



REPORT No.: SZ23040220S01

Annex E Conducted Power

Note:

Conducted power unit: dBm

The target power was recorded in the manufacture document.



Full Power

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)	824.2	836.4	848.8		824.2	836.4	848.8		
GSM 1 Tx slot	32.43	32.45	32.41	33.50	23.43	23.45	23.41	24.50	0.05
GPRS 1 Tx slot	32.42	32.45	32.40	33.50	23.42	23.45	23.40	24.50	
GPRS 2 Tx slots	30.33	30.34	30.30	31.50	24.33	24.34	24.30	25.50	
GPRS 3 Tx slots	28.35	28.38	28.32	29.50	24.09	24.12	24.06	25.24	
GPRS 4 Tx slots	26.27	26.31	26.24	27.50	23.27	23.31	23.24	24.50	0.07
EDGE 1 Tx slot	26.62	26.65	26.58	28.00	17.62	17.65	17.58	19.00	0.07
EDGE 2 Tx slots	24.39	24.40	24.35	25.50	18.39	18.40	18.35	19.50	0.05
EDGE 3 Tx slots	22.11	22.15	22.09	23.50	17.85	17.89	17.83	19.24	0.06
EDGE 4 Tx slots	19.36	19.44	19.27	20.50	16.36	16.44	16.27	17.50	0.17
Mode		Max.	32.45			Max.	24.34		
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)	1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot	29.49	29.46	29.35	30.50	20.49	20.46	20.35	21.50	0.16
GPRS 1 Tx slot	29.47	29.45	29.33	30.50	20.47	20.45	20.33	21.50	
GPRS 2 Tx slots	27.12	27.13	27.05	28.00	21.12	21.13	21.05	22.00	
GPRS 3 Tx slots	25.46	25.42	25.34	26.00	21.20	21.16	21.08	21.74	
GPRS 4 Tx slots	23.59	23.53	23.41	24.00	20.59	20.53	20.41	21.00	0.18
EDGE 1 Tx slot	25.52	25.64	25.48	27.00	16.52	16.64	16.48	18.00	0.16
EDGE 2 Tx slots	23.08	23.17	23.02	24.50	17.08	17.17	17.02	18.50	0.15
EDGE 3 Tx slots	20.45	20.54	20.43	22.00	16.19	16.28	16.17	17.74	0.11
EDGE 4 Tx slots	18.31	18.22	18.17	19.50	15.31	15.22	15.17	16.50	0.14
Mode		Max.	29.49			Max.	21.20		
Attenuator	Cable Loss : 0.8								

Band	WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)	WCDMA Band V (dBm)			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		4132	4182	4233		
TX Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458		
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458		
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6		
3GPP Rel 99	RMC 12.2Kbps	22.34	22.38	22.25	23.50	22.29	22.33	22.30	23.50	22.20	22.23	22.18	23.50
3GPP Rel 6	HSDPA Subtest-1	22.09	21.89	21.99	23.00	22.32	22.04	21.93	23.00	21.94	21.65	21.75	22.50
3GPP Rel 6	HSDPA Subtest-2	20.08	20.03	20.31	21.00	20.92	20.55	20.55	21.50	20.44	20.28	20.09	21.00
3GPP Rel 6	HSDPA Subtest-3	19.54	19.56	19.56	20.50	19.81	19.93	19.70	20.50	19.02	18.59	18.93	20.00
3GPP Rel 6	HSDPA Subtest-4	18.49	18.73	18.84	19.50	19.72	19.50	19.34	20.50	18.61	18.63	18.67	19.50
3GPP Rel 6	HSUPA Subtest-1	19.23	19.16	19.20	20.00	21.47	21.29	21.26	22.00	19.95	19.67	19.80	20.50
3GPP Rel 6	HSUPA Subtest-2	19.53	19.61	19.57	20.50	21.48	21.27	21.29	22.00	20.02	19.74	19.87	21.00
3GPP Rel 6	HSUPA Subtest-3	19.75	19.78	19.76	20.50	21.65	21.50	21.38	22.50	20.24	19.99	19.80	21.00
3GPP Rel 6	HSUPA Subtest-4	20.07	20.09	20.05	21.00	21.97	21.85	21.68	22.50	20.04	19.74	19.88	21.00
3GPP Rel 6	HSUPA Subtest-5	22.10	22.01	22.08	23.00	22.29	22.17	22.04	23.00	21.77	21.54	21.62	22.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	22.06	21.83	21.85	22.50	21.95	22.15	21.70	23.00	22.14	22.13	22.06	23.00
Attenuator		Cable Loss	0.8			Cable Loss	0.8			Cable Loss	0.6		
Mode		Max.	22.38			Max.	22.33			Max.	22.23		

