19.84	
1.4	16QAM	3	1	19.76	19.92	19.96	
1.4	16QAM	3	3	19.79	19.86	19.81	
1.4	16QAM	6	0	19.84	19.83	19.67	20.8
1.4	64QAM	1	0	19.72	19.89	19.77	20.8
1.4	64QAM	1	3	19.84	19.86	19.72	
1.4	64QAM	1	5	19.72	19.89	19.84	
1.4	64QAM	3	0	18.82	18.86	18.74	
1.4	64QAM	3	1	18.60	18.90	18.54	
1.4	64QAM	3	3	18.55	18.82	18.59	
1.4	64QAM	6	0	18.59	18.64	18.77	19.8

Band 48 (3.5G Band) (dBm)											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Middle-Low Channel	Middle-Low Channel	Middle-High Channel	High Channel	Tune-up limit (dBm)		
Channel				55340	55830	55990	56150	56640			
Frequency (MHz)				3560	3609	3625	3641	3690			
20	QPSK	1	0	20.11	20.06	19.96	19.95	20.21	20.8		
20	QPSK	1	49	20.07	19.96	19.80	19.86	20.15			
20	QPSK	1	99	20.00	19.94	19.90	19.79	20.02			
20	QPSK	50	0	19.08	18.92	19.02	18.88	19.17			
20	QPSK	50	24	19.06	18.97	18.77	18.81	19.17	19.8		
20	QPSK	50	50	18.98	18.90	18.87	18.77	19.14			
20	QPSK	100	0	19.06	18.86	18.91	18.89	19.26			
20	16QAM	1	0	19.29	19.19	19.17	19.03	19.31			
20	16QAM	1	49	19.28	19.13	19.12	19.09	19.30	19.8		
20	16QAM	1	99	19.21	18.97	19.09	19.12	19.27			
20	16QAM	50	0	17.96	17.80	18.04	17.98	18.15			
20	16QAM	50	24	17.98	17.89	17.94	17.89	18.11			
20	16QAM	50	50	17.92	17.87	17.78	17.89	18.07	18.8		
20	16QAM	100	0	18.05	17.85	17.77	17.75	18.09			
20	64QAM	1	0	17.99	17.96	17.86	17.93	18.18			
20	64QAM	1	49	18.04	17.81	17.88	17.92	18.08			
20	64QAM	1	99	18.07	17.85	17.85	17.88	18.15	18.8		
20	64QAM	50	0	16.99	16.83	16.88	16.85	17.05			
20	64QAM	50	24	16.99	16.79	16.79	16.75	17.01			
20	64QAM	50	50	16.90	16.76	16.80	16.72	17.03			
20	64QAM	100	0	16.79	16.73	16.83	16.81	17.00	17.8		
Channel				55315	55820	55990	56160	56665			
Frequency (MHz)				3557.5	3608	3625	3642	3692.5			
15	QPSK	1	0	20.01	19.93	19.81	19.88	20.18		20.8	
15	QPSK	1	37	20.02	19.98	19.75	19.76	20.15			
15	QPSK	1	74	19.90	19.86	19.76	19.75	20.02			
15	QPSK	36	0	19.11	19.04	19.07	18.87	19.14			
15	QPSK	36	20	19.05	18.94	18.87	18.79	19.13	19.8		
15	QPSK	36	39	18.91	18.82	18.80	18.75	19.07			
15	QPSK	75	0	19.02	18.83	18.93	18.80	19.17			
15	16QAM	1	0	19.15	19.09	19.05	19.14	19.22			
15	16QAM	1	37	19.09	19.04	19.04	18.98	19.16	19.8		
15	16QAM	1	74	19.10	19.03	19.05	19.06	19.09			
15	16QAM	36	0	18.06	18.00	17.80	17.91	18.16			
15	16QAM	36	20	17.96	17.96	17.94	17.80	18.19			
15	16QAM	36	39	17.81	17.89	17.81	17.82	17.97	18.8		
15	16QAM	75	0	18.03	17.91	17.80	17.90	18.05			
15	64QAM	1	0	17.95	17.91	18.10	17.88	18.17			
