



REPORT No.: SZ23040391S01

Annex E Conducted Power

Note:

Conducted power unit: dBm

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

Full Power for ANT 1 & ANT 3 & ANT 4 & ANT 7 & ANT8 & ANT9 & ANT 10

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	128	189	251		128	189	251		
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8		
Frequency (MHz)	31.70	31.71	31.63	32.70	22.70	22.71	22.63	23.70	0.15
GSM 1 Tx slot	31.74	31.78	31.68	32.70	22.74	22.78	22.68	23.70	
GPRS 2 Tx slots	29.41	29.43	29.35	30.00	23.41	23.43	23.35	24.00	0.08
GPRS 3 Tx slots	27.39	27.42	27.33	28.20	23.13	23.16	23.07	23.94	0.09
GPRS 4 Tx slots	26.02	26.05	25.97	27.00	23.02	23.05	22.97	24.00	0.08
EDGE 1 Tx slot	26.80	26.83	26.69	27.00	17.80	17.83	17.69	18.00	0.14
EDGE 2 Tx slots	24.44	24.48	24.31	25.00	18.44	18.48	18.31	19.00	0.17
EDGE 3 Tx slots	22.47	22.50	22.38	23.00	18.21	18.24	18.12	18.74	0.12
EDGE 4 Tx slots	20.71	20.73	20.66	21.50	17.71	17.73	17.66	18.50	0.07
Mode		Max.	31.78			Max.	23.43		
Attenuator	Cable Loss : 0.6								

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	512	661	810		512	661	810		
TX Channel	1850.2	1880	1909.8		1850.2	1880	1909.8		
Frequency (MHz)	29.43	29.22	29.41	30.50	20.43	20.22	20.41	21.50	0.23
GSM 1 Tx slot	29.39	29.20	29.40	30.50	20.39	20.20	20.40	21.50	
GPRS 2 Tx slots	27.81	28.13	28.20	29.00	21.81	22.13	22.20	23.00	0.39
GPRS 3 Tx slots	26.33	26.24	26.35	27.00	22.07	21.98	22.09	22.74	0.11
GPRS 4 Tx slots	25.31	25.16	25.33	26.00	22.31	22.16	22.33	23.00	0.17
EDGE 1 Tx slot	25.35	25.17	25.36	26.00	16.35	16.17	16.36	17.00	0.19
EDGE 2 Tx slots	24.16	24.09	24.23	25.00	18.16	18.09	18.23	19.00	0.14
EDGE 3 Tx slots	22.37	22.43	22.49	23.50	18.11	18.17	18.23	19.24	0.12
EDGE 4 Tx slots	21.41	21.36	21.47	22.50	18.41	18.36	18.47	19.50	0.11
Mode		Max.	29.43			Max.	22.33		
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)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	23.09	23.15	23.10	23.80	23.31	23.35	23.29	23.80	24.52	24.56	24.47	25.30
3GPP Rel 5	HSDPA Subtest-1	22.15	22.08	22.10	23.00	22.21	22.33	22.18	23.00	23.37	23.38	23.35	24.00
3GPP Rel 5	HSDPA Subtest-2	22.17	22.06	22.06	23.00	22.17	22.27	22.26	23.00	23.39	23.47	23.42	24.00
3GPP Rel 5	HSDPA Subtest-3	21.61	21.50	21.60	22.50	21.67	21.79	21.76	22.50	22.94	22.96	22.88	23.50
3GPP Rel 5	HSDPA Subtest-4	21.60	21.60	21.57	22.50	21.69	21.85	21.71	22.50	22.92	22.92	22.73	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	21.52	21.55	21.52	22.50	21.69	21.82	21.78	22.50	23.36	23.35	23.34	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.48	21.46	21.54	22.50	21.58	21.79	21.71	22.50	23.32	23.35	23.33	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.08	20.93	20.94	22.00	21.08	21.17	21.20	22.00	22.84	22.86	22.82	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	20.97	20.95	20.93	22.00	20.99	21.21	21.08	22.00	22.85	22.85	22.84	23.50
3GPP Rel 6	HSUPA Subtest-1	22.12	22.12	22.12	23.00	22.12	22.29	22.26	23.00	23.43	23.41	23.43	24.00
3GPP Rel 6	HSUPA Subtest-2	21.72	21.61	21.58	22.50	21.67	21.78	21.73	22.50	22.91	22.81	22.87	23.50
3GPP Rel 6	HSUPA Subtest-3	22.08	22.06	22.17	23.00	22.12	22.27	22.19	23.00	23.31	23.40	23.42	24.00
3GPP Rel 6	HSUPA Subtest-4	22.12	22.08	22.11	23.00	22.19	22.31	22.25	23.00	23.37	23.38	23.35	24.00
3GPP Rel 6	HSUPA Subtest-5	22.15	22.17	22.00	23.00	22.14	22.29	22.24	23.00	23.36	23.39	23.33	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	21.61	21.58	21.61	22.50	21.68	21.78	21.73	22.50	23.37	23.38	23.32	24.00
Attenuator		Cable Loss		0.8		Cable Loss		0.8		Cable Loss		0.6	
Mode		Max.		23.15		Max.		23.35		Max.		24.56	

Band 2 (1900MHz Band) (dBm)							
Part 24F							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	23.8
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	22.85	22.89	22.82	23.8
20	QPSK	1	49	22.86	22.80	22.66	
20	QPSK	1	99	22.71	22.76	22.75	
20	QPSK	50	0	21.74	21.84	21.76	
20	QPSK	50	24	21.71	21.69	21.75	22.8
20	QPSK	50	50	21.64	21.64	21.65	
20	QPSK	100	0	21.67	21.69	21.64	
20	16QAM	1	0	21.87	22.03	21.92	
20	16QAM	1	49	22.00	22.01	21.80	22.8
20	16QAM	1	99	21.89	21.98	21.96	
20	16QAM	50	0	20.78	20.82	20.65	
20	16QAM	50	24	20.62	20.77	20.66	
20	16QAM	50	50	20.70	20.67	20.79	21.8
20	16QAM	100	0	20.54	20.68	20.72	
20	64QAM	1	0	20.72	20.97	20.89	
20	64QAM	1	49	20.69	20.62	20.86	
20	64QAM	1	99	20.81	20.82	20.90	21.8
20	64QAM	50	0	19.78	19.85	19.77	
20	64QAM	50	24	19.66	19.72	19.60	
20	64QAM	50	50	19.75	19.62	19.65	
20	64QAM	100	0	19.69	19.81	19.76	20.8
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	Tune-up limit (dBm)
15	QPSK	1	0	22.78	22.86	22.80	23.8
15	QPSK	1	37	22.74	22.85	22.71	
15	QPSK	1	74	22.61	22.80	22.70	
15	QPSK	36	0	21.72	21.95	21.84	
15	QPSK	36	20	21.72	21.68	21.65	22.8
15	QPSK	36	39	21.64	21.63	21.63	
15	QPSK	75	0	21.55	21.74	21.82	
15	16QAM	1	0	22.02	22.03	21.97	
15	16QAM	1	37	21.95	22.00	21.92	22.8
15	16QAM	1	74	21.77	21.95	21.81	
15	16QAM	36	0	20.90	20.92	20.77	
15	16QAM	36	20	20.83	20.71	20.63	
15	16QAM	36	39	20.69	20.77	20.82	21.8
15	16QAM	75	0	20.59	20.71	20.71	
15	64QAM	1	0	20.80	20.87	20.86	
15	64QAM	1	37	20.66	20.82	20.97	
15	64QAM	1	74	20.78	20.74	20.86	21.8
15	64QAM	36	0	19.76	19.90	19.67	
15	64QAM	36	20	19.57	19.88	19.67	
15	64QAM	36	39	19.71	19.60	19.65	
15	64QAM	75	0	19.54	19.64	19.66	20.8
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	Tune-up limit (dBm)
10	QPSK	1	0	22.75	22.84	22.81	23.8
10	QPSK	1	25	22.82	22.74	22.64	
10	QPSK	1	49	22.75	22.75	22.60	
10	QPSK	25	0	21.76	21.85	21.79	
10	QPSK	25	12	21.72	21.79	21.78	22.8
10	QPSK	25	25	21.67	21.67	21.73	
10	QPSK	50	0	21.75	21.65	21.68	
10	16QAM	1	0	21.92	21.98	21.96	
10	16QAM	1	25	21.91	21.96	21.95	22.8
10	16QAM	1	49	21.73	21.86	21.94	
10	16QAM	25	0	20.77	20.91	20.69	
10	16QAM	25	12	20.78	20.70	20.77	
10	16QAM	25	25	20.55	20.73	20.79	21.8
10	16QAM	50	0	20.63	20.77	20.67	
10	64QAM	1	0	20.71	20.95	20.77	
10	64QAM	1	25	20.79	20.75	20.86	
10	64QAM	1	49	20.68	20.60	20.90	21.8
10	64QAM	25	0	19.69	19.86	19.75	
10	64QAM	25	12	19.55	19.72	19.60	
10	64QAM	25	25	19.76	19.54	19.53	
10	64QAM	50	0	19.66	19.86	19.71	20.8
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	Tune-up limit (dBm)
5	QPSK	1	0	22.75	22.82	22.77	23.8
5	QPSK	1	12	22.75	22.60	22.63	
5	QPSK	1	24	22.54	22.68	22.81	
5	QPSK	12	0	21.68	21.85	21.78	
5	QPSK	12	7	21.79	21.72	21.67	22.8
5	QPSK	12	13	21.65	21.65	21.58	
5	QPSK	25	0	21.60	21.60	21.64	
5	16QAM	1	0	21.82	21.96	21.87	
5	16QAM	1	12	21.92	21.92	21.86	22.8
5	16QAM	1	24	21.96	21.87	21.95	
5	16QAM	12	0	20.76	20.83	20.55	
5	16QAM	12	7	20.60	20.63	20.65	
5	16QAM	12	13	20.59	20.79	20.73	21.8
5	16QAM	25	0	20.44	20.67	20.63	
5	64QAM	1	0	20.78	20.89	20.74	
5	64QAM	1	12	20.82	20.84	20.88	
5	64QAM	1	24	20.82	20.70	20.82	21.8
5	64QAM	12	0	19.69	19.87	19.88	
5	64QAM	12	7	19.70	19.77	19.71	
5	64QAM	12	13	19.70	19.57	19.70	
5	64QAM	25	0	19.57	19.86	19.68	20.8
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	Tune-up limit (dBm)
3	QPSK	1	0	22.69	22.79	22.75	23.8
3	QPSK	1	8	22.77	22.74	22.73	
3	QPSK	1	14	22.64	22.76	22.65	
3	QPSK	8	0	21.72	21.78	21.69	
3	QPSK	8	4	21.74	21.56	21.57	22.8
3	QPSK	8	7	21.68	21.70	21.67	
3	QPSK	15	0	21.72	21.77	21.67	
3	16QAM	1	0	21.88	21.95	21.93	

Band 4 (AWS Band) (dBm)							
Part 27I (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	23.8
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	22.76	22.83	22.80	23.8
20	QPSK	1	49	22.78	22.60	22.72	
20	QPSK	1	99	22.69	22.75	22.67	
20	QPSK	50	0	21.74	21.84	21.72	
20	QPSK	50	24	21.80	21.66	21.74	22.8
20	QPSK	50	50	21.62	21.79	21.68	
20	QPSK	100	0	21.70	21.72	21.66	
20	16QAM	1	0	21.90	21.95	21.93	
20	16QAM	1	49	21.90	21.90	21.87	22.8
20	16QAM	1	99	21.89	21.88	21.84	
20	16QAM	50	0	20.72	20.87	20.70	
20	16QAM	50	24	20.79	20.61	20.66	
20	16QAM	50	50	20.70	20.69	20.63	21.8
20	16QAM	100	0	20.56	20.79	20.51	
20	64QAM	1	0	20.88	21.05	20.93	
20	64QAM	1	49	20.68	20.83	20.80	
20	64QAM	1	99	20.72	20.72	20.73	21.8
20	64QAM	50	0	19.65	19.85	19.72	
20	64QAM	50	24	19.58	19.80	19.61	
20	64QAM	50	50	19.51	19.73	19.57	
20	64QAM	100	0	19.70	19.79	19.64	20.8
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	Tune-up limit (dBm)
15	QPSK	1	0	22.72	22.79	22.73	23.8
15	QPSK	1	37	22.75	22.75	22.70	
15	QPSK	1	74	22.73	22.66	22.74	
15	QPSK	36	0	21.71	21.81	21.76	
15	QPSK	36	20	21.73	21.66	21.63	22.8
15	QPSK	36	39	21.65	21.68	21.70	
15	QPSK	75	0	21.77	21.71	21.75	
15	16QAM	1	0	21.83	22.08	21.92	
15	16QAM	1	37	21.96	22.03	21.74	22.8
15	16QAM	1	74	21.98	21.93	21.94	
15	16QAM	36	0	20.74	20.88	20.80	
15	16QAM	36	20	20.66	20.70	20.61	
15	16QAM	36	39	20.56	20.66	20.66	21.8
15	16QAM	75	0	20.61	20.86	20.65	
15	64QAM	1	0	20.72	21.00	20.86	
15	64QAM	1	37	20.76	20.85	20.78	
15	64QAM	1	74	20.83	20.69	20.72	21.8
15	64QAM	36	0	19.88	19.91	19.82	
15	64QAM	36	20	19.79	19.83	19.77	
15	64QAM	36	39	19.70	19.66	19.66	
15	64QAM	75	0	19.71	19.67	19.76	20.8
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	Tune-up limit (dBm)
10	QPSK	1	0	22.77	22.80	22.73	23.8
10	QPSK	1	25	22.71	22.60	22.69	
10	QPSK	1	49	22.59	22.68	22.57	22.8
10	QPSK	25	0	21.74	21.86	21.82	
10	QPSK	25	12	21.72	21.73	21.55	
10	QPSK	25	25	21.75	21.74	21.58	
10	QPSK	50	0	21.68	21.73	21.78	22.8
10	16QAM	1	0	21.86	22.08	21.96	
10	16QAM	1	25	22.04	21.91	21.84	
10	16QAM	1	49	21.79	21.87	21.92	
10	16QAM	25	0	20.84	20.89	20.73	21.8
10	16QAM	25	12	20.80	20.68	20.72	
10	16QAM	25	25	20.70	20.55	20.68	
10	16QAM	50	0	20.63	20.87	20.72	
10	64QAM	1	0	20.82	21.03	20.83	21.8
10	64QAM	1	25	20.76	20.77	20.97	
10	64QAM	1	49	20.70	20.85	20.78	
10	64QAM	25	0	19.78	19.80	19.71	
10	64QAM	25	12	19.54	19.80	19.52	20.8
10	64QAM	25	25	19.66	19.54	19.54	
10	64QAM	50	0	19.72	19.70	19.61	
Channel				19975	20175	20375	
Frequency (MHz)				1712.5	1732.5	1752.5	Tune-up limit (dBm)
5	QPSK	1	0	22.73	22.76	22.74	23.8
5	QPSK	1	12	22.68	22.70	22.73	
5	QPSK	1	24	22.75	22.69	22.57	
5	QPSK	12	0	21.80	21.82	21.77	
5	QPSK	12	7	21.75	21.57	21.55	22.8
5	QPSK	12	13	21.68	21.77	21.63	
5	QPSK	25	0	21.54	21.80	21.75	
5	16QAM	1	0	21.91	21.98	21.88	
5	16QAM	1	12	21.88	21.92	21.79	22.8
5	16QAM	1	24	21.88	21.85	21.82	
5	16QAM	12	0	20.74	20.85	20.64	
5	16QAM	12	7	20.81	20.64	20.63	
5	16QAM	12	13	20.72	20.63	20.75	21.8
5	16QAM	25	0	20.60	20.72	20.63	
5	64QAM	1	0	20.76	20.95	20.78	
5	64QAM	1	12	20.83	20.62	20.91	
5	64QAM	1	24	20.79	20.83	20.74	21.8
5	64QAM	12	0	19.66	19.86	19.72	
5	64QAM	12	7	19.72	19.84	19.69	
5	64QAM	12	13	19.54	19.54	19.50	
5	64QAM	25	0	19.53	19.82	19.73	20.8
Channel				19965	20175	20385	
Frequency (MHz)				1711.5	1732.5	1753.5	Tune-up limit (dBm)
3	QPSK	1	0	22.68	22.77	22.73	23.8
3	QPSK	1	8	22.65	22.69	22.72	
3	QPSK	1	14	22.73	22.68	22.66	
3	QPSK	8	0	21.78	21.82	21.75	
3	QPSK	8	4	21.72	21.76	21.61	22.8
3	QPSK	8	7	21.69	21.77	21.54	
3	QPSK	15	0	21.56	21.79	21.82	
3	16QAM	1	0	21.80	22.00	21.95	

3	16QAM	1	8	21.98	21.92	21.97	22.8
3	16QAM	1	14	21.77	21.88	21.86	
3	16QAM	8	0	20.82	20.87	20.63	
3	16QAM	8	4	20.60	20.62	20.85	
3	16QAM	8	7	20.52	20.76	20.71	
3	16QAM	15	0	20.62	20.69	20.68	
3	64QAM	1	0	20.80	20.86	20.97	
3	64QAM	1	8	20.78	20.61	20.84	
3	64QAM	1	14	20.78	20.69	20.87	
3	64QAM	8	0	19.71	19.76	19.73	
3	64QAM	8	4	19.71	19.89	19.64	
3	64QAM	8	7	19.56	19.54	19.56	
3	64QAM	15	0	19.64	19.79	19.59	
Channel				18607	18900	19193	Tune-up limit
Frequency (MHz)				1850.7	1880	1909.3	(dBm)
1.4	QPSK	1	0	22.72	22.80	22.74	
1.4	QPSK	1	3	22.66	22.70	22.78	
1.4	QPSK	1	5	22.72	22.73	22.57	
1.4	QPSK	3	0	21.86	21.88	21.80	
1.4	QPSK	3	1	21.83	21.83	21.82	
1.4	QPSK	3	3	21.83	21.85	21.81	
1.4	QPSK	6	0	21.70	21.69	21.73	
1.4	16QAM	1	0	22.05	22.03	21.88	
1.4	16QAM	1	3	21.82	21.99	21.94	
1.4	16QAM	1	5	21.86	21.94	21.85	
1.4	16QAM	3	0	20.83	20.90	20.80	
1.4	16QAM	3	1	20.84	20.87	20.85	
1.4	16QAM	3	3	20.81	20.80	20.83	
1.4	16QAM	6	0	20.47	20.68	20.57	
1.4	64QAM	1	0	20.71	20.90	20.74	
1.4	64QAM	1	3	20.66	20.62	20.82	
1.4	64QAM	1	5	20.72	20.70	20.70	
1.4	64QAM	3	0	19.87	19.94	19.88	
1.4	64QAM	3	1	19.81	19.89	19.86	
1.4	64QAM	3	3	19.85	19.82	19.81	
1.4	64QAM	6	0	19.71	19.79	19.67	

3	16QAM	1	8	21.97	21.98	21.97	22.8
3	16QAM	1	14	21.81	21.95	21.91	
3	16QAM	8	0	20.73	20.85	20.72	
3	16QAM	8	4	20.74	20.76	20.80	
3	16QAM	8	7	20.60	20.65	20.74	
3	16QAM	15	0	20.63	20.72	20.53	
3	64QAM	1	0	20.89	20.95	20.82	
3	64QAM	1	8	20.65	20.66	20.87	
3	64QAM	1	14	20.69	20.75	20.93	
3	64QAM	8	0	19.64	19.86	19.76	
3	64QAM	8	4	19.74	19.87	19.55	
3	64QAM	8	7	19.59	19.71	19.67	
3	64QAM	15	0	19.67	19.69	19.57	
Channel				19957	20175	20393	Tune-up limit
Frequency (MHz)				1710.7	1732.5	1754.3	(dBm)
1.4	QPSK	1	0	22.76	22.78	22.73	
1.4	QPSK	1	3	22.66	22.69	22.63	
1.4	QPSK	1	5	22.70	22.75	22.71	
1.4	QPSK	3	0	21.87	21.90	21.82	
1.4	QPSK	3	1	21.85	21.80	21.87	
1.4	QPSK	3	3	21.83	21.85	21.81	
1.4	QPSK	6	0	21.69	21.73	21.86	
1.4	16QAM	1	0	22.04	22.05	22.03	
1.4	16QAM	1	3	22.04	22.03	21.76	
1.4	16QAM	1	5	21.90	21.84	21.99	
1.4	16QAM	3	0	20.84	20.86	20.82	
1.4	16QAM	3	1	20.81	20.83	20.81	
1.4	16QAM	3	3	20.83	20.81	20.80	
1.4	16QAM	6	0	20.59	20.82	20.56	
1.4	64QAM	1	0	20.96	20.97	20.75	
1.4	64QAM	1	3	20.75	20.84	20.93	
1.4	64QAM	1	5	20.66	20.61	20.97	
1.4	64QAM	3	0	19.85	19.94	19.88	
1.4	64QAM	3	1	19.81	19.90	19.87	
1.4	64QAM	3	3	19.82	19.86	19.80	
1.4	64QAM	6	0	19.75	19.81	19.69	

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	24.8
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.79	23.91	23.84	23.8
10	QPSK	1	25	23.82	23.86	23.83	
10	QPSK	1	49	23.68	23.75	23.66	
10	QPSK	25	0	22.81	22.85	22.83	
10	QPSK	25	12	22.73	22.74	22.78	23.8
10	QPSK	25	25	22.70	22.75	22.69	
10	QPSK	50	0	22.66	22.82	22.70	
10	16QAM	1	0	22.89	23.10	22.94	
10	16QAM	1	25	22.91	22.97	22.98	23.8
10	16QAM	1	49	22.98	22.97	22.90	
10	16QAM	25	0	21.80	21.85	21.72	
10	16QAM	25	12	21.60	21.75	21.85	
10	16QAM	25	25	21.59	21.76	21.83	22.8
10	16QAM	50	0	21.64	21.72	21.58	
10	64QAM	1	0	21.79	21.99	21.73	
10	64QAM	1	25	21.75	21.86	21.95	
10	64QAM	1	49	21.77	21.83	21.82	22.8
10	64QAM	25	0	20.72	20.78	20.71	
10	64QAM	25	12	20.66	20.76	20.68	
10	64QAM	25	25	20.53	20.73	20.61	
10	64QAM	50	0	20.65	20.75	20.67	21.8
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	24.8
5	QPSK	1	0	23.77	23.85	23.79	
5	QPSK	1	12	23.74	23.72	23.73	23.8
5	QPSK	1	24	23.63	23.72	23.60	
5	QPSK	12	0	22.86	22.95	22.69	
5	QPSK	12	7	22.84	22.70	22.73	
5	QPSK	12	13	22.79	22.70	22.66	23.8
5	QPSK	25	0	22.65	22.82	22.73	
5	16QAM	1	0	22.80	23.11	23.02	
5	16QAM	1	12	22.92	23.06	22.98	
5	16QAM	1	24	22.82	22.87	22.96	23.8
5	16QAM	12	0	21.81	21.87	21.69	
5	16QAM	12	7	21.73	21.70	21.86	
5	16QAM	12	13	21.65	21.69	21.81	
5	16QAM	25	0	21.63	21.71	21.74	22.8
5	64QAM	1	0	21.83	21.94	21.88	
5	64QAM	1	12	21.68	21.73	21.75	
5	64QAM	1	24	21.70	21.81	21.83	
5	64QAM	12	0	20.63	20.84	20.79	21.8
5	64QAM	12	7	20.68	20.70	20.66	
5	64QAM	12	13	20.62	20.73	20.65	
5	64QAM	25	0	20.66	20.71	20.70	
Channel				20415	20525	20635	24.8
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	23.79	23.83	23.78	23.8
3	QPSK	1	8	23.74	23.78	23.75	
3	QPSK	1	14	23.72	23.76	23.60	
3	QPSK	8	0	22.73	22.83	22.82	
3	QPSK	8	4	22.77	22.74	22.69	23.8
3	QPSK	8	7	22.76	22.78	22.59	
3	QPSK	15	0	22.69	22.68	22.68	
3	16QAM	1	0	22.91	23.06	22.94	
3	16QAM	1	8	22.87	23.05	22.93	23.8
3	16QAM	1	14	22.88	22.87	23.00	
3	16QAM	8	0	21.80	21.80	21.74	
3	16QAM	8	4	21.63	21.67	21.65	
3	16QAM	8	7	21.69	21.63	21.68	22.8
3	16QAM	15	0	21.65	21.77	21.74	
3	64QAM	1	0	21.79	21.93	21.86	
3	64QAM	1	8	21.73	21.74	21.81	
3	64QAM	1	14	21.77	21.72	21.81	21.8
3	64QAM	8	0	20.75	20.81	20.86	
3	64QAM	8	4	20.75	20.81	20.71	
3	64QAM	8	7	20.70	20.66	20.74	
3	64QAM	15	0	20.71	20.86	20.69	21.8
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	24.8
1.4	QPSK	1	0	23.71	23.86	23.74	
1.4	QPSK	1	3	23.70	23.77	23.68	23.8
1.4	QPSK	1	5	23.70	23.67	23.61	
1.4	QPSK	3	0	22.84	22.99	22.94	
1.4	QPSK	3	1	22.85	22.85	22.84	
1.4	QPSK	3	3	22.84	22.86	22.87	23.8
1.4	QPSK	6	0	22.56	22.72	22.67	
1.4	16QAM	1	0	22.82	23.18	23.00	
1.4	16QAM	1	3	22.87	22.93	22.81	
1.4	16QAM	1	5	22.97	22.88	22.85	23.8
1.4	16QAM	3	0	21.86	21.85	21.82	
1.4	16QAM	3	1	21.88	21.86	21.84	
1.4	16QAM	3	3	21.82	21.83	21.81	
1.4	16QAM	6	0	21.56	21.81	21.59	22.8
1.4	64QAM	1	0	21.91	21.88	21.86	
1.4	64QAM	1	3	21.77	21.65	21.89	
1.4	64QAM	1	5	21.73	21.70	21.78	
1.4	64QAM	3	0	20.85	20.85	20.86	22.8
1.4	64QAM	3	1	20.81	20.89	20.88	
1.4	64QAM	3	3	20.87	20.85	20.82	
1.4	64QAM	6	0	20.51	20.68	20.74	

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	22.73	22.84	22.79	23.8
20	QPSK	1	49	22.67	22.80	22.74	
20	QPSK	1	99	22.64	22.68	22.61	
20	QPSK	50	0	21.77	21.86	21.80	
20	QPSK	50	24	21.78	21.80	21.74	22.8
20	QPSK	50	50	21.59	21.75	21.57	
20	QPSK	100	0	21.59	21.68	21.75	
20	16QAM	1	0	21.88	22.04	21.95	
20	16QAM	1	49	21.87	22.03	21.93	22.8
20	16QAM	1	99	21.87	21.94	21.93	
20	16QAM	50	0	20.77	20.99	20.71	
20	16QAM	50	24	20.75	20.73	20.80	
20	16QAM	50	50	20.68	20.79	20.73	21.8
20	16QAM	100	0	20.44	20.77	20.71	
20	64QAM	1	0	20.93	21.09	20.83	
20	64QAM	1	49	20.81	20.73	20.92	
20	64QAM	1	99	20.60	20.77	20.87	21.8
20	64QAM	50	0	19.78	19.74	19.84	
20	64QAM	50	24	19.68	19.74	19.58	
20	64QAM	50	50	19.64	19.61	19.59	
20	64QAM	100	0	19.70	19.88	19.69	20.8
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	Tune-up limit (dBm)
15	QPSK	1	0	22.77	22.80	22.79	23.8
15	QPSK	1	37	22.76	22.67	22.71	
15	QPSK	1	74	22.64	22.69	22.61	
15	QPSK	36	0	21.76	21.79	21.72	
15	QPSK	36	20	21.74	21.73	21.57	22.8
15	QPSK	36	39	21.65	21.70	21.73	
15	QPSK	75	0	21.57	21.70	21.63	
15	16QAM	1	0	22.02	22.09	22.00	
15	16QAM	1	37	21.99	22.05	21.98	22.8
15	16QAM	1	74	21.87	21.87	21.84	
15	16QAM	36	0	20.83	20.85	20.76	
15	16QAM	36	20	20.63	20.53	20.65	
15	16QAM	36	39	20.70	20.59	20.71	21.8
15	16QAM	75	0	20.66	20.77	20.71	
15	64QAM	1	0	20.90	21.00	20.79	
15	64QAM	1	37	20.83	20.75	20.96	
15	64QAM	1	74	20.78	20.70	20.97	21.8
15	64QAM	36	0	19.78	19.80	19.73	
15	64QAM	36	20	19.70	19.70	19.58	
15	64QAM	36	39	19.76	19.69	19.59	
15	64QAM	75	0	19.56	19.87	19.80	20.8
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	Tune-up limit (dBm)
10	QPSK	1	0	22.66	22.81	22.75	23.8
10	QPSK	1	25	22.72	22.64	22.71	
10	QPSK	1	49	22.60	22.68	22.66	
10	QPSK	25	0	21.83	21.88	21.82	
10	QPSK	25	12	21.74	21.68	21.76	22.8
10	QPSK	25	25	21.71	21.70	21.69	
10	QPSK	50	0	21.64	21.62	21.78	
10	16QAM	1	0	21.96	22.06	21.97	
10	16QAM	1	25	21.88	21.88	21.86	22.8
10	16QAM	1	49	21.94	22.05	21.95	
10	16QAM	25	0	20.78	20.88	20.78	
10	16QAM	25	12	20.78	20.54	20.63	
10	16QAM	25	25	20.64	20.62	20.76	21.8
10	16QAM	50	0	20.43	20.72	20.64	
10	64QAM	1	0	20.82	20.97	20.93	
10	64QAM	1	25	20.75	20.60	20.96	
10	64QAM	1	49	20.85	20.62	20.91	21.8
10	64QAM	25	0	19.65	19.72	19.88	
10	64QAM	25	12	19.70	19.78	19.67	
10	64QAM	25	25	19.51	19.64	19.59	
10	64QAM	50	0	19.56	19.72	19.66	20.8
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)
5	QPSK	1	0	22.77	22.79	22.71	23.8
5	QPSK	1	12	22.72	22.65	22.72	
5	QPSK	1	24	22.70	22.67	22.64	
5	QPSK	12	0	21.67	21.82	21.73	
5	QPSK	12	7	21.73	21.59	21.57	22.8
5	QPSK	12	13	21.67	21.75	21.59	
5	QPSK	25	0	21.75	21.69	21.76	
5	16QAM	1	0	22.02	22.10	21.95	
5	16QAM	1	12	21.96	22.00	21.83	22.8
5	16QAM	1	24	21.85	21.86	21.85	
5	16QAM	12	0	20.79	20.81	20.67	
5	16QAM	12	7	20.59	20.78	20.75	
5	16QAM	12	13	20.67	20.68	20.73	21.8
5	16QAM	25	0	20.63	20.81	20.67	
5	64QAM	1	0	20.91	20.97	20.80	
5	64QAM	1	12	20.62	20.80	20.89	
5	64QAM	1	24	20.60	20.79	20.75	21.8
5	64QAM	12	0	19.83	19.85	19.76	
5	64QAM	12	7	19.67	19.69	19.62	
5	64QAM	12	13	19.57	19.71	19.67	
5	64QAM	25	0	19.74	19.71	19.69	20.8
Channel				20750	21100	21400	

Band 12 (700MHz Low Band) (dBm) Part 27E(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	23.92	23.97	23.85	24.8
10	QPSK	1	25	23.73	23.78	23.72	
10	QPSK	1	49	23.78	23.79	23.75	
10	QPSK	25	0	22.83	22.95	22.89	
10	QPSK	25	12	22.84	22.74	22.83	23.8
10	QPSK	25	25	22.79	22.88	22.74	
10	QPSK	50	0	22.70	22.86	22.81	
10	16QAM	1	0	22.92	23.16	22.98	
10	16QAM	1	25	23.02	23.14	22.86	23.8
10	16QAM	1	49	22.89	23.12	22.97	
10	16QAM	25	0	21.85	21.91	21.67	
10	16QAM	25	12	21.74	21.72	21.87	
10	16QAM	25	25	21.68	21.83	21.87	22.8
10	16QAM	50	0	21.76	21.90	21.73	
10	64QAM	1	0	21.90	22.12	21.88	
10	64QAM	1	25	21.85	21.79	21.84	
10	64QAM	1	49	21.81	21.87	21.91	22.8
10	64QAM	25	0	20.84	20.89	20.76	
10	64QAM	25	12	20.71	20.88	20.69	
10	64QAM	25	25	20.62	20.64	20.71	
10	64QAM	50	0	20.64	20.81	20.71	21.8
Channel				23035	23095	23155	
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	23.86	23.93	23.79	
5	QPSK	1	12	23.78	23.84	23.69	24.8
5	QPSK	1	24	23.80	23.85	23.75	
5	QPSK	12	0	22.78	22.92	22.85	
5	QPSK	12	7	22.97	22.68	22.60	
5	QPSK	12	13	22.83	22.74	22.66	23.8
5	QPSK	25	0	22.64	22.70	22.90	
5	16QAM	1	0	23.05	23.13	22.93	
5	16QAM	1	12	23.00	23.04	22.86	
5	16QAM	1	24	22.98	23.03	23.08	23.8
5	16QAM	12	0	21.85	21.90	21.81	
5	16QAM	12	7	21.78	21.71	21.72	
5	16QAM	12	13	21.68	21.76	21.77	
5	16QAM	25	0	21.77	21.82	21.74	22.8
5	64QAM	1	0	21.87	21.96	21.79	
5	64QAM	1	12	21.72	21.88	21.89	
5	64QAM	1	24	21.66	21.77	21.84	
5	64QAM	12	0	20.84	20.89	20.72	21.8
5	64QAM	12	7	20.71	20.80	20.67	
5	64QAM	12	13	20.74	20.72	20.75	
5	64QAM	25	0	20.68	20.89	20.85	
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	23.84	23.92	23.82	24.8
3	QPSK	1	8	23.71	23.85	23.70	
3	QPSK	1	14	23.67	23.75	23.79	
3	QPSK	8	0	22.77	22.88	22.82	
3	QPSK	8	4	22.81	22.85	22.83	23.8
3	QPSK	8	7	22.79	22.79	22.73	
3	QPSK	15	0	22.66	22.80	22.81	
3	16QAM	1	0	23.02	23.12	23.08	
3	16QAM	1	8	22.90	23.10	22.93	23.8
3	16QAM	1	14	22.98	23.06	22.85	
3	16QAM	8	0	21.77	21.80	21.75	
3	16QAM	8	4	21.79	21.73	21.73	
3	16QAM	8	7	21.77	21.75	21.75	22.8
3	16QAM	15	0	21.69	21.78	21.70	
3	64QAM	1	0	21.88	22.10	21.95	
3	64QAM	1	8	21.86	21.87	21.94	
3	64QAM	1	14	21.74	21.79	21.89	22.8
3	64QAM	8	0	20.85	20.85	20.87	
3	64QAM	8	4	20.72	20.83	20.65	
3	64QAM	8	7	20.69	20.70	20.69	
3	64QAM	15	0	20.57	20.84	20.71	21.8
Channel				23017	23095	23173	
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	23.73	23.90	23.85	
1.4	QPSK	1	3	23.77	23.79	23.67	24.8
1.4	QPSK	1	5	23.64	23.80	23.66	
1.4	QPSK	3	0	22.81	22.95	22.87	
1.4	QPSK	3	1	22.88	22.83	22.84	
1.4	QPSK	3	3	22.86	22.88	22.90	23.8
1.4	QPSK	6	0	22.75	22.72	22.74	
1.4	16QAM	1	0	22.95	23.06	23.04	
1.4	16QAM	1	3	22.94	22.96	22.79	
1.4	16QAM	1	5	22.83	23.06	23.06	23.8
1.4	16QAM	3	0	21.92	21.88	21.84	
1.4	16QAM	3	1	21.87	21.87	21.86	
1.4	16QAM	3	3	21.84	21.90	21.85	
1.4	16QAM	6	0	21.65	21.79	21.78	22.8
1.4	64QAM	1	0	21.84	21.99	21.81	
1.4	64QAM	1	3	21.63	21.85	21.91	
1.4	64QAM	1	5	21.87	21.83	21.89	
1.4	64QAM	3	0	20.81	20.98	20.87	22.8
1.4	64QAM	3	1	20.81	20.88	20.82	
1.4	64QAM	3	3	20.87	20.80	20.81	
1.4	64QAM	6	0	20.79	20.77	20.83	