Band 2 (1900MHz Band) (dBm) Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1880	1880	1900	
20	QPSK	1	0	19.73	19.79	19.75	
20	QPSK	1	49	19.64	19.58	19.46	20.5
20	QPSK	1	99	19.63	19.44	19.58	
20	QPSK	50	0	18.75	18.84	18.68	
20	QPSK	50	24	18.68	18.65	18.74	19.5
20	QPSK	50	50	18.61	18.58	18.53	
20	QPSK	100	0	18.56	18.61	18.48	
20	16QAM	1	0	18.62	18.79	18.61	19.5
20	16QAM	1	49	18.55	18.44	18.77	
20	16QAM	1	99	18.51	18.65	18.61	
20	16QAM	50	0	17.76	17.87	17.86	18.5
20	16QAM	50	24	17.64	17.45	17.89	
20	16QAM	50	50	17.66	17.75	17.70	
20	16QAM	100	0	17.65	17.58	17.66	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	19.66	19.76	19.65	20.5
15	QPSK	1	37	19.63	19.65	19.48	
15	QPSK	1	74	19.43	19.59	19.56	
15	QPSK	36	0	18.76	18.79	18.84	19.5
15	QPSK	36	20	18.80	18.57	18.64	
15	QPSK	36	39	18.66	18.59	18.43	
15	QPSK	75	0	18.55	18.52	18.53	19.5
15	16QAM	1	0	18.73	18.70	18.72	
15	16QAM	1	37	18.62	18.59	18.87	
15	16QAM	1	74	18.57	18.79	18.78	18.5
15	16QAM	36	0	17.91	17.80	17.75	
15	16QAM	36	20	17.55	17.68	17.90	
15	16QAM	36	39	17.74	17.73	17.56	18.5
15	16QAM	75	0	17.50	17.56	17.71	
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	19.59	19.77	19.60	20.5
10	QPSK	1	25	19.51	19.66	19.38	
10	QPSK	1	49	19.62	19.67	19.72	
10	QPSK	25	0	18.48	18.68	18.81	19.5
10	QPSK	25	12	18.75	18.72	18.70	
10	QPSK	25	25	18.66	18.56	18.71	
10	QPSK	50	0	18.63	18.50	18.61	19.5
10	16QAM	1	0	18.66	18.82	18.48	
10	16QAM	1	25	18.52	18.45	18.77	
10	16QAM	1	49	18.53	18.54	18.58	18.5
10	16QAM	25	0	17.83	17.84	17.73	
10	16QAM	25	12	17.51	17.70	17.62	
10	16QAM	25	25	17.83	17.61	17.67	18.5
10	16QAM	50	0	17.79	17.49	17.67	
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	19.62	19.75	19.66	20.5
5	QPSK	1	12	19.48	19.68	19.59	
5	QPSK	1	24	19.56	19.50	19.69	
5	QPSK	12	0	18.55	18.73	18.81	19.5
5	QPSK	12	7	18.82	18.81	18.55	
5	QPSK	12	13	18.81	18.68	18.44	
5	QPSK	25	0	18.54	18.74	18.76	19.5
5	16QAM	1	0	18.88	18.73	18.72	
5	16QAM	1	12	18.62	18.72	18.73	
5	16QAM	1	24	18.51	18.56	18.79	18.5
5	16QAM	12	0	17.76	17.75	17.75	
5	16QAM	12	7	17.61	17.72	17.86	
5	16QAM	12	13	17.74	17.67	17.68	18.5
5	16QAM	25	0	17.47	17.51	17.71	
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	19.59	19.76	19.69	20.5
3	QPSK	1	8	19.55	19.73	19.61	
3	QPSK	1	14	19.70	19.66	19.66	
3	QPSK	8	0	18.68	18.60	18.75	19.5
3	QPSK	8	4	18.84	18.73	18.83	
3	QPSK	8	7	18.54	18.57	18.54	
3	QPSK	15	0	18.62	18.61	18.67	19.5
3	16QAM	1	0	18.64	18.73	18.58	
3	16QAM	1	8	18.65	18.53	18.60	
3	16QAM	1	14	18.78	18.59	18.69	18.5
3	16QAM	8	0	17.62	17.87	17.84	
3	16QAM	8	4	17.72	17.60	17.61	
3	16QAM	8	7	17.62	17.62	17.66	18.5
3	16QAM	15	0	17.59	17.60	17.72	
Channel				18607	18900	19193	
Frequency (MHz)				1860.7	1880	1909.3	
1.4	QPSK	1	0	19.52	19.75	19.57	20.5
1.4	QPSK	1	3	19.61	19.77	19.65	
1.4	QPSK	1	5	19.59	19.69	19.46	
1.4	QPSK	3	0	18.53	18.79	18.59	19.5
1.4	QPSK	3	1	18.58	18.52	18.66	
1.4	QPSK	3	3	18.66	18.64	18.72	
1.4	QPSK	6	0	18.63	18.78	18.67	19.5
1.4	16QAM	1	0	18.73	18.83	18.80	
1.4	16QAM	1	3	18.61	18.63	18.59	
1.4	16QAM	1	5	18.50	18.83	18.57	19.5
1.4	16QAM	3	0	17.75	17.64	17.87	
1.4	16QAM	3	1	17.65	17.58	17.66	
1.4	16QAM	3	3	17.86	17.72	17.57	18.5
1.4	16QAM	6	0	17.62	17.64	17.56	