15	64QAM	1	37	18.04	17.89	17.84	17.79	18.16			
15	64QAM	1	74	18.08	17.84	17.79	17.81	18.14	18.8		
15	64QAM	36	0	16.93	16.90	16.86	16.82	17.00			
15	64QAM	36	20	16.89	16.76	16.95	16.74	17.03			
15	64QAM	36	39	16.95	16.70	16.88	16.76	16.90			
15	64QAM	75	0	16.88	16.75	16.81	16.80	16.92	17.8		
Channel				55290	55815	55990	56165	56690			
Frequency (MHz)				3555	3607.5	3625	3642.5	3695			
10	QPSK	1	0	19.97	20.03	20.00	19.92	20.17		20.8	
10	QPSK	1	25	19.92	19.98	19.74	19.83	20.05			
10	QPSK	1	49	19.89	19.82	19.79	19.81	20.02			
10	QPSK	25	0	19.05	19.09	18.95	18.82	19.12			
10	QPSK	25	12	19.03	18.77	18.82	18.81	19.11	19.8		
10	QPSK	25	25	18.93	18.94	18.79	18.76	19.01			
10	QPSK	50	0	18.91	18.86	18.87	18.84	19.09			
10	16QAM	1	0	19.21	19.19	19.17	19.08	19.29			
10	16QAM	1	25	19.14	19.05	19.16	19.07	19.25	19.8		
10	16QAM	1	49	19.10	18.94	19.11	19.03	19.17			
10	16QAM	25	0	18.04	17.78	17.83	17.99	18.11			
10	16QAM	25	12	18.03	17.74	17.73	17.93	18.12			
10	16QAM	25	25	17.82	17.76	17.79	17.76	18.01	18.8		
10	16QAM	50	0	18.03	17.83	17.76	17.90	18.05			
10	64QAM	1	0	18.10	17.94	18.01	17.92	18.08			
10	64QAM	1	25	18.09	17.80	17.91	17.98	18.06			
10	64QAM	1	49	18.03	17.70	17.82	17.87	18.02	18.8		
10	64QAM	25	0	17.02	16.78	16.89	16.70	17.06			
10	64QAM	25	12	16.89	16.72	16.91	16.76	16.93			
10	64QAM	25	25	16.74	16.75	16.85	16.84	17.07			
10	64QAM	50	0	16.78	16.79	16.91	16.86	16.84	17.8		
Channel				55265	55810	55990	56170	56175			
Frequency (MHz)				3552.5	3607	3625	3643	3697.5			
5	QPSK	1	0	20.05	19.90	20.02	19.94	20.15		20.8	
5	QPSK	1	12	20.04	19.96	19.75	19.72	20.13			
5	QPSK	1	24	20.00	19.88	19.77	19.78	20.09			
5	QPSK	12	0	19.05	19.02	18.92	18.79	19.12			
5	QPSK	12	7	19.01	18.98	18.94	18.80	19.11	19.8		
5	QPSK	12	13	18.85	18.90	18.79	18.84	19.08			
5	QPSK	25	0	19.04	18.86	18.80	18.85	19.06			
5	16QAM	1	0	19.16	19.13	19.08	19.06	19.17			
5	16QAM	1	12	19.14	19.11	19.08	19.08	19.09	19.8		
5	16QAM	1	24	19.05	19.06	19.01	19.02	19.12			
5	16QAM	12	0	18.04	17.79	17.94	17.91	18.06			
5	16QAM	12	7	17.92	17.96	17.73	17.99	18.05			
5	16QAM	12	13	17.96	17.77	17.71	17.80	18.02	18.8		
5	16QAM	25	0	17.91	17.72	17.83	17.85	18.01			
5	64QAM	1	0	18.09	17.98	18.01	17.98	18.19			
5	64QAM	1	12	18.04	17.88	17.96	17.85	18.14			
5	64QAM	1	24	17.98	17.86	17.95	17.79	18.13	18.8		
5	64QAM	12	0	16.93	16.80	16.79	16.86	17.14			
5	64QAM	12	7	16.87	16.85	16.91	16.79	17.05			
5	64QAM	12	13	16.82	16.76	16.80	16.77	16.99			
5	64QAM	25	0	16.98	16.89	16.80	16.81	17.09	17.8		