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		23.98		24.8
10	QPSK	1	25		23.87		
10	QPSK	1	49		23.79		
10	QPSK	25	0		22.88		
10	QPSK	25	12		22.87		23.8
10	QPSK	25	25		22.77		
10	QPSK	50	0		22.70		
10	16QAM	1	0		23.11		
10	16QAM	1	25		23.06		23.8
10	16QAM	1	49		23.09		
10	16QAM	25	0		22.05		
10	16QAM	25	12		21.85		
10	16QAM	25	25		21.80		22.8
10	16QAM	50	0		21.77		
10	64QAM	1	0		22.10		
10	64QAM	1	25		21.83		
10	64QAM	1	49		21.90		22.8
10	64QAM	25	0		20.88		
10	64QAM	25	12		20.97		
10	64QAM	25	25		20.78		
10	64QAM	50	0		20.86		21.8
Channel				23205	23230	23255	
Frequency (MHz)				779.5	782	784.5	Tune-up limit (dBm)
5	QPSK	1	0	23.87	23.93	23.92	24.8
5	QPSK	1	12	23.90	23.81	23.83	
5	QPSK	1	24	23.68	23.82	23.79	
5	QPSK	12	0	22.81	22.89	22.85	
5	QPSK	12	7	22.85	22.85	22.84	23.8
5	QPSK	12	13	22.82	22.80	22.81	
5	QPSK	25	0	22.74	22.88	22.88	
5	16QAM	1	0	22.93	23.07	23.05	
5	16QAM	1	12	23.03	23.02	22.91	23.8
5	16QAM	1	24	23.03	23.04	23.01	
5	16QAM	12	0	21.96	21.98	21.75	
5	16QAM	12	7	21.78	21.84	21.79	
5	16QAM	12	13	21.60	21.71	21.70	22.8
5	16QAM	25	0	21.74	21.78	21.76	
5	64QAM	1	0	21.96	22.00	21.92	
5	64QAM	1	12	21.93	21.94	21.99	
5	64QAM	1	24	21.92	21.78	21.95	21.8
5	64QAM	12	0	20.79	20.83	20.88	
5	64QAM	12	7	20.82	20.81	20.69	
5	64QAM	12	13	20.70	20.77	20.83	
5	64QAM	25	0	20.63	20.81	20.67	

Band 66 (dBm)							
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	22.87	22.95	22.90	23.8
20	QPSK	1	49	22.64	22.60	22.78	
20	QPSK	1	99	22.73	22.87	22.69	
20	QPSK	50	0	21.86	21.91	21.87	22.8
20	QPSK	50	24	21.73	21.78	21.75	
20	QPSK	50	50	21.63	21.77	21.67	
20	QPSK	100	0	21.66	21.64	21.87	22.8
20	16QAM	1	0	21.85	22.10	21.93	
20	16QAM	1	49	22.03	22.08	21.77	
20	16QAM	1	99	21.97	21.93	21.90	21.8
20	16QAM	50	0	20.86	20.89	20.75	
20	16QAM	50	24	20.79	20.71	20.78	
20	16QAM	50	50	20.66	20.73	20.81	21.8
20	16QAM	100	0	20.75	20.92	20.71	
20	64QAM	1	0	20.91	20.97	20.73	
20	64QAM	1	49	20.72	20.83	20.86	21.8
20	64QAM	1	99	20.83	20.77	20.86	
20	64QAM	50	0	19.70	19.83	19.70	
20	64QAM	50	24	19.74	19.93	19.69	20.8
20	64QAM	50	50	19.65	19.67	19.67	
20	64QAM	100	0	19.60	19.79	19.71	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.81	22.91	22.85	23.8
15	QPSK	1	37	22.87	22.78	22.77	
15	QPSK	1	74	22.77	22.78	22.71	
15	QPSK	36	0	21.83	21.85	21.77	22.8
15	QPSK	36	20	21.87	21.71	21.69	
15	QPSK	36	39	21.80	21.79	21.72	
15	QPSK	75	0	21.70	21.70	21.79	22.8
15	16QAM	1	0	21.95	22.01	22.07	
15	16QAM	1	37	21.95	21.89	21.77	
15	16QAM	1	74	21.84	22.05	21.94	21.8
15	16QAM	36	0	20.77	20.84	20.77	
15	16QAM	36	20	20.60	20.53	20.78	
15	16QAM	36	39	20.69	20.57	20.80	21.8
15	16QAM	75	0	20.60	20.76	20.61	
15	64QAM	1	0	20.79	20.91	20.95	
15	64QAM	1	37	20.77	20.80	20.77	21.8
15	64QAM	1	74	20.80	20.74	20.85	
15	64QAM	36	0	19.71	19.74	19.80	
15	64QAM	36	20	19.65	19.67	19.72	20.8
15	64QAM	36	39	19.73	19.67	19.74	
15	64QAM	75	0	19.75	19.87	19.78	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.78	22.89	22.83	23.8
10	QPSK	1	25	22.68	22.68	22.71	
10	QPSK	1	49	22.68	22.72	22.72	
10	QPSK	25	0	21.78	21.91	21.86	22.8
10	QPSK	25	12	21.86	21.76	21.79	
10	QPSK	25	25	21.76	21.74	21.72	
10	QPSK	50	0	21.78	21.72	21.86	22.8
10	16QAM	1	0	21.99	22.09	21.95	
10	16QAM	1	25	21.81	21.94	21.89	
10	16QAM	1	49	21.80	21.95	21.96	21.8
10	16QAM	25	0	20.89	20.80	20.60	
10	16QAM	25	12	20.69	20.68	20.71	
10	16QAM	25	25	20.61	20.72	20.75	21.8
10	16QAM	50	0	20.57	20.75	20.61	
10	64QAM	1	0	20.92	20.94	20.79	
10	64QAM	1	25	20.65	20.64	20.89	21.8
10	64QAM	1	49	20.82	20.68	20.79	
10	64QAM	25	0	19.79	19.71	19.75	
10	64QAM	25	12	19.68	19.80	19.53	20.8
10	64QAM	25	25	19.71	19.62	19.52	
10	64QAM	50	0	19.59	19.73	19.62	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.79	22.86	22.71	23.8
5	QPSK	1	12	22.70	22.71	22.69	
5	QPSK	1	24	22.65	22.67	22.62	
5	QPSK	12	0	21.88	21.92	21.75	22.8
5	QPSK	12	7	21.89	21.70	21.64	
5	QPSK	12	13	21.68	21.80	21.61	
5	QPSK	25	0	21.67	21.77	21.83	22.8
5	16QAM	1	0	21.81	22.02	21.90	
5	16QAM	1	12	22.05	21.98	21.87	
5	16QAM	1	24	21.92	22.04	21.86	21.8
5	16QAM	12	0	20.91	20.79	20.76	
5	16QAM	12	7	20.62	20.85	20.84	
5	16QAM	12	13	20.68	20.77	20.69	21.8
5	16QAM	25	0	20.61	20.72	20.66	
5	64QAM	1	0	20.91	21.07	20.80	
5	64QAM	1	12	20.70	20.78	20.92	21.8
5	64QAM	1	24	20.71	20.72	20.87	
5	64QAM	12	0	19.73	19.75	19.69	
5	64QAM	12	7	19.60	19.80	19.57	20.8
5	64QAM	12	13	19.72	19.64	19.56	
5	64QAM	25	0	19.75	19.81	19.60	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.78	22.87	22.75	23.8
3	QPSK	1	8	22.73	22.74	22.77	
3	QPSK	1	14	22.67	22.80	22.62	
3	QPSK	8	0	21.66	21.75	21.73	22.8
3	QPSK	8	4	21.72	21.59	21.68	
3	QPSK	8	7	21.81	21.66	21.59	
3	QPSK	15	0	21.59	21.73	21.65	22.8
3	16QAM	1	0	21.90	22.05	22.04	

3	16QAM	1	8	21.91	22.08	21.88	22.8
3	16QAM	1	14	21.85	21.96	21.99	
3	16QAM	8	0	20.94	20.92	20.69	
3	16QAM	8	4	20.77	20.74	20.72	21.8
3	16QAM	8	7	20.71	20.70	20.79	
3	16QAM	15	0	20.70	20.80	20.65	
3	64QAM	1	0	20.72	21.03	20.88	21.8
3	64QAM	1	8	20.83	20.83	20.81	
3	64QAM	1	14	20.72	20.72	20.76	
3	64QAM	8	0	19.69	19.70	19.72	
3	64QAM	8	4	19.59	19.77	19.66	20.8
3	64QAM	8	7	19.72	19.60	19.65	
3	64QAM	15	0	19.62	19.78	19.76	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.81	22.86	22.70	
1.4	QPSK	1	3	22.81	22.68	22.69	
1.4	QPSK	1	5	22.55	22.76	22.81	23.8
1.4	QPSK	3	0	21.87	21.88	21.85	
1.4	QPSK	3	1	21.82	21.82	21.80	
1.4	QPSK	3	3	21.80	21.81	21.82	
1.4	QPSK	6	0	21.70	21.74	21.66	22.8
1.4	16QAM	1	0	21.94	22.03	21.85	
1.4	16QAM	1	3	21.92	21.97	21.75	
1.4	16QAM	1	5	21.84	21.99	21.86	22.8
1.4	16QAM	3	0	20.73	20.97	20.67	
1.4	16QAM	3	1	20.82	20.68	20.80	
1.4	16QAM	3	3	20.62	20.74	20.68	
1.4	16QAM	6	0	20.69	20.80	20.61	21.8
1.4	64QAM	1	0	20.71	20.90	20.85	
1.4	64QAM	1	3	20.77	20.73	20.75	
1.4	64QAM	1	5	20.68	20.71	20.93	21.8
1.4	64QAM	3	0	19.61	19.73	19.79	
1.4	64QAM	3	1	19.59	19.82	19.69	
1.4	64QAM	3	3	19.69	19.61	19.56	
1.4	64QAM	6	0	19.62	19.71	19.79	20.8

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	21.71	21.74	21.85	21.73	21.69	22.8	
20	QPSK	1	49	21.67	21.68	21.75	21.70	21.64		
20	QPSK	1	99	21.58	21.73	21.69	21.66	21.74		
20	QPSK	50	0	20.71	20.80	20.84	20.75	20.76	21.8	
20	QPSK	50	24	20.75	20.79	20.69	20.67	20.61		
20	QPSK	50	50	20.70	20.61	20.72	20.60	20.56		
20	QPSK	100	0	20.65	20.61	20.70	20.57	20.57	21.8	
20	16QAM	1	0	20.92	20.94	20.97	20.88	20.92		
20	16QAM	1	49	20.91	20.85	20.92	20.77	20.74		
20	16QAM	1	99	20.80	20.67	20.90	20.89	20.86	20.8	
20	16QAM	50	0	19.82	19.85	19.65	19.74	19.69		
20	16QAM	50	24	19.60	19.59	19.60	19.73	19.77		
20	16QAM	50	50	19.66	19.62	19.69	19.76	19.61	20.8	
20	16QAM	100	0	19.50	19.55	19.74	19.62	19.51		
20	64QAM	1	0	19.74	19.86	19.84	19.91	19.67		
20	64QAM	1	49	19.77	19.72	19.64	19.73	19.90	20.8	
20	64QAM	1	99	19.64	19.69	19.70	19.85	19.90		
20	64QAM	50	0	18.55	18.57	18.79	18.78	18.63		
20	64QAM	50	24	18.72	18.48	18.69	18.61	18.57	19.8	
20	64QAM	50	50	18.53	18.58	18.65	18.55	18.65		
20	64QAM	100	0	18.67	18.58	18.71	18.68	18.52		
Channel				55315	55820	55990	56160	56665	Tune-up limit (dBm)	
Frequency (MHz)				3557.5	3608	3625	3642	3692.5		
15	QPSK	1	0	21.69	21.80	21.83	21.82	21.75	22.8	
15	QPSK	1	37	21.71	21.59	21.78	21.78	21.78		
15	QPSK	1	74	21.73	21.69	21.66	21.59	21.70		
15	QPSK	36	0	20.61	20.84	20.86	20.68	20.78	21.8	
15	QPSK	36	20	20.70	20.78	20.70	20.62	20.56		
15	QPSK	36	39	20.57	20.70	20.68	20.59	20.54		
15	QPSK	75	0	20.70	20.63	20.68	20.73	20.73	21.8	
15	16QAM	1	0	20.91	20.88	21.00	20.97	20.82		
15	16QAM	1	37	20.78	20.97	20.62	20.70	20.83		
15	16QAM	1	74	20.63	20.67	20.87	20.80	20.85	20.8	
15	16QAM	36	0	19.74	19.71	19.79	19.59	19.72		
15	16QAM	36	20	19.70	19.65	19.53	19.68	19.78		
15	16QAM	36	39	19.60	19.55	19.54	19.64	19.78	20.8	
15	16QAM	75	0	19.57	19.64	19.62	19.53	19.65		
15	64QAM	1	0	19.65	19.84	19.90	19.66	19.76		
15	64QAM	1	37	19.55	19.65	19.71	19.71	19.87	20.8	
15	64QAM	1	74	19.78	19.57	19.66	19.74	19.88		
15	64QAM	36	0	18.69	18.57	18.72	18.65	18.69		
15	64QAM	36	20	18.58	18.62	18.61	18.50	18.61	19.8	
15	64QAM	36	39	18.53	18.53	18.61	18.69	18.56		
15	64QAM	75	0	18.67	18.58	18.67	18.70	18.58		
Channel				55290	55815	55990	56165	56690	Tune-up limit (dBm)	
Frequency (MHz)				3555	3607.5	3625	3642.5	3695		
10	QPSK	1	0	21.76	21.78	21.80	21.65	21.67	22.8	
10	QPSK	1	25	21.58	21.76	21.65	21.75	21.67		
10	QPSK	1	49	21.68	21.54	21.67	21.70	21.67		
10	QPSK	25	0	20.71	20.77	20.86	20.70	20.72	21.8	
10	QPSK	25	12	20.71	20.73	20.60	20.60	20.58		
10	QPSK	25	25	20.54	20.77	20.66	20.58	20.52		
10	QPSK	50	0	20.69	20.69	20.92	20.61	20.81	21.8	
10	16QAM	1	0	20.75	20.84	20.91	20.90	20.90		
10	16QAM	1	25	20.86	20.92	20.83	20.70	20.89		
10	16QAM	1	49	20.77	20.92	20.85	20.77	20.94	21.8	
10	16QAM	25	0	19.84	19.85	19.86	19.70	19.57		
10	16QAM	25	12	19.75	19.76	19.50	19.64	19.60		
10	16QAM	25	25	19.53	19.61	19.73	19.65	19.73	20.8	
10	16QAM	50	0	19.54	19.58	19.72	19.51	19.46		
10	64QAM	1	0	19.72	19.77	19.83	19.73	19.76		
10	64QAM	1	25	19.66	19.63	19.65	19.85	19.74	20.8	
10	64QAM	1	49	19.68	19.55	19.73	19.72	19.78		
10	64QAM	25	0	18.68	18.67	18.69	18.66	18.76		
10	64QAM	25	12	18.71	18.64	18.84	18.57	18.51	19.8	
10	64QAM	25	25	18.66	18.60	18.59	18.65	18.65		
10	64QAM	50	0	18.54	18.55	18.79	18.68	18.52		
Channel				55255	55810	55995	56170	56715	Tune-up limit (dBm)	
Frequency (MHz)				3552.5	3607	3625	3643	3697.5		
5	QPSK	1	0	21.58	21.75	21.81	21.65	21.60	22.8	
5	QPSK	1	12	21.64	21.60	21.70	21.73	21.55		
5	QPSK	1	24	21.65	21.73	21.78	21.66	21.66		
5	QPSK	12	0	20.61	20.73	20.84	20.62	20.74	21.8	
5	QPSK	12	7	20.67	20.89	20.57	20.72	20.64		
5	QPSK	12	13	20.55	20.55	20.63	20.56	20.61		
5	QPSK	25	0	20.72	20.65	20.75	20.69	20.68	21.8	
5	16QAM	1	0	20.84	20.89	21.01	20.85	20.79		
5	16QAM	1	12	20.91	21.00	20.83	20.79	20.73		
5	16QAM	1	24	20.89	20.78	20.94	20.88	20.81	20.8	
5	16QAM	12	0	19.62	19.70	19.79	19.69	19.56		
5	16QAM	12	7	19.65	19.53	19.57	19.69	19.66		
5	16QAM	12	13	19.59	19.56	19.58	19.72	19.72	20.8	
5	16QAM	25	0	19.43	19.50	19.75	19.60	19.58		
5	64QAM	1	0	19.66	19.71	19.97	19.93	19.80		
5	64QAM	1	12	19.65	19.63	19.68	19.93	19.74	19.8	
5	64QAM	1	24	19.77	19.58	19.67	19.71	19.79		
5	64QAM	12	0	18.79	18.77	18.79	18.78	18.65		
5	64QAM	12	7	18.56	18.56	18.77	18.59	18.59	19.8	
5	64QAM	12	13	18.55	18.69	18.60	18.54	18.55		
5	64QAM	25	0	18.52	18.65	18.62	18.66	18.71		

CA_5B									
Combination:10MHz+10MHz(50RB+50RB)									
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset		
20450	20450	20549	QPSK	1	0	0	0	23.84	24.5
20476	20476	20575	QPSK	1	0	0	0	23.77	24.5
20501	20501	20600	QPSK	1	0	0	0	23.73	24.5
20450	20450	20549	16QAM	1	0	0	0	23.39	24
20476	20476	20575	16QAM	1	0	0	0	23.24	24
20501	20501	20600	16QAM	1	0	0	0	23.27	24
20450	20450	20549	64QAM	1	0	0	0	22.78	23.5
20476	20476	20575	64QAM	1	0	0	0	22.55	23.5
20501	20501	20600	64QAM	1	0	0	0	22.61	23.5
20450	20450	20549	QPSK	25	0	0	0	23.08	24
20476	20476	20575	QPSK	25	0	0	0	23.04	24
20501	20501	20600	QPSK	25	0	0	0	23.05	24

CA_48C									
Combination:20MHz+20MHz(100RB+100RB)									
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset		
55340	55340	55538	QPSK	1	0	0	0	21.39	22.00
55990	55891	56089	QPSK	1	0	0	0	21.42	22.00
56640	56442	56640	QPSK	1	0	0	0	21.37	22.00
55340	55340	55538	16QAM	1	0	0	0	20.79	21.50
55990	55891	56089	16QAM	1	0	0	0	20.88	21.50
56640	56442	56640	16QAM	1	0	0	0	20.83	21.50
55340	55340	55538	64QAM	1	0	0	0	20.31	21.00
55990	55891	56089	64QAM	1	0	0	0	20.37	21.00
56640	56442	56640	64QAM	1	0	0	0	20.28	21.00
55340	55340	55538	QPSK	50	0	0	0	20.58	21.5
55990	55891	56089	QPSK	50	0	0	0	20.63	21.5
56640	56442	56640	QPSK	50	0	0	0	20.61	21.5

CA_66B									
Combination:10MHz+10MHz(50RB+50RB)									
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset		
132072	132022	132121	QPSK	1	0	0	0	22.88	23.5
132322	132373	132472	QPSK	1	0	0	0	22.82	23.5
132572	132523	132622	QPSK	1	0	0	0	22.79	23.5
132072	132022	132121	16QAM	1	0	0	0	22.38	23
132322	132373	132472	16QAM	1	0	0	0	22.41	23
132572	132523	132622	16QAM	1	0	0	0	22.34	23
132072	132022	132121	64QAM	1	0	0	0	21.86	22.5
132322	132373	132472	64QAM	1	0	0	0	21.62	22.5
132572	132523	132622	64QAM	1	0	0	0	21.65	22.5
132072	132022	132121	QPSK	50	0	0	0	22.15	23
132322	132373	132472	QPSK	50	0	0	0	22.11	23
132572	132523	132622	QPSK	50	0	0	0	22.12	23

CA_66C									
Combination:20MHz+20MHz(100RB+100RB)									
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset		
132072	132072	132270	QPSK	1	0	0	0	22.81	23.5
132322	132323	132521	QPSK	1	0	0	0	22.84	23.5
132572	132374	132572	QPSK	1	0	0	0	22.79	23.5
132072	132072	132270	16QAM	1	0	0	0	22.36	23
132322	132323	132521	16QAM	1	0	0	0	22.41	23
132572	132374	132572	16QAM	1	0	0	0	22.34	23
132072	132072	132270	64QAM	1	0	0	0	21.85	22.5
132322	132323	132521	64QAM	1	0	0	0	21.52	22.5
132572	132374	132572	64QAM	1	0	0	0	21.58	22.5
132072	132072	132270	QPSK	50	0	0	0	22.16	23
132322	132323	132521	QPSK	50	0	0	0	22.13	23
132572	132374	132572	QPSK	50	0	0	0	22.09	23

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	1745	22.72	23.5
	CA_2A-5A	2	20	18700	1860	QPSK/1#0	5	10	20600	844	22.68	23.5
	CA_2A-13A	2	20	18700	1860	QPSK/1#0	13	10	23230	782	22.61	23.5
	CA_2A-66A	2	20	18700	1860	QPSK/1#0	66	20	132572	1770	22.56	23.5
	CA_4A-5A	4	20	20050	1720	QPSK/1#0	5	10	20600	844	22.69	23.5
	CA_4A-13A	4	20	20050	1720	QPSK/1#0	13	10	23230	782	22.53	23.5
	CA_5A-66A	5	10	20450	829	QPSK/1#0	66	20	132572	1770	23.76	24.5
	CA_13A-66A	13	10	23230	782	QPSK/1#0	66	20	132572	1770	23.52	24.5

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)	DL Channel	DL Fre. (MHz)
Intra-band & Inter-band	CA_4A-5A	4	20	20050	1720	QPSK/1#0	5	10	20600	844
	CA_4A-13A	4	20	20050	1720	QPSK/1#0	13	10	23230	782
	CA_4A-48A	4	20	20050	1720	QPSK/1#0	48	20	56640	3690
	CA_66B	66	10	132373	1750.1	QPSK/1#0	66	10	132472	1760
	CA_66C	66	20	132323	1745.1	QPSK/1#0	66	20	132521	1764.9

3CC LTE Downlink													
Configure	CA Configuration	PCC				SCC1			SCC2			Power	
		Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	Band	BW (MHz)	DL Channel
Intra-band & Inter-band	CA_2A-4A-5A	2	20	18700	1860	QPSK/1#0	4	20	20300	1745	5	10	20600
	CA_2A-4A-13A	2	20	19100	1900	QPSK/1#0	4	20	20300	1745	13	10	23230
	CA_2A-66B	2	20	18700	1860	QPSK/1#0	66	10	132373	1750.1	66	10	132472
	CA_2A-66C	2	20	18700	1860	QPSK/1#0	66	20	132323	1745.1	66	20	132521
	CA_2A-5A-48A	2	20	18700	1860	QPSK/1#0	5	10	20600	844	48	20	56640
	CA_2A-13A-48A	2	20	18700	1860	QPSK/1#0	13	10	23230	782	48	20	56640
	CA_2A-48A-48A	2	20	18700	1860	QPSK/1#0	48	20	55340	3560	48	20	56640
	CA_4A-4A-5A	4	20	20050	1720	QPSK/1#0	4	20	20300	1745	5	10	20600
	CA_4A-4A-13A	4	20	20050	1720	QPSK/1#0	4	20	20300	1745	13	10	23230
	CA_4A-5B	4	20	20050	1720	QPSK/1#1	5	10	20476	831.6	5	10	20575
	CA_4A-48C	4	20	20050	1720	QPSK/1#0	48	20	55891	3615.1	48	20	56089
	CA_5A-66A-66A	5	10	20450	829	QPSK/1#0	66	20	66536	2120	66	20	67236
	CA_5A-66B	5	10	20450	829	QPSK/1#0	66	10	132373	1750.1	66	10	132472
	CA_5A-66C	5	10	20450	829	QPSK/1#0	66	20	132323	1745.1	66	20	132521
	CA_5A-48A-66A	5	10	20450	829	QPSK/1#0	48	20	56640	3690	66	20	67236
	CA_13A-66A-66A	13	10	23230	782	QPSK/1#0	66	20	66536	2120	66	20	67236
	CA_13A-66B	13	10	23230	782	QPSK/1#0	66	10	132373	1750.1	66	10	132472
	CA_13A-66C	13	10	23230	782	QPSK/1#0	66	20	132323	1745.1	66	20	132521
	CA_13A-48A-66A	13	10	23230	782	QPSK/1#0	48	20	56640	3690	66	20	67236
	CA_13A-48A-48A	13	10	23230	782	QPSK/1#0	48	20	55340	3560	48	20	56640
	CA_66A-66A-66A	66	20	132072	1720	QPSK/1#0	66	20	66886	2155	66	20	67236
	CA_66A-66C	66	20	132072	1720	QPSK/1#0	66	20	132323	1745.1	66	20	132521
	CA_48A-66A-66A	48	20	55340	3560	QPSK/1#0	66	20	66536	2120	66	20	67236
	CA_48A-66B	48	20	55340	3560	QPSK/1#0	66	10	132373	1750.1	66	10	132472
	CA_48A-66C	48	20	55340	3560	QPSK/1#0	66	20	132323	1745.1	66	20	132521
	CA_48C-66A	48	20	55891	3615.1	QPSK/1#0	48	20	56089	3634.9	66	20	67236

4CC LTE Downlink																				
Configure	CA Configuration	PCC					SCC1				SCC2				SCC3			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)	Band	BW (MHz)	DL Channel		DL Freq (MHz)	CA TX (dBm)
Intra-band & Inter-band	CA_2A-2A-4A-4A	2	20	18700	1860	QPSK/1#0	2	20	1100	1980	4	20	2050	2120	4	20	2300	2145	22.32	22.89
	CA_2A-2A-4A-5A	2	20	18700	1860	QPSK/1#0	2	20	1100	1980	4	20	2050	2120	5	10	2600	889	22.29	22.89
	CA_2A-2A-5A-66A	2	20	18700	1860	QPSK/1#0	2	20	1100	1980	5	10	2600	889	66	20	67236	2190	22.31	22.89
	CA_2A-2A-13A-66A	2	20	18700	1860	QPSK/1#0	2	20	1100	1980	13	10	5230	751	66	20	67236	2190	22.33	22.89
	CA_2A-2A-66A-66A	2	20	18700	1860	QPSK/1#0	2	20	1100	1980	66	20	66536	2120	66	20	67236	2190	22.32	22.89
	CA_2A-2A-66B	2	20	18700	1860	QPSK/1#0	2	20	1100	1980	66	10	132373	1750.1	66	10	132472	1760	22.27	22.89
	CA_2A-2A-66C	2	20	18700	1860	QPSK/1#0	2	20	1100	1980	66	20	132323	1745.1	66	20	132521	1764.9	22.26	22.89
	CA_2A-4A-4A-5A	2	20	18700	1860	QPSK/1#0	4	20	2175	2132.5	4	20	2175	2132.5	5	10	2600	889	22.29	22.89
	CA_2A-4A-5B	2	20	18700	1860	QPSK/1#0	4	20	2175	2132.5	5	10	20476	831.6	5	10	20575	841.5	22.3	22.89
	CA_2A-5A-66A-66A	2	20	18700	1860	QPSK/1#0	5	10	2600	889	66	20	66536	2120	66	20	67236	2190	22.36	22.89
	CA_2A-5A-66B	2	20	18700	1860	QPSK/1#0	5	10	2600	889	66	10	132373	1750.1	66	10	132472	1760	22.35	22.89
	CA_2A-5A-66C	2	20	18700	1860	QPSK/1#0	5	10	2600	889	66	20	132323	1745.1	66	20	132521	1764.9	22.38	22.89
	CA_2A-5B-66A	2	20	18700	1860	QPSK/1#0	5	10	20476	831.6	5	10	20575	841.5	66	20	67236	2190	22.31	22.89
	CA_2A-13A-66A-66A	2	20	18700	1860	QPSK/1#0	13	10	5230	751	66	20	66536	2120	66	20	67236	2190	22.39	22.89
	CA_2A-13A-66B	2	20	18700	1860	QPSK/1#0	13	10	5230	751	66	10	132373	1750.1	66	10	132472	1760	22.24	22.89
	CA_2A-13A-66C	2	20	18700	1860	QPSK/1#0	13	10	5230	751	66	20	132323	1745.1	66	20	132521	1764.9	22.36	22.89
	CA_2A-66A-66A-66A	2	20	18700	1860	QPSK/1#0	66	20	132072	1720	66	20	66886	2155	66	20	67236	2190	22.37	22.89
	CA_2A-13A-48C	2	20	18700	1860	QPSK/1#0	13	10	5230	751	48	20	55891	3615.1	48	20	56089	3634.9	22.34	22.89
	CA_13A-48A-48C	13	10	23230	782	QPSK/1#0	48	20	56640	3690	48	20	55891	3615.1	48	20	56089	3634.9	23.59	23.98
	CA_13A-48A-66B	13	10	23230	782	QPSK/1#0	48	20	56640	3690	66	10	132373	1750.1	66	10	132472	1760	23.62	23.98
	CA_13A-48A-66C	13	10	23230	782	QPSK/1#0	48	20	56640	3690	66	20	132323	1745.1	66	20	132521	1764.9	23.55	23.98
	CA_13A-48C-66A	13	10	23230	782	QPSK/1#0	48	20	55891	3615.1	48	20	56089	3634.9	66	20	67236	2190	23.68	23.98
	CA_13A-48D	13	10	23230	782	QPSK/1#0	48	20	55792	3605.2	48	20	55990	3625	48	20	56188	3644.8	23.67	23.98
	CA_2A-48A-48C	2	20	18700	1860	QPSK/1#0	48	20	56640	3690	48	20	55891	3615.1	48	20	56089	3634.9	22.41	22.89
	CA_2A-48C-66A	2	20	18700	1860	QPSK/1#0	48	20	55891	3615.1	48	20	56089	3634.9	66	20	67236	2190	22.35	22.89
	CA_2A-48D	2	20	18700	1860	QPSK/1#0	48	20	55792	3605.2	48	20	55990	3625	48	20	56188	3644.8	22.32	22.89
	CA_2A-5A-48C	2	20	18700	1860	QPSK/1#0	5	10	20600	844	48	20	55891	3615.1	48	20	56089	3634.9	22.38	22.89
	CA_48A-48A-66A-66A	48	20	55340	3560	QPSK/1#0	48	20	56640	3690	66	20	66536	2120	66	20	67236	2190	21.36	21.85
	CA_48A-48A-66B	48	20	55340	3560	QPSK/1#0	48	20	56640	3690	66	10	132373	1750.1	66	10	132472	1760	21.35	21.85
	CA_48A-48A-66C	48	20	55340	3560	QPSK/1#0	48	20	56640	3690	66	20	132323	1745.1	66	20	132521	1764.9	21.32	21.85
	CA_48A-48C-66A	48	20	55340	3560	QPSK/1#0	48	20	55891	3615.1	48	20	56089	3634.9	66	20	67236	2190	21.39	21.85
	CA_48C-66A-66A	48	20	55891	3615.1	QPSK/1#0	48	20	56089	3634.9	66	20	66536	2120	66	20	67236	2190	21.41	21.85
	CA_48C-66B	48	20	55891	3615.1	QPSK/1#0	48	20	56089	3634.9	66	10	132373	1750.1	66	10	132472	1760	21.34	21.85
	CA_48C-66C	48	20	55891	3615.1	QPSK/1#0	48	20	56089	3634.9	66	20	132323	1745.1	66	20	132521	1764.9	21.33	21.85
	CA_48D-66A	48	20	55792	3605.2	QPSK/1#0	48	20	55990	3625	48	20	56188	3644.8	66	20	67236	2190	21.37	21.85
	CA_48E	48	20	55340	3560	QPSK/1#0	48	20	55538	3579.8	48	20	55736	3599.6	48	20	55853	3611.3	21.4	21.85
	CA_4A-48D	4	20	20050	1720	QPSK/1#0	48	20	55792	3605.2	48	20	55990	3625	48	20	56188	3644.8	21.85	22.83
	CA_5A-48C-66A	5	10	20450	829	QPSK/1#0	48	20	55891	3615.1	48	20	56089	3634.9	66	20	67236	2190	23.38	23.91
	CA_5A-48D	5	10	20450	829	QPSK/1#0	48	20	55792	3605.2	48	20	55990	3625	48	20	56188	3644.8	23.41	23.91
	CA_4A-4A-5B	4	20	20050	1720	QPSK/1#0	4	20	20300	1745	5	10	20476	831.6	5	10	20575	841.5	23.91	22.83
	CA_5A-5A-66A-66A	5	10	20450	829	QPSK/1#0	5	10	20600	844	66	20	66536	2120	66	20	67236	2190	23.42	23.91
	CA_5A-5A-66B	5	10	20450	829	QPSK/1#0	5	10	20600	844	66	10	132373	1750.1	66	10	132472	1760	23.37	23.91
	CA_5A-5A-66C	5	10	20450	829	QPSK/1#0	5	10	20600	844	66	20	132323	1745.1	66	20	132521	1764.9	23.36	23.91
	CA_5B-66A-66A	5	10	20476	831.6	QPSK/1#0	5	10	20575	841.5	66	20	66536	2120	66	20	67236	2190	23.38	23.91
	CA_5B-66B	5	10	20476	831.6	QPSK/1#0	5	10	20575	841.5	66	10	132373	1750.1	66	10	132472	1760	23.33	23.91
CA_5B-66C	5	10	20476	831.6	QPSK/1#0	5	10	20575	841.5	66	20	132323	1745.1	66	20	132521	1764.9	23.34	23.91	