Band 4 (AWS Band) (dBm) Part 27L (only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	20.77	20.80	20.76	
20	QPSK	1	49	20.70	20.75	20.68	21.5
20	QPSK	1	99	20.64	20.59	20.69	
20	QPSK	50	0	19.76	19.73	19.95	
20	QPSK	50	24	19.92	19.83	19.97	20.5
20	QPSK	50	50	19.67	19.75	19.73	
20	QPSK	100	0	19.77	19.60	19.64	
20	16QAM	1	0	19.92	19.77	19.86	20.5
20	16QAM	1	49	19.62	19.73	19.87	
20	16QAM	1	99	19.67	19.63	19.90	
20	16QAM	50	0	18.86	18.86	18.73	19.5
20	16QAM	50	24	18.89	18.64	18.76	
20	16QAM	50	50	18.79	18.55	18.78	
20	16QAM	100	0	18.88	18.63	18.79	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	20.62	20.78	20.73	21.5
15	QPSK	1	37	20.63	20.70	20.73	
15	QPSK	1	74	20.78	20.61	20.74	
15	QPSK	36	0	19.85	19.80	19.82	20.5
15	QPSK	36	20	19.95	19.76	19.63	
15	QPSK	36	39	19.66	19.83	19.74	
15	QPSK	75	0	19.58	19.61	19.60	20.5
15	16QAM	1	0	19.78	19.84	19.87	
15	16QAM	1	37	19.81	19.84	19.73	
15	16QAM	1	74	19.81	19.71	19.59	19.5
15	16QAM	36	0	18.96	18.93	19.05	
15	16QAM	36	20	18.82	18.77	18.71	
15	16QAM	36	39	18.70	18.71	18.67	18.5
15	16QAM	75	0	18.86	18.63	18.83	
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	20.76	20.77	20.69	21.5
10	QPSK	1	25	20.74	20.69	20.69	
10	QPSK	1	49	20.68	20.71	20.55	
10	QPSK	25	0	19.79	19.96	19.92	20.5
10	QPSK	25	12	19.87	19.80	19.84	
10	QPSK	25	25	19.67	19.65	19.86	
10	QPSK	50	0	19.61	19.75	19.60	20.5
10	16QAM	1	0	19.79	19.80	19.77	
10	16QAM	1	25	19.84	19.55	19.71	
10	16QAM	1	49	19.88	19.81	19.63	19.5
10	16QAM	25	0	18.72	18.65	18.85	
10	16QAM	25	12	18.71	18.69	18.82	
10	16QAM	25	25	18.84	18.63	18.82	18.5
10	16QAM	50	0	18.75	18.67	18.95	
Channel				19975	20175	20375	
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	20.73	20.76	20.63	21.5
5	QPSK	1	12	20.55	20.58	20.53	
5	QPSK	1	24	20.67	20.59	20.67	
5	QPSK	12	0	19.83	19.88	19.79	20.5
5	QPSK	12	7	19.72	19.76	19.88	
5	QPSK	12	13	19.71	19.54	19.76	
5	QPSK	25	0	19.56	19.91	19.85	20.5
5	16QAM	1	0	19.79	19.86	19.71	
5	16QAM	1	12	19.63	19.72	19.75	
5	16QAM	1	24	19.75	19.61	19.91	19.5
5	16QAM	12	0	18.81	18.86	18.82	
5	16QAM	12	7	18.80	18.69	18.92	
5	16QAM	12	13	18.75	18.60	18.66	18.5
5	16QAM	25	0	18.68	18.76	18.91	
Channel				19965	20175	20385	
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	20.74	20.75	20.61	21.5
3	QPSK	1	8	20.54	20.66	20.47	
3	QPSK	1	14	20.69	20.68	20.60	
3	QPSK	8	0	19.71	19.79	19.73	20.5
3	QPSK	8	4	19.78	19.60	19.71	
3	QPSK	8	7	19.64	19.50	19.51	
3	QPSK	15	0	19.71	19.73	19.55	20.5
3	16QAM	1	0	19.70	19.86	19.72	
3	16QAM	1	8	19.72	19.84	19.71	
3	16QAM	1	14	19.81	19.86	19.77	19.5
3	16QAM	8	0	19.04	18.96	18.77	
3	16QAM	8	4	18.88	18.73	18.96	
3	16QAM	8	7	18.89	18.72	18.81	18.5
3	16QAM	15	0	18.54	18.80	18.82	
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	20.71	20.74	20.68	21.5
1.4	QPSK	1	3	20.57	20.62	20.60	
1.4	QPSK	1	5	20.57	20.63	20.61	
1.4	QPSK	3	0	19.68	19.82	19.66	20.5
1.4	QPSK	3	1	19.73	19.63	19.64	
1.4	QPSK	3	3	19.79	19.53	19.66	
1.4	QPSK	6	0	19.46	19.85	19.73	20.5
1.4	16QAM	1	0	19.77	19.76	19.64	
1.4	16QAM	1	3	19.71	19.76	19.74	
1.4	16QAM	1	5	19.90	19.86	19.59	20.5
1.4	16QAM	3	0	18.74	18.		