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	DFT-s-OFDM PI/2 BPSK	1	1	18.87	18.83	18.53	20.00
20		1	53	18.93	18.62	18.57	
20		1	104	18.66	18.54	18.51	
20		50	1	19.08	18.80	18.64	20.00
20		50	25	19.02	18.80	18.63	
20		50	50	18.98	18.77	18.67	
20		100	0	18.98	18.80	18.61	
20	DFT-s-OFDM QPSK	1	1	19.07	19.13	19.02	20.00
20		1	53	18.92	18.72	18.95	
20		1	104	18.76	18.67	18.63	
20		50	1	19.05	19.08	19.07	20.00
20		50	25	19.03	18.69	18.68	
20		50	50	18.95	18.69	18.74	
20		100	0	19.01	18.79	18.63	
20	DFT-s-OFDM 16QAM	1	1	19.11	18.97	18.71	19.50
20	DFT-s-OFDM 64QAM	1	1	17.58	17.50	17.22	18.00
20	DFT-s-OFDM 256QAM	1	1	15.20	15.16	14.90	15.50
20	CP-OFDM QPSK	1	1	18.48	18.39	18.15	19.00
20	CP-OFDM 16QAM	1	1	17.98	17.95	17.68	18.50
20	CP-OFDM 64QAM	1	1	16.64	16.56	16.25	17.00
20	CP-OFDM 256QAM	1	1	13.31	13.23	12.90	13.50
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	19.09	18.83	18.59	19.50
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	19.08	18.81	18.70	19.50
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	19.06	18.63	18.59	19.50

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	Tune-up limit (dBm)
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	18.11	18.17	18.17	19.00
20		1	53	18.03	18.01	18.05	
20		1	104	17.77	17.71	17.79	
20		50	1	18.22	18.21	18.22	19.00
20		50	25	18.12	18.16	18.09	
20		50	50	18.12	18.01	17.99	
20		100	0	18.20	18.12	18.04	
20	DFT-s-OFDM QPSK	1	1	18.27	18.32	18.31	19.00
20		1	53	18.10	18.10	18.18	
20		1	104	17.85	17.74	17.82	
20		50	1	18.21	18.23	18.14	19.00
20		50	25	18.15	18.15	18.06	
20		50	50	18.00	18.04	17.81	
20		100	0	18.19	18.17	18.01	
20	DFT-s-OFDM 16QAM	1	1	18.22	18.26	18.25	18.00
20	DFT-s-OFDM 64QAM	1	1	16.64	16.83	16.86	16.50
20	DFT-s-OFDM 256QAM	1	1	14.48	14.57	14.50	14.50
20	CP-OFDM QPSK	1	1	17.71	17.81	17.61	17.50
20	CP-OFDM 16QAM	1	1	17.30	17.32	17.27	17.00
20	CP-OFDM 64QAM	1	1	15.77	15.92	15.82	15.50
20	CP-OFDM 256QAM	1	1	12.51	12.61	12.60	12.50
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	18.25	18.29	18.07	18.00
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	18.03	17.85	17.98	17.50
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	18.09	18.02	17.78	17.50

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		
Frequency (MHz)				1720	1745	1770		
20	DFT-s-OFDM PI/2 BPSK	1	1	18.31	18.15	18.07	19	
20		1	53	18.23	18.10	18.01		
20		1	104	18.13	18.16	18.03		
20		DFT-s-OFDM PI/2 BPSK	50	1	18.38	18.21	18.16	19
20			50	25	18.37	18.16	18.11	
20			50	50	18.29	18.17	18.10	
20			100	0	18.33	18.18	18.15	
20	DFT-s-OFDM QPSK	1	1	18.38	18.40	18.36	19	
20		1	53	18.31	18.09	17.99		
20		1	104	18.16	18.14	18.02		
20		DFT-s-OFDM QPSK	50	1	18.30	18.34	18.29	19
20			50	25	18.28	18.24	18.09	
20			50	50	18.26	18.18	18.06	
20	DFT-s-OFDM 16QAM	1	1	18.32	18.24	18.06		
20	DFT-s-OFDM 16QAM	1	1	18.31	18.26	18.16	19.00	
20	DFT-s-OFDM 64QAM	1	1	16.96	16.74	16.67	17.50	
20	DFT-s-OFDM 256QAM	1	1	14.59	14.40	14.31	15.00	
20	CP-OFDM QPSK	1	1	17.97	17.79	17.69	18.50	
20	CP-OFDM 16QAM	1	1	17.51	17.20	17.17	18.00	
20	CP-OFDM 64QAM	1	1	16.06	15.85	15.78	16.50	
20	CP-OFDM 256QAM	1	1	12.59	12.42	12.29	13.00	
Channel				343500	349000	354500	Tune-up limit	
Frequency (MHz)				1717.5	1745	1772.5		
15	DFT-s-OFDM QPSK	1	1	18.46	18.34	18.26	19.00	
Channel				343000	349000	355000	Tune-up limit	
Frequency (MHz)				1715	1745	1775		
10	DFT-s-OFDM QPSK	1	1	18.28	18.15	18.07	19.00	
Channel				342500	349000	355500	Tune-up limit	
Frequency (MHz)				1712.5	1745	1777.5		
5	DFT-s-OFDM QPSK	1	1	18.33	18.19	18.23	19.00	