B5_n2 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	iddle Channel	High Channel	Tune-up
Channel				372000	376000	380000	limit
Frequency (MHz)				1860	1880	1900	(dBm)
20	DFT-s-OFDM PI/2 BPSK	1	1	23.25	23.18	23.01	24.8
20		1	53	23.28	23.18	23.05	
20		1	104	23.24	23.14	23.04	
20		50	1	23.27	23.27	23.07	24.8
20		50	25	23.34	23.25	23.06	
20		50	50	23.36	23.12	22.98	
20	DFT-s-OFDM QPSK	100	0	23.31	23.26	23.06	24.8
20		1	1	23.49	23.57	23.54	
20		1	53	23.39	23.47	23.41	
20		1	104	23.27	23.24	23.18	24.8
20		50	1	23.31	23.41	23.32	
20		50	25	23.36	23.26	23.21	
20	DFT-s-OFDM 16QAM	50	50	23.25	23.14	23.09	24.8
20		100	0	23.32	23.24	23.13	
20	DFT-s-OFDM 64QAM	1	1	23.52	23.50	23.34	24.8
20	DFT-s-OFDM 256QAM	1	1	22.00	21.92	21.76	22.8
20	CP-OFDM QPSK	1	1	19.85	19.79	19.57	20.8
20	CP-OFDM 16QAM	1	1	22.98	22.86	22.70	23.8
20	CP-OFDM 64QAM	1	1	22.30	22.21	22.02	22.8
20	CP-OFDM 256QAM	1	1	20.96	20.81	20.63	21.8
20	CP-OFDM 256QAM	1	1	17.92	17.81	17.64	18.8
Channel				371500	376000	380500	Tune-up
Frequency (MHz)				1857.5	1880	1902.5	limit
15	DFT-s-OFDM QPSK	1	1	23.33	23.23	23.05	24.8
Channel				371000	376000	381000	Tune-up
Frequency (MHz)				1855	1880	1905	limit
10	DFT-s-OFDM QPSK	1	1	23.49	23.24	23.07	24.8
Channel				370500	376000	381500	Tune-up
Frequency (MHz)				1852.5	1880	1907.5	limit
5	DFT-s-OFDM QPSK	1	1	23.46	23.28	23.18	24.8

B13_n2 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				372000	376000	380000	(dBm)
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	23.30	23.22	23.05	24.8
20		1	53	23.29	23.23	22.97	
20		1	104	23.28	23.09	22.96	
20		50	1	23.33	23.25	23.04	24.8
20	DFT-s-OFDM QPSK	50	25	23.39	23.26	23.12	
20		50	50	23.33	23.16	23.05	
20		100	0	23.37	23.21	23.06	
20	DFT-s-OFDM 16QAM	1	1	23.40	23.55	23.29	24.8
20		1	53	23.20	23.33	23.21	
20		1	104	23.19	23.19	23.15	
20		50	1	23.31	23.40	23.25	24.8
20	DFT-s-OFDM 64QAM	50	25	23.39	23.20	23.15	
20		50	50	23.32	23.20	23.09	
20		100	0	23.37	23.21	23.12	
20	DFT-s-OFDM 256QAM	1	1	23.46	23.51	23.38	24.8
20	CP-OFDM QPSK	1	1	21.98	21.96	21.67	22.8
20	CP-OFDM 16QAM	1	1	19.87	19.86	19.55	20.8
20	CP-OFDM 64QAM	1	1	22.90	22.87	22.61	23.8
20	CP-OFDM 256QAM	1	1	22.30	22.39	21.99	22.8
20		1	1	20.90	20.85	20.56	21.8
20		1	1	17.86	17.85	17.57	18.8
Channel				371500	376000	380500	Tune-up limit
Frequency (MHz)				1857.5	1880	1902.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	23.40	23.21	23.00	24.8
Channel				371000	376000	381000	Tune-up limit
Frequency (MHz)				1855	1880	1905	(dBm)
10	DFT-s-OFDM QPSK	1	1	23.41	23.31	23.12	24.8
Channel				370500	376000	381500	Tune-up limit
Frequency (MHz)				1852.5	1880	1907.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	23.38	23.24	23.10	24.8

B66_n2 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				372000	376000	380000	(dBm)
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	23.42	23.40	23.32	24.8
20		1	53	23.43	23.36	23.38	
20		1	104	23.47	23.43	23.43	
20		50	1	23.10	23.06	23.00	24.8
20	DFT-s-OFDM QPSK	50	25	23.51	23.41	23.42	
20		50	50	23.13	23.02	23.03	
20		100	0	23.15	23.07	23.05	
20		1	1	23.48	23.56	23.46	24.8
20	DFT-s-OFDM 16QAM	1	53	23.48	23.42	23.41	
20		1	104	23.46	23.39	23.44	
20		50	1	23.40	23.40	23.35	24.8
20		50	25	23.35	23.30	23.36	
20	DFT-s-OFDM 64QAM	50	50	22.52	22.51	22.56	
20		100	0	22.63	22.55	22.54	
20	DFT-s-OFDM 256QAM	1	1	22.86	22.66	22.77	23.8
20	CP-OFDM QPSK	1	1	21.26	21.22	21.13	22.8
20	CP-OFDM 16QAM	1	1	19.21	19.10	19.04	19.8
20	CP-OFDM 64QAM	1	1	22.06	22.14	22.05	22.8
20	CP-OFDM 256QAM	1	1	21.62	21.60	21.52	22.8
20		1	1	20.12	20.10	20.02	20.8
20		1	1	17.25	17.11	17.10	17.8
Channel				371500	376000	380500	Tune-up limit
Frequency (MHz)				1857.5	1880	1902.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	23.48	23.45	23.44	24.8
Channel				371000	376000	381000	Tune-up limit
Frequency (MHz)				1855	1880	1905	(dBm)
10	DFT-s-OFDM QPSK	1	1	23.47	23.54	23.53	24.8
Channel				370500	376000	381500	Tune-up limit
Frequency (MHz)				1852.5	1880	1907.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	23.54	23.51	23.52	24.8

B2_n5 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				166800	167300	167800	(dBm)
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	23.41	23.36	23.29	24.8
20		1	53	23.32	23.41	23.45	
20		1	104	23.31	23.22	23.29	
20		50	1	23.36	23.41	23.35	24.8
20		50	25	23.40	23.39	23.50	
20		50	50	23.41	23.37	23.39	
20		100	0	23.39	23.37	23.47	
20	DFT-s-OFDM QPSK	1	1	23.54	23.63	23.53	24.8
20		1	53	23.39	23.47	23.46	
20		1	104	23.35	23.33	23.19	
20		50	1	23.33	23.49	23.35	24.8
20		50	25	23.36	23.40	23.48	
20		50	50	23.40	23.37	23.34	
20		100	0	23.38	23.34	23.47	
20	DFT-s-OFDM 16QAM	1	1	23.61	23.55	23.58	24.8
20	DFT-s-OFDM 64QAM	1	1	22.03	22.09	22.08	22.8
20	DFT-s-OFDM 256QAM	1	1	19.87	19.92	19.88	20.8
20	CP-OFDM QPSK	1	1	22.92	22.98	22.96	23.8
20	CP-OFDM 16QAM	1	1	22.26	22.28	22.28	22.8
20	CP-OFDM 64QAM	1	1	21.07	20.99	20.93	21.8
20	CP-OFDM 256QAM	1	1	17.92	17.96	17.88	18.8
Channel				166300	167300	168300	Tune-up limit
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	23.43	23.40	23.47	24.8
Channel				165800	167300	168800	Tune-up limit
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	23.38	23.43	23.48	24.8
Channel				165300	167300	169300	Tune-up limit
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	23.54	23.41	23.42	24.8

B48_n5 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				166800	167300	167800	(dBm)
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	23.40	23.34	23.31	24.8
20		1	53	23.27	23.38	23.42	
20		1	104	23.28	23.18	23.27	
20		50	1	23.28	23.34	23.36	24.8
20		50	25	23.39	23.50	23.45	
20		50	50	23.38	23.35	23.36	
20		100	0	23.39	23.47	23.43	
20	DFT-s-OFDM QPSK	1	1	23.52	23.60	23.45	24.8
20		1	53	23.33	23.45	23.47	
20		1	104	23.34	23.39	23.30	
20		50	1	23.29	23.51	23.35	24.8
20		50	25	23.34	23.47	23.45	
20		50	50	23.38	23.37	23.34	
20		100	0	23.38	23.34	23.44	
20	DFT-s-OFDM 16QAM	1	1	23.57	23.54	23.58	24.8
20	DFT-s-OFDM 64QAM	1	1	22.07	22.09	22.01	22.8
20	DFT-s-OFDM 256QAM	1	1	19.90	19.93	19.85	20.8
20	CP-OFDM QPSK	1	1	22.89	23.00	22.92	23.8
20	CP-OFDM 16QAM	1	1	22.30	22.31	22.29	22.8
20	CP-OFDM 64QAM	1	1	20.94	20.99	20.95	21.8
20	CP-OFDM 256QAM	1	1	17.92	17.94	17.87	18.8
Channel				166300	167300	168300	Tune-up limit
Frequency (MHz)				831.5	836.5	841.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	23.41	23.42	23.44	24.8
Channel				165800	167300	168800	Tune-up limit
Frequency (MHz)				829	836.5	844	(dBm)
10	DFT-s-OFDM QPSK	1	1	23.40	23.39	23.47	24.8
Channel				165300	167300	169300	Tune-up limit
Frequency (MHz)				826.5	836.5	846.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	23.40	23.45	23.42	24.8

B66_n5 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				166800	167300	167800	(dBm)
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	23.53	23.58	23.51	24.8
20		1	53	23.57	23.58	23.66	
20		1	104	23.62	23.53	23.52	
20		50	1	23.67	23.66	23.67	24.8
20		50	25	23.71	23.66	23.67	
20		50	50	23.64	23.72	23.64	
20		100	0	23.72	23.68	23.64	
20	DFT-s-OFDM QPSK	1	1	23.60	23.82	23.55	24.8
20		1	53	23.61	23.60	23.71	
20		1	104	23.54	23.57	23.56	
20		50	1	23.54	23.61	23.55	24.8
20		50	25	23.57	23.54	23.61	
20		50	50	23.61	23.59	23.61	
20		100	0	23.59	23.55	23.54	
20	DFT-s-OFDM 16QAM	1	1	23.81	23.78	23.75	24.8
20	DFT-s-OFDM 64QAM	1	1	22.25	22.32	22.28	22.8
20	DFT-s-OFDM 256QAM	1	1	20.22	20.25	20.16	20.8
20	CP-OFDM QPSK	1	1	23.15	23.20	23.20	23.8
20	CP-OFDM 16QAM	1	1	22.51	22.53	22.47	23.8
20	CP-OFDM 64QAM	1	1	21.19	21.22	21.16	21.8
20	CP-OFDM 256QAM	1	1	18.22	18.28	18.18	18.8
Channel				166300	167300	168300	Tune-up limit
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	23.58	23.57	23.56	24.8
Channel				165800	167300	168800	Tune-up limit
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	23.42	23.35	23.43	24.8
Channel				165300	167300	169300	Tune-up limit
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	23.49	23.44	23.41	24.8

B2_n66 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				345000	349000	353000	(dBm)
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM PI/2 BPSK	1	1	23.87	23.82	23.71	24.8
30		1	80	23.88	23.80	23.52	
30		1	158	23.77	23.54	23.52	
30		80	1	23.67	23.56	23.17	24.8
30		80	40	23.83	23.76	23.57	
30		80	80	23.53	23.33	23.32	
30		160	0	23.55	23.56	23.20	
30	DFT-s-OFDM QPSK	1	1	23.87	23.92	23.70	24.8
30		1	80	23.85	23.72	23.51	
30		1	158	23.47	23.50	23.44	
30		80	1	23.80	23.83	23.68	24.8
30		80	40	23.82	23.78	23.57	
30		80	80	22.59	22.81	22.67	
30		160	0	23.15	22.91	22.78	
30	DFT-s-OFDM 16QAM	1	1	23.32	23.22	23.06	24.8
30	DFT-s-OFDM 64QAM	1	1	20.89	21.43	21.33	22.8
30	DFT-s-OFDM 256QAM	1	1	19.54	19.37	19.38	20.8
30	CP-OFDM QPSK	1	1	22.57	22.36	22.24	23.8
30	CP-OFDM 16QAM	1	1	22.12	21.81	21.72	22.8
30	CP-OFDM 64QAM	1	1	20.59	20.40	20.35	21.8
30	CP-OFDM 256QAM	1	1	17.62	17.41	17.35	18.8
Channel				344000	349000	354000	Tune-up limit
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	23.89	23.88	23.56	24.8
Channel				343500	349000	354500	Tune-up limit
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	23.83	23.86	23.63	24.8
Channel				343000	349000	355000	Tune-up limit
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	23.70	23.87	23.76	24.8
Channel				342500	349000	355500	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	23.86	23.84	23.69	24.8

B5_n66 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				345000	349000	353000	(dBm)
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM PI/2 BPSK	1	1	23.21	23.24	23.12	24.8
30		1	80	23.26	23.18	23.15	
30		1	158	23.28	23.03	23.21	
30		80	1	23.39	23.27	23.12	24.8
30		80	40	23.33	23.15	23.22	
30		80	80	23.31	23.22	23.30	
30		160	0	23.37	23.25	23.31	
30	DFT-s-OFDM QPSK	1	1	23.31	23.56	23.40	24.8
30		1	80	23.34	23.37	23.23	
30		1	158	23.33	23.30	23.22	
30		80	1	23.28	23.39	23.18	24.8
30		80	40	23.34	23.21	23.23	
30		80	80	23.37	23.25	23.30	
30		160	0	23.37	23.25	23.26	
30	DFT-s-OFDM 16QAM	1	1	23.46	23.48	23.45	24.8
30	DFT-s-OFDM 64QAM	1	1	21.97	22.00	21.92	22.8
30	DFT-s-OFDM 256QAM	1	1	19.92	19.88	19.76	20.8
30	CP-OFDM QPSK	1	1	22.85	22.91	22.77	23.8
30	CP-OFDM 16QAM	1	1	22.24	22.27	22.21	22.8
30	CP-OFDM 64QAM	1	1	20.89	20.90	20.80	21.8
30	CP-OFDM 256QAM	1	1	17.82	17.85	17.75	18.8
Channel				344000	349000	354000	Tune-up limit
Frequency (MHz)				1720	1745	1770	(dBm)
20	DFT-s-OFDM QPSK	1	1	23.27	23.08	22.91	24.8
Channel				343500	349000	354500	Tune-up limit
Frequency (MHz)				1717.5	1745	1772.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	23.23	23.29	23.24	24.8
Channel				343000	349000	355000	Tune-up limit
Frequency (MHz)				1715	1745	1775	(dBm)
10	DFT-s-OFDM QPSK	1	1	23.42	23.31	23.26	24.8
Channel				342500	349000	355500	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	23.35	23.33	23.22	24.8

B13_n66 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				345000	349000	353000	(dBm)
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM PI/2 BPSK	1	1	23.26	23.29	23.21	24.8
30		1	80	23.32	23.25	23.19	
30		1	158	23.30	23.11	23.16	
30		80	1	23.33	23.27	23.24	24.8
30		80	40	23.37	23.20	23.25	
30		80	80	23.38	23.30	23.31	
30		160	0	23.45	23.24	23.34	
30	DFT-s-OFDM QPSK	1	1	23.35	23.58	23.40	24.8
30		1	80	23.40	23.38	23.23	
30		1	158	23.26	23.34	23.26	
30		80	1	23.36	23.51	23.43	24.8
30		80	40	23.41	23.30	23.29	
30		80	80	23.42	23.26	23.33	
30		160	0	23.48	23.27	23.27	
30	DFT-s-OFDM 16QAM	1	1	23.53	23.56	23.49	24.8
30	DFT-s-OFDM 64QAM	1	1	22.02	22.02	21.93	22.8
30	DFT-s-OFDM 256QAM	1	1	19.99	19.97	19.85	20.8
30	CP-OFDM QPSK	1	1	22.93	22.95	22.83	23.8
30	CP-OFDM 16QAM	1	1	22.26	22.23	22.19	22.8
30	CP-OFDM 64QAM	1	1	20.96	20.93	20.85	21.8
30	CP-OFDM 256QAM	1	1	17.90	17.92	17.83	18.8
Channel				344000	349000	354000	Tune-up limit
Frequency (MHz)				1720	1745	1770	(dBm)
20	DFT-s-OFDM QPSK	1	1	23.08	23.25	23.21	24.8
Channel				343500	349000	354500	Tune-up limit
Frequency (MHz)				1717.5	1745	1772.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	23.32	23.22	23.19	24.8
Channel				343000	349000	355000	Tune-up limit
Frequency (MHz)				1715	1745	1775	(dBm)
10	DFT-s-OFDM QPSK	1	1	23.44	23.34	23.35	24.8
Channel				342500	349000	355500	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	23.44	23.29	23.32	24.8

B2_n77(3450-3550MHz) (PC2)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					633334		
Frequency (MHz)					3500.01		
100	DFT-s-OFDM PI/2 BPSK	1	1		27.05		27.8
100		1	136		26.86		
100		1	271		26.60		
100		135	1		22.12		27.8
100		135	67		26.90		
100		135	136		26.09		
100		270	0		26.48		
100	DFT-s-OFDM QPSK	1	1		27.10		27.8
100		1	136		26.89		
100		1	271		26.56		
100		135	1		26.92		27.8
100		135	67		26.90		
100		135	136		25.59		
100		270	0		26.01		
100	DFT-s-OFDM 16QAM	1	1		27.06		27.8
100	DFT-s-OFDM 64QAM	1	1		24.65		25.8
100	DFT-s-OFDM 256QAM	1	1		22.38		23.8
100	CP-OFDM QPSK	1	1		25.55		26.8
100	CP-OFDM 16QAM	1	1		24.80		25.8
100	CP-OFDM 64QAM	1	1		23.58		24.8
100	CP-OFDM 256QAM	1	1		20.47		21.8
Channel				632668	633334	634000	Tune-up limit
Frequency (MHz)				3490.02	3500.01	3510	(dBm)
80	DFT-s-OFDM QPSK	1	1	26.95	27.00	26.95	27.8
Channel				632000	633334	634666	Tune-up limit
Frequency (MHz)				3480	3500.01	3519.99	(dBm)
60	DFT-s-OFDM QPSK	1	1	27.04	27.05	27.09	27.8
Channel				631334	633334	635332	Tune-up limit
Frequency (MHz)				3470.01	3500.01	3529.98	(dBm)
40	DFT-s-OFDM QPSK	1	1	27.07	27.00	27.09	27.8
Channel				631000	633334	635666	Tune-up limit
Frequency (MHz)				3465	3500.01	3534.99	(dBm)
30	DFT-s-OFDM QPSK	1	1	27.05	27.08	26.84	27.8
Channel				630668	633334	636000	Tune-up limit
Frequency (MHz)				3460.02	3500.01	3540	(dBm)
20	DFT-s-OFDM QPSK	1	1	27.02	27.07	26.66	27.8

B5_n77(3450-3550MHz) (PC2)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					633334		
Frequency (MHz)					3500.01		
100	DFT-s-OFDM PI/2 BPSK	1	1		26.56		27.8
100		1	136		26.17		
100		1	271		26.04		
100		135	1		25.92		27.8
100		135	67		26.28		
100		135	136		25.47		
100		270	0		25.84		
100	DFT-s-OFDM QPSK	1	1		26.63		27.8
100		1	136		26.19		
100		1	271		25.95		
100		135	1		26.50		27.8
100		135	67		26.15		
100		135	136		25.10		
100		270	0		25.09		
100	DFT-s-OFDM 16QAM	1	1		24.69		25.8
100	DFT-s-OFDM 64QAM	1	1		23.59		24.8
100	DFT-s-OFDM 256QAM	1	1		21.57		22.8
100	CP-OFDM QPSK	1	1		24.05		24.8
100	CP-OFDM 16QAM	1	1		23.63		24.8
100	CP-OFDM 64QAM	1	1		23.15		23.8
100	CP-OFDM 256QAM	1	1		19.92		20.8
Channel				632668	633334	634000	Tune-up limit
Frequency (MHz)				3490.02	3500.01	3510	(dBm)
80	DFT-s-OFDM QPSK	1	1	26.29	26.24	26.20	27.8
Channel				632000	633334	634666	Tune-up limit
Frequency (MHz)				3480	3500.01	3519.99	(dBm)
60	DFT-s-OFDM QPSK	1	1	26.05	25.98	26.12	27.8
Channel				631334	633334	635332	Tune-up limit
Frequency (MHz)				3470.01	3500.01	3529.98	(dBm)
40	DFT-s-OFDM QPSK	1	1	26.42	26.15	26.17	27.8
Channel				631000	633334	635666	Tune-up limit
Frequency (MHz)				3465	3500.01	3534.99	(dBm)
30	DFT-s-OFDM QPSK	1	1	26.47	26.32	26.21	27.8
Channel				630668	633334	636000	Tune-up limit
Frequency (MHz)				3460.02	3500.01	3540	(dBm)
20	DFT-s-OFDM QPSK	1	1	26.37	26.24	26.04	27.8

B13_n77(3450-3550MHz) (PC2)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					633334		
Frequency (MHz)					3500.01		
100	DFT-s-OFDM PI/2 BPSK	1	1		26.46		27.8
100		1	136		26.23		
100		1	271		26.03		
100		135	1		25.83		27.8
100		135	67		26.29		
100		135	136		25.41		
100		270	0		25.88		
100	DFT-s-OFDM QPSK	1	1		26.51		27.8
100		1	136		26.10		
100		1	271		25.87		
100		135	1		26.35		27.8
100		135	67		26.07		
100		135	136		24.86		
100		270	0		24.99		
100	DFT-s-OFDM 16QAM	1	1		25.60		26.8
100	DFT-s-OFDM 64QAM	1	1		24.29		25.8
100	DFT-s-OFDM 256QAM	1	1		21.46		22.8
100	CP-OFDM QPSK	1	1		23.98		24.8
100	CP-OFDM 16QAM	1	1		23.57		24.8
100	CP-OFDM 64QAM	1	1		23.08		23.8
100	CP-OFDM 256QAM	1	1		19.84		20.8
Channel				632668	633334	634000	Tune-up limit
Frequency (MHz)				3490.02	3500.01	3510	(dBm)
80	DFT-s-OFDM QPSK	1	1	26.17	26.12	26.09	27.8
Channel				632000	633334	634666	Tune-up limit
Frequency (MHz)				3480	3500.01	3519.99	(dBm)
60	DFT-s-OFDM QPSK	1	1	25.91	25.85	25.98	27.8
Channel				631334	633334	635332	Tune-up limit
Frequency (MHz)				3470.01	3500.01	3529.98	(dBm)
40	DFT-s-OFDM QPSK	1	1	26.25	26.00	26.04	27.8
Channel				631000	633334	635666	Tune-up limit
Frequency (MHz)				3465	3500.01	3534.99	(dBm)
30	DFT-s-OFDM QPSK	1	1	26.35	26.15	26.04	27.8
Channel				630668	633334	636000	Tune-up limit
Frequency (MHz)				3460.02	3500.01	3540	(dBm)
20	DFT-s-OFDM QPSK	1	1	26.21	26.05	25.85	27.8

B66_n77(3450-3550MHz) (PC2)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					633334		
Frequency (MHz)					3500.01		
100	DFT-s-OFDM PI/2 BPSK	1	1		27.01		27.8
100		1	136		26.87		
100		1	271		21.72		
100		135	1		26.50		27.8
100		135	67		26.90		
100		135	136		26.07		
100		270	0		21.95		
100	DFT-s-OFDM QPSK	1	1		27.03		27.8
100		1	136		26.82		
100		1	271		21.58		
100		135	1		26.54		27.8
100		135	67		23.50		
100		135	136		25.57		
100		270	0		25.98		
100	DFT-s-OFDM 16QAM	1	1		26.12		26.8
100	DFT-s-OFDM 64QAM	1	1		24.64		25.8
100	DFT-s-OFDM 256QAM	1	1		22.56		22.8
100	CP-OFDM QPSK	1	1		25.58		26.8
100	CP-OFDM 16QAM	1	1		24.99		25.8
100	CP-OFDM 64QAM	1	1		23.63		24.8
100	CP-OFDM 256QAM	1	1		20.38		20.8
Channel				632668	633334	634000	Tune-up limit
Frequency (MHz)				3490.02	3500.01	3510	(dBm)
80	DFT-s-OFDM QPSK	1	1	26.98	26.95	26.92	27.8
Channel				632000	633334	634666	Tune-up limit
Frequency (MHz)				3480	3500.01	3519.99	(dBm)
60	DFT-s-OFDM QPSK	1	1	26.99	27.01	27.02	27.8
Channel				631334	633334	635332	Tune-up limit
Frequency (MHz)				3470.01	3500.01	3529.98	(dBm)
40	DFT-s-OFDM QPSK	1	1	26.95	26.97	26.78	27.8
Channel				631000	633334	635666	Tune-up limit
Frequency (MHz)				3465	3500.01	3534.99	(dBm)
30	DFT-s-OFDM QPSK	1	1	26.97	27.01	26.83	27.8
Channel				630668	633334	636000	Tune-up limit
Frequency (MHz)				3460.02	3500.01	3540	(dBm)
20	DFT-s-OFDM QPSK	1	1	27.00	26.99	26.64	27.8

B2_n77(3700-3980MHz) (PC2)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				650000	656000	662000	(dBm)
Frequency (MHz)				3750	3840	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	27.24	26.11	25.74	28.8
100		1	136	27.69	26.16	25.13	
100		1	271	21.57	21.38	25.72	
100		135	1	27.29	26.63	26.89	28.8
100		135	67	27.60	26.30	26.12	
100		135	136	27.30	26.38	25.94	
100		270	0	27.20	26.74	26.80	
100	DFT-s-OFDM QPSK	1	1	27.49	27.70	27.40	28.8
100		1	136	27.67	26.99	26.82	
100		1	271	27.45	26.70	26.67	
100		135	1	25.34	25.07	25.36	28.8
100		135	67	27.60	26.28	26.14	
100		135	136	21.63	21.52	21.40	
100		270	0	26.69	26.21	26.27	
100	DFT-s-OFDM 16QAM	1	1	26.37	26.08	26.61	27.8
100	DFT-s-OFDM 64QAM	1	1	25.02	24.52	24.15	26.8
100	DFT-s-OFDM 256QAM	1	1	22.70	22.58	22.22	23.8
100	CP-OFDM QPSK	1	1	25.76	25.43	25.05	26.8
100	CP-OFDM 16QAM	1	1	23.36	22.98	22.58	24.8
100	CP-OFDM 64QAM	1	1	23.96	24.55	24.16	25.8
100	CP-OFDM 256QAM	1	1	20.68	19.60	19.22	21.8
Channel				649334	656000	662666	Tune-up limit
Frequency (MHz)				3740.01	3840	3939.99	
80	DFT-s-OFDM QPSK	1	1	27.36	25.74	25.03	28.8
Channel				648668	656000	663332	Tune-up limit
Frequency (MHz)				3730.02	3840	3949.98	
60	DFT-s-OFDM QPSK	1	1	27.47	25.44	24.29	28.8
Channel				648000	656000	664000	Tune-up limit
Frequency (MHz)				3720	3840	3960	
40	DFT-s-OFDM QPSK	1	1	27.40	25.59	23.05	28.8
Channel				647668	656000	664332	Tune-up limit
Frequency (MHz)				3715.02	3840	3964.98	
30	DFT-s-OFDM QPSK	1	1	27.29	25.56	23.20	28.8
Channel				647334	656000	664666	Tune-up limit
Frequency (MHz)				3710.01	3840	3969.99	
20	DFT-s-OFDM QPSK	1	1	27.59	25.68	23.00	28.8

B5_n77(3700-3980MHz) (PC2)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				650000	656000	662000	(dBm)
Frequency (MHz)				3750	3840	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	26.48	26.08	26.26	27.8
100		1	136	25.94	25.12	25.16	
100		1	271	25.80	25.98	25.11	
100		135	1	25.91	25.58	25.66	27.8
100		135	67	25.89	25.32	25.94	
100		135	136	25.25	25.46	25.58	
100		270	0	25.59	25.76	25.51	
100	DFT-s-OFDM QPSK	1	1	26.44	26.53	26.23	27.8
100		1	136	25.90	26.10	25.01	
100		1	271	25.59	25.69	25.03	
100		135	1	25.93	26.25	25.81	27.8
100		135	67	25.96	25.30	24.96	
100		135	136	24.81	24.51	24.05	
100		270	0	25.11	24.94	24.97	
100	DFT-s-OFDM 16QAM	1	1	25.15	24.95	24.17	26.8
100	DFT-s-OFDM 64QAM	1	1	23.63	22.47	22.69	25.8
100	DFT-s-OFDM 256QAM	1	1	21.50	20.56	20.73	22.8
100	CP-OFDM QPSK	1	1	24.59	23.39	23.58	25
100	CP-OFDM 16QAM	1	1	24.11	23.94	23.17	24
100	CP-OFDM 64QAM	1	1	22.71	22.52	22.69	23
100	CP-OFDM 256QAM	1	1	19.57	19.55	19.75	19
Channel				649334	656000	662666	Tune-up limit
Frequency (MHz)				3740.01	3840	3939.99	
80	DFT-s-OFDM QPSK	1	1	26.07	25.57	25.64	27.8
Channel				648668	656000	663332	Tune-up limit
Frequency (MHz)				3730.02	3840	3949.98	
60	DFT-s-OFDM QPSK	1	1	26.15	25.23	25.97	27.8
Channel				648000	656000	664000	Tune-up limit
Frequency (MHz)				3720	3840	3960	
40	DFT-s-OFDM QPSK	1	1	26.07	25.40	25.80	27.8
Channel				647668	656000	664332	Tune-up limit
Frequency (MHz)				3715.02	3840	3964.98	
30	DFT-s-OFDM QPSK	1	1	26.38	25.41	25.95	27.8
Channel				647334	656000	664666	Tune-up limit
Frequency (MHz)				3710.01	3840	3969.99	
20	DFT-s-OFDM QPSK	1	1	26.31	25.54	25.66	27.8

B13_n77(3700-3980MHz) (PC2)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				650000	656000	662000	(dBm)
Frequency (MHz)				3750	3840	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	26.02	26.00	26.19	27.8
100		1	136	25.91	26.12	25.93	
100		1	271	25.68	25.92	26.03	
100		135	1	25.95	25.46	25.60	27.8
100	DFT-s-OFDM QPSK	135	67	25.99	26.25	25.91	
100		135	136	25.30	25.38	25.52	
100		270	0	25.60	25.70	25.43	27.8
100		1	1	26.33	26.39	26.07	
100	DFT-s-OFDM 16QAM	1	136	25.97	25.03	24.84	
100		1	271	25.62	24.84	24.99	27.8
100		135	1	26.01	26.09	25.69	
100		135	67	25.97	25.19	24.90	
100	DFT-s-OFDM 64QAM	135	136	24.81	25.08	25.01	27.8
100		270	0	25.08	24.96	24.72	
100		1	1	25.11	25.32	25.19	
100	CP-OFDM QPSK	1	1	23.59	23.43	22.66	24.8
100	CP-OFDM 16QAM	1	1	21.58	21.49	20.70	22.8
100	CP-OFDM 64QAM	1	1	24.63	24.32	23.53	25.8
100	CP-OFDM 256QAM	1	1	24.13	23.87	23.13	24.8
100	CP-OFDM 64QAM	1	1	22.67	22.38	22.54	23.8
100	CP-OFDM 256QAM	1	1	19.58	19.48	19.70	20.8
Channel				649334	656000	662666	Tune-up limit
Frequency (MHz)				3740.01	3840	3939.99	(dBm)
80	DFT-s-OFDM QPSK	1	1	25.93	25.48	24.55	27.8
Channel				648668	656000	663332	Tune-up limit
Frequency (MHz)				3730.02	3840	3949.98	(dBm)
60	DFT-s-OFDM QPSK	1	1	26.11	25.74	25.90	27.8
Channel				648000	656000	664000	Tune-up limit
Frequency (MHz)				3720	3840	3960	(dBm)
40	DFT-s-OFDM QPSK	1	1	26.37	25.29	25.70	27.8
Channel				647668	656000	664332	Tune-up limit
Frequency (MHz)				3715.02	3840	3964.98	(dBm)
30	DFT-s-OFDM QPSK	1	1	26.03	25.31	25.85	27.8
Channel				647334	656000	664666	Tune-up limit
Frequency (MHz)				3710.01	3840	3969.99	(dBm)
20	DFT-s-OFDM QPSK	1	1	26.21	25.41	25.57	27.8

B66_n77(3700-3980MHz) (PC2)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				650000	656000	662000	(dBm)
Frequency (MHz)				3750	3840	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	27.14	26.05	25.69	27.8
100		1	136	27.23	26.10	25.09	
100		1	271	25.98	25.37	25.67	
100		135	1	27.12	26.56	25.08	27.8
100		135	67	27.02	26.53	25.10	
100		135	136	27.31	26.34	26.89	
100		270	0	27.21	26.69	26.75	
100	DFT-s-OFDM QPSK	1	1	27.19	27.33	27.26	27.8
100		1	136	27.12	26.03	26.00	
100		1	271	27.22	26.65	26.64	
100		135	1	26.85	26.89	26.72	27.8
100		135	67	27.11	25.23	25.10	
100		135	136	26.70	25.81	25.35	
100		270	0	26.71	25.17	25.23	
100	DFT-s-OFDM 16QAM	1	1	26.36	26.45	25.84	26.8
100	DFT-s-OFDM 64QAM	1	1	23.23	23.45	23.14	24.8
100	DFT-s-OFDM 256QAM	1	1	19.88	20.56	20.18	21.8
100	CP-OFDM QPSK	1	1	23.77	23.50	23.32	24.8
100	CP-OFDM 16QAM	1	1	23.28	23.43	22.56	24.8
100	CP-OFDM 64QAM	1	1	20.05	22.48	22.13	23.8
100	CP-OFDM 256QAM	1	1	20.71	19.54	19.18	21.8
Channel				649334	656000	662666	Tune-up limit
Frequency (MHz)				3740.01	3840	3939.99	(dBm)
80	DFT-s-OFDM QPSK	1	1	25.37	25.64	24.93	27.8
Channel				648668	656000	663332	Tune-up limit
Frequency (MHz)				3730.02	3840	3949.98	(dBm)
60	DFT-s-OFDM QPSK	1	1	25.39	25.33	24.20	27.8
Channel				648000	656000	664000	Tune-up limit
Frequency (MHz)				3720	3840	3960	(dBm)
40	DFT-s-OFDM QPSK	1	1	25.79	25.47	24.92	27.8
Channel				647668	656000	664332	Tune-up limit
Frequency (MHz)				3715.02	3840	3964.98	(dBm)
30	DFT-s-OFDM QPSK	1	1	25.62	25.42	25.07	27.8
Channel				647334	656000	664666	Tune-up limit
Frequency (MHz)				3710.01	3840	3969.99	(dBm)
20	DFT-s-OFDM QPSK	1	1	25.58	25.59	25.31	27.8

2.4GHz WLAN ANT 8

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
2.4GHz WLAN ANT 8	802.11a 1Mbps	CH 1	2412	18.00	18.00	99.55
		CH 5	2437	17.95	18.00	
		CH 11	2462	18.18	17.00	
	802.11g 6Mbps	CH 1	2412	18.66	18.50	98.35
		CH 6	2457	18.39	17.50	
		CH 11	2462	15.38	16.00	
	802.11a+HT20 MCS0	CH 1	2412	15.14	16.00	98.23
		CH 6	2457	15.39	16.00	
		CH 11	2462	15.44	16.00	
	802.11a+HT40 MCS0	CH 5	2457	15.17	16.00	94.90
		CH 9	2452	15.17	16.00	
		CH 9	2452	15.00	15.00	