Band 5 (Cellular Band) (dBm) Part 22H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	22.55	22.65	22.56	23.5
10	QPSK	1	25	22.46	22.45	22.51	
10	QPSK	1	49	22.55	22.42	22.54	
10	QPSK	25	0	21.58	21.66	21.57	22.5
10	QPSK	25	12	21.50	21.48	21.56	
10	QPSK	25	25	21.53	21.42	21.42	
10	QPSK	50	0	21.28	21.51	21.38	22.5
10	16QAM	1	0	21.57	21.64	21.57	
10	16QAM	1	25	21.55	21.66	21.48	
10	16QAM	1	49	21.40	21.54	21.56	21.5
10	16QAM	25	0	20.71	20.55	20.64	
10	16QAM	25	12	20.49	20.44	20.51	
10	16QAM	25	25	20.73	20.40	20.47	21.5
10	16QAM	50	0	20.50	20.56	20.44	
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	22.58	22.58	22.50	23.5
5	QPSK	1	12	22.40	22.56	22.45	
5	QPSK	1	24	22.58	22.28	22.32	
5	QPSK	12	0	21.38	21.65	21.69	22.5
5	QPSK	12	7	21.72	21.72	21.48	
5	QPSK	12	13	21.48	21.48	21.65	
5	QPSK	25	0	21.46	21.47	21.56	22.5
5	16QAM	1	0	21.73	21.65	21.55	
5	16QAM	1	12	21.56	21.41	21.70	
5	16QAM	1	24	21.39	21.52	21.69	21.5
5	16QAM	12	0	20.59	20.52	20.63	
5	16QAM	12	7	20.56	20.34	20.54	
5	16QAM	12	13	20.52	20.57	20.64	21.5
5	16QAM	25	0	20.61	20.49	20.55	
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	22.57	22.60	22.44	23.5
3	QPSK	1	8	22.42	22.50	22.54	
3	QPSK	1	14	22.45	22.56	22.38	
3	QPSK	8	0	21.44	21.55	21.62	22.5
3	QPSK	8	4	21.70	21.66	21.62	
3	QPSK	8	7	21.70	21.53	21.51	
3	QPSK	15	0	21.35	21.57	21.59	22.5
3	16QAM	1	0	21.72	21.73	21.62	
3	16QAM	1	8	21.74	21.50	21.75	
3	16QAM	1	14	21.69	21.64	21.60	21.5
3	16QAM	8	0	20.71	20.73	20.79	
3	16QAM	8	4	20.60	20.37	20.69	
3	16QAM	8	7	20.68	20.36	20.63	21.5
3	16QAM	15	0	20.64	20.52	20.76	
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	22.56	22.59	22.57	23.5
1.4	QPSK	1	3	22.37	22.53	22.52	
1.4	QPSK	1	5	22.51	22.54	22.45	
1.4	QPSK	3	0	21.52	21.57	21.56	
1.4	QPSK	3	1	21.64	21.70	21.50	
1.4	QPSK	3	3	21.53	21.56	21.53	
1.4	QPSK	6	0	21.39	21.62	21.38	22.5
1.4	16QAM	1	0	21.67	21.53	21.46	
1.4	16QAM	1	3	21.65	21.61	21.83	
1.4	16QAM	1	5	21.48	21.54	21.45	22.5
1.4	16QAM	3	0	20.79	20.50	20.59	
1.4	16QAM	3	1	20.50	20.44	20.70	
1.4	16QAM	3	3	20.61	20.38	20.66	21.5
1.4	16QAM	6	0	20.40	20.48	20.57	