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			17.82			18.5
100		1	136			17.17			
100		1	271			16.95			
100		135	1			17.22			18.5
100		135	67			17.51			
100		135	136			16.49			
100		270	0			16.95			
100	DFT-s-OFDM QPSK	1	1			17.93			18.5
100		1	136			17.45			
100		1	271			16.89			
100		135	1			17.51			18
100		135	67			17.49			
100		135	136			16.96			
100		270	0			17.42			
100	DFT-s-OFDM 16QAM	1	1			16.83			17.50
100	DFT-s-OFDM 64QAM	1	1			15.47			16.00
100	DFT-s-OFDM 256QAM	1	1			13.28			14.00
100	CP-OFDM QPSK	1	1			16.42			17.00
100	CP-OFDM 16QAM	1	1			15.91			16.50
100	CP-OFDM 64QAM	1	1			14.03			15.00
100	CP-OFDM 256QAM	1	1			11.29			12.00
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	17.83	17.84	17.82	17.68	17.59	18.50
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	17.03	17.85	17.62	17.48	17.54	18.50
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	17.89	17.83	17.86	17.82	17.69	18.50
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	17.84	17.85	17.80	17.81	17.45	18.50
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	17.81	17.84	17.75	17.59	17.19	18.50

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	18.00
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	14.58	16.18	16.30	16.19	15.25	18.00
100		1	136	16.27	16.41	16.18	15.21	16.15	
100		1	271	16.07	16.09	15.18	15.06	14.95	
100		135	1	15.52	16.05	15.80	15.04	15.26	18.00
100		135	67	16.37	16.42	16.20	15.23	14.21	
100		135	136	15.52	15.76	14.88	14.00	13.59	
100		270	0	15.51	15.99	15.67	14.76	15.18	
100	DFT-s-OFDM QPSK	1	1	17.02	17.15	17.17	17.07	17.12	18.00
100		1	136	16.63	16.39	16.21	15.22	14.02	
100		1	271	16.08	16.05	15.20	14.04	13.91	
100		135	1	16.04	16.13	16.37	16.25	16.29	17.00
100		135	67	15.75	15.18	16.16	15.25	14.19	
100		135	136	15.04	15.25	14.38	13.53	13.72	
100		270	0	15.94	15.51	15.19	14.26	13.84	
100	DFT-s-OFDM 16QAM	1	1	15.43	16.06	14.93	15.08	14.16	16.00
100	DFT-s-OFDM 64QAM	1	1	15.30	14.81	13.84	13.90	12.85	14.50
100	DFT-s-OFDM 256QAM	1	1	9.87	12.44	11.65	11.51	10.55	12.50
100	CP-OFDM QPSK	1	1	13.07	15.65	14.82	14.71	13.75	15.50
100	CP-OFDM 16QAM	1	1	12.57	12.72	14.39	14.24	13.27	15.00
100	CP-OFDM 64QAM	1	1	10.67	13.34	12.39	12.35	11.35	13.00
100	CP-OFDM 256QAM	1	1	8.89	10.50	9.56	9.54	8.58	10.50
Channel				649334	652668	656000	659332	662666	17.50
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	
80	DFT-s-OFDM QPSK	1	1	14.55	17.02	16.41	15.84	14.72	17.50
Channel				648668	652334	656000	659666	663332	17.50
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	
60	DFT-s-OFDM QPSK	1	1	14.59	16.84	16.36	15.35	14.07	17.50
Channel				648000	652000	656000	660000	664000	17.50
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	15.00	17.00	16.57	15.63	13.44	17.50
Channel				647668	651834	656000	660166	664332	17.50
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	
30	DFT-s-OFDM QPSK	1	1	14.92	16.79	16.45	15.29	13.48	17.50
Channel				647334	651668	656000	660332	664666	17.50
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	
20	DFT-s-OFDM QPSK	1	1	14.84	16.75	16.49	15.14	13.86	17.50