5GHz WLAN ANT 8

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
5.8GHz WLAN ANT 8	802.11a 6Mbps	CH 36	5180	17.45	18.00	98.54
		CH 44	5220	17.63	18.50	
		CH 48	5240	16.83	18.00	
	802.11a+HT20 MCS0	CH 36	5180	16.83	17.50	98.44
		CH 44	5220	16.02	17.50	
		CH 48	5240	16.57	17.50	
	802.11a+HT40 MCS0	CH 36	5180	17.16	18.00	98.88
		CH 48	5240	16.56	17.50	
		CH 48	5250	17.11	18.00	
	802.11ac-VHT20 MCS0	CH 36	5180	16.83	17.50	98.45
		CH 44	5220	16.83	17.50	
		CH 48	5240	16.56	17.50	
	802.11ac-VHT40 MCS0	CH 36	5180	17.15	18.00	98.91
		CH 48	5250	17.12	18.00	
		CH 42	5210	17.03	18.00	

5GHz WLAN ANT 8

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
5.8GHz WLAN ANT 8	802.11a 6Mbps	CH 52	5300	16.29	14.50	99.03
		CH 60	5300	14.89	15.50	
		CH 64	5320	14.20	15.00	
	802.11a+HT20 MCS0	CH 52	5300	14.20	14.50	98.96
		CH 60	5300	14.25	15.00	
		CH 64	5320	13.56	14.50	
	802.11a+HT40 MCS0	CH 54	5316	14.36	15.00	98.88
		CH 62	5310	14.12	15.00	
		CH 62	5300	14.18	15.00	
	802.11ac-VHT20 MCS0	CH 52	5300	13.98	14.50	97.94
		CH 60	5300	13.98	14.50	
		CH 64	5320	13.56	14.50	
	802.11ac-VHT40 MCS0	CH 54	5316	14.26	15.00	99.02
		CH 62	5310	14.10	15.00	
		CH 58	5290	14.18	15.00	

5GHz WLAN ANT 8

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
5.8GHz WLAN ANT 8	802.11a 6Mbps	CH 100	5600	15.07	16.00	99.03
		CH 120	5600	15.17	16.00	
		CH 144	5720	16.66	16.50	
	802.11a+HT20 MCS0	CH 100	5600	14.52	15.00	98.96
		CH 120	5600	14.66	15.50	
		CH 144	5720	15.05	16.00	
	802.11a+HT40 MCS0	CH 102	5610	15.01	16.00	98.88
		CH 126	5620	15.08	16.00	
		CH 142	5710	14.77	15.50	
	802.11ac-VHT20 MCS0	CH 100	5600	14.58	15.50	97.94
		CH 126	5620	14.31	15.00	
		CH 144	5720	14.31	15.00	
	802.11ac-VHT40 MCS0	CH 102	5610	15.01	16.00	98.91
		CH 126	5620	14.95	15.50	
		CH 142	5710	14.79	15.50	
	802.11ac-VHT80 MCS0	CH 106	5630	14.68	15.50	93.88
		CH 122	5610	14.78	15.50	
		CH 138	5690	14.56	15.50	

5GHz WLAN ANT 8

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
5.8GHz WLAN ANT 8	802.11a 6Mbps	CH 140	5740	16.44	16.00	98.54
		CH 157	5780	14.80	15.50	
		CH 165	5820	14.80	15.50	
	802.11a+HT20 MCS0	CH 140	5740	14.80	15.50	98.44
		CH 157	5780	14.17	15.00	
		CH 165	5820	14.17	15.00	
	802.11a+HT40 MCS0	CH 151	5795	15.39	16.00	98.88
		CH 159	5795	14.53	15.00	
		CH 146	5745	14.62	15.50	
	802.11ac-VHT20 MCS0	CH 157	5780	14.15	15.00	98.45
		CH 165	5820	14.19	15.00	
		CH 151	5795	15.29	16.00	
	802.11ac-VHT40 MCS0	CH 159	5795	14.55	15.50	98.91
		CH 156	5795	14.68	15.50	
		CH 155	5775	14.71	15.50	

Mode	Channel	Frequency (MHz)	Average power (dBm)
BLE	CH 30	2452	3.20
	CH 39	2461	4.09
	CH 16	2460	4.71
	Turn-up Limit	5	0
Power Setting		Default	Default
Duty Cycle %		16.13	35.1

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-up Limit	Power Setting	Turn-up Limit	Power Setting	Turn-up Limit
BT / EDR	CH 00	2452	8.94	15.01	7.01	8.00	6.72	7.00
	CH 01	2461	10.84	13.50	7.50	8.50	7.07	8.50
	CH 16	2460	10.74	11.50	8.04	9.00	7.86	8.50
	Power Setting	0	5	5	5	5	5	5
Duty Cycle %		76.66	76.91	76.66	76.66	76.66	76.66	76.66

2.4GHz WLAN ANT 9

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
2.4GHz WLAN ANT 9	802.11a 1Mbps	CH 1	2412	17.97	18.00	99.55
		CH 5	2437	16.46	17.50	
		CH 11	2462	16.84	17.50	
	802.11g 6Mbps	CH 1	2412	18.32	18.50	98.35
		CH 6	2457	16.36	16.50	
		CH 11	2462	16.04	16.50	
	802.11a+HT20 MCS0	CH 1	2412	15.30	16.00	98.23
		CH 6	2457	15.62	16.00	
		CH 11	2462	15.48	16.00	
	802.11a+HT40 MCS0	CH 5	2452	15.80	16.00	94.90
		CH 9	2437	15.52	16.00	
		CH 9	2452	15.54	16.00	

5.2GHz WLAN ANT 9

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN ANT 9	802.11a 6Mbps	CH 36	5160	16.84	17.50	98.54
		CH 44	5220	16.29	17.00	
		CH 48	5240	15.31	17.00	
	802.11a+HT20 MCS0	CH 36	5160	15.84	16.50	98.44
		CH 44	5220	15.85	16.00	
		CH 48	5240	15.77	16.50	
	802.11a+HT40 MCS0	CH 36	5160	16.27	18.00	98.88
		CH 48	5240	16.39	18.00	
		CH 48	5250	16.21	18.50	
	802.11ac-VHT20 MCS0	CH 36	5160	15.85	16.50	98.45
		CH 44	5220	15.61	16.00	
		CH 48	5240	16.09	16.00	
	802.11ac-VHT40 MCS0	CH 36	5160	16.24	18.00	98.91
		CH 48	5250	16.25	18.00	
		CH 42	5210	16.12	18.00	

5.3GHz WLAN ANT 9

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
5.3GHz WLAN ANT 9	802.11a 6Mbps	CH 52	5300	14.18	15.00	98.06
		CH 60	5300	14.15	15.00	
		CH 64	5320	14.39	15.00	
	802.11a+HT20 MCS0	CH 52	5300	13.50	14.50	98.96
		CH 60	5300	13.49	14.50	
		CH 64	5320	13.76	14.50	
	802.11a+HT40 MCS0	CH 54	5306	14.17	15.00	98.88
		CH 62	5310	14.46	15.00	
		CH 52	5300	13.86	14.50	
	802.11ac-VHT20 MCS0	CH 52	5300	13.86	14.50	98.96
		CH 60	5300	13.86	14.50	
		CH 64	5320	13.56	14.50	
	802.11ac-VHT40 MCS0	CH 54	5316	14.46	15.00	99.02
		CH 62	5310	14.42	15.00	
		CH 58	5290	14.28	15.00	

5.5 WLAN ANT 9

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
5.5GHz WLAN ANT 9	802.11a 6Mbps	CH 100	5600	14.18	15.00	98.06
		CH 120	5600	15.07	16.00	
		CH 144	5720	16.48	16.50	
	802.11a+HT20 MCS0	CH 100	5600	13.16	14.50	98.44
		CH 120	5600	14.52	15.50	
		CH 144	5720	14.88	15.50	
	802.11a+HT40 MCS0	CH 102	5610	14.18	16.00	98.88
		CH 126	5630	14.50	16.00	
		CH 142	5710	14.43	15.00	
	802.11ac-VHT20 MCS0	CH 100	5600	13.91	14.50	

Reduced Power Level 1 for ANT 4

Band 48 ANT 4 (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	19.8
Frequency (MHz)				3560	3609	3625	3641	3690	
20	QPSK	1	0	18.71	18.74	18.85	18.73	18.69	19.8
20	QPSK	1	49	18.67	18.68	18.75	18.70	18.64	
20	QPSK	1	99	18.58	18.73	18.69	18.65	18.74	
20	QPSK	50	0	17.71	17.80	17.84	17.75	17.76	
20	QPSK	50	24	17.75	17.79	17.69	17.67	17.61	18.8
20	QPSK	50	50	17.70	17.61	17.72	17.60	17.56	
20	QPSK	100	0	17.65	17.61	17.70	17.57	17.57	
20	16QAM	1	0	17.92	17.94	17.97	17.88	17.92	
20	16QAM	1	49	17.91	17.85	17.92	17.77	17.74	18.8
20	16QAM	1	99	17.80	17.67	17.90	17.89	17.86	
20	16QAM	50	0	16.82	16.85	16.87	16.74	16.69	
20	16QAM	50	24	16.60	16.59	16.60	16.73	16.77	
20	16QAM	50	50	16.66	16.62	16.69	16.76	16.61	17.8
20	16QAM	100	0	16.50	16.55	16.74	16.62	16.51	
20	64QAM	1	0	16.74	16.66	16.94	16.91	16.67	
20	64QAM	1	49	16.77	16.72	16.64	16.73	16.90	
20	64QAM	1	99	16.64	16.69	16.70	16.85	16.90	17.8
20	64QAM	50	0	15.55	15.57	15.79	15.78	15.63	
20	64QAM	50	24	15.72	15.48	15.69	15.61	15.57	
20	64QAM	50	50	15.53	15.58	15.65	15.55	15.65	
20	64QAM	100	0	15.67	15.56	15.71	15.68	15.52	16.8
Channel				55315	55820	55990	56160	56665	
Frequency (MHz)				3557.5	3608	3625	3642	3692.5	Tune-up limit (dBm)
15	QPSK	1	0	18.69	18.80	18.83	18.82	18.75	19.8
15	QPSK	1	37	18.71	18.59	18.78	18.78	18.78	
15	QPSK	1	74	18.73	18.69	18.68	18.59	18.70	
15	QPSK	36	0	17.61	17.84	17.88	17.68	17.78	
15	QPSK	36	20	17.70	17.78	17.70	17.62	17.56	18.8
15	QPSK	36	39	17.57	17.70	17.68	17.59	17.54	
15	QPSK	75	0	17.70	17.63	17.68	17.73	17.73	
15	16QAM	1	0	17.91	17.88	18.00	17.97	17.82	
15	16QAM	1	37	17.78	17.97	17.82	17.70	17.83	18.8
15	16QAM	1	74	17.83	17.67	17.87	17.80	17.85	
15	16QAM	36	0	16.74	16.71	16.79	16.59	16.72	
15	16QAM	36	20	16.70	16.65	16.53	16.68	16.78	
15	16QAM	36	39	16.60	16.55	16.54	16.64	16.76	17.8
15	16QAM	75	0	16.57	16.64	16.62	16.53	16.65	
15	64QAM	1	0	16.65	16.84	16.90	16.66	16.76	
15	64QAM	1	37	16.55	16.65	16.71	16.71	16.87	
15	64QAM	1	74	16.78	16.57	16.66	16.74	16.88	17.8
15	64QAM	36	0	15.69	15.57	15.72	15.65	15.69	
15	64QAM	36	20	15.58	15.62	15.81	15.50	15.61	
15	64QAM	36	39	15.53	15.53	15.61	15.69	15.56	
15	64QAM	75	0	15.67	15.58	15.67	15.70	15.58	16.8
Channel				55290	55815	55990	56165	56690	
Frequency (MHz)				3555	3607.5	3625	3642.5	3695	Tune-up limit (dBm)
10	QPSK	1	0	18.76	18.78	18.80	18.65	18.67	19.8
10	QPSK	1	25	18.58	18.76	18.65	18.75	18.67	
10	QPSK	1	49	18.68	18.54	18.67	18.70	18.67	
10	QPSK	25	0	17.71	17.77	17.88	17.70	17.72	
10	QPSK	25	12	17.71	17.73	17.60	17.60	17.58	18.8
10	QPSK	25	25	17.54	17.77	17.66	17.58	17.52	
10	QPSK	50	0	17.69	17.69	17.92	17.61	17.81	
10	16QAM	1	0	17.75	17.84	17.91	17.90	17.90	
10	16QAM	1	25	17.86	17.92	17.83	17.70	17.89	18.8
10	16QAM	1	49	17.77	17.92	17.85	17.77	17.94	
10	16QAM	25	0	16.84	16.85	16.86	16.70	16.57	
10	16QAM	25	12	16.75	16.76	16.50	16.64	16.60	
10	16QAM	25	25	16.53	16.61	16.73	16.65	16.73	17.8
10	16QAM	50	0	16.54	16.58	16.72	16.51	16.46	
10	64QAM	1	0	16.72	16.77	16.83	16.73	16.76	
10	64QAM	1	25	16.66	16.63	16.65	16.85	16.74	
10	64QAM	1	49	16.68	16.55	16.73	16.72	16.78	16.8
10	64QAM	25	0	15.68	15.67	15.69	15.66	15.76	
10	64QAM	25	12	15.71	15.64	15.84	15.57	15.51	
10	64QAM	25	25	15.66	15.60	15.59	15.65	15.65	
10	64QAM	50	0	15.54	15.55	15.79	15.68	15.52	16.8
Channel				55265	55810	55990	56170	56175	
Frequency (MHz)				3552.5	3607	3625	3643	3697.5	Tune-up limit (dBm)
5	QPSK	1	0	18.58	18.75	18.81	18.65	18.60	19.8
5	QPSK	1	12	18.64	18.60	18.70	18.73	18.55	
5	QPSK	1	24	18.65	18.73	18.78	18.66	18.66	
5	QPSK	12	0	17.61	17.73	17.84	17.82	17.74	
5	QPSK	12	7	17.87	17.89	17.57	17.72	17.64	18.8
5	QPSK	12	13	17.55	17.55	17.63	17.56	17.61	
5	QPSK	25	0	17.72	17.65	17.75	17.69	17.68	
5	16QAM	1	0	17.84	17.89	18.01	17.85	17.79	
5	16QAM	1	12	17.91	18.00	17.83	17.79	17.73	18.8
5	16QAM	1	24	17.89	17.78	17.94	17.88	17.81	
5	16QAM	12	0	16.82	16.70	16.79	16.69	16.58	
5	16QAM	12	7	16.65	16.53	16.57	16.66	16.66	
5	16QAM	12	13	16.59	16.56	16.58	16.72	16.72	17.8
5	16QAM	25	0	16.43	16.50	16.75	16.60	16.58	
5	64QAM	1	0	16.66	16.71	16.97	16.83	16.80	
5	64QAM	1	12	16.65	16.63	16.68	16.93	16.74	
5	64QAM	1	24	16.77	16.58	16.67	16.71	16.79	16.8
5	64QAM	12	0	15.79	15.77	15.79	15.78	15.65	
5	64QAM	12	7	15.56	15.56	15.77	15.59	15.59	
5	64QAM	12	13	15.55	15.69	15.60	15.54	15.55	
5	64QAM	25	0	15.52	15.65	15.62	15.66	15.71	

CA_48C Receiver on For Head									
Combination:20MHz+20MHz(100RB+100RB)									
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset		
55340	55340	55538	QPSK	1	0	0	0	18.39	19.00
55990	55891	56089	QPSK	1	0	0	0	18.42	19.00
56640	56442	56640	QPSK	1	0	0	0	18.37	19.00
55340	55340	55538	16QAM	1	0	0	0	17.79	18.50
55990	55891	56089	16QAM	1	0	0	0	17.88	18.50
56640	56442	56640	16QAM	1	0	0	0	17.83	18.50
55340	55340	55538	64QAM	1	0	0	0	17.31	18.00
55990	55891	56089	64QAM	1	0	0	0	17.37	18.00
56640	56442	56640	64QAM	1	0	0	0	17.28	18.00
55340	55340	55538	QPSK	50	0	0	0	17.58	18.5
55990	55891	56089	QPSK	50	0	0	0	17.63	18.5
56640	56442	56640	QPSK	50	0	0	0	17.61	18.5

Reduced Power Level 2 for ANT 3

Band 7 ANT 3 (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	17.93	18.04	17.99	18.8
20	QPSK	1	49	17.87	18.00	17.94	
20	QPSK	1	99	17.84	17.88	17.81	
20	QPSK	50	0	16.97	17.06	17.00	17.8
20	QPSK	50	24	16.98	17.00	16.94	
20	QPSK	50	50	16.79	16.95	16.77	
20	QPSK	100	0	16.79	16.88	16.95	17.8
20	16QAM	1	0	17.08	17.24	17.15	
20	16QAM	1	49	17.07	17.23	17.13	
20	16QAM	1	99	17.07	17.14	17.13	16.8
20	16QAM	50	0	15.97	16.19	15.91	
20	16QAM	50	24	15.95	15.93	16.00	
20	16QAM	50	50	15.88	15.99	15.93	16.8
20	16QAM	100	0	15.64	15.97	15.91	
20	64QAM	1	0	16.13	16.29	16.03	
20	64QAM	1	49	16.01	15.93	16.12	15.8
20	64QAM	1	99	15.80	15.97	16.07	
20	64QAM	50	0	14.98	14.94	15.04	
20	64QAM	50	24	14.88	14.94	14.78	15.8
20	64QAM	50	50	14.84	14.81	14.79	
20	64QAM	100	0	14.90	15.08	14.89	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	17.97	18.00	17.99	18.8
15	QPSK	1	37	17.96	17.87	17.91	
15	QPSK	1	74	17.84	17.89	17.81	
15	QPSK	36	0	16.96	16.99	16.92	17.8
15	QPSK	36	20	16.94	16.93	16.77	
15	QPSK	36	39	16.85	16.90	16.93	
15	QPSK	75	0	16.77	16.90	16.83	17.8
15	16QAM	1	0	17.22	17.29	17.20	
15	16QAM	1	37	17.19	17.25	17.18	
15	16QAM	1	74	17.07	17.07	17.04	16.8
15	16QAM	36	0	16.03	16.05	15.96	
15	16QAM	36	20	15.83	15.73	15.85	
15	16QAM	36	39	15.90	15.79	15.91	16.8
15	16QAM	75	0	15.66	15.97	15.91	
15	64QAM	1	0	16.10	16.20	15.99	
15	64QAM	1	37	16.03	15.95	16.16	15.8
15	64QAM	1	74	15.98	15.90	16.17	
15	64QAM	36	0	14.98	15.00	14.93	
15	64QAM	36	20	14.90	14.90	14.78	15.8
15	64QAM	36	39	14.96	14.89	14.79	
15	64QAM	75	0	14.76	15.07	15.00	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	17.86	18.01	17.95	18.8
10	QPSK	1	25	17.92	17.84	17.91	
10	QPSK	1	49	17.80	17.88	17.86	
10	QPSK	25	0	17.03	17.08	17.02	17.8
10	QPSK	25	12	16.94	16.88	16.96	
10	QPSK	25	25	16.91	16.90	16.89	
10	QPSK	50	0	16.84	16.82	16.98	17.8
10	16QAM	1	0	17.16	17.26	17.17	
10	16QAM	1	25	17.08	17.08	17.06	
10	16QAM	1	49	17.14	17.25	17.15	16.8
10	16QAM	25	0	15.98	16.08	15.98	
10	16QAM	25	12	15.98	15.74	15.83	
10	16QAM	25	25	15.84	15.82	15.96	16.8
10	16QAM	50	0	15.63	15.92	15.84	
10	64QAM	1	0	16.02	16.17	16.13	
10	64QAM	1	25	15.95	15.80	16.16	15.8
10	64QAM	1	49	16.05	15.82	16.11	
10	64QAM	25	0	14.85	14.92	15.08	
10	64QAM	25	12	14.90	14.98	14.87	15.8
10	64QAM	25	25	14.71	14.84	14.79	
10	64QAM	50	0	14.76	14.92	14.86	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	17.97	17.99	17.91	18.8
5	QPSK	1	12	17.92	17.85	17.92	
5	QPSK	1	24	17.90	17.87	17.84	
5	QPSK	12	0	16.87	17.02	16.93	17.8
5	QPSK	12	7	16.93	16.79	16.77	
5	QPSK	12	13	16.87	16.95	16.79	
5	QPSK	25	0	16.95	16.89	16.96	17.8
5	16QAM	1	0	17.22	17.30	17.15	
5	16QAM	1	12	17.16	17.20	17.03	
5	16QAM	1	24	17.05	17.06	17.05	16.8
5	16QAM	12	0	15.99	16.01	15.87	
5	16QAM	12	7	15.79	15.98	15.95	
5	16QAM	12	13	15.87	15.88	15.93	16.8
5	16QAM	25	0	15.83	16.01	15.87	
5	64QAM	1	0	16.11	16.17	16.00	
5	64QAM	1	12	15.82	16.00	16.09	15.8
5	64QAM	1	24	15.80	15.99	15.95	
5	64QAM	12	0	15.03	15.05	14.96	
5	64QAM	12	7	14.87	14.89	14.82	15.8
5	64QAM	12	13	14.77	14.91	14.87	
5	64QAM	25	0	14.94	14.91	14.89	

Reduced Power Level 3 for ANT 1 & ANT3 & ANT 7 & ANT 8 & ANT 9 & ANT 10

Band 2 ANT 7(1900MHz Band) (dBm) Part 24F							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1880	1890	1900	
20	QPSK	1	0	19.85	19.80	19.82	20.8
20	QPSK	1	49	19.86	19.80	19.66	
20	QPSK	1	99	19.71	19.76	19.75	
20	QPSK	50	0	18.74	18.84	18.76	19.8
20	QPSK	50	24	18.71	18.69	18.75	
20	QPSK	50	50	18.64	18.64	18.65	
20	QPSK	100	0	18.67	18.69	18.64	19.8
20	16QAM	1	0	18.87	19.03	18.92	
20	16QAM	1	49	19.00	19.01	18.80	
20	16QAM	1	99	18.89	18.96	18.96	18.8
20	16QAM	50	0	17.78	17.82	17.65	
20	16QAM	50	24	17.62	17.77	17.66	
20	16QAM	50	50	17.70	17.67	17.79	18.8
20	16QAM	100	0	17.54	17.68	17.72	
20	64QAM	1	0	17.72	17.97	17.89	
20	64QAM	1	49	17.69	17.62	17.86	18.8
20	64QAM	1	99	17.81	17.82	17.90	
20	64QAM	50	0	16.78	16.85	16.77	
20	64QAM	50	24	16.66	16.72	16.60	17.8
20	64QAM	50	50	16.75	16.62	16.65	
20	64QAM	100	0	16.69	16.81	16.76	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	19.78	19.86	19.80	20.8
15	QPSK	1	37	19.74	19.85	19.71	
15	QPSK	1	74	19.61	19.80	19.70	
15	QPSK	36	0	18.72	18.95	18.84	19.8
15	QPSK	36	20	18.72	18.68	18.65	
15	QPSK	36	39	18.64	18.63	18.63	
15	QPSK	75	0	18.55	18.74	18.82	19.8
15	16QAM	1	0	19.02	19.03	18.97	
15	16QAM	1	37	18.95	19.00	18.92	
15	16QAM	1	74	18.77	18.95	18.81	18.8
15	16QAM	36	0	17.90	17.92	17.77	
15	16QAM	36	20	17.83	17.71	17.63	
15	16QAM	36	39	17.69	17.77	17.82	18.8
15	16QAM	75	0	17.59	17.71	17.71	
15	64QAM	1	0	17.80	17.87	17.86	
15	64QAM	1	37	17.66	17.82	17.97	18.8
15	64QAM	1	74	17.78	17.74	17.86	
15	64QAM	36	0	16.76	16.90	16.67	
15	64QAM	36	20	16.57	16.88	16.67	17.8
15	64QAM	36	39	16.71	16.60	16.65	
15	64QAM	75	0	16.54	16.64	16.66	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	19.75	19.84	19.81	20.8
10	QPSK	1	25	19.82	19.74	19.64	
10	QPSK	1	49	19.75	19.75	19.60	
10	QPSK	25	0	18.76	18.85	18.79	19.8
10	QPSK	25	12	18.72	18.79	18.78	
10	QPSK	25	25	18.67	18.67	18.73	
10	QPSK	50	0	18.75	18.65	18.68	19.8
10	16QAM	1	0	18.92	18.98	18.96	
10	16QAM	1	25	18.91	18.96	18.95	
10	16QAM	1	49	18.73	18.86	18.94	18.8
10	16QAM	25	0	17.77	17.91	17.69	
10	16QAM	25	12	17.78	17.70	17.77	
10	16QAM	25	25	17.55	17.73	17.79	18.8
10	16QAM	50	0	17.63	17.77	17.67	
10	64QAM	1	0	17.71	17.95	17.77	
10	64QAM	1	25	17.79	17.75	17.86	18.8
10	64QAM	1	49	17.68	17.60	17.90	
10	64QAM	25	0	16.69	16.86	16.75	
10	64QAM	25	12	16.55	16.72	16.60	17.8
10	64QAM	25	25	16.76	16.54	16.53	
10	64QAM	50	0	16.66	16.86	16.71	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	19.75	19.82	19.77	20.8
5	QPSK	1	12	19.75	19.60	19.63	
5	QPSK	1	24	19.54	19.68	19.81	
5	QPSK	12	0	18.68	18.85	18.78	19.8
5	QPSK	12	7	18.79	18.72	18.67	
5	QPSK	12	13	18.65	18.65	18.58	
5	QPSK	25	0	18.60	18.60	18.64	19.8
5	16QAM	1	0	18.82	18.96	18.87	
5	16QAM	1	12	18.92	18.92	18.86	
5	16QAM	1	24	18.96	18.87	18.95	18.8
5	16QAM	12	0	17.76	17.83	17.55	
5	16QAM	12	7	17.60	17.63	17.65	
5	16QAM	12	13	17.59	17.79	17.73	18.8
5	16QAM	25	0	17.44	17.67	17.63	
5	64QAM	1	0	17.78	17.89	17.74	
5	64QAM	1	12	17.82	17.84	17.88	18.8
5	64QAM	1	24	17.82	17.70	17.82	
5	64QAM	12	0	16.69	16.87	16.88	
5	64QAM	12	7	16.70	16.77	16.71	17.8
5	64QAM	12	13	16.70	16.57	16.70	
5	64QAM	25	0	16.57	16.86	16.68	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	19.69	19.79	19.75	20.8
3	QPSK	1	8	19.77	19.74	19.73	
3	QPSK	1	14	19.64	19.76	19.65	
3	QPSK	8	0	18.72	18.78	18.69	19.8
3	QPSK	8	4	18.74	18.56	18.57	
3	QPSK	8	7	18.68	18.70	18.67	
3	QPSK	15	0	18.72	18.77	18.67	19.8
3	16QAM	1	0	18.88	18.95	18.93	
3	16QAM	1	8	18.98	18.92	18.97	
3	16QAM	1	14	18.77	18.88	18.86	18.8
3	16QAM	8	0	17.82	17.87	17.63	
3	16QAM	8	4	17.60	17.62	17.85	
3	16QAM	8	7	17.52	17.76	17.71	18.8
3	16QAM	15	0	17.62	17.69	17.68	
3	64QAM	1	0	17.80	17.86	17.97	

Band 66 ANT 7 (dBm)_20dB							
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	19.87	19.95	19.90	20.8
20	QPSK	1	49	19.84	19.80	19.78	
20	QPSK	1	99	19.73	19.87	19.69	
20	QPSK	50	0	18.86	18.91	18.87	19.8
20	QPSK	50	24	18.73	18.78	18.75	
20	QPSK	50	50	18.63	18.77	18.67	
20	QPSK	100	0	18.66	18.64	18.67	19.8
20	16QAM	1	0	18.85	19.10	18.93	
20	16QAM	1	49	19.03	19.08	18.77	
20	16QAM	1	99	18.97	18.93	18.90	18.8
20	16QAM	50	0	17.86	17.89	17.75	
20	16QAM	50	24	17.79	17.71	17.78	
20	16QAM	50	50	17.66	17.73	17.81	18.8
20	16QAM	100	0	17.75	17.92	17.71	
20	64QAM	1	0	17.91	17.97	17.73	
20	64QAM	1	49	17.72	17.83	17.86	18.8
20	64QAM	1	99	17.83	17.77	17.86	
20	64QAM	50	0	16.70	16.83	16.70	
20	64QAM	50	24	16.74	16.93	16.69	17.8
20	64QAM	50	50	16.65	16.67	16.67	
20	64QAM	100	0	16.60	16.79	16.71	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	19.81	19.91	19.85	20.8
15	QPSK	1	37	19.87	19.78	19.77	
15	QPSK	1	74	19.77	19.78	19.71	
15	QPSK	36	0	18.83	18.85	18.77	19.8
15	QPSK	36	20	18.87	18.71	18.69	
15	QPSK	36	39	18.80	18.79	18.72	
15	QPSK	75	0	18.70	18.70	18.79	19.8
15	16QAM	1	0	18.95	19.01	19.07	
15	16QAM	1	37	18.95	18.89	18.77	
15	16QAM	1	74	18.84	19.05	18.94	18.8
15	16QAM	36	0	17.77	17.84	17.77	
15	16QAM	36	20	17.60	17.53	17.78	
15	16QAM	36	39	17.69	17.57	17.80	18.8
15	16QAM	75	0	17.60	17.76	17.61	
15	64QAM	1	0	17.79	17.91	17.95	
15	64QAM	1	37	17.77	17.80	17.77	18.8
15	64QAM	1	74	17.80	17.74	17.85	
15	64QAM	36	0	16.71	16.74	16.80	
15	64QAM	36	20	16.65	16.87	16.72	17.8
15	64QAM	36	39	16.73	16.67	16.74	
15	64QAM	75	0	16.75	16.87	16.78	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	19.78	19.89	19.83	20.8
10	QPSK	1	25	19.68	19.68	19.71	
10	QPSK	1	49	19.68	19.72	19.72	
10	QPSK	25	0	18.78	18.91	18.86	19.8
10	QPSK	25	12	18.86	18.76	18.79	
10	QPSK	25	25	18.76	18.74	18.72	
10	QPSK	50	0	18.78	18.72	18.86	19.8
10	16QAM	1	0	18.99	19.09	18.95	
10	16QAM	1	25	18.81	18.94	18.89	
10	16QAM	1	49	18.80	18.95	18.96	18.8
10	16QAM	25	0	17.89	17.80	17.60	
10	16QAM	25	12	17.69	17.68	17.71	
10	16QAM	25	25	17.61	17.72	17.75	18.8
10	16QAM	50	0	17.57	17.75	17.61	
10	64QAM	1	0	17.92	17.94	17.79	
10	64QAM	1	25	17.65	17.64	17.89	18.8
10	64QAM	1	49	17.82	17.68	17.79	
10	64QAM	25	0	16.79	16.71	16.75	
10	64QAM	25	12	16.68	16.80	16.53	17.8
10	64QAM	25	25	16.71	16.62	16.52	
10	64QAM	50	0	16.59	16.73	16.62	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	19.79	19.86	19.71	20.8
5	QPSK	1	12	19.70	19.71	19.69	
5	QPSK	1	24	19.65	19.67	19.62	
5	QPSK	12	0	18.88	18.92	18.75	19.8
5	QPSK	12	7	18.89	18.70	18.64	
5	QPSK	12	13	18.68	18.80	18.61	
5	QPSK	25	0	18.67	18.77	18.83	19.8
5	16QAM	1	0	18.81	19.02	18.90	
5	16QAM	1	12	19.05	18.98	18.87	
5	16QAM	1	24	18.92	19.04	18.86	18.8
5	16QAM	12	0	17.91	17.79	17.76	
5	16QAM	12	7	17.62	17.85	17.84	
5	16QAM	12	13	17.68	17.77	17.69	18.8
5	16QAM	25	0	17.61	17.72	17.66	
5	64QAM	1	0	17.91	18.07	17.80	
5	64QAM	1	12	17.70	17.78	17.92	18.8
5	64QAM	1	24	17.71	17.72	17.87	
5	64QAM	12	0	16.73	16.75	16.69	
5	64QAM	12	7	16.60	16.80	16.57	17.8
5	64QAM	12	13	16.72	16.64	16.56	
5	64QAM	25	0	16.75	16.81	16.60	
Channel				131967	132322	132687	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	19.78	19.87	19.75	20.8
3	QPSK	1	8	19.73	19.74	19.77	
3	QPSK	1	14	19.67	19.80	19.62	
3	QPSK	8	0	18.66	18.75	18.73	19.8
3	QPSK	8	4	18.72	18.59	18.68	
3	QPSK	8	7	18.81	18.66	18.59	
3	QPSK	15	0	18.59	18.73	18.65	19.8
3	16QAM	1	0	18.90	19.05	19.04	
3	16QAM	1	8	18.91	19.08	18.88	
3	16QAM	1	14	18.85	18.96	18.99	18.8
3	16QAM	8	0	17.94	17.92	17.69	
3	16QAM	8	4	17.77	17.74	17.72	
3	16QAM	8	7	17.71	17.70	17.79	18.8
3	16QAM	15	0	17.70	17.80	17.65	
3	64QAM	1	0	17.72	18.03	17.88	

3	64QAM	1	8	17.78	17.61	17.84	18.8
3	64QAM	1	14	17.78	17.69	17.87	
3	64QAM	8	0	16.71	16.76	16.73	
3	64QAM	8	4	16.71	16.89	16.64	17.8
3	64QAM	8	7	16.56	16.54	16.56	
3	64QAM	15	0	16.64	16.79	16.59	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	19.72	19.80	19.74	20.8
1.4	QPSK	1	3	19.66	19.70	19.78	
1.4	QPSK	1	5	19.72	19.73	19.57	
1.4	QPSK	3	0	18.86	18.88	18.80	
1.4	QPSK	3	1	18.83	18.83	18.82	
1.4	QPSK	3	3	18.83	18.85	18.81	
1.4	QPSK	6	0	18.70	18.69	18.73	19.8
1.4	16QAM	1	0	19.05	19.03	18.88	19.8
1.4	16QAM	1	3	18.82	18.99	18.94	
1.4	16QAM	1	5	18.86	18.94	18.85	
1.4	16QAM	3	0	17.83	17.90	17.80	
1.4	16QAM	3	1	17.84	17.87	17.85	
1.4	16QAM	3	3	17.81	17.80	17.83	
1.4	16QAM	6	0	17.47	17.68	17.57	18.8
1.4	64QAM	1	0	17.71	17.90	17.74	18.8
1.4	64QAM	1	3	17.66	17.62	17.82	
1.4	64QAM	1	5	17.72	17.70	17.70	
1.4	64QAM	3	0	16.87	16.94	16.88	
1.4	64QAM	3	1	16.81	16.89	16.86	
1.4	64QAM	3	3	16.85	16.82	16.81	
1.4	64QAM	6	0	16.71	16.79	16.67	17.8