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	20.55	20.62	20.60	21.5
20	QPSK	1	49	20.59	20.36	20.52	
20	QPSK	1	99	20.44	20.57	20.35	
20	QPSK	50	0	19.71	19.78	19.75	20.5
20	QPSK	50	24	19.74	19.47	19.76	
20	QPSK	50	50	19.69	19.37	19.39	
20	QPSK	100	0	19.59	19.64	19.66	20.5
20	16QAM	1	0	19.63	19.61	19.51	
20	16QAM	1	49	19.54	19.41	19.78	
20	16QAM	1	99	19.69	19.68	19.59	19.5
20	16QAM	50	0	18.80	18.44	18.70	
20	16QAM	50	24	18.65	18.60	18.74	
20	16QAM	50	50	18.80	18.60	18.84	19.5
20	16QAM	100	0	18.48	18.56	18.76	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	20.46	20.59	20.45	21.5
15	QPSK	1	37	20.40	20.54	20.50	
15	QPSK	1	74	20.38	20.25	20.39	
15	QPSK	36	0	19.47	19.62	19.53	20.5
15	QPSK	36	20	19.54	19.59	19.70	
15	QPSK	36	39	19.54	19.42	19.56	
15	QPSK	75	0	19.57	19.54	19.48	20.5
15	16QAM	1	0	19.77	19.55	19.56	
15	16QAM	1	37	19.60	19.68	19.82	
15	16QAM	1	74	19.59	19.63	19.60	19.5
15	16QAM	36	0	18.69	18.64	18.88	
15	16QAM	36	20	18.46	18.60	18.60	
15	16QAM	36	39	18.48	18.47	18.63	19.5
15	16QAM	75	0	18.62	18.70	18.57	
Channel				20900	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	20.47	20.58	20.54	21.5
10	QPSK	1	25	20.54	20.41	20.51	
10	QPSK	1	49	20.51	20.41	20.37	
10	QPSK	25	0	19.64	19.48	19.50	20.5
10	QPSK	25	12	19.50	19.37	19.53	
10	QPSK	25	25	19.75	19.63	19.43	
10	QPSK	50	0	19.25	19.57	19.62	20.5
10	16QAM	1	0	19.57	19.68	19.66	
10	16QAM	1	25	19.72	19.59	19.72	
10	16QAM	1	49	19.62	19.43	19.40	19.5
10	16QAM	25	0	18.60	18.79	18.80	
10	16QAM	25	12	18.56	18.43	18.73	
10	16QAM	25	25	18.78	18.57	18.61	19.5
10	16QAM	50	0	18.52	18.53	18.61	
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	20.52	20.60	20.45	21.5
5	QPSK	1	12	20.46	20.59	20.54	
5	QPSK	1	24	20.58	20.39	20.56	
5	QPSK	12	0	19.58	19.73	19.71	20.5
5	QPSK	12	7	19.45	19.57	19.71	
5	QPSK	12	13	19.55	19.35	19.53	
5	QPSK	25	0	19.54	19.66	19.56	20.5
5	16QAM	1	0	19.55	19.59	19.68	
5	16QAM	1	12	19.50	19.57	19.57	
5	16QAM	1	24	19.71	19.53	19.59	19.5
5	16QAM	12	0	18.57	18.76	18.79	
5	16QAM	12	7	18.41	18.59	18.59	
5	16QAM	12	13	18.75	18.53	18.61	19.5
5	16QAM	25	0	18.63	18.43	18.46	