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			17.99			19.00
100		1	136			16.84			
100		1	271			16.15			
100		135	1			16.85			18.00
100		135	67			17.05			
100		135	136			15.74			
100		270	0			16.45			
100	DFT-s-OFDM QPSK	1	1			18.02			19.00
100		1	136			16.89			
100		1	271			16.12			
100		135	1			17.03			18.00
100		135	67			16.88			
100		135	136			16.28			
100		270	0			16.93			
100	DFT-s-OFDM 16QAM	1	1			16.82			17.50
100	DFT-s-OFDM 64QAM	1	1			15.50			16.50
100	DFT-s-OFDM 256QAM	1	1			13.37			14.00
100	CP-OFDM QPSK	1	1			16.29			17.00
100	CP-OFDM 16QAM	1	1			15.83			16.50
100	CP-OFDM 64QAM	1	1			14.19			15.00
100	CP-OFDM 256QAM	1	1			11.30			12.00
Channel				633000	633166	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.49	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	17.98	17.94	17.81	17.70	17.66	19.50
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3450	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	17.98	17.90	17.75	17.62	17.38	18.50
Channel				632334	632634	633334	633832	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3492.51	3500.01	3507.48	3514.98	
70	DFT-s-OFDM QPSK	1	1	17.99	17.85	17.63	17.37	17.15	18.50
Channel				632000	632666	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3489.99	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	17.94	17.73	17.48	17.16	17.12	18.00
Channel				631668	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	17.93	17.64	17.26	17.08	16.99	18.00
Channel				631334	636672	633334	634334	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3515.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	17.99	17.10	17.43	17.30	17.04	18.00
Channel				631000	632166	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.49	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	17.96	17.68	17.32	17.09	16.63	18.00
Channel				630668	632000	633334	634668	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3520.02	3540	
20	DFT-s-OFDM QPSK	1	1	17.90	17.59	17.30	16.89	16.40	18.00

n78(3700-3800MHz) (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			18.00
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			16.01			18.00
100		1	136			17.21			
100		1	271			17.10			
100		135	1			16.60			18.00
100		135	67			17.18			
100		135	136			16.38			
100		270	0			16.50			
100	DFT-s-OFDM QPSK	1	1			17.23			18.00
100		1	136			16.39			
100		1	271			16.59			
100		135	1			17.11			18.00
100		135	67			16.99			
100		135	136			16.87			
100		270	0			16.91			
100	DFT-s-OFDM 16QAM	1	1			14.88			15.50
100	DFT-s-OFDM 64QAM	1	1			13.57			14.50
100	DFT-s-OFDM 256QAM	1	1			11.28			12.00
100	CP-OFDM QPSK	1	1			14.48			15.00
100	CP-OFDM 16QAM	1	1			14.12			15.00
100	CP-OFDM 64QAM	1	1			12.19			13.00
100	CP-OFDM 256QAM	1	1			9.31			10.00
Channel				649668	649834	650000	650166	650332	17.00
Frequency (MHz)				3745.02	3747.51	3750	3752.49	3754.98	
90	DFT-s-OFDM QPSK	1	1	15.97	16.01	16.15	16.23	16.42	17.00
Channel				649334	649666	650000	650334	650666	17.50
Frequency (MHz)				3740.01	3744.99	3750	3755.01	3759.99	
80	DFT-s-OFDM QPSK	1	1	16.02	16.24	16.45	16.64	16.93	17.50
Channel				649000	649500	650000	650500	651000	18.00
Frequency (MHz)				3735	3742.5	3750	3757.5	3765	
70	DFT-s-OFDM QPSK	1	1	16.03	16.36	16.68	17.05	17.18	18.00
Channel				648668	649334	650000	650666	651332	18.00
Frequency (MHz)				3730.02	3740.01	3750	3759.99	3769.98	
60	DFT-s-OFDM QPSK	1	1	15.92	16.39	16.93	17.12	17.08	18.00
Channel				648334	649166	650000	650834	651666	18.00
Frequency (MHz)				3725.01	3737.49	3750	3762.51	3774.99	
50	DFT-s-OFDM QPSK	1	1	16.09	16.65	17.17	17.16	17.18	18.00
Channel				648000	649000	650000	651000	652000	18.00
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	16.30	17.07	17.13	17.13	17.39	18.00
Channel				647668	648834	650000	651166	652332	18.00
Frequency (MHz)				3715.02	3732.51	3750	3767.49	3784.98	
30	DFT-s-OFDM QPSK	1	1	16.18	17.06	17.17	17.09	17.01	18.00
Channel				647334	648666	650000	651334	652666	18.00
Frequency (MHz)				3710.01	3729.99	3750	3770.01	3789.99	
20	DFT-s-OFDM QPSK	1	1	16.16	17.10	17.16	17.16	17.04	18.00