3	64QAM	1	8	17.83	17.83	17.81	18.8
3	64QAM	1	14	17.72	17.72	17.76	
3	64QAM	8	0	16.69	16.70	16.72	
3	64QAM	8	4	16.59	16.77	16.66	17.8
3	64QAM	8	7	16.72	16.60	16.65	
3	64QAM	15	0	16.62	16.78	16.76	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	19.81	19.86	19.70	20.8
1.4	QPSK	1	3	19.81	19.68	19.69	
1.4	QPSK	1	5	19.55	19.76	19.81	
1.4	QPSK	3	0	18.87	18.88	18.85	
1.4	QPSK	3	1	18.82	18.82	18.80	
1.4	QPSK	3	3	18.80	18.81	18.82	
1.4	QPSK	6	0	18.70	18.74	18.66	19.8
1.4	16QAM	1	0	18.94	19.03	18.85	19.8
1.4	16QAM	1	3	18.92	18.97	18.75	
1.4	16QAM	1	5	18.84	18.99	18.86	
1.4	16QAM	3	0	17.73	17.97	17.67	
1.4	16QAM	3	1	17.82	17.68	17.80	
1.4	16QAM	3	3	17.62	17.74	17.68	
1.4	16QAM	6	0	17.69	17.80	17.61	18.8
1.4	64QAM	1	0	17.71	17.90	17.85	18.8
1.4	64QAM	1	3	17.77	17.73	17.75	
1.4	64QAM	1	5	17.68	17.71	17.93	
1.4	64QAM	3	0	16.61	16.73	16.79	
1.4	64QAM	3	1	16.59	16.82	16.69	
1.4	64QAM	3	3	16.69	16.61	16.56	
1.4	64QAM	6	0	16.62	16.71	16.79	17.8

Band 48 ANT 10(3.5G Band) (dBm)_Ant 10_18dB									
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	19.3
Frequency (MHz)				3560	3609	3625	3641	3690	
20	QPSK	1	0	18.21	18.24	18.35	18.23	18.19	18.3
20	QPSK	1	49	18.17	18.18	18.25	18.20	18.14	
20	QPSK	1	99	18.08	18.23	18.19	18.15	18.24	
20	QPSK	50	0	17.21	17.30	17.34	17.25	17.26	
20	QPSK	50	24	17.25	17.29	17.19	17.17	17.11	18.3
20	QPSK	50	50	17.20	17.11	17.22	17.10	17.06	
20	QPSK	100	0	17.15	17.11	17.20	17.07	17.07	
20	16QAM	1	0	17.42	17.44	17.47	17.38	17.42	
20	16QAM	1	49	17.41	17.35	17.42	17.27	17.24	17.3
20	16QAM	1	99	17.30	17.17	17.40	17.39	17.36	
20	16QAM	50	0	16.32	16.35	16.37	16.24	16.19	
20	16QAM	50	24	16.10	16.09	16.10	16.23	16.27	
20	16QAM	50	50	16.16	16.12	16.19	16.26	16.11	17.3
20	16QAM	100	0	16.00	16.05	16.24	16.12	16.01	
20	64QAM	1	0	16.24	16.36	16.44	16.41	16.17	
20	64QAM	1	49	16.27	16.22	16.14	16.23	16.40	
20	64QAM	1	99	16.14	16.19	16.20	16.35	16.40	16.3
20	64QAM	50	0	15.05	15.07	15.29	15.28	15.13	
20	64QAM	50	24	15.22	15.08	15.19	15.11	15.07	
20	64QAM	50	50	15.03	15.08	15.15	15.05	15.15	
20	64QAM	100	0	15.17	15.06	15.21	15.18	15.02	19.3
Channel				55315	55820	55990	56160	56665	
Frequency (MHz)				3557.5	3608	3625	3642	3692.5	19.3
15	QPSK	1	0	18.19	18.30	18.33	18.32	18.25	
15	QPSK	1	37	18.21	18.09	18.28	18.28	18.28	18.3
15	QPSK	1	74	18.23	18.19	18.18	18.09	18.20	
15	QPSK	36	0	17.11	17.34	17.38	17.18	17.28	
15	QPSK	36	20	17.20	17.28	17.20	17.12	17.06	
15	QPSK	36	39	17.07	17.20	17.18	17.09	17.04	18.3
15	QPSK	75	0	17.20	17.13	17.18	17.23	17.23	
15	16QAM	1	0	17.41	17.38	17.50	17.47	17.32	
15	16QAM	1	37	17.28	17.47	17.32	17.20	17.33	
15	16QAM	1	74	17.33	17.17	17.37	17.30	17.35	17.3
15	16QAM	36	0	16.24	16.21	16.29	16.09	16.22	
15	16QAM	36	20	16.20	16.15	16.03	16.18	16.28	
15	16QAM	36	39	16.10	16.05	16.04	16.14	16.28	
15	16QAM	75	0	16.07	16.14	16.32	16.03	16.15	17.3
15	64QAM	1	0	16.15	16.34	16.40	16.16	16.26	
15	64QAM	1	37	16.05	16.15	16.21	16.21	16.37	
15	64QAM	1	74	16.28	16.07	16.16	16.24	16.38	
15	64QAM	36	0	15.19	15.07	15.22	15.15	15.19	16.3
15	64QAM	36	20	15.08	15.12	15.31	15.00	15.11	
15	64QAM	36	39	15.03	15.03	15.11	15.19	15.06	
15	64QAM	75	0	15.17	15.08	15.17	15.20	15.08	
Channel				55290	55815	55990	56165	56690	19.3
Frequency (MHz)				3555	3607.5	3625	3642.5	3695	
10	QPSK	1	0	18.26	18.28	18.30	18.15	18.17	18.3
10	QPSK	1	25	18.08	18.26	18.15	18.25	18.17	
10	QPSK	1	49	18.18	18.04	18.17	18.20	18.17	
10	QPSK	25	0	17.21	17.27	17.38	17.20	17.22	
10	QPSK	25	12	17.21	17.23	17.10	17.10	17.08	18.3
10	QPSK	25	25	17.04	17.27	17.16	17.08	17.02	
10	QPSK	50	0	17.19	17.19	17.42	17.11	17.31	
10	16QAM	1	0	17.25	17.34	17.41	17.40	17.40	
10	16QAM	1	25	17.36	17.42	17.33	17.20	17.39	17.3
10	16QAM	1	49	17.27	17.42	17.35	17.27	17.44	
10	16QAM	25	0	16.34	16.35	16.36	16.20	16.07	
10	16QAM	25	12	16.25	16.26	16.00	16.14	16.10	
10	16QAM	25	25	16.03	16.11	16.23	16.15	16.23	17.3
10	16QAM	50	0	16.04	16.08	16.22	16.01	15.96	
10	64QAM	1	0	16.22	16.27	16.33	16.23	16.26	
10	64QAM	1	25	16.16	16.13	16.15	16.35	16.24	
10	64QAM	1	49	16.18	16.05	16.23	16.22	16.28	16.3
10	64QAM	25	0	15.18	15.17	15.19	15.16	15.26	
10	64QAM	25	12	15.21	15.14	15.34	15.07	15.01	
10	64QAM	25	25	15.16	15.10	15.09	15.15	15.15	
10	64QAM	50	0	15.04	15.05	15.29	15.18	15.02	19.3
Channel				55265	55810	55990	56170	56175	
Frequency (MHz)				3552.5	3607	3625	3643	3697.5	19.3
5	QPSK	1	0	18.08	18.25	18.31	18.15	18.10	
5	QPSK	1	12	18.14	18.10	18.20	18.23	18.05	18.3
5	QPSK	1	24	18.15	18.23	18.28	18.16	18.16	
5	QPSK	12	0	17.11	17.23	17.34	17.32	17.24	
5	QPSK	12	7	17.37	17.39	17.07	17.22	17.14	
5	QPSK	12	13	17.05	17.05	17.13	17.06	17.11	18.3
5	QPSK	25	0	17.22	17.15	17.25	17.19	17.18	
5	16QAM	1	0	17.34	17.39	17.51	17.35	17.29	
5	16QAM	1	12	17.41	17.50	17.33	17.29	17.23	
5	16QAM	1	24	17.39	17.28	17.44	17.38	17.31	17.3
5	16QAM	12	0	16.32	16.20	16.29	16.19	16.08	
5	16QAM	12	7	16.15	16.03	16.07	16.16	16.16	
5	16QAM	12	13	16.09	16.06	16.08	16.22	16.22	
5	16QAM	25	0	15.93	16.00	16.25	16.10	16.08	17.3
5	64QAM	1	0	16.16	16.21	16.47	16.33	16.30	
5	64QAM	1	12	16.15	16.13	16.18	16.43	16.24	
5	64QAM	1	24	16.27	16.08	16.17	16.21	16.29	
5	64QAM	12	0	15.29	15.27	15.29	15.28	15.15	16.3
5	64QAM	12	7	15.06	15.06	15.27	15.09	15.09	
5	64QAM	12	13	15.05	15.19	15.10	15.04	15.05	
5	64QAM	25	0	15.02	15.15	15.12	15.16	15.21	

B5_n2 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				372000	376000	380000	(dBm)
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	19.75	19.68	19.51	20.8
20		1	53	19.78	19.68	19.55	
20		1	104	19.74	19.64	19.54	
20		50	1	19.77	19.77	19.57	20.8
20		50	25	19.84	19.75	19.56	
20		50	50	19.86	19.62	19.48	
20		100	0	19.81	19.76	19.56	
20	DFT-s-OFDM QPSK	1	1	19.99	20.07	20.04	20.8
20		1	53	19.89	19.97	19.91	
20		1	104	19.77	19.74	19.68	
20		50	1	19.81	19.91	19.82	20.8
20		50	25	19.86	19.76	19.71	
20		50	50	19.75	19.64	19.59	
20		100	0	19.82	19.74	19.63	
20	DFT-s-OFDM 16QAM	1	1	20.02	20.00	19.84	20.80
20	DFT-s-OFDM 64QAM	1	1	18.50	18.42	18.26	19.80
20	DFT-s-OFDM 256QAM	1	1	16.35	16.29	16.07	16.80
20	CP-OFDM QPSK	1	1	19.48	19.36	19.20	19.80
20	CP-OFDM 16QAM	1	1	18.80	18.71	18.52	19.80
20	CP-OFDM 64QAM	1	1	17.46	17.31	17.13	17.80
20	CP-OFDM 256QAM	1	1	14.42	14.31	14.14	14.80
Channel				371500	376000	380500	Tune-up limit
Frequency (MHz)				1857.5	1880	1902.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	19.83	19.73	19.55	20.80
Channel				371000	376000	381000	Tune-up limit
Frequency (MHz)				1855	1880	1905	(dBm)
10	DFT-s-OFDM QPSK	1	1	19.99	19.74	19.57	20.80
Channel				370500	376000	381500	Tune-up limit
Frequency (MHz)				1852.5	1880	1907.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	19.96	19.78	19.68	20.80

B13_n2 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				372000	376000	380000	(dBm)
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	19.80	19.72	19.55	20.8
20		1	53	19.79	19.73	19.47	
20		1	104	19.78	19.59	19.46	
20		50	1	19.83	19.75	19.54	20.8
20	DFT-s-OFDM QPSK	50	25	19.89	19.76	19.62	
20		50	50	19.83	19.66	19.55	
20		100	0	19.87	19.71	19.56	
20		1	1	19.90	20.05	19.79	20.8
20	DFT-s-OFDM 16QAM	1	53	19.70	19.83	19.71	
20		1	104	19.69	19.69	19.65	
20		50	1	19.81	19.90	19.75	20.8
20		50	25	19.89	19.70	19.65	
20	DFT-s-OFDM 64QAM	50	50	19.82	19.70	19.59	
20		100	0	19.87	19.71	19.62	
20	DFT-s-OFDM 256QAM	1	1	19.96	20.01	19.88	20.80
20	CP-OFDM QPSK	1	1	18.48	18.46	18.17	18.80
20	CP-OFDM 16QAM	1	1	16.37	16.36	16.05	16.80
20	CP-OFDM 64QAM	1	1	19.40	19.37	19.11	19.80
20	CP-OFDM 256QAM	1	1	18.80	18.89	18.49	19.80
20		1	1	17.40	17.35	17.06	17.80
20		1	1	14.36	14.35	14.07	14.80
Channel				371500	376000	380500	Tune-up limit
Frequency (MHz)				1857.5	1880	1902.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	19.90	19.71	19.50	20.80
Channel				371000	376000	381000	Tune-up limit
Frequency (MHz)				1855	1880	1905	(dBm)
10	DFT-s-OFDM QPSK	1	1	19.91	19.81	19.62	20.80
Channel				370500	376000	381500	Tune-up limit
Frequency (MHz)				1852.5	1880	1907.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	19.88	19.74	19.60	20.80

B66_n2 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				372000	376000	380000	(dBm)
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	19.92	19.90	19.82	20.8
20		1	53	19.93	19.86	19.88	
20		1	104	19.97	19.93	19.93	
20		50	1	19.60	19.56	19.50	20.8
20	DFT-s-OFDM QPSK	50	25	20.01	19.91	19.92	
20		50	50	19.63	19.52	19.53	
20		100	0	19.65	19.57	19.55	
20		1	1	19.98	20.06	19.96	20.8
20	DFT-s-OFDM 16QAM	1	53	19.98	19.92	19.91	
20		1	104	19.96	19.89	19.94	
20		50	1	19.90	16.40	19.85	20.8
20		50	25	19.85	19.80	19.86	
20	DFT-s-OFDM 64QAM	50	50	19.02	19.01	19.06	
20		100	0	19.13	19.05	19.04	
20	DFT-s-OFDM 256QAM	1	1	19.36	19.16	19.27	19.80
20	CP-OFDM QPSK	1	1	17.76	17.72	17.63	18.80
20	CP-OFDM 16QAM	1	1	15.71	15.60	15.54	16.80
20	CP-OFDM 64QAM	1	1	18.56	18.64	18.55	19.80
20	CP-OFDM 256QAM	1	1	18.12	18.10	18.02	18.80
20		1	1	16.62	16.60	16.52	17.80
20		1	1	13.75	13.61	13.60	14.80
Channel				371500	376000	380500	Tune-up limit
Frequency (MHz)				1857.5	1880	1902.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	19.98	19.95	19.94	20.80
Channel				371000	376000	381000	Tune-up limit
Frequency (MHz)				1855	1880	1905	(dBm)
10	DFT-s-OFDM QPSK	1	1	19.97	20.04	20.03	20.80
Channel				370500	376000	381500	Tune-up limit
Frequency (MHz)				1852.5	1880	1907.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	20.04	20.01	20.02	20.80

B2_n5 (PC3)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				166800	167300	167800	(dBm)
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	19.91	19.86	19.79	20.8
20		1	53	19.82	19.91	19.95	
20		1	104	19.81	19.72	19.79	
20		50	1	19.86	19.91	19.85	20.8
20		50	25	19.90	19.89	20.00	
20		50	50	19.91	19.87	19.89	
20		100	0	19.89	19.87	19.97	
20	DFT-s-OFDM QPSK	1	1	20.04	20.13	20.03	20.8
20		1	53	19.89	19.97	19.96	
20		1	104	19.85	19.83	19.69	
20		50	1	19.83	19.99	19.85	20.8
20		50	25	19.86	19.90	19.98	
20		50	50	19.90	19.87	19.84	
20		100	0	19.88	19.84	19.97	
20	DFT-s-OFDM 16QAM	1	1	20.11	20.05	20.08	20.80
20	DFT-s-OFDM 64QAM	1	1	18.53	18.59	18.58	19.80
20	DFT-s-OFDM 256QAM	1	1	16.37	16.42	16.38	16.80
20	CP-OFDM QPSK	1	1	19.42	19.48	19.46	19.80
20	CP-OFDM 16QAM	1	1	18.76	18.78	18.78	19.80
20	CP-OFDM 64QAM	1	1	17.57	17.49	17.43	18.80
20	CP-OFDM 256QAM	1	1	14.42	14.46	14.38	14.80
Channel				166300	167300	168300	Tune-up limit
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	19.93	19.90	19.97	20.80
Channel				165800	167300	168800	Tune-up limit
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	19.88	19.93	19.98	20.80
Channel				165300	167300	169300	Tune-up limit
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	20.04	19.91	19.92	20.80

B48_n5 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				166800	167300	167800	(dBm)
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	19.90	19.84	19.81	20.8
20		1	53	19.77	19.88	19.92	
20		1	104	19.78	19.68	19.77	
20		50	1	19.78	19.84	19.86	20.8
20		50	25	19.89	20.00	19.95	
20		50	50	19.88	19.85	19.86	
20		100	0	19.89	19.97	19.93	
20	DFT-s-OFDM QPSK	1	1	20.02	20.10	19.95	20.8
20		1	53	19.83	19.95	19.97	
20		1	104	19.84	19.89	19.80	
20		50	1	19.79	20.01	19.85	20.8
20		50	25	19.84	19.97	19.95	
20		50	50	19.88	19.87	19.84	
20		100	0	19.88	19.84	19.94	
20	DFT-s-OFDM 16QAM	1	1	20.07	20.04	20.08	20.80
20	DFT-s-OFDM 64QAM	1	1	18.57	18.59	18.51	19.80
20	DFT-s-OFDM 256QAM	1	1	16.40	16.43	16.35	16.80
20	CP-OFDM QPSK	1	1	19.39	19.50	19.42	20.80
20	CP-OFDM 16QAM	1	1	18.80	18.81	18.79	19.80
20	CP-OFDM 64QAM	1	1	17.44	17.49	17.45	17.80
20	CP-OFDM 256QAM	1	1	14.42	14.44	14.37	14.80
Channel				166300	167300	168300	Tune-up limit
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	19.91	19.92	19.94	20.80
Channel				165800	167300	168800	Tune-up limit
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	19.90	19.89	19.97	20.80
Channel				165300	167300	169300	Tune-up limit
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	19.90	19.95	19.92	20.80

B66_n5 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				166800	167300	167800	(dBm)
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	20.03	20.08	20.01	20.8
20		1	53	20.07	20.08	20.16	
20		1	104	20.12	20.03	20.02	
20		50	1	20.17	20.16	20.17	20.8
20		50	25	20.21	20.16	20.17	
20		50	50	20.14	20.22	20.14	
20		100	0	20.22	20.18	20.14	
20	DFT-s-OFDM QPSK	1	1	20.10	20.32	20.05	20.8
20		1	53	20.11	20.10	20.21	
20		1	104	20.04	20.07	20.06	
20		50	1	20.04	20.11	20.05	20.8
20		50	25	20.07	20.04	20.11	
20		50	50	20.11	20.09	20.11	
20		100	0	20.09	20.05	20.04	
20	DFT-s-OFDM 16QAM	1	1	20.31	20.28	20.25	20.80
20	DFT-s-OFDM 64QAM	1	1	18.75	18.82	18.78	19.80
20	DFT-s-OFDM 256QAM	1	1	16.72	16.75	16.66	17.80
20	CP-OFDM QPSK	1	1	19.65	19.70	19.70	20.80
20	CP-OFDM 16QAM	1	1	19.01	19.03	18.97	19.80
20	CP-OFDM 64QAM	1	1	17.69	17.72	17.66	18.80
20	CP-OFDM 256QAM	1	1	14.72	14.78	14.68	15.80
Channel				166300	167300	168300	Tune-up limit
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	20.08	20.07	20.06	20.80
Channel				165800	167300	168800	Tune-up limit
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	19.92	19.85	19.93	20.80
Channel				165300	167300	169300	Tune-up limit
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	19.99	19.94	19.91	20.80

B2_n66 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				345000	349000	353000	(dBm)
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM PI/2 BPSK	1	1	20.17	20.12	20.01	20.8
30		1	80	20.18	20.10	19.82	
30		1	158	20.07	19.84	19.82	
30		80	1	19.97	19.86	19.47	20.8
30		80	40	20.13	20.06	19.87	
30		80	80	19.83	19.63	19.62	
30		160	0	19.85	19.86	19.50	
30	DFT-s-OFDM QPSK	1	1	20.17	20.22	20.00	20.8
30		1	80	20.15	20.02	19.81	
30		1	158	19.77	19.80	19.74	
30		80	1	20.10	20.13	19.98	20.8
30		80	40	20.12	20.08	19.87	
30		80	80	18.89	19.11	18.97	
30		160	0	19.45	19.21	19.08	
30	DFT-s-OFDM 16QAM	1	1	19.62	19.52	19.36	20.80
30	DFT-s-OFDM 64QAM	1	1	17.19	17.73	17.63	18.80
30	DFT-s-OFDM 256QAM	1	1	15.84	15.67	15.68	16.80
30	CP-OFDM QPSK	1	1	18.87	18.66	18.54	19.80
30	CP-OFDM 16QAM	1	1	18.42	18.11	18.02	18.80
30	CP-OFDM 64QAM	1	1	16.89	16.70	16.65	17.80
30	CP-OFDM 256QAM	1	1	13.92	13.71	13.65	14.80
Channel				344000	349000	354000	Tune-up limit
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	20.19	20.18	19.86	20.80
Channel				343500	349000	354500	Tune-up limit
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	20.13	20.16	19.93	20.80
Channel				343000	349000	355000	Tune-up limit
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	20.00	20.17	20.06	20.80
Channel				342500	349000	355500	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	20.16	20.14	19.99	20.80

B5_n66 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				345000	349000	353000	(dBm)
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM PI/2 BPSK	1	1	19.71	19.74	19.62	20.8
30		1	80	19.76	19.68	19.65	
30		1	158	19.78	19.53	19.71	
30		80	1	19.89	19.77	19.62	20.8
30		80	40	19.83	19.65	19.72	
30		80	80	19.81	19.72	19.80	
30		160	0	19.87	19.75	19.81	
30	DFT-s-OFDM QPSK	1	1	19.81	20.06	19.90	20.8
30		1	80	19.84	19.87	19.73	
30		1	158	19.83	19.80	19.72	
30		80	1	19.78	19.89	19.68	20.8
30		80	40	19.84	19.71	19.73	
30		80	80	19.87	19.75	19.80	
30		160	0	19.87	19.75	19.76	
30	DFT-s-OFDM 16QAM	1	1	19.96	19.98	19.95	20.80
30	DFT-s-OFDM 64QAM	1	1	18.47	18.50	18.42	19.80
30	DFT-s-OFDM 256QAM	1	1	16.42	16.38	16.26	16.80
30	CP-OFDM QPSK	1	1	19.35	19.41	19.27	19.80
30	CP-OFDM 16QAM	1	1	18.74	18.77	18.71	19.80
30	CP-OFDM 64QAM	1	1	17.39	17.40	17.30	17.80
30	CP-OFDM 256QAM	1	1	14.32	14.35	14.25	14.80
Channel				344000	349000	354000	Tune-up limit
Frequency (MHz)				1720	1745	1770	(dBm)
20	DFT-s-OFDM QPSK	1	1	19.77	19.58	19.41	20.80
Channel				343500	349000	354500	Tune-up limit
Frequency (MHz)				1717.5	1745	1772.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	19.73	19.79	19.74	20.80
Channel				343000	349000	355000	Tune-up limit
Frequency (MHz)				1715	1745	1775	(dBm)
10	DFT-s-OFDM QPSK	1	1	19.92	19.81	19.76	20.80
Channel				342500	349000	355500	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	19.85	19.83	19.72	20.80

B13_n66 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				345000	349000	353000	(dBm)
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM PI/2 BPSK	1	1	19.76	19.79	19.71	20.8
30		1	80	19.82	19.75	19.69	
30		1	158	19.80	19.61	19.66	
30		80	1	19.83	19.77	19.74	20.8
30		80	40	19.87	19.70	19.75	
30		80	80	19.88	19.80	19.81	
30		160	0	19.95	19.74	19.84	
30	DFT-s-OFDM QPSK	1	1	19.85	20.08	19.90	20.8
30		1	80	19.90	19.88	19.73	
30		1	158	19.76	19.84	19.76	
30		80	1	19.86	20.01	19.93	20.8
30		80	40	19.91	19.80	19.79	
30		80	80	19.92	19.76	19.83	
30		160	0	19.98	19.77	19.77	
30	DFT-s-OFDM 16QAM	1	1	20.03	20.06	19.99	20.80
30	DFT-s-OFDM 64QAM	1	1	18.52	18.52	18.43	19.80
30	DFT-s-OFDM 256QAM	1	1	16.49	16.47	16.35	16.80
30	CP-OFDM QPSK	1	1	19.43	19.45	19.33	19.80
30	CP-OFDM 16QAM	1	1	18.76	18.73	18.69	19.80
30	CP-OFDM 64QAM	1	1	17.46	17.43	17.35	17.80
30	CP-OFDM 256QAM	1	1	14.40	14.42	14.33	14.80
Channel				344000	349000	354000	Tune-up limit
Frequency (MHz)				1720	1745	1770	(dBm)
20	DFT-s-OFDM QPSK	1	1	19.58	19.75	19.71	20.80
Channel				343500	349000	354500	Tune-up limit
Frequency (MHz)				1717.5	1745	1772.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	19.82	19.72	19.69	20.80
Channel				343000	349000	355000	Tune-up limit
Frequency (MHz)				1715	1745	1775	(dBm)
10	DFT-s-OFDM QPSK	1	1	19.94	19.84	19.85	20.80
Channel				342500	349000	355500	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	19.94	19.79	19.82	20.80

B2_n77(3450-3550MHz) (PC2)Ant 10_18dB							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel					633334		(dBm)
Frequency (MHz)					3500.01		
100	DFT-s-OFDM PI/2 BPSK	1	1		18.05		18.8
100		1	136		17.86		
100		1	271		17.60		
100		135	1		13.12		18.8
100		135	67		17.90		
100		135	136		17.09		
100		270	0		17.48		
100	DFT-s-OFDM QPSK	1	1		18.10		18.8
100		1	136		17.89		
100		1	271		17.56		
100		135	1		17.92		18.8
100		135	67		17.90		
100		135	136		16.59		
100		270	0		17.01		
100	DFT-s-OFDM 16QAM	1	1		18.06		18.80
100	DFT-s-OFDM 64QAM	1	1		15.65		16.80
100	DFT-s-OFDM 256QAM	1	1		13.38		13.80
100	CP-OFDM QPSK	1	1		16.55		17.80
100	CP-OFDM 16QAM	1	1		15.80		16.80
100	CP-OFDM 64QAM	1	1		14.58		15.80
100	CP-OFDM 256QAM	1	1		11.47		11.80
Channel				632668	633334	634000	Tune-up limit
Frequency (MHz)				3490.02	3500.01	3510	(dBm)
80	DFT-s-OFDM QPSK	1	1	17.95	18.00	17.95	18.80
Channel				632000	633334	634666	Tune-up limit
Frequency (MHz)				3480	3500.01	3519.99	(dBm)
60	DFT-s-OFDM QPSK	1	1	18.04	18.05	18.09	18.80
Channel				631334	633334	635332	Tune-up limit
Frequency (MHz)				3470.01	3500.01	3529.98	(dBm)
40	DFT-s-OFDM QPSK	1	1	18.07	18.00	18.09	18.80
Channel				631000	633334	635666	Tune-up limit
Frequency (MHz)				3465	3500.01	3534.99	(dBm)
30	DFT-s-OFDM QPSK	1	1	18.05	18.08	17.84	18.80
Channel				630668	633334	636000	Tune-up limit
Frequency (MHz)				3460.02	3500.01	3540	(dBm)
20	DFT-s-OFDM QPSK	1	1	18.02	18.07	17.66	18.80

B5_n77(3450-3550MHz) (PC2)_Ant 10_18dB

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					633334		18.8
Frequency (MHz)					3500.01		
100	DFT-s-OFDM PI/2 BPSK	1	1		18.06		18.8
100		1	136		17.67		
100		1	271		17.54		
100		135	1		17.42		18.8
100		135	67		17.78		
100		135	136		16.97		
100		270	0		17.34		
100	DFT-s-OFDM QPSK	1	1		18.13		18.8
100		1	136		17.69		
100		1	271		17.45		
100		135	1		18.00		18.8
100		135	67		17.65		
100		135	136		16.60		
100		270	0		16.59		
100	DFT-s-OFDM 16QAM	1	1		16.19		16.80
100	DFT-s-OFDM 64QAM	1	1		15.09		15.80
100	DFT-s-OFDM 256QAM	1	1		13.07		13.80
100	CP-OFDM QPSK	1	1		15.55		16.80
100	CP-OFDM 16QAM	1	1		15.13		15.80
100	CP-OFDM 64QAM	1	1		14.65		15.80
100	CP-OFDM 256QAM	1	1		11.42		11.80
Channel				632668	633334	634000	18.80
Frequency (MHz)				3490.02	3500.01	3510	
80	DFT-s-OFDM QPSK	1	1	17.79	17.74	17.70	18.80
Channel				632000	633334	634666	18.80
Frequency (MHz)				3480	3500.01	3519.99	
60	DFT-s-OFDM QPSK	1	1	17.55	17.48	17.62	18.80
Channel				631334	633334	635332	18.80
Frequency (MHz)				3470.01	3500.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	17.92	17.65	17.67	18.80
Channel				631000	633334	635666	18.80
Frequency (MHz)				3465	3500.01	3534.99	
30	DFT-s-OFDM QPSK	1	1	17.97	17.82	17.71	18.80
Channel				630668	633334	636000	18.80
Frequency (MHz)				3460.02	3500.01	3540	
20	DFT-s-OFDM QPSK	1	1	17.87	17.74	17.54	18.80

B13_n77(3450-3550MHz) (PC2)_Ant 10_18dB							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel					633334		(dBm)
Frequency (MHz)					3500.01		
100	DFT-s-OFDM PI/2 BPSK	1	1		17.96		18.8
100		1	136		17.73		
100		1	271		17.53		
100		135	1		17.33		18.8
100	DFT-s-OFDM QPSK	135	67		17.79		
100		135	136		16.91		
100		270	0		17.38		
100		1	1		18.01		18.8
100	DFT-s-OFDM 16QAM	1	136		17.60		
100		1	271		17.37		
100		135	1		17.85		18.8
100		135	67		17.57		
100		135	136		16.36		
100		270	0		16.49		
100	DFT-s-OFDM 64QAM	1	1		17.10		17.80
100	DFT-s-OFDM 256QAM	1	1		15.79		16.80
100	CP-OFDM QPSK	1	1		12.96		13.80
100	CP-OFDM 16QAM	1	1		15.48		15.80
100	CP-OFDM 64QAM	1	1		15.07		15.80
100	CP-OFDM 256QAM	1	1		14.58		15.80
100	CP-OFDM 256QAM	1	1		11.34		11.80
Channel				632668	633334	634000	Tune-up limit
Frequency (MHz)				3490.02	3500.01	3510	(dBm)
80	DFT-s-OFDM QPSK	1	1	17.67	17.62	17.59	18.80
Channel				632000	633334	634666	Tune-up limit
Frequency (MHz)				3480	3500.01	3519.99	(dBm)
60	DFT-s-OFDM QPSK	1	1	17.41	17.35	17.48	17.80
Channel				631334	633334	635332	Tune-up limit
Frequency (MHz)				3470.01	3500.01	3529.98	(dBm)
40	DFT-s-OFDM QPSK	1	1	17.75	17.50	17.54	18.80
Channel				631000	633334	635666	Tune-up limit
Frequency (MHz)				3465	3500.01	3534.99	(dBm)
30	DFT-s-OFDM QPSK	1	1	17.85	17.65	17.54	18.80
Channel				630668	633334	636000	Tune-up limit
Frequency (MHz)				3460.02	3500.01	3540	(dBm)
20	DFT-s-OFDM QPSK	1	1	17.71	17.55	17.35	18.80

B66_n77(3450-3550MHz) (PC2)_Ant 10_18dB							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					633334		
Frequency (MHz)					3500.01		
100	DFT-s-OFDM PI/2 BPSK	1	1		18.01		18.8
100		1	136		17.87		
100		1	271		12.72		
100		135	1		17.50		18.8
100		135	67		17.90		
100		135	136		17.07		
100		270	0		12.95		
100	DFT-s-OFDM QPSK	1	1		18.03		18.8
100		1	136		17.82		
100		1	271		12.58		
100		135	1		17.54		18.8
100		135	67		14.50		
100		135	136		16.57		
100		270	0		16.98		
100	DFT-s-OFDM 16QAM	1	1		17.12		17.80
100	DFT-s-OFDM 64QAM	1	1		15.64		16.80
100	DFT-s-OFDM 256QAM	1	1		13.56		14.80
100	CP-OFDM QPSK	1	1		16.58		17.80
100	CP-OFDM 16QAM	1	1		15.99		16.80
100	CP-OFDM 64QAM	1	1		14.63		15.80
100	CP-OFDM 256QAM	1	1		11.38		11.80
Channel				632668	633334	634000	Tune-up limit
Frequency (MHz)				3490.02	3500.01	3510	(dBm)
80	DFT-s-OFDM QPSK	1	1	17.98	17.95	17.92	18.80
Channel				632000	633334	634666	Tune-up limit
Frequency (MHz)				3480	3500.01	3519.99	(dBm)
60	DFT-s-OFDM QPSK	1	1	17.99	18.01	18.02	18.80
Channel				631334	633334	635332	Tune-up limit
Frequency (MHz)				3470.01	3500.01	3529.98	(dBm)
40	DFT-s-OFDM QPSK	1	1	17.95	17.97	17.78	18.80
Channel				631000	633334	635666	Tune-up limit
Frequency (MHz)				3465	3500.01	3534.99	(dBm)
30	DFT-s-OFDM QPSK	1	1	17.97	18.01	17.83	18.80
Channel				630668	633334	636000	Tune-up limit
Frequency (MHz)				3460.02	3500.01	3540	(dBm)
20	DFT-s-OFDM QPSK	1	1	18.00	17.99	17.64	18.80

B2_n77(3700-3980MHz) (PC2)_Ant 10-18dB							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				650000	656000	662000	(dBm)
Frequency (MHz)				3750	3840	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	17.74	16.61	16.24	18.8
100		1	136	18.19	16.66	15.63	
100		1	271	12.07	11.88	16.22	
100		135	1	17.79	17.13	17.39	18.8
100		135	67	18.10	16.80	16.62	
100		135	136	17.80	16.88	16.44	
100		270	0	17.70	17.24	17.30	
100	DFT-s-OFDM QPSK	1	1	17.99	18.20	17.90	18.8
100		1	136	18.17	17.49	17.32	
100		1	271	17.95	17.20	17.17	
100		135	1	15.84	15.57	15.86	18.8
100		135	67	18.10	16.78	16.64	
100		135	136	12.13	12.02	11.90	
100		270	0	17.19	16.71	16.77	
100	DFT-s-OFDM 16QAM	1	1	16.87	16.58	17.11	17.80
100	DFT-s-OFDM 64QAM	1	1	15.52	15.02	14.65	16.80
100	DFT-s-OFDM 256QAM	1	1	13.20	13.08	12.72	13.80
100	CP-OFDM QPSK	1	1	16.26	15.93	15.55	16.80
100	CP-OFDM 16QAM	1	1	13.86	13.48	13.08	14.80
100	CP-OFDM 64QAM	1	1	14.46	15.05	14.66	15.80
100	CP-OFDM 256QAM	1	1	11.18	10.10	9.72	11.80
Channel				649334	656000	662666	Tune-up limit
Frequency (MHz)				3740.01	3840	3939.99	(dBm)
80	DFT-s-OFDM QPSK	1	1	17.86	16.24	15.53	18.80
Channel				648668	656000	663332	Tune-up limit
Frequency (MHz)				3730.02	3840	3949.98	(dBm)
60	DFT-s-OFDM QPSK	1	1	17.97	15.94	14.79	18.80
Channel				648000	656000	664000	Tune-up limit
Frequency (MHz)				3720	3840	3960	(dBm)
40	DFT-s-OFDM QPSK	1	1	17.90	16.09	13.55	18.80
Channel				647668	656000	664332	Tune-up limit
Frequency (MHz)				3715.02	3840	3964.98	(dBm)
30	DFT-s-OFDM QPSK	1	1	17.79	16.06	13.70	18.80
Channel				647334	656000	664666	Tune-up limit
Frequency (MHz)				3710.01	3840	3969.99	(dBm)
20	DFT-s-OFDM QPSK	1	1	18.09	16.18	13.50	18.80