Band 12 (700MHz Low Band) (dBm) Part 27F(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	22.69	22.83	22.68	23.5
10	QPSK	1	25	22.64	22.70	22.61	
10	QPSK	1	49	22.61	22.60	22.59	
10	QPSK	25	0	21.65	21.88	21.77	22.5
10	QPSK	25	12	21.77	21.53	21.57	
10	QPSK	25	25	21.69	21.69	21.59	
10	QPSK	50	0	21.43	21.55	21.57	22.5
10	16QAM	1	0	21.69	21.87	21.53	
10	16QAM	1	25	21.69	21.69	21.86	
10	16QAM	1	49	21.79	21.66	21.83	21.5
10	16QAM	25	0	20.85	20.78	20.68	
10	16QAM	25	12	20.78	20.47	20.84	
10	16QAM	25	25	20.58	20.63	20.64	21.5
10	16QAM	50	0	20.56	20.81	20.73	
Channel				23035	23095	23155	
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	22.55	22.80	22.66	23.5
5	QPSK	1	12	22.66	22.62	22.42	
5	QPSK	1	24	22.49	22.55	22.51	
5	QPSK	12	0	21.64	21.88	21.68	22.5
5	QPSK	12	7	21.79	21.55	21.81	
5	QPSK	12	13	21.57	21.68	21.71	
5	QPSK	25	0	21.65	21.56	21.52	22.5
5	16QAM	1	0	21.75	21.84	21.52	
5	16QAM	1	12	21.57	21.60	21.77	
5	16QAM	1	24	21.78	21.60	21.69	21.5
5	16QAM	12	0	20.74	20.82	20.91	
5	16QAM	12	7	20.57	20.56	20.75	
5	16QAM	12	13	20.86	20.57	20.84	21.5
5	16QAM	25	0	20.53	20.63	20.56	
Channel				23023	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	22.69	22.77	22.68	23.5
3	QPSK	1	8	22.63	22.54	22.54	
3	QPSK	1	14	22.55	22.50	22.57	
3	QPSK	8	0	21.59	21.76	21.89	22.5
3	QPSK	8	4	21.70	21.65	21.59	
3	QPSK	8	7	21.89	21.45	21.62	
3	QPSK	15	0	21.62	21.74	21.60	22.5
3	16QAM	1	0	21.80	21.85	21.64	
3	16QAM	1	8	21.70	21.46	21.66	
3	16QAM	1	14	21.71	21.80	21.67	21.5
3	16QAM	8	0	20.76	20.61	20.94	
3	16QAM	8	4	20.80	20.78	20.89	
3	16QAM	8	7	20.69	20.56	20.61	21.5
3	16QAM	15	0	20.66	20.67	20.90	
Channel				23017	23095	23173	
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	22.65	22.79	22.62	23.5
1.4	QPSK	1	3	22.62	22.57	22.59	
1.4	QPSK	1	5	22.60	22.60	22.53	
1.4	QPSK	3	0	21.51	21.72	21.80	22.5
1.4	QPSK	3	1	21.84	21.69	21.58	
1.4	QPSK	3	3	21.81	21.63	21.57	
1.4	QPSK	6	0	21.53	21.57	21.47	22.5
1.4	16QAM	1	0	21.71	21.66	21.65	
1.4	16QAM	1	3	21.82	21.81	21.70	
1.4	16QAM	1	5	21.51	21.62	21.60	22.5
1.4	16QAM	3	0	20.67	20.67	20.73	
1.4	16QAM	3	1	20.59	20.53	20.80	
1.4	16QAM	3	3	20.58	20.63	20.69	21.5
1.4	16QAM	6	0	20.46	20.54	20.69	