CA_5B											
Combination:10MHz+10MHz(50RB+50RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	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	20549	QPSK	1	0	0	0	1	0	19.33	20.30
20625	20476	20575	QPSK	1	0	0	0	1	0	19.36	20.30
20600	20501	20600	QPSK	1	0	0	0	1	0	19.25	20.30
20450	20450	20549	16QAM	1	0	0	0	1	0	18.58	19.30
20525	20476	20575	16QAM	1	0	0	0	1	0	18.53	19.30
20600	20501	20600	16QAM	1	0	0	0	1	0	18.51	19.30
20450	20450	20549	64QAM	1	0	0	0	1	0	17.48	18.30
20525	20476	20575	64QAM	1	0	0	0	1	0	17.53	18.30
20600	20501	20600	64QAM	1	0	0	0	1	0	17.50	18.30
20450	20450	20549	256QAM	1	0	0	0	1	0	14.71	15.30
20525	20476	20575	256QAM	1	0	0	0	1	0	14.75	15.30
20600	20501	20600	256QAM	1	0	0	0	1	0	14.69	15.30
20450	20450	20549	QPSK	25	0	0	0	1	0	18.35	19.30
20525	20476	20575	QPSK	25	0	0	0	1	0	18.36	19.30
20600	20501	20600	QPSK	25	0	0	0	1	0	18.31	19.30

CA_48C											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	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	55538	QPSK	1	0	0	0	1	0	19.80	20.80
55990	55891	56089	QPSK	1	0	0	0	1	0	19.65	20.80
56640	56442	56640	QPSK	1	0	0	0	1	0	19.88	20.80
55340	55340	55538	16QAM	1	0	0	0	1	0	19.13	19.80
55990	55891	56089	16QAM	1	0	0	0	1	0	19.02	19.80
56640	56442	56640	16QAM	1	0	0	0	1	0	19.28	19.80
55340	55340	55538	64QAM	1	0	0	0	1	0	18.25	18.80
55990	55891	56089	64QAM	1	0	0	0	1	0	18.15	18.80
56640	56442	56640	64QAM	1	0	0	0	1	0	18.21	18.80
55340	55340	55538	256QAM	1	0	0	0	1	0	15.18	15.80
55990	55891	56089	256QAM	1	0	0	0	1	0	15.05	15.80
56640	56442	56640	256QAM	1	0	0	0	1	0	15.15	15.80
55340	55340	55538	QPSK	50	0	0	0	1	0	18.76	19.80
55990	55891	56089	QPSK	50	0	0	0	1	0	18.65	19.80
56640	56442	56640	QPSK	50	0	0	0	1	0	18.70	19.80

CA_66B											
Combination:10MHz+10MHz(50RB+50RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	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	132121	QPSK	1	0	0	0	1	0	19.68	20.80
132322	132373	132472	QPSK	1	0	0	0	1	0	19.75	20.80
132572	132523	132622	QPSK	1	0	0	0	1	0	19.71	20.80
132072	132022	132121	16QAM	1	0	0	0	1	0	18.89	19.80
132322	132373	132472	16QAM	1	0	0	0	1	0	19.12	19.80
132572	132523	132622	16QAM	1	0	0	0	1	0	19.14	19.80
132072	132022	132121	64QAM	1	0	0	0	1	0	17.92	18.80
132322	132373	132472	64QAM	1	0	0	0	1	0	17.94	18.80
132572	132523	132622	64QAM	1	0	0	0	1	0	18.12	18.80
132072	132022	132121	256QAM	1	0	0	0	1	0	14.79	15.80
132322	132373	132472	256QAM	1	0	0	0	1	0	15.01	15.80
132572	132523	132622	256QAM	1	0	0	0	1	0	14.95	15.80
132072	132022	132121	QPSK	25	0	0	0	1	0	18.71	19.80
132322	132373	132472	QPSK	25	0	0	0	1	0	18.88	19.80
132572	132523	132622	QPSK	25	0	0	0	1	0	18.84	19.80