B5_n77(3700-3980MHz) (PC2)_Ant 10_18dB							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				650000	656000	662000	(dBm)
Frequency (MHz)				3750	3840	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	17.98	17.58	17.76	18.8
100		1	136	17.44	16.62	16.66	
100		1	271	17.30	17.48	16.61	
100		135	1	17.41	17.08	17.16	18.8
100		135	67	17.39	16.82	17.44	
100		135	136	16.75	16.96	17.08	
100		270	0	17.09	17.26	17.01	
100	DFT-s-OFDM QPSK	1	1	17.94	18.03	17.73	18.8
100		1	136	17.40	17.60	16.51	
100		1	271	17.09	17.19	16.53	
100		135	1	17.43	17.75	17.31	18.8
100		135	67	17.46	16.80	16.46	
100		135	136	16.31	16.01	15.55	
100		270	0	16.61	16.44	16.47	
100	DFT-s-OFDM 16QAM	1	1	16.65	16.45	15.67	17.80
100	DFT-s-OFDM 64QAM	1	1	15.13	13.97	14.19	15.80
100	DFT-s-OFDM 256QAM	1	1	13.00	12.06	12.23	13.80
100	CP-OFDM QPSK	1	1	16.09	14.89	15.08	16.80
100	CP-OFDM 16QAM	1	1	15.61	15.44	14.67	16.80
100	CP-OFDM 64QAM	1	1	14.21	14.02	14.19	14.80
100	CP-OFDM 256QAM	1	1	11.07	11.05	11.25	11.80
Channel				649334	656000	662666	Tune-up limit
Frequency (MHz)				3740.01	3840	3939.99	(dBm)
80	DFT-s-OFDM QPSK	1	1	17.57	17.07	17.14	18.80
Channel				648668	656000	663332	Tune-up limit
Frequency (MHz)				3730.02	3840	3949.98	(dBm)
60	DFT-s-OFDM QPSK	1	1	17.65	16.73	17.47	18.80
Channel				648000	656000	664000	Tune-up limit
Frequency (MHz)				3720	3840	3960	(dBm)
40	DFT-s-OFDM QPSK	1	1	17.57	16.90	17.30	18.80
Channel				647668	656000	664332	Tune-up limit
Frequency (MHz)				3715.02	3840	3964.98	(dBm)
30	DFT-s-OFDM QPSK	1	1	17.88	16.91	17.45	18.80
Channel				647334	656000	664666	Tune-up limit
Frequency (MHz)				3710.01	3840	3969.99	(dBm)
20	DFT-s-OFDM QPSK	1	1	17.81	17.04	17.16	18.80

B13_n77(3700-3980MHz) (PC2)_Ant 10_18dB

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				650000	656000	662000	(dBm)
Frequency (MHz)				3750	3840	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	17.52	17.50	17.69	18.8
100		1	136	17.41	17.62	17.43	
100		1	271	17.18	17.42	17.53	
100		135	1	17.45	16.96	17.10	18.8
100	DFT-s-OFDM QPSK	135	67	17.49	17.75	17.41	
100		135	136	16.80	16.88	17.02	
100		270	0	17.10	17.20	16.93	
100		1	1	17.83	17.89	17.57	18.8
100	DFT-s-OFDM 16QAM	1	136	17.47	16.53	16.34	
100		1	271	17.12	16.34	16.49	
100		135	1	17.51	17.59	17.19	18.8
100		135	67	17.47	16.69	16.40	
100		135	136	16.31	16.58	16.51	
100		270	0	16.58	16.46	16.22	
100	DFT-s-OFDM 16QAM	1	1	16.61	16.82	16.69	17.80
100	DFT-s-OFDM 64QAM	1	1	15.09	14.93	14.16	15.80
100	DFT-s-OFDM 256QAM	1	1	13.08	12.99	12.20	13.80
100	CP-OFDM QPSK	1	1	16.13	15.82	15.03	16.80
100	CP-OFDM 16QAM	1	1	15.63	15.37	14.63	16.80
100	CP-OFDM 64QAM	1	1	14.17	13.88	14.04	14.80
100	CP-OFDM 256QAM	1	1	11.08	10.98	11.20	11.80
Channel				649334	656000	662666	Tune-up limit
Frequency (MHz)				3740.01	3840	3939.99	(dBm)
80	DFT-s-OFDM QPSK	1	1	17.43	16.98	16.05	17.80
Channel				648668	656000	663332	Tune-up limit
Frequency (MHz)				3730.02	3840	3949.98	(dBm)
60	DFT-s-OFDM QPSK	1	1	17.61	17.24	17.40	18.80
Channel				648000	656000	664000	Tune-up limit
Frequency (MHz)				3720	3840	3960	(dBm)
40	DFT-s-OFDM QPSK	1	1	17.87	16.79	17.20	18.80
Channel				647668	656000	664332	Tune-up limit
Frequency (MHz)				3715.02	3840	3964.98	(dBm)
30	DFT-s-OFDM QPSK	1	1	17.53	16.81	17.35	18.80
Channel				647334	656000	664666	Tune-up limit
Frequency (MHz)				3710.01	3840	3969.99	(dBm)
20	DFT-s-OFDM QPSK	1	1	17.71	16.91	17.07	18.80

B66_n77(3700-3980MHz) (PC2)_Ant 10_18dB							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				650000	656000	662000	(dBm)
Frequency (MHz)				3750	3840	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	18.14	17.05	16.69	18.8
100		1	136	18.23	17.10	16.09	
100		1	271	16.98	16.37	16.67	
100		135	1	18.12	17.56	16.08	18.8
100		135	67	18.02	17.53	16.10	
100		135	136	18.31	17.34	17.89	
100		270	0	18.21	17.69	17.75	
100	DFT-s-OFDM QPSK	1	1	18.19	18.33	18.26	18.8
100		1	136	18.12	17.03	17.00	
100		1	271	18.22	17.65	17.64	
100		135	1	17.85	17.89	17.72	18.8
100		135	67	18.11	16.23	16.10	
100		135	136	17.70	16.81	16.35	
100		270	0	17.71	16.17	16.23	
100	DFT-s-OFDM 16QAM	1	1	17.36	17.45	16.84	17.80
100	DFT-s-OFDM 64QAM	1	1	14.23	14.45	14.14	14.80
100	DFT-s-OFDM 256QAM	1	1	10.88	11.56	11.18	12.80
100	CP-OFDM QPSK	1	1	14.77	14.50	14.32	15.80
100	CP-OFDM 16QAM	1	1	14.28	14.43	13.56	14.80
100	CP-OFDM 64QAM	1	1	11.05	13.48	13.13	13.80
100	CP-OFDM 256QAM	1	1	11.71	10.54	10.18	12.80
Channel				649334	656000	662666	Tune-up limit
Frequency (MHz)				3740.01	3840	3939.99	
80	DFT-s-OFDM QPSK	1	1	16.37	16.64	15.93	17.80
Channel				648668	656000	663332	Tune-up limit
Frequency (MHz)				3730.02	3840	3949.98	
60	DFT-s-OFDM QPSK	1	1	16.39	16.33	15.20	16.80
Channel				648000	656000	664000	Tune-up limit
Frequency (MHz)				3720	3840	3960	
40	DFT-s-OFDM QPSK	1	1	16.79	16.47	15.92	17.80
Channel				647668	656000	664332	Tune-up limit
Frequency (MHz)				3715.02	3840	3964.98	
30	DFT-s-OFDM QPSK	1	1	16.62	16.42	16.07	17.80
Channel				647334	656000	664666	Tune-up limit
Frequency (MHz)				3710.01	3840	3969.99	
20	DFT-s-OFDM QPSK	1	1	16.58	16.59	16.31	17.80

2.4GHz WLAN ANT 8

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
2.4GHz WLAN ANT 8	802.11a 1Mbps	CH 1	2412	13.99	14.00	10.00
		CH 5	2437	14.00	13.50	99.95
		CH 11	2462	13.18	14.00	10.00
	802.11g 6Mbps	CH 1	2412	12.86	13.50	10.00
		CH 5	2437	13.30	14.00	10.00
		CH 11	2462	12.38	13.00	10.00
	802.11n-HT20 MCS0	CH 1	2412	12.14	13.00	10.00
		CH 6	2437	12.39	13.00	10.00
		CH 11	2462	11.93	12.50	10.00
	802.11n-HT40 MCS0	CH 5	2437	12.44	13.00	10.00
		CH 9	2457	12.17	13.00	10.00
		CH 9	2452	12.00	13.00	10.00

5GHz WLAN ANT 8

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
5.0GHz WLAN ANT 8	802.11a 6Mbps	CH 36	5180	13.95	14.50	10.00
		CH 44	5220	14.03	15.00	10.00
		CH 48	5240	13.47	14.50	10.00
	802.11n-HT20 MCS0	CH 36	5180	13.33	14.00	10.00
		CH 44	5220	13.42	14.00	10.00
		CH 48	5240	13.07	14.00	10.00
	802.11n-HT40 MCS0	CH 36	5180	13.96	14.50	10.00
		CH 40	5200	13.61	14.50	10.00
		CH 36	5180	13.33	14.00	10.00
	802.11ac-VHT20 MCS0	CH 44	5220	13.43	14.00	10.00
		CH 48	5240	13.96	14.50	10.00
		CH 36	5180	13.05	14.50	10.00
	802.11ac-VHT40 MCS0	CH 48	5240	13.62	14.50	10.00
		CH 42	5210	13.53	14.50	10.00
		CH 42	5210	13.53	14.50	10.00
	802.11ac-VHT80 MCS0	CH 42	5210	13.53	14.50	10.00
		CH 42	5210	13.53	14.50	10.00
		CH 42	5210	13.53	14.50	10.00
	802.11ac-VHT160 MCS0	CH 42	5210	13.53	14.50	10.00
		CH 42	5210	13.53	14.50	10.00
		CH 42	5210	13.53	14.50	10.00
	802.11ac-VHT320 MCS0	CH 42	5210	13.53	14.50	10.00
		CH 42	5210	13.53	14.50	10.00
		CH 42	5210	13.53	14.50	10.00
	802.11ac-VHT640 MCS0	CH 42	5210	13.53	14.50	10.00
		CH 42	5210	13.53	14.50	10.00
		CH 42	5210	13.53	14.50	10.00
	802.11ac-VHT1280 MCS0	CH 42	5210	13.53	14.50	10.00
		CH 42	5210	13.53	14.50	10.00
		CH 42	5210	13.53	14.50	10.00

5GHz WLAN ANT 8

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
5.0GHz WLAN ANT 8	802.11a 6Mbps	CH 32	5260	12.29	13.00	11.00
		CH 60	5300	11.89	12.50	11.00
		CH 64	5320	11.20	12.00	11.00
	802.11n-HT20 MCS0	CH 32	5260	11.70	12.50	11.00
		CH 60	5300	11.25	12.00	11.00
		CH 64	5320	10.56	11.50	11.00
	802.11n-HT40 MCS0	CH 32	5260	11.96	12.50	11.00
		CH 32	5260	11.12	12.00	11.00
		CH 32	5260	11.18	12.00	11.00
	802.11ac-VHT20 MCS0	CH 60	5300	10.98	11.50	11.00
		CH 64	5320	10.96	11.50	11.00
		CH 64	5320	10.96	11.50	11.00
	802.11ac-VHT40 MCS0	CH 64	5320	11.26	12.00	11.00
		CH 54	5270	11.25	12.00	11.00
		CH 62	5310	11.10	12.00	11.00
	802.11ac-VHT80 MCS0	CH 58	5290	11.18	12.00	11.00
		CH 58	5290	11.18	12.00	11.00
		CH 58	5290	11.18	12.00	11.00
	802.11ac-VHT160 MCS0	CH 58	5290	11.18	12.00	11.00
		CH 58	5290	11.18	12.00	11.00
		CH 58	5290	11.18	12.00	11.00
	802.11ac-VHT320 MCS0	CH 58	5290	11.18	12.00	11.00
		CH 58	5290	11.18	12.00	11.00
		CH 58	5290	11.18	12.00	11.00
	802.11ac-VHT640 MCS0	CH 58	5290	11.18	12.00	11.00
		CH 58	5290	11.18	12.00	11.00
		CH 58	5290	11.18	12.00	11.00
	802.11ac-VHT1280 MCS0	CH 58	5290	11.18	12.00	11.00
		CH 58	5290	11.18	12.00	11.00
		CH 58	5290	11.18	12.00	11.00

5GHz WLAN ANT 8

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
5.0GHz WLAN ANT 8	802.11a 6Mbps	CH 100	5600	12.07	13.00	10.00
		CH 120	5660	12.17	13.00	10.00
		CH 144	5720	12.45	13.50	10.00
	802.11n-HT20 MCS0	CH 100	5600	11.52	12.50	10.00
		CH 120	5660	11.56	12.50	10.00
		CH 144	5720	12.05	13.00	10.00
	802.11n-HT40 MCS0	CH 102	5610	12.17	13.00	10.00
		CH 126	5680	12.08	13.00	10.00
		CH 142	5710	11.77	12.50	10.00
	802.11ac-VHT20 MCS0	CH 100	5600	11.58	12.50	10.00
		CH 120	5660	11.66	12.50	10.00
		CH 144	5720	11.31	12.00	10.00
	802.11ac-VHT40 MCS0	CH 102	5610	12.01	13.00	10.00
		CH 126	5680	11.95	12.50	10.00
		CH 142	5710	11.73	12.50	10.00
	802.11ac-VHT80 MCS0	CH 106	5630	11.88	12.50	10.00
		CH 122	5610	11.78	12.50	10.00
		CH 138	5690	11.56	12.50	10.00
	802.11ac-VHT160 MCS0	CH 106	5630	11.88	12.50	10.00
		CH 122	5610	11.78	12.50	10.00
		CH 138	5690	11.56	12.50	10.00
	802.11ac-VHT320 MCS0	CH 106	5630	11.88	12.50	10.00
		CH 122	5610	11.78	12.50	10.00
		CH 138	5690	11.56	12.50	10.00
	802.11ac-VHT640 MCS0	CH 106	5630	11.88	12.50	10.00
		CH 122	5610	11.78	12.50	10.00
		CH 138	5690	11.56	12.50	10.00
	802.11ac-VHT1280 MCS0	CH 106	5630	11.88	12.50	10.00
		CH 122	5610	11.78	12.50	10.00
		CH 138	5690	11.56	12.50	10.00
	802.11ac-VHT2560 MCS0	CH 106	5630	11.88	12.50	10.00
		CH 122	5610	11.78	12.50	10.00
		CH 138	5690	11.56	12.50	10.00

5GHz WLAN ANT 8

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
5.0GHz WLAN ANT 8	802.11a 6Mbps	CH 140	5740	11.44	12.00	9.50
		CH 157	5780	10.80	11.50	9.50
		CH 165	5820	10.80	11.50	9.50
	802.11n-HT20 MCS0	CH 140	5740	10.85	11.50	9.50
		CH 157	5780	10.17	11.00	9.50
		CH 165	5820	10.17	11.00	9.50
	802.11n-HT40 MCS0	CH 151	5795	11.50	12.00	9.50
		CH 159	5795	10.33	11.00	9.50
		CH 146	5740	10.62	11.00	9.50
	802.11ac-VHT20 MCS0	CH 157	5780	10.15	11.00	9.50
		CH 165	5820	10.10	11.00	9.50
		CH 151	5795	11.25	12.00	9.50
	802.11ac-VHT40 MCS0	CH 159	5795	10.65	11.50	9.50
		CH 155	5775	10.71	11.50	9.50
		CH 155	5775	10.71	11.50	9.50
	802.11ac-VHT80 MCS0	CH 155	5775	10.71	11.50	9.50
		CH 155	5775	10.71	11.50	9.50
		CH 155	5775	10.71	11.50	9.50
	802.11ac-VHT160 MCS0	CH 155	5775	10.71	11.50	9.50
		CH 155	5775	10.71	11.50	9.50
		CH 155	5775	10.71	11.50	9.50
	802.11ac-VHT320 MCS0	CH 155	5775	10.71	11.50	9.50
		CH 155	5775	10.71	11.50	9.50
		CH 155	5775	10.71	11.50	9.50
	802.11ac-VHT640 MCS0	CH 155	5775	10.71	11.50	9.50
		CH 155	5775	10.71	11.50	9.50
		CH 155	5775	10.71	11.50	9.50
	802.11ac-VHT1280 MCS0	CH 155	5775	10.71	11.50	9.50
		CH 155	5775	10.71	11.50	9.50
		CH 155	5775	10.71	11.50	9.50

5GHz WLAN ANT 8

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
5.0GHz WLAN ANT 8	802.11a 6Mbps	CH 140	5740	11.44	12.00	9.50
		CH 157	5780	10.80	11.50	9.50
		CH 165	5820	10.80	11.50	9.50
	802.11n-HT20 MCS0	CH 140	5740	10.85	11.50	9.50
		CH 157	5780	10.17	11.00	9.50
		CH 165	5820	10.17	11.00	9.50
	802.11n-HT40 MCS0	CH 151	5795	11.50	12.00	9.50
		CH 159	5795	10.33	11.00	9.50
		CH 146	5740	10.62	11.00	9.50
	802.11ac-VHT20 MCS0	CH 157	5780	10.15	11.00	9.50
		CH 165	5820	10.10	11.00	9.50
		CH 151	5795	11.25	12.00	9.50
	802.11ac-VHT40 MCS0	CH 159	5795	10.65	11.50	9.50
		CH 155	5775	10.71	11.50	9.50
		CH 155	5775	10.71	11.50	9.50
	802.11ac-VHT80 MCS0	CH 155	5775	10.71	11.50	9.50
		CH 155	5775	10.71	11.50	9.50
		CH 155	5775	10.71	11.50	9.50
	802.11ac-VHT160 MCS0	CH				

Reduced Power Level 4 for ANT 1 & ANT3 & ANT 4 & ANT 7 & ANT8 & ANT9 & ANT10

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	128	189	251		128	189	251		
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8		
Frequency (MHz)	29.70	29.71	29.63	30.70	20.70	20.71	20.63	21.70	0.25
GSM 1 Tx slot	29.84	29.88	29.78	30.70	20.84	20.88	20.78	21.70	
GPRS 1 Tx slot	27.41	27.53	27.45	28.00	21.41	21.53	21.45	22.00	0.12
GPRS 2 Tx slots	25.39	25.42	25.33	26.20	21.13	21.16	21.07	21.94	0.09
GPRS 3 Tx slots	23.89	24.05	23.97	25.00	20.89	21.05	20.97	22.00	0.16
GPRS 4 Tx slots	26.30	26.33	26.19	26.50	17.30	17.33	17.19	17.50	0.14
EDGE 1 Tx slot	23.94	23.98	23.81	24.50	17.94	17.98	17.81	18.50	0.17
EDGE 2 Tx slots	21.97	22.00	21.88	22.50	17.71	17.74	17.62	18.24	0.12
EDGE 3 Tx slots	20.21	20.23	20.16	20.50	17.21	17.23	17.16	17.50	0.07
EDGE 4 Tx slots									
Mode		Max.	29.88			Max.	21.53		
Attenuator	Cable Loss : 0.6								

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	23.17	23.21	23.12	23.80
3GPP Rel 5	HSDPA Subtest-1	21.87	21.88	21.85	22.50
3GPP Rel 5	HSDPA Subtest-2	21.89	21.97	21.92	22.50
3GPP Rel 5	HSDPA Subtest-3	21.44	21.46	21.38	22.00
3GPP Rel 5	HSDPA Subtest-4	21.42	21.42	21.23	22.00
3GPP Rel 8	DC-HSDPA Subtest-1	21.86	21.85	21.84	22.50
3GPP Rel 8	DC-HSDPA Subtest-2	21.82	21.85	21.83	22.50
3GPP Rel 8	DC-HSDPA Subtest-3	21.34	21.36	21.32	22.00
3GPP Rel 8	DC-HSDPA Subtest-4	21.35	21.35	21.34	22.00
3GPP Rel 6	HSUPA Subtest-1	21.93	21.91	21.93	22.50
3GPP Rel 6	HSUPA Subtest-2	21.41	21.31	21.37	22.00
3GPP Rel 6	HSUPA Subtest-3	21.81	21.90	21.92	22.50
3GPP Rel 6	HSUPA Subtest-4	21.87	21.88	21.85	22.50
3GPP Rel 6	HSUPA Subtest-5	21.86	21.89	21.83	22.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	21.87	21.88	21.82	22.50
Attenuator			Cable Loss	0.6	
Mode		Max.	23.21		

Band 2 ANT 7 (1900MHz Band) (dBm)							
Part 24F							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	18.85	18.89	18.82	
20	QPSK	1	49	18.86	18.80	18.66	19.8
20	QPSK	1	99	18.71	18.76	18.75	
20	QPSK	50	0	17.74	17.84	17.76	
20	QPSK	50	24	17.71	17.69	17.75	
20	QPSK	50	50	17.64	17.64	17.65	18.8
20	QPSK	100	0	17.67	17.69	17.64	
20	16QAM	1	0	17.87	18.03	17.92	
20	16QAM	1	49	18.00	18.01	17.80	
20	16QAM	1	99	17.89	17.98	17.96	18.8
20	16QAM	50	0	16.78	16.82	16.65	
20	16QAM	50	24	16.62	16.77	16.66	
20	16QAM	50	50	16.70	16.67	16.79	
20	16QAM	100	0	16.54	16.68	16.72	17.8
20	64QAM	1	0	16.72	16.97	16.89	
20	64QAM	1	49	16.69	16.62	16.86	
20	64QAM	1	99	16.81	16.82	16.90	
20	64QAM	50	0	15.78	15.85	15.77	17.8
20	64QAM	50	24	15.66	15.72	15.60	
20	64QAM	50	50	15.75	15.62	15.65	
20	64QAM	100	0	15.69	15.81	15.76	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	18.78	18.86	18.80	
15	QPSK	1	37	18.74	18.85	18.71	19.8
15	QPSK	1	74	18.61	18.80	18.70	
15	QPSK	36	0	17.72	17.95	17.84	
15	QPSK	36	20	17.72	17.68	17.65	
15	QPSK	36	39	17.64	17.63	17.63	18.8
15	QPSK	75	0	17.55	17.74	17.82	
15	16QAM	1	0	18.02	18.03	17.97	
15	16QAM	1	37	17.95	18.00	17.92	
15	16QAM	1	74	17.77	17.95	17.81	18.8
15	16QAM	36	0	16.90	16.92	16.77	
15	16QAM	36	20	16.83	16.71	16.63	
15	16QAM	36	39	16.69	16.77	16.82	
15	16QAM	75	0	16.59	16.71	16.71	17.8
15	64QAM	1	0	16.80	16.87	16.86	
15	64QAM	1	37	16.66	16.82	16.97	
15	64QAM	1	74	16.78	16.74	16.86	
15	64QAM	36	0	15.76	15.90	15.67	17.8
15	64QAM	36	20	15.57	15.88	15.67	
15	64QAM	36	39	15.71	15.60	15.65	
15	64QAM	75	0	15.54	15.64	15.66	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	18.75	18.84	18.81	
10	QPSK	1	25	18.82	18.74	18.64	19.8
10	QPSK	1	49	18.75	18.75	18.60	
10	QPSK	25	0	17.76	17.85	17.79	
10	QPSK	25	12	17.72	17.79	17.78	
10	QPSK	25	25	17.67	17.67	17.73	18.8
10	QPSK	50	0	17.75	17.65	17.68	
10	16QAM	1	0	17.92	17.98	17.96	
10	16QAM	1	25	17.91	17.96	17.95	
10	16QAM	1	49	17.73	17.86	17.94	18.8
10	16QAM	25	0	16.77	16.91	16.69	
10	16QAM	25	12	16.78	16.70	16.77	
10	16QAM	25	25	16.55	16.73	16.79	
10	16QAM	50	0	16.63	16.77	16.67	17.8
10	64QAM	1	0	16.71	16.95	16.77	
10	64QAM	1	25	16.79	16.75	16.86	
10	64QAM	1	49	16.68	16.60	16.90	
10	64QAM	25	0	15.69	15.86	15.75	16.8
10	64QAM	25	12	15.55	15.72	15.60	
10	64QAM	25	25	15.76	15.54	15.53	
10	64QAM	50	0	15.66	15.86	15.71	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	18.75	18.82	18.77	
5	QPSK	1	12	18.75	18.60	18.63	19.8
5	QPSK	1	24	18.54	18.68	18.81	
5	QPSK	12	0	17.68	17.85	17.78	
5	QPSK	12	7	17.79	17.72	17.67	
5	QPSK	12	13	17.65	17.65	17.58	18.8
5	QPSK	25	0	17.60	17.60	17.64	
5	16QAM	1	0	17.82	17.96	17.87	
5	16QAM	1	12	17.92	17.92	17.86	
5	16QAM	1	24	17.96	17.87	17.95	18.8
5	16QAM	12	0	16.76	16.83	16.55	
5	16QAM	12	7	16.60	16.63	16.65	
5	16QAM	12	13	16.59	16.79	16.73	
5	16QAM	25	0	16.44	16.67	16.63	17.8
5	64QAM	1	0	16.78	16.89	16.74	
5	64QAM	1	12	16.82	16.84	16.88	
5	64QAM	1	24	16.82	16.70	16.82	
5	64QAM	12	0	15.69	15.87	15.88	16.8
5	64QAM	12	7	15.70	15.77	15.71	
5	64QAM	12	13	15.70	15.57	15.70	
5	64QAM	25	0	15.57	15.86	15.68	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	18.69	18.79	18.75	
3	QPSK	1	8	18.77	18.74	18.73	19.8
3	QPSK	1	14	18.64	18.76	18.65	
3	QPSK	8	0	17.72	17.78	17.69	
3	QPSK	8	4	17.74	17.56	17.57	
3	QPSK	8	7	17.68	17.70	17.67	18.8
3	QPSK	15	0	17.72	17.77	17.67	
3	16QAM	1	0	17.88	17.95	17.93	

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	23.8
10	QPSK	1	0	22.69	22.88	22.74	
10	QPSK	1	25	22.72	22.76	22.73	
10	QPSK	1	49	22.58	22.65	22.56	
10	QPSK	25	0	21.71	21.75	21.73	
10	QPSK	25	12	21.63	21.64	21.68	22.8
10	QPSK	25	25	21.60	21.65	21.59	
10	QPSK	50	0	21.56	21.72	21.60	
10	16QAM	1	0	21.79	22.00	21.84	
10	16QAM	1	25	21.81	21.87	21.88	
10	16QAM	1	49	21.88	21.87	21.80	22.8
10	16QAM	25	0	20.70	20.75	20.62	
10	16QAM	25	12	20.50	20.65	20.75	
10	16QAM	25	25	20.49	20.66	20.73	
10	16QAM	50	0	20.54	20.62	20.48	
10	64QAM	1	0	20.89	20.89	20.63	21.8
10	64QAM	1	25	20.65	20.76	20.85	
10	64QAM	1	49	20.67	20.73	20.72	
10	64QAM	25	0	19.62	19.68	19.61	
10	64QAM	25	12	19.56	19.66	19.58	
10	64QAM	25	25	19.43	19.63	19.51	20.8
10	64QAM	50	0	19.55	19.65	19.57	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	22.67	22.70	22.69	23.8
5	QPSK	1	12	22.64	22.62	22.63	
5	QPSK	1	24	22.53	22.62	22.50	
5	QPSK	12	0	21.76	21.85	21.59	
5	QPSK	12	7	21.74	21.60	21.63	
5	QPSK	12	13	21.69	21.60	21.56	22.8
5	QPSK	25	0	21.55	21.72	21.63	
5	16QAM	1	0	21.70	22.01	21.92	
5	16QAM	1	12	21.82	21.96	21.88	
5	16QAM	1	24	21.72	21.77	21.86	
5	16QAM	12	0	20.71	20.77	20.59	21.8
5	16QAM	12	7	20.63	20.60	20.76	
5	16QAM	12	13	20.55	20.59	20.71	
5	16QAM	25	0	20.53	20.61	20.64	
5	64QAM	1	0	20.73	20.84	20.78	
5	64QAM	1	12	20.58	20.63	20.65	21.8
5	64QAM	1	24	20.60	20.71	20.73	
5	64QAM	12	0	19.53	19.74	19.69	
5	64QAM	12	7	19.58	19.60	19.56	
5	64QAM	12	13	19.52	19.63	19.55	
5	64QAM	25	0	19.56	19.61	19.60	20.8
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	Tune-up limit (dBm)
3	QPSK	1	0	22.69	22.73	22.68	23.8
3	QPSK	1	8	22.64	22.68	22.65	
3	QPSK	1	14	22.62	22.66	22.50	
3	QPSK	8	0	21.63	21.73	21.72	
3	QPSK	8	4	21.67	21.64	21.59	
3	QPSK	8	7	21.66	21.68	21.49	22.8
3	QPSK	15	0	21.59	21.58	21.58	
3	16QAM	1	0	21.81	21.96	21.84	
3	16QAM	1	8	21.77	21.95	21.83	
3	16QAM	1	14	21.78	21.77	21.90	
3	16QAM	8	0	20.70	20.70	20.64	21.8
3	16QAM	8	4	20.53	20.57	20.55	
3	16QAM	8	7	20.59	20.53	20.58	
3	16QAM	15	0	20.55	20.67	20.64	
3	64QAM	1	0	20.69	20.83	20.76	
3	64QAM	1	8	20.63	20.64	20.71	21.8
3	64QAM	1	14	20.67	20.62	20.71	
3	64QAM	8	0	19.65	19.71	19.76	
3	64QAM	8	4	19.65	19.71	19.61	
3	64QAM	8	7	19.60	19.56	19.64	
3	64QAM	15	0	19.61	19.76	19.59	20.8
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	Tune-up limit (dBm)
1.4	QPSK	1	0	22.61	22.76	22.64	23.8
1.4	QPSK	1	3	22.60	22.67	22.58	
1.4	QPSK	1	5	22.60	22.57	22.51	
1.4	QPSK	3	0	21.74	21.89	21.84	
1.4	QPSK	3	1	21.75	21.75	21.74	
1.4	QPSK	3	3	21.74	21.76	21.77	22.8
1.4	QPSK	6	0	21.46	21.62	21.57	
1.4	16QAM	1	0	21.72	22.08	21.90	
1.4	16QAM	1	3	21.77	21.83	21.71	
1.4	16QAM	1	5	21.87	21.78	21.75	
1.4	16QAM	3	0	20.76	20.75	20.72	21.8
1.4	16QAM	3	1	20.78	20.76	20.74	
1.4	16QAM	3	3	20.72	20.73	20.71	
1.4	16QAM	6	0	20.46	20.71	20.49	
1.4	64QAM	1	0	20.81	20.78	20.76	
1.4	64QAM	1	3	20.67	20.55	20.79	21.8
1.4	64QAM	1	5	20.63	20.60	20.68	
1.4	64QAM	3	0	19.75	19.75	19.76	
1.4	64QAM	3	1	19.71	19.79	19.78	
1.4	64QAM	3	3	19.77	19.75	19.72	
1.4	64QAM	6	0	19.41	19.58	19.64	20.8

3	16QAM	1	8	17.98	17.92	17.97	18.8
3	16QAM	1	14	17.77	17.88	17.86	
3	16QAM	8	0	16.82	16.87	16.63	17.8
3	16QAM	8	4	16.60	16.62	16.85	
3	16QAM	8	7	16.52	16.76	16.71	
3	16QAM	15	0	16.62	16.69	16.68	
3	64QAM	1	0	16.80	16.86	16.97	17.8
3	64QAM	1	8	16.78	16.61	16.84	
3	64QAM	1	14	16.78	16.69	16.87	
3	64QAM	8	0	15.71	15.76	15.73	16.8
3	64QAM	8	4	15.71	15.89	15.64	
3	64QAM	8	7	15.56	15.54	15.56	
3	64QAM	15	0	15.64	15.79	15.59	
Channel				18607	18900	19193	Tune-up limit
Frequency (MHz)				1850.7	1880	1909.3	(dBm)
1.4	QPSK	1	0	18.72	18.80	18.74	19.8
1.4	QPSK	1	3	18.66	18.70	18.78	
1.4	QPSK	1	5	18.72	18.73	18.57	
1.4	QPSK	3	0	17.86	17.88	17.80	
1.4	QPSK	3	1	17.83	17.83	17.82	
1.4	QPSK	3	3	17.83	17.85	17.81	
1.4	QPSK	6	0	17.70	17.69	17.73	18.8
1.4	16QAM	1	0	18.05	18.03	17.88	
1.4	16QAM	1	3	17.82	17.99	17.94	18.8
1.4	16QAM	1	5	17.86	17.94	17.85	
1.4	16QAM	3	0	16.83	16.90	16.80	
1.4	16QAM	3	1	16.84	16.87	16.85	
1.4	16QAM	3	3	16.81	16.80	16.83	
1.4	16QAM	6	0	16.47	16.68	16.57	17.8
1.4	64QAM	1	0	16.71	16.90	16.74	
1.4	64QAM	1	3	16.66	16.62	16.82	17.8
1.4	64QAM	1	5	16.72	16.70	16.70	
1.4	64QAM	3	0	15.87	15.94	15.88	
1.4	64QAM	3	1	15.81	15.89	15.86	
1.4	64QAM	3	3	15.85	15.82	15.81	
1.4	64QAM	6	0	15.71	15.79	15.67	16.8

Band 66 ANT 7 (dBm)							
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	18.87	18.95	18.90	19.8
20	QPSK	1	49	18.64	18.60	18.78	
20	QPSK	1	99	18.73	18.87	18.69	
20	QPSK	50	0	17.86	17.91	17.87	
20	QPSK	50	24	17.73	17.78	17.75	18.8
20	QPSK	50	50	17.63	17.77	17.67	
20	QPSK	100	0	17.66	17.64	17.87	
20	16QAM	1	0	17.85	18.10	17.93	
20	16QAM	1	49	18.03	18.08	17.77	18.8
20	16QAM	1	99	17.97	17.93	17.90	
20	16QAM	50	0	16.86	16.89	16.75	
20	16QAM	50	24	16.79	16.71	16.78	
20	16QAM	50	50	16.66	16.73	16.81	17.8
20	16QAM	100	0	16.75	16.92	16.71	
20	64QAM	1	0	16.91	16.97	16.73	
20	64QAM	1	49	16.72	16.83	16.86	
20	64QAM	1	99	16.83	16.77	16.86	17.8
20	64QAM	50	0	15.70	15.83	15.70	
20	64QAM	50	24	15.74	15.93	15.69	
20	64QAM	50	50	15.65	15.67	15.67	
20	64QAM	100	0	15.60	15.79	15.71	16.8
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	Tune-up limit (dBm)
15	QPSK	1	0	18.81	18.91	18.85	19.8
15	QPSK	1	37	18.87	18.78	18.77	
15	QPSK	1	74	18.77	18.78	18.71	
15	QPSK	36	0	17.83	17.85	17.77	
15	QPSK	36	20	17.87	17.71	17.69	18.8
15	QPSK	36	39	17.80	17.79	17.72	
15	QPSK	75	0	17.70	17.70	17.79	
15	16QAM	1	0	17.95	18.01	18.07	
15	16QAM	1	37	17.95	17.89	17.77	18.8
15	16QAM	1	74	17.84	18.05	17.94	
15	16QAM	36	0	16.77	16.84	16.77	
15	16QAM	36	20	16.60	16.53	16.78	
15	16QAM	36	39	16.69	16.57	16.80	17.8
15	16QAM	75	0	16.60	16.76	16.61	
15	64QAM	1	0	16.79	16.91	16.95	
15	64QAM	1	37	16.77	16.80	16.77	
15	64QAM	1	74	16.80	16.74	16.85	17.8
15	64QAM	36	0	15.71	15.74	15.80	
15	64QAM	36	20	15.65	15.67	15.72	
15	64QAM	36	39	15.73	15.67	15.74	
15	64QAM	75	0	15.75	15.87	15.78	16.8
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	Tune-up limit (dBm)
10	QPSK	1	0	18.78	18.89	18.83	19.8
10	QPSK	1	25	18.68	18.68	18.71	
10	QPSK	1	49	18.68	18.72	18.72	
10	QPSK	25	0	17.78	17.91	17.86	
10	QPSK	25	12	17.86	17.76	17.79	18.8
10	QPSK	25	25	17.76	17.74	17.72	
10	QPSK	50	0	17.78	17.72	17.86	
10	16QAM	1	0	17.99	18.09	17.95	
10	16QAM	1	25	17.81	17.94	17.89	18.8
10	16QAM	1	49	17.80	17.95	17.96	
10	16QAM	25	0	16.89	16.80	16.60	
10	16QAM	25	12	16.69	16.68	16.71	
10	16QAM	25	25	16.61	16.72	16.75	17.8
10	16QAM	50	0	16.57	16.75	16.61	
10	64QAM	1	0	16.92	16.94	16.79	
10	64QAM	1	25	16.65	16.64	16.89	
10	64QAM	1	49	16.82	16.68	16.79	17.8
10	64QAM	25	0	15.79	15.71	15.75	
10	64QAM	25	12	15.68	15.80	15.53	
10	64QAM	25	25	15.71	15.62	15.52	
10	64QAM	50	0	15.59	15.73	15.62	16.8
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	Tune-up limit (dBm)
5	QPSK	1	0	18.79	18.86	18.71	19.8
5	QPSK	1	12	18.70	18.71	18.69	
5	QPSK	1	24	18.65	18.67	18.62	
5	QPSK	12	0	17.88	17.92	17.75	
5	QPSK	12	7	17.89	17.70	17.64	18.8
5	QPSK	12	13	17.68	17.80	17.61	
5	QPSK	25	0	17.67	17.77	17.83	
5	16QAM	1	0	17.81	18.02	17.90	
5	16QAM	1	12	18.05	17.98	17.87	18.8
5	16QAM	1	24	17.92	18.04	17.86	
5	16QAM	12	0	16.91	16.79	16.76	
5	16QAM	12	7	16.62	16.85	16.84	
5	16QAM	12	13	16.68	16.77	16.69	17.8
5	16QAM	25	0	16.61	16.72	16.66	
5	64QAM	1	0	16.91	17.07	16.80	
5	64QAM	1	12	16.70	16.78	16.92	
5	64QAM	1	24	16.71	16.72	16.87	17.8
5	64QAM	12	0	15.73	15.75	15.69	
5	64QAM	12	7	15.60	15.80	15.57	
5	64QAM	12	13	15.72	15.64	15.56	
5	64QAM	25	0	15.75	15.81	15.60	16.8
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	Tune-up limit (dBm)
3	QPSK	1	0	18.78	18.87	18.75	19.8
3	QPSK	1	8	18.73	18.74	18.77	
3	QPSK	1	14	18.67	18.80	18.62	
3	QPSK	8	0	17.66	17.75	17.73	
3	QPSK	8	4	17.72	17.59	17.68	18.8
3	QPSK	8	7	17.81	17.66	17.59	
3	QPSK	15	0	17.59	17.73	17.65	
3	16QAM	1	0	17.90	18.05	18.04	

3	16QAM	1	8	17.91	18.08	17.88	18.8
3	16QAM	1	14	17.85	17.96	17.99	
3	16QAM	8	0	16.94	16.92	16.69	
3	16QAM	8	4	16.77	16.74	16.72	17.8
3	16QAM	8	7	16.71	16.70	16.79	
3	16QAM	15	0	16.70	16.80	16.65	
3	64QAM	1	0	16.72	17.03	16.88	
3	64QAM	1	8	16.83	16.83	16.81	17.8
3	64QAM	1	14	16.72	16.72	16.76	
3	64QAM	8	0	15.69	15.70	15.72	
3	64QAM	8	4	15.59	15.77	15.66	16.8
3	64QAM	8	7	15.72	15.60	15.65	
3	64QAM	15	0	15.62	15.78	15.76	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	18.81	18.86	18.70	
1.4	QPSK	1	3	18.81	18.68	18.69	
1.4	QPSK	1	5	18.55	18.76	18.81	19.8
1.4	QPSK	3	0	17.87	17.88	17.85	
1.4	QPSK	3	1	17.82	17.82	17.80	
1.4	QPSK	3	3	17.80	17.81	17.82	
1.4	QPSK	6	0	17.70	17.74	17.66	18.8
1.4	16QAM	1	0	17.94	18.03	17.85	
1.4	16QAM	1	3	17.92	17.97	17.75	
1.4	16QAM	1	5	17.84	17.99	17.86	18.8
1.4	16QAM	3	0	16.73	16.97	16.67	
1.4	16QAM	3	1	16.82	16.68	16.80	
1.4	16QAM	3	3	16.62	16.74	16.68	
1.4	16QAM	6	0	16.69	16.80	16.61	17.8
1.4	64QAM	1	0	16.71	16.90	16.85	
1.4	64QAM	1	3	16.77	16.73	16.75	
1.4	64QAM	1	5	16.68	16.71	16.93	17.8
1.4	64QAM	3	0	15.61	15.73	15.79	
1.4	64QAM	3	1	15.59	15.82	15.69	
1.4	64QAM	3	3	15.69	15.61	15.56	
1.4	64QAM	6	0	15.62	15.71	15.79	16.8

Band 48 ANT 4 (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	Tune-up limit (dBm)
Frequency (MHz)				3560	3609	3625	3641	3690	
20	QPSK	1	0	18.71	18.74	18.85	18.73	18.69	19.8
20	QPSK	1	49	18.67	18.68	18.75	18.70	18.64	
20	QPSK	1	99	18.58	18.73	18.69	18.65	18.74	
20	QPSK	50	0	17.71	17.80	17.84	17.75	17.76	
20	QPSK	50	24	17.75	17.79	17.69	17.67	17.61	18.8
20	QPSK	50	50	17.70	17.61	17.72	17.60	17.58	
20	QPSK	100	0	17.65	17.63	17.70	17.57	17.57	
20	16QAM	1	0	17.92	17.94	17.97	17.88	17.92	
20	16QAM	1	49	17.91	17.85	17.92	17.77	17.74	18.8
20	16QAM	1	99	17.80	17.67	17.90	17.89	17.86	
20	16QAM	50	0	16.82	16.85	16.87	16.74	16.69	
20	16QAM	50	24	16.60	16.59	16.60	16.73	16.77	
20	16QAM	50	50	16.66	16.62	16.69	16.76	16.61	17.8
20	16QAM	100	0	16.50	16.55	16.74	16.62	16.51	
20	64QAM	1	0	16.74	16.86	16.94	16.91	16.67	
20	64QAM	1	49	16.77	16.72	16.64	16.73	16.90	
20	64QAM	1	99	16.64	16.69	16.70	16.85	16.90	16.8
20	64QAM	50	0	15.55	15.57	15.79	15.78	15.63	
20	64QAM	50	24	15.72	15.48	15.60	15.61	15.57	
20	64QAM	50	50	15.53	15.58	15.65	15.55	15.65	
20	64QAM	100	0	15.67	15.56	15.71	15.68	15.52	
Channel				55315	55820	55990	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3625	3642	3692.5	
15	QPSK	1	0	18.69	18.80	18.83	18.82	18.75	19.8
15	QPSK	1	37	18.71	18.59	18.78	18.78	18.78	
15	QPSK	1	74	18.73	18.69	18.66	18.59	18.70	
15	QPSK	36	0	17.61	17.84	17.86	17.68	17.78	
15	QPSK	36	20	17.70	17.78	17.70	17.62	17.56	18.8
15	QPSK	36	39	17.57	17.70	17.68	17.59	17.54	
15	QPSK	75	0	17.69	17.68	17.73	17.73	17.73	
15	16QAM	1	0	17.91	17.98	18.00	17.97	17.92	
15	16QAM	1	37	17.78	17.97	17.82	17.70	17.83	18.8
15	16QAM	1	74	17.83	17.67	17.87	17.80	17.85	
15	16QAM	36	0	16.74	16.71	16.79	16.59	16.72	
15	16QAM	36	20	16.70	16.65	16.53	16.68	16.78	
15	16QAM	36	39	16.60	16.55	16.74	16.64	16.78	17.8
15	16QAM	75	0	16.57	16.64	16.82	16.53	16.65	
15	64QAM	1	0	16.65	16.84	16.90	16.66	16.76	
15	64QAM	1	37	16.55	16.65	16.71	16.71	16.87	
15	64QAM	1	74	16.78	16.57	16.66	16.74	16.88	16.8
15	64QAM	36	0	15.69	15.57	15.72	15.65	15.69	
15	64QAM	36	20	15.58	15.62	15.50	15.50	15.57	
15	64QAM	36	39	15.53	15.53	15.61	15.69	15.58	
15	64QAM	75	0	15.67	15.58	15.67	15.70	15.58	
Channel				55290	55815	55990	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3625	3642.5	3695	
10	QPSK	1	0	18.78	18.78	18.80	18.65	18.60	19.8
10	QPSK	1	25	18.58	18.78	18.65	18.75	18.67	
10	QPSK	1	49	18.68	18.54	18.67	18.70	18.67	
10	QPSK	25	0	17.71	17.77	17.86	17.70	17.72	
10	QPSK	25	12	17.71	17.73	17.60	17.60	17.58	18.8
10	QPSK	25	25	17.54	17.77	17.66	17.58	17.52	
10	QPSK	50	0	17.69	17.69	17.82	17.61	17.61	
10	16QAM	1	0	17.75	17.84	17.91	17.90	17.90	
10	16QAM	1	25	17.86	17.92	17.83	17.70	17.89	18.8
10	16QAM	1	49	17.77	17.92	17.85	17.77	17.94	
10	16QAM	25	0	16.84	16.85	16.86	16.70	16.57	
10	16QAM	25	12	16.75	16.76	16.50	16.64	16.60	
10	16QAM	25	25	16.53	16.61	16.73	16.65	16.73	17.8
10	16QAM	50	0	16.54	16.58	16.72	16.51	16.46	
10	64QAM	1	0	16.72	16.77	16.83	16.73	16.76	
10	64QAM	1	25	16.66	16.63	16.65	16.65	16.74	
10	64QAM	1	49	16.68	16.55	16.73	16.72	16.78	16.8
10	64QAM	25	0	15.68	15.67	15.69	15.66	15.76	
10	64QAM	25	12	15.71	15.64	15.84	15.57	15.51	
10	64QAM	25	25	15.66	15.80	15.59	15.65	15.65	
10	64QAM	50	0	15.54	15.55	15.79	15.68	15.52	
Channel				55265	55810	55990	56170	56175	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3625	3643	3697.5	
5	QPSK	1	0	18.59	18.75	18.81	18.65	18.60	19.8
5	QPSK	1	12	18.64	18.60	18.70	18.73	18.55	
5	QPSK	1	24	18.65	18.73	18.78	18.66	18.66	
5	QPSK	12	0	17.61	17.73	17.84	17.82	17.74	
5	QPSK	12	7	17.87	17.89	17.57	17.72	17.64	18.8
5	QPSK	12	13	17.55	17.55	17.63	17.56	17.61	
5	QPSK	25	0	17.72	17.65	17.75	17.69	17.68	
5	16QAM	1	0	17.84	17.89	18.01	17.85	17.79	
5	16QAM	1	12	17.91	18.00	17.83	17.79	17.73	18.8
5	16QAM	1	24	17.89	17.78	17.94	17.88	17.81	
5	16QAM	12	0	16.82	16.70	16.79	16.69	16.58	
5	16QAM	12	7	16.65	16.53	16.57	16.66	16.66	
5	16QAM	12	13	16.59	16.56	16.58	16.72	16.72	17.8
5	16QAM	25	0	16.43	16.50	16.75	16.60	16.58	
5	64QAM	1	0	16.66	16.71	16.97	16.83	16.80	
5	64QAM	1	12	16.65	16.63	16.68	16.93	16.74	
5	64QAM	1	24	16.77	16.58	16.67	16.71	16.79	16.8
5	64QAM	12	0	15.79	15.77	15.79	15.78	15.65	
5	64QAM	12	7	15.66	15.56	15.77	15.59	15.59	
5	64QAM	25	0	15.55	15.69	15.60	15.64	15.55	
5	64QAM	25	0	15.52	15.65	15.62	15.66	15.71	

Band 48 ANT 10 (3.5G Band) (dBm)_Ant 10_20dB									
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	Tune-up limit (dBm)
Frequency (MHz)				3560	3609	3625	3641	3690	
20	QPSK	1	0	20.21	20.24	20.35	20.23	20.19	21.3
20	QPSK	1	49	20.17	20.18	20.25	20.20	20.14	
20	QPSK	1	99	20.08	20.23	20.19	20.15	20.24	
20	QPSK	50	0	19.21	19.30	19.34	19.25	19.26	
20	QPSK	50	24	19.25	19.29	19.19	19.17	19.11	20.3
20	QPSK	50	50	19.20	19.11	19.22	19.10	19.06	
20	QPSK	100	0	19.15	19.11	19.20	19.07	19.07	
20	16QAM	1	0	19.42	19.44	19.47	19.39	19.42	
20	16QAM	1	49	19.41	19.35	19.42	19.27	19.24	20.3
20	16QAM	1	99	19.30	19.17	19.40	19.39	19.36	
20	16QAM	50	0	18.32	18.35	18.37	18.24	18.19	
20	16QAM	50	24	18.10	18.09	18.10	18.23	18.27	
20	16QAM	50	50	18.16	18.12	18.19	18.26	18.11	19.3
20	16QAM	100	0	18.00	18.05	18.24	18.12	18.01	
20	64QAM	1	0	18.24	18.36	18.44	18.41	18.17	
20	64QAM	1	49	18.27	18.22	18.14	18.23	18.40	
20	64QAM	1	99	18.14	18.19	18.20	18.35	18.40	18.3
20	64QAM	50	0	17.05	17.07	17.29	17.28	17.13	
20	64QAM	50	24	17.22	16.98	17.19	17.11	17.07	
20	64QAM	50	50	17.03	17.08	17.15	17.05	17.15	
20	64QAM	100	0	17.17	17.06	17.21	17.18	17.02	
Channel				55315	55820	55990	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3606	3625	3642	3692.5	
15	QPSK	1	0	20.19	20.30	20.33	20.32	20.25	21.3
15	QPSK	1	35	20.09	20.28	20.28	20.28	20.28	
15	QPSK	1	74	20.23	20.19	20.16	20.09	20.20	
15	QPSK	36	0	19.11	19.34	19.36	19.18	19.28	
15	QPSK	36	20	19.20	19.28	19.20	19.12	19.06	20.3
15	QPSK	36	39	19.07	19.20	19.18	19.09	19.04	
15	QPSK	75	0	19.20	19.13	19.15	19.03	19.23	
15	16QAM	0	0	19.41	19.38	19.50	19.47	19.32	
15	16QAM	1	37	19.28	19.47	19.32	19.20	19.33	20.3
15	16QAM	1	74	19.33	19.17	19.37	19.30	19.35	
15	16QAM	36	0	18.24	18.21	18.29	18.09	18.22	
15	16QAM	36	20	18.25	18.15	18.25	18.15	18.28	
15	16QAM	36	39	18.10	18.05	18.04	18.14	18.28	19.3
15	16QAM	75	0	18.07	18.14	18.32	18.03	18.15	
15	64QAM	1	0	18.15	18.34	18.40	18.16	18.26	
15	64QAM	1	37	18.05	18.15	18.21	18.21	18.37	
15	64QAM	1	74	18.28	18.07	18.16	18.24	18.38	19.3
15	64QAM	36	0	17.19	17.07	17.21	17.15	17.19	
15	64QAM	36	20	17.08	17.12	17.31	17.00	17.11	
15	64QAM	36	39	17.03	17.03	17.11	17.19	17.06	
15	64QAM	75	0	17.17	17.08	17.17	17.20	17.05	
Channel				55290	55815	55990	56160	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3625	3642.5	3695	
10	QPSK	1	0	20.28	20.28	20.30	20.15	20.17	21.3
10	QPSK	1	25	20.08	20.28	20.15	20.25	20.17	
10	QPSK	1	49	20.18	20.04	20.17	20.20	20.17	
10	QPSK	25	0	19.21	19.27	19.36	19.20	19.22	
10	QPSK	25	12	19.21	19.23	19.19	19.18	19.08	20.3
10	QPSK	25	25	19.04	19.27	19.16	19.08	19.21	
10	QPSK	50	0	19.19	19.19	19.42	19.11	19.31	
10	16QAM	1	0	19.25	19.34	19.41	19.40	19.40	
10	16QAM	1	25	19.36	19.42	19.33	19.20	19.39	20.3
10	16QAM	15	49	19.07	19.42	19.35	19.27	19.44	
10	16QAM	25	0	18.34	18.50	18.35	18.36	18.07	
10	16QAM	25	12	18.25	18.26	18.00	18.14	18.10	
10	16QAM	25	25	18.03	18.11	18.23	18.15	18.23	19.3
10	16QAM	50	0	18.04	18.08	18.22	18.01	17.96	
10	16QAM	1	0	18.22	18.27	18.33	18.23	18.26	
10	16QAM	1	25	18.18	18.13	18.15	18.35	18.24	
10	64QAM	1	49	18.18	18.05	18.23	18.22	18.28	19.3
10	64QAM	25	0	17.18	17.17	17.19	17.16	17.28	
10	64QAM	25	12	17.21	17.14	17.34	17.07	17.01	
10	64QAM	25	25	17.14	17.10	17.09	17.15	17.15	
10	64QAM	50	0	17.06	17.06	17.29	17.18	17.02	
Channel				55505	56010	56090	56310	56810	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3625	3643	3697.5	
5	QPSK	1	0	20.08	20.25	20.31	20.15	20.20	21.3
5	QPSK	1	12	20.14	20.10	20.20	20.23	20.15	
5	QPSK	1	24	20.15	20.23	20.28	20.16	20.26	
5	QPSK	12	0	19.11	19.23	19.34	19.32	19.24	
5	QPSK	12	13	19.37	19.35	19.07	19.22	19.14	20.3
5	QPSK	12	13	19.05	19.05	19.13	19.06	19.11	
5	QPSK	25	0	19.22	19.15	19.25	19.19	19.19	
5	16QAM	1	0	19.34	19.39	19.51	19.35	19.28	
5	16QAM	1	12	19.41	19.50	19.33	19.29	19.23	20.3
5	16QAM	1	24	19.39	19.28	19.44	19.38	19.31	
5	16QAM	12	0	18.32	18.20	18.29	18.19	18.08	
5	16QAM	12	13	18.15	18.03	18.07	18.16	18.16	
5	16QAM	12	13	18.09	18.06	18.08	18.22	18.22	19.3
5	16QAM	25	0	17.03	18.00	18.25	18.10	18.08	
5	64QAM	1	0	18.16	18.21	18.47	18.33	18.30	
5	64QAM	1	12	18.15	18.13	18.18	18.43	18.24	
5	64QAM	1	28	18.27	18.08	18.17	18.21	18.29	19.3
5	64QAM	12	0	17.29	17.27	17.29	17.28	17.15	
5	64QAM	12	7	17.06	17.06	17.27	17.09	17.09	
5	64QAM	12	13	17.05	17.19	17.10	17.04	17.05	
5	64QAM	12	15	17.02	17.15	17.16	17.06	17.21	

CA_5B Sensor on For Body									
Combination:10MHz+10MHz(50RB+50RB)									
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset		
20450	20450	20549	QPSK	1	0	0	0	22.84	23.5
20476	20476	20575	QPSK	1	0	0	0	22.77	23.5
20501	20501	20600	QPSK	1	0	0	0	22.73	23.5
20450	20450	20549	16QAM	1	0	0	0	22.39	23
20476	20476	20575	16QAM	1	0	0	0	22.24	23
20501	20501	20600	16QAM	1	0	0	0	22.27	23
20450	20450	20549	64QAM	1	0	0	0	21.78	22.5
20476	20476	20575	64QAM	1	0	0	0	21.55	22.5
20501	20501	20600	64QAM	1	0	0	0	21.61	22.5
20450	20450	20549	QPSK	25	0	0	0	22.08	23
20476	20476	20575	QPSK	25	0	0	0	22.04	23
20501	20501	20600	QPSK	25	0	0	0	22.05	23

CA_48C Sensor on For Body									
Combination:20MHz+20MHz(100RB+100RB)									
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset		
55340	55340	55538	QPSK	1	0	0	0	18.39	19.00
55990	55891	56089	QPSK	1	0	0	0	18.42	19.00
56640	56442	56640	QPSK	1	0	0	0	18.37	19.00
55340	55340	55538	16QAM	1	0	0	0	17.79	18.50
55990	55891	56089	16QAM	1	0	0	0	17.88	18.50
56640	56442	56640	16QAM	1	0	0	0	17.83	18.50
55340	55340	55538	64QAM	1	0	0	0	17.31	18.00
55990	55891	56089	64QAM	1	0	0	0	17.37	18.00
56640	56442	56640	64QAM	1	0	0	0	17.28	18.00
55340	55340	55538	QPSK	50	0	0	0	17.58	18.5
55990	55891	56089	QPSK	50	0	0	0	17.63	18.5
56640	56442	56640	QPSK	50	0	0	0	17.61	18.5

B5_n2 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				372000	376000	380000	(dBm)
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	19.75	19.68	19.51	20.8
20		1	53	19.78	19.68	19.55	
20		1	104	19.74	19.64	19.54	
20		50	1	19.77	19.77	19.57	20.8
20	DFT-s-OFDM QPSK	50	25	19.84	19.75	19.56	
20		50	50	19.86	19.62	19.48	
20		100	0	19.81	19.76	19.56	
20	DFT-s-OFDM 16QAM	1	1	19.99	20.07	20.04	20.8
20		1	53	19.89	19.97	19.91	
20		1	104	19.77	19.74	19.68	
20		50	1	19.81	19.91	19.82	20.8
20	DFT-s-OFDM 64QAM	50	25	19.86	19.76	19.71	
20		50	50	19.75	19.64	19.59	
20		100	0	19.82	19.74	19.63	
20	DFT-s-OFDM 256QAM	1	1	20.02	20.00	19.84	20.80
20	CP-OFDM QPSK	1	1	18.50	18.42	18.26	19.80
20	CP-OFDM 16QAM	1	1	16.35	16.29	16.07	16.80
20	CP-OFDM 64QAM	1	1	19.48	19.36	19.20	19.80
20	CP-OFDM 256QAM	1	1	18.80	18.71	18.52	19.80
20		1	1	17.46	17.31	17.13	17.80
20		1	1	14.42	14.31	14.14	14.80
Channel				371500	376000	380500	Tune-up limit
Frequency (MHz)				1857.5	1880	1902.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	19.83	19.73	19.55	20.80
Channel				371000	376000	381000	Tune-up limit
Frequency (MHz)				1855	1880	1905	(dBm)
10	DFT-s-OFDM QPSK	1	1	19.99	19.74	19.57	20.80
Channel				370500	376000	381500	Tune-up limit
Frequency (MHz)				1852.5	1880	1907.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	19.96	19.78	19.68	20.80

B13_n2 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				372000	376000	380000	(dBm)
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	19.80	19.72	19.55	20.8
20		1	53	19.79	19.73	19.47	
20		1	104	19.78	19.59	19.46	
20		50	1	19.83	19.75	19.54	20.8
20		50	25	19.89	19.76	19.62	
20		50	50	19.83	19.66	19.55	
20		100	0	19.87	19.71	19.56	
20	DFT-s-OFDM QPSK	1	1	19.90	20.05	19.79	20.8
20		1	53	19.70	19.83	19.71	
20		1	104	19.69	19.69	19.65	
20		50	1	19.81	19.90	19.75	20.8
20		50	25	19.89	19.70	19.65	
20		50	50	19.82	19.70	19.59	
20		100	0	19.87	19.71	19.62	
20	DFT-s-OFDM 16QAM	1	1	19.96	20.01	19.88	20.80
20	DFT-s-OFDM 64QAM	1	1	18.48	18.46	18.17	18.80
20	DFT-s-OFDM 256QAM	1	1	16.37	16.36	16.05	16.80
20	CP-OFDM QPSK	1	1	19.40	19.37	19.11	19.80
20	CP-OFDM 16QAM	1	1	18.80	18.89	18.49	19.80
20	CP-OFDM 64QAM	1	1	17.40	17.35	17.06	17.80
20	CP-OFDM 256QAM	1	1	14.36	14.35	14.07	14.80
Channel				371500	376000	380500	Tune-up limit
Frequency (MHz)				1857.5	1880	1902.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	19.90	19.71	19.50	20.80
Channel				371000	376000	381000	Tune-up limit
Frequency (MHz)				1855	1880	1905	(dBm)
10	DFT-s-OFDM QPSK	1	1	19.91	19.81	19.62	20.80
Channel				370500	376000	381500	Tune-up limit
Frequency (MHz)				1852.5	1880	1907.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	19.88	19.74	19.60	20.80

B66_n2 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				372000	376000	380000	(dBm)
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	19.92	19.90	19.82	20.8
20		1	53	19.93	19.86	19.88	
20		1	104	19.97	19.93	19.93	
20		50	1	19.60	19.56	19.50	20.8
20	DFT-s-OFDM QPSK	50	25	20.01	19.91	19.92	
20		50	50	19.63	19.52	19.53	
20		100	0	19.65	19.57	19.55	
20		1	1	19.98	20.06	19.96	20.8
20	DFT-s-OFDM 16QAM	1	53	19.98	19.92	19.91	
20		1	104	19.96	19.89	19.94	
20		50	1	19.90	16.40	19.85	20.8
20		50	25	19.85	19.80	19.86	
20	DFT-s-OFDM 64QAM	50	50	19.02	19.01	19.06	
20		100	0	19.13	19.05	19.04	
20	DFT-s-OFDM 256QAM	1	1	19.36	19.16	19.27	19.80
20	CP-OFDM QPSK	1	1	17.76	17.72	17.63	18.80
20	CP-OFDM 16QAM	1	1	15.71	15.60	15.54	16.80
20	CP-OFDM 64QAM	1	1	18.56	18.64	18.55	19.80
20	CP-OFDM 256QAM	1	1	18.12	18.10	18.02	18.80
20		1	1	16.62	16.60	16.52	17.80
20		1	1	13.75	13.61	13.60	14.80
Channel				371500	376000	380500	Tune-up limit
Frequency (MHz)				1857.5	1880	1902.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	19.98	19.95	19.94	20.80
Channel				371000	376000	381000	Tune-up limit
Frequency (MHz)				1855	1880	1905	(dBm)
10	DFT-s-OFDM QPSK	1	1	19.97	20.04	20.03	20.80
Channel				370500	376000	381500	Tune-up limit
Frequency (MHz)				1852.5	1880	1907.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	20.04	20.01	20.02	20.80

B2_n5 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				166800	167300	167800	(dBm)
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	19.91	19.86	19.79	20.8
20		1	53	19.82	19.91	19.95	
20		1	104	19.81	19.72	19.79	
20		50	1	19.86	19.91	19.85	20.8
20	DFT-s-OFDM QPSK	50	25	19.90	19.89	20.00	
20		50	50	19.91	19.87	19.89	
20		100	0	19.89	19.87	19.97	
20		1	1	20.04	20.13	20.03	20.8
20	DFT-s-OFDM 16QAM	1	53	19.89	19.97	19.96	
20		1	104	19.85	19.83	19.69	
20		50	1	19.83	19.99	19.85	20.8
20		50	25	19.86	19.90	19.98	
20	DFT-s-OFDM 64QAM	50	50	19.90	19.87	19.84	
20		100	0	19.88	19.84	19.97	
20	DFT-s-OFDM 256QAM	1	1	20.11	20.05	20.08	20.80
20	CP-OFDM QPSK	1	1	18.53	18.59	18.58	19.80
20	CP-OFDM 16QAM	1	1	16.37	16.42	16.38	16.80
20	CP-OFDM 64QAM	1	1	19.42	19.48	19.46	19.80
20	CP-OFDM 256QAM	1	1	18.76	18.78	18.78	19.80
20		1	1	17.57	17.49	17.43	18.80
20		1	1	14.42	14.46	14.38	14.80
Channel				166300	167300	168300	Tune-up limit
Frequency (MHz)				831.5	836.5	841.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	19.93	19.90	19.97	20.80
Channel				165800	167300	168800	Tune-up limit
Frequency (MHz)				829	836.5	844	(dBm)
10	DFT-s-OFDM QPSK	1	1	19.88	19.93	19.98	20.80
Channel				165300	167300	169300	Tune-up limit
Frequency (MHz)				826.5	836.5	846.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	20.04	19.91	19.92	20.80

B48_n5 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				166800	167300	167800	(dBm)
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	19.90	19.84	19.81	20.8
20		1	53	19.77	19.88	19.92	
20		1	104	19.78	19.68	19.77	
20		50	1	19.78	19.84	19.86	20.8
20		50	25	19.89	20.00	19.95	
20		50	50	19.88	19.85	19.86	
20		100	0	19.89	19.97	19.93	
20	DFT-s-OFDM QPSK	1	1	20.02	20.10	19.95	20.8
20		1	53	19.83	19.95	19.97	
20		1	104	19.84	19.89	19.80	
20		50	1	19.79	20.01	19.85	20.8
20		50	25	19.84	19.97	19.95	
20		50	50	19.88	19.87	19.84	
20		100	0	19.88	19.84	19.94	
20	DFT-s-OFDM 16QAM	1	1	20.07	20.04	20.08	20.80
20	DFT-s-OFDM 64QAM	1	1	18.57	18.59	18.51	19.80
20	DFT-s-OFDM 256QAM	1	1	16.40	16.43	16.35	16.80
20	CP-OFDM QPSK	1	1	19.39	19.50	19.42	20.80
20	CP-OFDM 16QAM	1	1	18.80	18.81	18.79	19.80
20	CP-OFDM 64QAM	1	1	17.44	17.49	17.45	17.80
20	CP-OFDM 256QAM	1	1	14.42	14.44	14.37	14.80
Channel				166300	167300	168300	Tune-up limit
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	19.91	19.92	19.94	20.80
Channel				165800	167300	168800	Tune-up limit
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	19.90	19.89	19.97	20.80
Channel				165300	167300	169300	Tune-up limit
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	19.90	19.95	19.92	20.80

B66_n5 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				166800	167300	167800	(dBm)
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	20.03	20.08	20.01	20.8
20		1	53	20.07	20.08	20.16	
20		1	104	20.12	20.03	20.02	
20		50	1	20.17	20.16	20.17	20.8
20	DFT-s-OFDM QPSK	50	25	20.21	20.16	20.17	
20		50	50	20.14	20.22	20.14	
20		100	0	20.22	20.18	20.14	
20	DFT-s-OFDM 16QAM	1	1	20.10	20.32	20.05	20.8
20		1	53	20.11	20.10	20.21	
20		1	104	20.04	20.07	20.06	
20		50	1	20.04	20.11	20.05	20.8
20	DFT-s-OFDM 64QAM	50	25	20.07	20.04	20.11	
20		50	50	20.11	20.09	20.11	
20		100	0	20.09	20.05	20.04	
20	DFT-s-OFDM 256QAM	1	1	20.31	20.28	20.25	20.80
20	CP-OFDM QPSK	1	1	18.75	18.82	18.78	19.80
20	CP-OFDM 16QAM	1	1	16.72	16.75	16.66	17.80
20	CP-OFDM 64QAM	1	1	19.65	19.70	19.70	20.80
20	CP-OFDM 256QAM	1	1	19.01	19.03	18.97	19.80
20		1	1	17.69	17.72	17.66	18.80
20		1	1	14.72	14.78	14.68	15.80
Channel				166300	167300	168300	Tune-up limit
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	20.08	20.07	20.06	20.80
Channel				165800	167300	168800	Tune-up limit
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	19.92	19.85	19.93	20.80
Channel				165300	167300	169300	Tune-up limit
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	19.99	19.94	19.91	20.80

B2_n66 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				345000	349000	353000	(dBm)
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM PI/2 BPSK	1	1	20.22	20.17	20.06	20.8
30		1	80	20.23	20.15	19.87	
30		1	158	20.12	19.89	19.87	
30		80	1	20.02	19.91	19.52	20.8
30	DFT-s-OFDM QPSK	80	40	20.18	20.11	19.92	
30		80	80	19.88	19.68	19.67	
30		160	0	19.90	19.91	19.55	
30		1	1	20.22	20.27	20.05	20.8
30	DFT-s-OFDM 16QAM	1	80	20.20	20.07	19.86	
30		1	158	19.82	19.85	19.79	
30		80	1	20.15	20.18	20.03	20.8
30		80	40	20.17	20.13	19.92	
30		80	80	18.94	19.16	19.02	
30		160	0	19.50	19.26	19.13	
30	DFT-s-OFDM 64QAM	1	1	19.67	19.57	19.41	20.80
30	DFT-s-OFDM 256QAM	1	1	17.24	17.78	17.68	18.80
30	CP-OFDM QPSK	1	1	15.89	15.72	15.73	16.80
30	CP-OFDM 16QAM	1	1	18.92	18.71	18.59	19.80
30	CP-OFDM 64QAM	1	1	18.47	18.16	18.07	18.80
30	CP-OFDM 256QAM	1	1	16.94	16.75	16.70	17.80
30	CP-OFDM 256QAM	1	1	13.97	13.76	13.70	14.80
Channel				344000	349000	354000	Tune-up limit
Frequency (MHz)				1720	1745	1770	(dBm)
20	DFT-s-OFDM QPSK	1	1	20.24	20.23	19.91	20.80
Channel				343500	349000	354500	Tune-up limit
Frequency (MHz)				1717.5	1745	1772.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	20.18	20.21	19.98	20.80
Channel				343000	349000	355000	Tune-up limit
Frequency (MHz)				1715	1745	1775	(dBm)
10	DFT-s-OFDM QPSK	1	1	20.05	20.22	20.11	20.80
Channel				342500	349000	355500	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	20.21	20.19	20.04	20.80