CA_66C											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	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	132270	QPSK	1	0	0	0	1	0	19.66	20.80
132322	132323	132521	QPSK	1	0	0	0	1	0	19.74	20.80
132572	132374	132572	QPSK	1	0	0	0	1	0	19.70	20.80
132072	132072	132270	16QAM	1	0	0	0	1	0	19.00	19.80
132322	132323	132521	16QAM	1	0	0	0	1	0	18.95	19.80
132572	132374	132572	16QAM	1	0	0	0	1	0	18.96	19.80
132072	132072	132270	64QAM	1	0	0	0	1	0	17.77	18.80
132322	132323	132521	64QAM	1	0	0	0	1	0	17.94	18.80
132572	132374	132572	64QAM	1	0	0	0	1	0	17.88	18.80
132072	132072	132270	256QAM	1	0	0	0	1	0	14.53	15.80
132322	132323	132521	256QAM	1	0	0	0	1	0	14.86	15.80
132572	132374	132572	256QAM	1	0	0	0	1	0	14.79	15.80
132072	132072	132270	QPSK	50	0	0	0	1	0	18.73	19.80
132322	132323	132521	QPSK	50	0	0	0	1	0	18.83	19.80
132572	132374	132572	QPSK	50	0	0	0	1	0	18.86	19.80

2.4GHz WLAN ANT 8

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11b 1Mbps	CH 1	2412	17.25	18.00	16.50	98.77
	CH 6	2437	16.65	17.50		
	CH 11	2462	17.31	18.00		
802.11g 6Mbps	CH 1	2412	15.51	16.50	15.50	98.26
	CH 6	2437	15.30	16.50		
	CH 11	2462	15.55	16.50		
802.11n-HT20 MCS0	CH 1	2412	15.42	16.50	15.50	98.13
	CH 6	2437	15.08	16.00		
	CH 11	2462	15.48	16.50		
802.11n-HT40 MCS0	CH 3	2422	15.83	16.50	15.50	94.90
	CH 6	2437	15.79	16.50		
	CH 9	2452	16.25	17.00		

5GHz WLAN ANT 8

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 36	5180	15.61	16.50	16.00	98.26
	CH 44	5220	15.64	16.50		
	CH 48	5240	15.44	16.50		
802.11n-HT20 MCS0	CH 36	5180	14.94	16.00	15.50	98.13
	CH 44	5220	15.04	16.00		
	CH 48	5240	14.76	15.50		
802.11n-HT40 MCS0	CH 38	5190	15.56	16.50	15.50	96.47
	CH 46	5230	15.44	16.50		
802.11ac-VHT20 MCS0	CH 36	5180	14.90	16.00	15.50	98.13
	CH 44	5220	15.06	16.00		
	CH 48	5240	14.78	15.50		
802.11ac-VHT40 MCS0	CH 38	5190	15.57	16.50	15.50	96.30
	CH 46	5230	15.44	16.50		
802.11ac-VHT80 MCS0	CH 42	5210	15.86	16.50	15.50	93.09

5GHz WLAN ANT 8

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 149	5745	13.66	14.50	13.00	98.26
	CH 157	5785	13.59	14.50		
	CH 165	5825	13.72	14.50		
802.11n-HT20 MCS0	CH 149	5745	12.96	14.00	12.50	98.13
	CH 157	5785	12.94	14.00		
	CH 165	5825	13.03	14.00		
802.11n-HT40 MCS0	CH 151	5755	13.80	14.50	12.50	96.47
	CH 159	5795	13.53	14.50		
802.11ac-VHT20 MCS0	CH 149	5745	13.00	14.00	12.50	98.13
	CH 157	5785	12.92	14.00		
	CH 165	5825	13.04	14.00		
802.11ac-VHT40 MCS0	CH 151	5755	13.81	14.50	12.50	96.30
	CH 159	5795	13.53	14.50		
802.11ac-VHT80 MCS0	CH 155	5775	13.56	14.50	12.50	92.68