B5_n66 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				345000	349000	353000	(dBm)
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM PI/2 BPSK	1	1	19.71	19.74	19.62	20.8
30		1	80	19.76	19.68	19.65	
30		1	158	19.78	19.53	19.71	
30		80	1	19.89	19.77	19.62	20.8
30		80	40	19.83	19.65	19.72	
30		80	80	19.81	19.72	19.80	
30		160	0	19.87	19.75	19.81	
30	DFT-s-OFDM QPSK	1	1	19.81	20.06	19.90	20.8
30		1	80	19.84	19.87	19.73	
30		1	158	19.83	19.80	19.72	
30		80	1	19.78	19.89	19.68	20.8
30		80	40	19.84	19.71	19.73	
30		80	80	19.87	19.75	19.80	
30		160	0	19.87	19.75	19.76	
30	DFT-s-OFDM 16QAM	1	1	19.96	19.98	19.95	20.80
30	DFT-s-OFDM 64QAM	1	1	18.47	18.50	18.42	19.80
30	DFT-s-OFDM 256QAM	1	1	16.42	16.38	16.26	16.80
30	CP-OFDM QPSK	1	1	19.35	19.41	19.27	19.80
30	CP-OFDM 16QAM	1	1	18.74	18.77	18.71	19.80
30	CP-OFDM 64QAM	1	1	17.39	17.40	17.30	17.80
30	CP-OFDM 256QAM	1	1	14.32	14.35	14.25	14.80
Channel				344000	349000	354000	Tune-up limit
Frequency (MHz)				1720	1745	1770	(dBm)
20	DFT-s-OFDM QPSK	1	1	19.77	19.58	19.41	20.80
Channel				343500	349000	354500	Tune-up limit
Frequency (MHz)				1717.5	1745	1772.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	19.73	19.79	19.74	20.80
Channel				343000	349000	355000	Tune-up limit
Frequency (MHz)				1715	1745	1775	(dBm)
10	DFT-s-OFDM QPSK	1	1	19.92	19.81	19.76	20.80
Channel				342500	349000	355500	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	19.85	19.83	19.72	20.80

B13_n66 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				345000	349000	353000	(dBm)
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM PI/2 BPSK	1	1	19.76	19.79	19.71	20.8
30		1	80	19.82	19.75	19.69	
30		1	158	19.80	19.61	19.66	
30		80	1	19.83	19.77	19.74	20.8
30		80	40	19.87	19.70	19.75	
30		80	80	19.88	19.80	19.81	
30		160	0	19.95	19.74	19.84	
30	DFT-s-OFDM QPSK	1	1	19.85	20.08	19.90	20.8
30		1	80	19.90	19.88	19.73	
30		1	158	19.76	19.84	19.76	
30		80	1	19.86	20.01	19.93	20.8
30		80	40	19.91	19.80	19.79	
30		80	80	19.92	19.76	19.83	
30		160	0	19.98	19.77	19.77	
30	DFT-s-OFDM 16QAM	1	1	20.03	20.06	19.99	20.80
30	DFT-s-OFDM 64QAM	1	1	18.52	18.52	18.43	19.80
30	DFT-s-OFDM 256QAM	1	1	16.49	16.47	16.35	16.80
30	CP-OFDM QPSK	1	1	19.43	19.45	19.33	19.80
30	CP-OFDM 16QAM	1	1	18.76	18.73	18.69	19.80
30	CP-OFDM 64QAM	1	1	17.46	17.43	17.35	17.80
30	CP-OFDM 256QAM	1	1	14.40	14.42	14.33	14.80
Channel				344000	349000	354000	Tune-up limit
Frequency (MHz)				1720	1745	1770	(dBm)
20	DFT-s-OFDM QPSK	1	1	19.58	19.75	19.71	20.80
Channel				343500	349000	354500	Tune-up limit
Frequency (MHz)				1717.5	1745	1772.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	19.82	19.72	19.69	20.80
Channel				343000	349000	355000	Tune-up limit
Frequency (MHz)				1715	1745	1775	(dBm)
10	DFT-s-OFDM QPSK	1	1	19.94	19.84	19.85	20.80
Channel				342500	349000	355500	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	19.94	19.79	19.82	20.80

B2_n77(3450-3550MHz) (PC2)_20dB_ANT10							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					633334		
Frequency (MHz)					3500.01		
100	DFT-s-OFDM PI/2 BPSK	1	1		20.05		20.8
100		1	136		19.86		
100		1	271		19.60		
100		135	1		15.12		20.8
100		135	67		19.90		
100		135	136		19.09		
100		270	0		19.48		
100	DFT-s-OFDM QPSK	1	1		20.10		20.8
100		1	136		19.89		
100		1	271		19.56		
100		135	1		19.92		20.8
100		135	67		19.90		
100		135	136		18.59		
100		270	0		19.01		
100	DFT-s-OFDM 16QAM	1	1		20.06		20.80
100	DFT-s-OFDM 64QAM	1	1		17.65		18.80
100	DFT-s-OFDM 256QAM	1	1		15.38		15.80
100	CP-OFDM QPSK	1	1		18.55		19.80
100	CP-OFDM 16QAM	1	1		17.80		18.80
100	CP-OFDM 64QAM	1	1		16.58		17.80
100	CP-OFDM 256QAM	1	1		13.47		13.80
Channel				632668	633334	634000	Tune-up limit
Frequency (MHz)				3490.02	3500.01	3510	(dBm)
80	DFT-s-OFDM QPSK	1	1	19.95	20.00	19.95	20.80
Channel				632000	633334	634666	Tune-up limit
Frequency (MHz)				3480	3500.01	3519.99	(dBm)
60	DFT-s-OFDM QPSK	1	1	20.04	20.05	20.09	20.80
Channel				631334	633334	635332	Tune-up limit
Frequency (MHz)				3470.01	3500.01	3529.98	(dBm)
40	DFT-s-OFDM QPSK	1	1	20.07	20.00	20.09	20.80
Channel				631000	633334	635666	Tune-up limit
Frequency (MHz)				3465	3500.01	3534.99	(dBm)
30	DFT-s-OFDM QPSK	1	1	20.05	20.08	19.84	20.80
Channel				630668	633334	636000	Tune-up limit
Frequency (MHz)				3460.02	3500.01	3540	(dBm)
20	DFT-s-OFDM QPSK	1	1	20.02	20.07	19.66	20.80

B5_n77(3450-3550MHz) (PC2)_20dB_ ANT10							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel					633334		(dBm)
Frequency (MHz)					3500.01		
100	DFT-s-OFDM PI/2 BPSK	1	1		20.06		20.8
100		1	136		19.67		
100		1	271		19.54		
100		135	1		19.42		20.8
100		135	67		19.78		
100		135	136		18.97		
100		270	0		19.34		
100	DFT-s-OFDM QPSK	1	1		20.13		20.8
100		1	136		19.69		
100		1	271		19.45		
100		135	1		20.00		20.8
100		135	67		19.65		
100		135	136		18.60		
100		270	0		18.59		
100	DFT-s-OFDM 16QAM	1	1		18.19		18.80
100	DFT-s-OFDM 64QAM	1	1		17.09		17.80
100	DFT-s-OFDM 256QAM	1	1		15.07		15.80
100	CP-OFDM QPSK	1	1		17.55		18.80
100	CP-OFDM 16QAM	1	1		17.13		17.80
100	CP-OFDM 64QAM	1	1		16.65		17.80
100	CP-OFDM 256QAM	1	1		13.42		13.80
Channel				632668	633334	634000	Tune-up limit
Frequency (MHz)				3490.02	3500.01	3510	(dBm)
80	DFT-s-OFDM QPSK	1	1	19.79	19.74	19.70	20.80
Channel				632000	633334	634666	Tune-up limit
Frequency (MHz)				3480	3500.01	3519.99	(dBm)
60	DFT-s-OFDM QPSK	1	1	19.55	19.48	19.62	20.80
Channel				631334	633334	635332	Tune-up limit
Frequency (MHz)				3470.01	3500.01	3529.98	(dBm)
40	DFT-s-OFDM QPSK	1	1	19.92	19.65	19.67	20.80
Channel				631000	633334	635666	Tune-up limit
Frequency (MHz)				3465	3500.01	3534.99	(dBm)
30	DFT-s-OFDM QPSK	1	1	19.97	19.82	19.71	20.80
Channel				630668	633334	636000	Tune-up limit
Frequency (MHz)				3460.02	3500.01	3540	(dBm)
20	DFT-s-OFDM QPSK	1	1	19.87	19.74	19.54	20.80

B13_n77(3450-3550MHz) (PC2)_20dB_ ANT10

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel					633334		(dBm)
Frequency (MHz)					3500.01		
100	DFT-s-OFDM PI/2 BPSK	1	1		19.96		20.8
100		1	136		19.73		
100		1	271		19.53		
100		135	1		19.33		20.8
100	DFT-s-OFDM QPSK	135	67		19.79		
100		135	136		18.91		
100		270	0		19.38		
100		1	1		20.01		20.8
100	DFT-s-OFDM 16QAM	1	136		19.60		
100		1	271		19.37		
100		135	1		19.85		20.8
100		135	67		19.57		
100		135	136		18.36		
100		270	0		18.49		
100	DFT-s-OFDM 64QAM	1	1		19.10		19.80
100	DFT-s-OFDM 256QAM	1	1		17.79		18.80
100	CP-OFDM QPSK	1	1		14.96		15.80
100	CP-OFDM 16QAM	1	1		17.48		17.80
100	CP-OFDM 64QAM	1	1		17.07		17.80
100	CP-OFDM 256QAM	1	1		16.58		17.80
100	CP-OFDM 256QAM	1	1		13.34		13.80
Channel				632668	633334	634000	Tune-up limit
Frequency (MHz)				3490.02	3500.01	3510	(dBm)
80	DFT-s-OFDM QPSK	1	1	19.67	19.62	19.59	20.80
Channel				632000	633334	634666	Tune-up limit
Frequency (MHz)				3480	3500.01	3519.99	(dBm)
60	DFT-s-OFDM QPSK	1	1	19.41	19.35	19.48	19.80
Channel				631334	633334	635332	Tune-up limit
Frequency (MHz)				3470.01	3500.01	3529.98	(dBm)
40	DFT-s-OFDM QPSK	1	1	19.75	19.50	19.54	20.80
Channel				631000	633334	635666	Tune-up limit
Frequency (MHz)				3465	3500.01	3534.99	(dBm)
30	DFT-s-OFDM QPSK	1	1	19.85	19.65	19.54	20.80
Channel				630668	633334	636000	Tune-up limit
Frequency (MHz)				3460.02	3500.01	3540	(dBm)
20	DFT-s-OFDM QPSK	1	1	19.71	19.55	19.35	20.80

B66_n77(3450-3550MHz) (PC2)_20dB_ ANT10							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel					633334		(dBm)
Frequency (MHz)					3500.01		
100	DFT-s-OFDM PI/2 BPSK	1	1		20.01		20.8
100		1	136		19.87		
100		1	271		14.72		
100		135	1		19.50		20.8
100		135	67		19.90		
100		135	136		19.07		
100		270	0		14.95		
100	DFT-s-OFDM QPSK	1	1		20.03		20.8
100		1	136		19.82		
100		1	271		14.58		
100		135	1		19.54		20.8
100		135	67		16.50		
100		135	136		18.57		
100		270	0		18.98		
100	DFT-s-OFDM 16QAM	1	1		19.12		19.80
100	DFT-s-OFDM 64QAM	1	1		17.64		18.80
100	DFT-s-OFDM 256QAM	1	1		15.56		16.80
100	CP-OFDM QPSK	1	1		18.58		19.80
100	CP-OFDM 16QAM	1	1		17.99		18.80
100	CP-OFDM 64QAM	1	1		16.63		17.80
100	CP-OFDM 256QAM	1	1		13.38		13.80
Channel				632668	633334	634000	Tune-up limit
Frequency (MHz)				3490.02	3500.01	3510	(dBm)
80	DFT-s-OFDM QPSK	1	1	19.98	19.95	19.92	20.80
Channel				632000	633334	634666	Tune-up limit
Frequency (MHz)				3480	3500.01	3519.99	(dBm)
60	DFT-s-OFDM QPSK	1	1	19.99	20.01	20.02	20.80
Channel				631334	633334	635332	Tune-up limit
Frequency (MHz)				3470.01	3500.01	3529.98	(dBm)
40	DFT-s-OFDM QPSK	1	1	19.95	19.97	19.78	20.80
Channel				631000	633334	635666	Tune-up limit
Frequency (MHz)				3465	3500.01	3534.99	(dBm)
30	DFT-s-OFDM QPSK	1	1	19.97	20.01	19.83	20.80
Channel				630668	633334	636000	Tune-up limit
Frequency (MHz)				3460.02	3500.01	3540	(dBm)
20	DFT-s-OFDM QPSK	1	1	20.00	19.99	19.64	20.80

B2_n77(3700-3980MHz) (PC2)_ ANT10

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				650000	656000	662000	(dBm)
Frequency (MHz)				3750	3840	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	19.74	18.61	18.24	20.8
100		1	136	20.19	18.66	17.63	
100		1	271	14.07	13.88	18.22	
100		135	1	19.79	19.13	19.39	20.8
100		135	67	20.10	18.80	18.62	
100		135	136	19.80	18.88	18.44	
100		270	0	19.70	19.24	19.30	
100	DFT-s-OFDM QPSK	1	1	19.99	20.20	19.90	20.8
100		1	136	20.17	19.49	19.32	
100		1	271	19.95	19.20	19.17	
100		135	1	17.84	17.57	17.86	20.8
100		135	67	20.10	18.78	18.64	
100		135	136	14.13	14.02	13.90	
100		270	0	19.19	18.71	18.77	
100	DFT-s-OFDM 16QAM	1	1	18.87	18.58	19.11	19.80
100	DFT-s-OFDM 64QAM	1	1	17.52	17.02	16.65	18.80
100	DFT-s-OFDM 256QAM	1	1	15.20	15.08	14.72	15.80
100	CP-OFDM QPSK	1	1	18.26	17.93	17.55	18.80
100	CP-OFDM 16QAM	1	1	15.86	15.48	15.08	16.80
100	CP-OFDM 64QAM	1	1	16.46	17.05	16.66	17.80
100	CP-OFDM 256QAM	1	1	13.18	12.10	11.72	13.80
Channel				649334	656000	662666	Tune-up limit
Frequency (MHz)				3740.01	3840	3939.99	
80	DFT-s-OFDM QPSK	1	1	19.86	18.24	17.53	20.80
Channel				648668	656000	663332	Tune-up limit
Frequency (MHz)				3730.02	3840	3949.98	
60	DFT-s-OFDM QPSK	1	1	19.97	17.94	16.79	20.80
Channel				648000	656000	664000	Tune-up limit
Frequency (MHz)				3720	3840	3960	
40	DFT-s-OFDM QPSK	1	1	19.90	18.09	15.55	20.80
Channel				647668	656000	664332	Tune-up limit
Frequency (MHz)				3715.02	3840	3964.98	
30	DFT-s-OFDM QPSK	1	1	19.79	18.06	15.70	20.80
Channel				647334	656000	664666	Tune-up limit
Frequency (MHz)				3710.01	3840	3969.99	
20	DFT-s-OFDM QPSK	1	1	20.09	18.18	15.50	20.80

B5_n77(3700-3980MHz) (PC2)_ANT10							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				650000	656000	662000	(dBm)
Frequency (MHz)				3750	3840	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	19.98	19.58	19.76	20.8
100		1	136	19.44	18.62	18.66	
100		1	271	19.30	19.48	18.61	
100		135	1	19.41	19.08	19.16	20.8
100		135	67	19.39	18.82	19.44	
100		135	136	18.75	18.96	19.08	
100		270	0	19.09	19.26	19.01	
100	DFT-s-OFDM QPSK	1	1	19.94	20.03	19.73	20.8
100		1	136	19.40	19.60	18.51	
100		1	271	19.09	19.19	18.53	
100		135	1	19.43	19.75	19.31	20.8
100		135	67	19.46	18.80	18.46	
100		135	136	18.31	18.01	17.55	
100		270	0	18.61	18.44	18.47	
100	DFT-s-OFDM 16QAM	1	1	18.65	18.45	17.67	19.80
100	DFT-s-OFDM 64QAM	1	1	17.13	15.97	16.19	17.80
100	DFT-s-OFDM 256QAM	1	1	15.00	14.06	14.23	15.80
100	CP-OFDM QPSK	1	1	18.09	16.89	17.08	18.80
100	CP-OFDM 16QAM	1	1	17.61	17.44	16.67	18.80
100	CP-OFDM 64QAM	1	1	16.21	16.02	16.19	16.80
100	CP-OFDM 256QAM	1	1	13.07	13.05	13.25	13.80
Channel				649334	656000	662666	Tune-up limit
Frequency (MHz)				3740.01	3840	3939.99	(dBm)
80	DFT-s-OFDM QPSK	1	1	19.57	19.07	19.14	20.80
Channel				648668	656000	663332	Tune-up limit
Frequency (MHz)				3730.02	3840	3949.98	(dBm)
60	DFT-s-OFDM QPSK	1	1	19.65	18.73	19.47	20.80
Channel				648000	656000	664000	Tune-up limit
Frequency (MHz)				3720	3840	3960	(dBm)
40	DFT-s-OFDM QPSK	1	1	19.57	18.90	19.30	20.80
Channel				647668	656000	664332	Tune-up limit
Frequency (MHz)				3715.02	3840	3964.98	(dBm)
30	DFT-s-OFDM QPSK	1	1	19.88	18.91	19.45	20.80
Channel				647334	656000	664666	Tune-up limit
Frequency (MHz)				3710.01	3840	3969.99	(dBm)
20	DFT-s-OFDM QPSK	1	1	19.81	19.04	19.16	20.80

B13_n77(3700-3980MHz) (PC2)_ ANT10

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				650000	656000	662000	(dBm)
Frequency (MHz)				3750	3840	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	19.52	19.50	19.69	20.8
100		1	136	19.41	19.62	19.43	
100		1	271	19.18	19.42	19.53	
100		135	1	19.45	18.96	19.10	20.8
100		135	67	19.49	19.75	19.41	
100		135	136	18.80	18.88	19.02	
100		270	0	19.10	19.20	18.93	
100	DFT-s-OFDM QPSK	1	1	19.83	19.89	19.57	20.8
100		1	136	19.47	18.53	18.34	
100		1	271	19.12	18.34	18.49	
100		135	1	19.51	19.59	19.19	20.8
100		135	67	19.47	18.69	18.40	
100		135	136	18.31	18.58	18.51	
100		270	0	18.58	18.46	18.22	
100	DFT-s-OFDM 16QAM	1	1	18.61	18.82	18.69	19.80
100	DFT-s-OFDM 64QAM	1	1	17.09	16.93	16.16	17.80
100	DFT-s-OFDM 256QAM	1	1	15.08	14.99	14.20	15.80
100	CP-OFDM QPSK	1	1	18.13	17.82	17.03	18.80
100	CP-OFDM 16QAM	1	1	17.63	17.37	16.63	18.80
100	CP-OFDM 64QAM	1	1	16.17	15.88	16.04	16.80
100	CP-OFDM 256QAM	1	1	13.08	12.98	13.20	13.80
Channel				649334	656000	662666	Tune-up limit
Frequency (MHz)				3740.01	3840	3939.99	(dBm)
80	DFT-s-OFDM QPSK	1	1	19.43	18.98	18.05	19.80
Channel				648668	656000	663332	Tune-up limit
Frequency (MHz)				3730.02	3840	3949.98	(dBm)
60	DFT-s-OFDM QPSK	1	1	19.61	19.24	19.40	20.80
Channel				648000	656000	664000	Tune-up limit
Frequency (MHz)				3720	3840	3960	(dBm)
40	DFT-s-OFDM QPSK	1	1	19.87	18.79	19.20	20.80
Channel				647668	656000	664332	Tune-up limit
Frequency (MHz)				3715.02	3840	3964.98	(dBm)
30	DFT-s-OFDM QPSK	1	1	19.53	18.81	19.35	20.80
Channel				647334	656000	664666	Tune-up limit
Frequency (MHz)				3710.01	3840	3969.99	(dBm)
20	DFT-s-OFDM QPSK	1	1	19.71	18.91	19.07	20.80

B66_n77(3700-3980MHz) (PC2)_ANT10

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				650000	656000	662000	(dBm)
Frequency (MHz)				3750	3840	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	20.14	19.05	18.69	20.8
100		1	136	20.23	19.10	18.09	
100		1	271	18.98	18.37	18.67	
100		135	1	20.12	19.56	18.08	20.8
100		135	67	20.02	19.53	18.10	
100		135	136	20.31	19.34	19.89	
100		270	0	20.21	19.69	19.75	
100	DFT-s-OFDM QPSK	1	1	20.19	20.33	20.26	20.8
100		1	136	20.12	19.03	19.00	
100		1	271	20.22	19.65	19.64	
100		135	1	19.85	19.89	19.72	20.8
100		135	67	20.11	18.23	18.10	
100		135	136	19.70	18.81	18.35	
100		270	0	19.71	18.17	18.23	
100	DFT-s-OFDM 16QAM	1	1	19.36	19.45	18.84	19.80
100	DFT-s-OFDM 64QAM	1	1	16.23	16.45	16.14	16.80
100	DFT-s-OFDM 256QAM	1	1	12.88	13.56	13.18	14.80
100	CP-OFDM QPSK	1	1	16.77	16.50	16.32	17.80
100	CP-OFDM 16QAM	1	1	16.28	16.43	15.56	16.80
100	CP-OFDM 64QAM	1	1	13.05	15.48	15.13	15.80
100	CP-OFDM 256QAM	1	1	13.71	12.54	12.18	14.80
Channel				649334	656000	662666	Tune-up limit
Frequency (MHz)				3740.01	3840	3939.99	(dBm)
80	DFT-s-OFDM QPSK	1	1	18.37	18.64	17.93	19.80
Channel				648668	656000	663332	Tune-up limit
Frequency (MHz)				3730.02	3840	3949.98	(dBm)
60	DFT-s-OFDM QPSK	1	1	18.39	18.33	17.20	18.80
Channel				648000	656000	664000	Tune-up limit
Frequency (MHz)				3720	3840	3960	(dBm)
40	DFT-s-OFDM QPSK	1	1	18.79	18.47	17.92	19.80
Channel				647668	656000	664332	Tune-up limit
Frequency (MHz)				3715.02	3840	3964.98	(dBm)
30	DFT-s-OFDM QPSK	1	1	18.62	18.42	18.07	19.80
Channel				647334	656000	664666	Tune-up limit
Frequency (MHz)				3710.01	3840	3969.99	(dBm)
20	DFT-s-OFDM QPSK	1	1	18.58	18.59	18.31	19.80

5GHz WLAN ANT 8

5.5GHz WLAN ANT 8	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Power Setting	Duty Cycle %
			CH 36	5180	13.45	14.00	12.00
802.11a 8Mbps	CH 36	5180	CH 44	5220	13.90	14.00	12.00
			CH 48	5240	13.17	13.00	12.00
			CH 36	5180	12.83	13.50	12.00
			CH 44	5220	12.60	13.50	12.00
			CH 48	5240	12.97	13.50	12.00
			CH 36	5180	13.18	14.00	12.00
			CH 46	5230	13.11	14.00	12.00
			CH 36	5180	12.83	13.50	12.00
			CH 44	5220	12.93	13.50	12.00
			CH 46	5230	12.56	13.50	12.00
			CH 36	5180	13.15	14.00	12.00
			CH 46	5230	13.12	14.00	12.00
802.11ac-VHT80 MCS0	CH 42	5270	CH 42	5270	13.00	14.00	12.00

5.5GHz WLAN ANT 8	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Power Setting	Duty Cycle %
802.11a 8Mbps	CH 52	CH 52	5280	13.29	14.00	12.00	95.03
		CH 54	5320	12.25	13.50	12.00	
		CH 56	5360	12.25	13.50	12.00	
		CH 58	5400	12.70	13.50	12.00	
		CH 60	5440	12.25	13.50	12.00	
		CH 62	5480	11.56	13.50	12.00	
		CH 64	5520	11.56	13.50	12.00	
		CH 66	5560	11.56	13.50	12.00	
		CH 68	5600	11.56	13.50	12.00	
		CH 70	5640	11.56	13.50	12.00	
		CH 72	5680	11.56	13.50	12.00	
		CH 74	5720	11.56	13.50	12.00	
802.11a+HT20 MCS0	CH 52	CH 52	5280	12.56	13.00	12.00	95.06
		CH 54	5320	11.82	13.00	12.00	
		CH 56	5360	11.82	13.00	12.00	
		CH 58	5400	12.27	13.00	12.00	
		CH 60	5440	11.82	13.00	12.00	
		CH 62	5480	11.13	13.00	12.00	
		CH 64	5520	11.13	13.00	12.00	
		CH 66	5560	11.13	13.00	12.00	
		CH 68	5600	11.13	13.00	12.00	
		CH 70	5640	11.13	13.00	12.00	
		CH 72	5680	11.13	13.00	12.00	
		CH 74	5720	11.13	13.00	12.00	
802.11a+HT40 MCS0	CH 52	CH 52	5280	12.30	13.00	12.00	95.08
		CH 54	5320	11.56	13.00	12.00	
		CH 56	5360	11.56	13.00	12.00	
		CH 58	5400	12.01	13.00	12.00	
		CH 60	5440	11.56	13.00	12.00	
		CH 62	5480	10.87	13.00	12.00	
		CH 64	5520	10.87	13.00	12.00	
		CH 66	5560	10.87	13.00	12.00	
		CH 68	5600	10.87	13.00	12.00	
		CH 70	5640	10.87	13.00	12.00	
		CH 72	5680	10.87	13.00	12.00	
		CH 74	5720	10.87	13.00	12.00	
802.11a+HT20 MCS2	CH 52	CH 52	5280	11.82	13.00	12.00	95.02
		CH 54	5320	11.08	13.00	12.00	
		CH 56	5360	11.08	13.00	12.00	
		CH 58	5400	11.53	13.00	12.00	
		CH 60	5440	11.08	13.00	12.00	
		CH 62	5480	10.39	13.00	12.00	
		CH 64	5520	10.39	13.00	12.00	
		CH 66	5560	10.39	13.00	12.00	
		CH 68	5600	10.39	13.00	12.00	
		CH 70	5640	10.39	13.00	12.00	
		CH 72	5680	10.39	13.00	12.00	
		CH 74	5720	10.39	13.00	12.00	
802.11a+HT40 MCS2	CH 52	CH 52	5280	11.56	13.00	12.00	95.04
		CH 54	5320	10.82	13.00	12.00	
		CH 56	5360	10.82	13.00	12.00	
		CH 58	5400	11.27	13.00	12.00	
		CH 60	5440	10.82	13.00	12.00	
		CH 62	5480	9.53	13.00	12.00	
		CH 64	5520	9.53	13.00	12.00	
		CH 66	5560	9.53	13.00	12.00	
		CH 68	5600	9.53	13.00	12.00	
		CH 70	5640	9.53	13.00	12.00	
		CH 72	5680	9.53	13.00	12.00	
		CH 74	5720	9.53	13.00	12.00	

5GHz WLAN ANT 8

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Power Setting	Duty Cycle %
	802.11a 8Mbps	CH 100	5500	13.07	14.00	11.00	95.00
		CH 120	5600	13.17	14.00	11.00	
		CH 144	5720	13.85	14.00	11.00	
		CH 100	5500	12.52	13.50	11.00	
	802.11a-HT20 MCS0	CH 120	5600	12.56	13.50	11.00	98.90
		CH 144	5720	13.00	14.00	11.00	
		CH 102	5510	13.11	14.00	11.00	
		CH 126	5630	13.08	14.00	11.00	
5.5GHz WLAN ANT 8	802.11a-HT40 MCS0	CH 142	5710	12.77	13.50	11.00	98.80
		CH 100	5500	12.56	13.50	11.00	
		CH 120	5600	12.60	13.50	11.00	
		CH 144	5720	12.31	13.00	11.00	
	802.11a-HT20 MCS0	CH 120	5600	12.60	13.50	11.00	97.04
		CH 144	5720	12.31	13.00	11.00	
		CH 102	5510	13.01	14.00	11.00	
		CH 126	5630	12.95	13.50	11.00	
	802.11a-HT40 MCS0	CH 126	5630	12.95	13.50	11.00	96.61
		CH 142	5710	12.73	13.50	11.00	
		CH 106	5530	12.86	13.50	11.00	
		CH 122	5610	12.78	13.50	11.00	
	802.11a-HT40 MCS0	CH 138	5680	12.68	13.50	11.00	93.80
		CH 138	5680	12.68	13.50	11.00	

5GHz WLAN ANT 8

5.5GHz WLAN ANT 8	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Power Setting	Duty Cycle %
			CH 149	5745	13.44	14.00	11.00
802.11a 8Mbps	CH 149	CH 157	5785	12.90	13.50	11.00	95.54
		CH 166	5825	12.80	13.50	11.00	
		CH 149	5745	12.85	13.50	11.00	
		CH 157	5785	12.17	13.00	11.00	95.44
		CH 166	5825	12.17	13.00	11.00	
		CH 151	5755	13.39	14.00	11.00	
		CH 159	5765	12.53	13.50	11.00	95.88
		CH 149	5745	12.82	13.50	11.00	
		CH 157	5785	12.75	13.00	11.00	
		CH 166	5825	12.10	13.00	11.00	
		CH 151	5755	13.29	14.00	11.00	95.81
802.11ac-VHT40 MCS0	CH 159	CH 159	5765	12.65	13.50	11.00	96.92
		CH 156	5755	12.71	13.50	11.00	

5.2GHz WLAN ANT 9

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN ANT 9	802.11a 8Mbps	CH 38	5180	12.84	13.00	12.00	
		CH 44	5220	12.28	12.00	12.00	58.54
		CH 46	5240	12.31	12.00	12.00	
		CH 38	5180	11.84	12.00	12.00	
		CH 44	5220	11.65	12.00	12.00	58.44
		CH 46	5240	11.77	12.00	12.00	
	802.11a-VHT80 MCS0	CH 38	5180	12.27	12.00	12.00	56.89
		CH 46	5230	12.21	12.00	12.00	
		CH 38	5180	11.85	12.00	12.00	
		CH 44	5220	11.81	12.00	12.00	56.45
		CH 46	5240	11.89	12.00	12.00	
		CH 38	5180	12.24	12.00	12.00	56.91
802.11ac-VHT80 MCS0	CH 44	5220	12.26	12.00	12.00	56.50	
	CH 42	5270	12.12	12.00	12.00		

5.3GHz WLAN ANT 9

5.3GHz WLAN ANT 9	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Power Setting	Duty Cycle %
			CH 52	5280	12.18	13.00	12.00
	802.11a 8Mbps	CH 52	5280	12.15	13.00	12.00	95.00
		CH 54	5320	12.39	13.00	12.00	
		CH 52	5280	11.50	12.00	12.00	
	802.11a-HTTD MCS0	CH 60	5360	11.49	12.00	12.00	95.00
		CH 54	5320	11.76	12.00	12.00	
		CH 54	5270	12.44	13.00	12.00	
	802.11a-HTTD MCS0	CH 62	5310	12.45	13.00	12.00	95.00
		CH 52	5280	11.88	12.00	12.00	
		CH 60	5360	11.86	12.00	12.00	
	802.11a-VHT80 MCS0	CH 54	5320	12.17	13.00	12.00	
		CH 54	5270	12.46	13.00	12.00	
		CH 62	5310	12.42	13.00	12.00	
802.11a-VHT80 MCS0	CH 58	5380	12.28	13.00	12.00	95.00	

5.5 WLAN ANT 9

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Power Setting	Duty Cycle %
5.5GHz WLAN ANT 5	802.11a 8Mbps	CH 100	5500	12.16	13.00	11.00	98.00
		CH 120	5600	12.50	13.00	11.00	
		CH 144	5720	13.45	14.00	11.00	
		CH 100	5500	11.86	12.00	11.00	
	802.11a-HT20 MCS0	CH 120	5600	12.52	13.50	11.00	98.44
		CH 144	5720	12.88	13.50	11.00	
		CH 102	5510	12.18	13.00	11.00	
		CH 126	5630	12.30	13.00	11.00	
	802.11a-HT40 MCS0	CH 142	5710	12.43	13.00	11.00	98.88
		CH 100	5500	11.91	12.00	11.00	
		CH 120	5600	12.19	13.00	11.00	
		CH 144	5720	12.36	13.00	11.00	
802.11a-HT20 MCS0	CH 102	5510	12.21	13.00	11.00	97.94	
	CH 126	5630	12.46	13.00	11.00		
	CH 142	5710	12.43	13.00	11.00		
	CH 100	5500	11.91	12.00	11.00		
802.11a-HT40 MCS0	CH 126	5630	12.46	13.00	11.00	96.91	
	CH 142	5710	12.43	13.00	11.00		
	CH 106	5530	11.91	12.00	11.00		
	CH 122	5610	12.30	13.00	11.00		
802.11a-HT20 MCS0	CH 138	5680	12.41	13.00	11.00	92.00	

5.8 WLAN ANT 9

5.8 WLAN ANT 9	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Power Setting	Duty Cycle %
			CH 149	5745	13.58	14.00	11.00
802.11a 8Mbps	CH 149	CH 157	5785	13.27	13.00	11.00	58.54
		CH 166	5825	12.73	13.50	11.00	
		CH 149	5745	13.00	13.50	11.00	
		CH 157	5785	12.77	13.50	11.00	58.44
		CH 166	5825	12.19	12.00	11.00	
		CH 151	5755	13.66	14.00	11.00	59.68
		CH 159	5765	13.35	14.00	11.00	
		CH 149	5745	12.96	13.50	11.00	
		CH 157	5785	12.73	13.50	11.00	59.45
		CH 166	5825	12.11	12.00	11.00	
		CH 151	5755	13.61	14.00	11.00	59.91
802.11ac-VHT40 MCS0	CH 159	CH 159	5765	13.36	13.50	11.00	60.00
		CH 156	5755	13.12	13.50	11.00	
802.11ac-VHT80 MCS0	CH 159	CH 159	5775	13.61	14.00	11.00	62.00
		CH 156	5765	13.36	13.50	11.00	

5.2GHz WLAN MIMO

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN MIMO	802.11a MIMO	CH 38	5180	N/A	N/A	N/A	
		CH 44	5220	N/A	N/A	N/A	N/A
	802.11n HT20 MIMO	CH 38	5180	15.14	15.30	12.00	98.44
		CH 44	5220	15.11	15.30	12.00	
	802.11n HT20 MIMO	CH 38	5180	14.99	15.30	12.00	98.89
		CH 44	5220	15.00	15.30	12.00	
	802.11ac HT20 MIMO	CH 38	5180	15.18	15.30	12.00	98.45
		CH 44	5220	15.15	15.30	12.00	
	802.11ac HT40 MIMO	CH 38	5180	14.98	15.30	12.00	98.91
		CH 44	5220	14.99	15.30	12.00	
802.11ac HT80 MIMO	CH 38	5180	14.76	15.30	12.00	98.88	
	CH 42	5210	14.60	15.30	12.00		