Band 17 (700MHz Band) (dBm) Part 27H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	22.73	22.78	22.75	23.5
10	QPSK	1	25	22.69	22.59	22.57	
10	QPSK	1	49	22.60	22.63	22.49	
10	QPSK	25	0	21.58	21.76	21.83	22.5
10	QPSK	25	12	21.86	21.56	21.61	
10	QPSK	25	25	21.91	21.66	21.61	
10	QPSK	50	0	21.49	21.53	21.58	22.5
10	16QAM	1	0	21.85	21.67	21.76	
10	16QAM	1	25	21.61	21.76	21.64	
10	16QAM	1	49	21.65	21.53	21.79	21.5
10	16QAM	25	0	20.86	20.64	20.85	
10	16QAM	25	12	20.71	20.53	20.87	
10	16QAM	25	25	20.79	20.73	20.69	21.5
10	16QAM	50	0	20.62	20.75	20.90	
Channel				23755	23790	23825	
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	22.69	22.74	22.53	23.5
5	QPSK	1	12	22.58	22.57	22.63	
5	QPSK	1	24	22.63	22.63	22.69	
5	QPSK	12	0	21.70	21.76	21.81	22.5
5	QPSK	12	7	21.60	21.74	21.86	
5	QPSK	12	13	21.56	21.68	21.76	
5	QPSK	25	0	21.43	21.60	21.59	22.5
5	16QAM	1	0	21.67	21.82	21.59	
5	16QAM	1	12	21.74	21.48	21.63	
5	16QAM	1	24	21.55	21.62	21.77	21.5
5	16QAM	12	0	20.73	20.72	20.72	
5	16QAM	12	7	20.71	20.57	20.74	
5	16QAM	12	13	20.85	20.77	20.77	21.5
5	16QAM	25	0	20.76	20.76	20.69	



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	20.77	20.85	20.79	21.5
20	QPSK	1	49	20.64	20.58	20.49	
20	QPSK	1	99	20.53	20.57	20.54	
20	QPSK	50	0	19.79	19.81	19.74	20.5
20	QPSK	50	24	19.66	19.65	19.79	
20	QPSK	50	50	19.63	19.43	19.62	
20	QPSK	100	0	19.59	19.83	19.53	20.5
20	16QAM	1	0	19.75	19.80	19.52	
20	16QAM	1	49	19.58	19.46	19.71	
20	16QAM	1	99	19.48	19.66	19.70	19.5
20	16QAM	50	0	18.87	18.87	18.78	
20	16QAM	50	24	18.56	18.56	18.73	
20	16QAM	50	50	18.80	18.75	18.52	19.5
20	16QAM	100	0	18.58	18.54	18.87	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	20.72	20.80	20.73	21.5
15	QPSK	1	37	20.46	20.52	20.69	
15	QPSK	1	74	20.52	20.55	20.48	
15	QPSK	36	0	19.74	19.69	19.90	20.5
15	QPSK	36	20	19.71	19.52	19.80	
15	QPSK	36	39	19.75	19.64	19.49	
15	QPSK	75	0	19.71	19.61	19.53	20.5
15	16QAM	1	0	19.93	19.80	19.50	
15	16QAM	1	37	19.72	19.49	19.87	
15	16QAM	1	74	19.52	19.56	19.52	19.5
15	16QAM	36	0	18.95	18.79	18.89	
15	16QAM	36	20	18.73	18.78	18.65	
15	16QAM	36	39	18.90	18.45	18.57	19.5
15	16QAM	75	0	18.54	18.69	18.65	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	20.57	20.79	20.67	21.5
10	QPSK	1	25	20.60	20.58	20.56	
10	QPSK	1	49	20.66	20.72	20.47	
10	QPSK	25	0	19.76	19.86	19.86	20.5
10	QPSK	25	12	19.87	19.69	19.74	
10	QPSK	25	25	19.58	19.70	19.65	
10	QPSK	50	0	19.40	19.64	19.50	20.5
10	16QAM	1	0	19.70	19.94	19.57	
10	16QAM	1	25	19.59	19.50	19.73	
10	16QAM	1	49	19.50	19.54	19.84	19.5
10	16QAM	25	0	18.84	18.82	18.88	
10	16QAM	25	12	18.66	18.72	18.95	
10	16QAM	25	25	18.62	18.53	18.49	19.5
10	16QAM	50	0	18.50	18.66	18.84	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	20.67	20.77	20.67	21.5
5	QPSK	1	12	20.66	20.74	20.58	
5	QPSK	1	24	20.66	20.52	20.52	
5	QPSK	12	0	19.50	19.81	19.76	20.5
5	QPSK	12	7	19.58	19.72	19.90	
5	QPSK	12	13	19.56	19.64	19.70	
5	QPSK	25	0	19.50	19.56	19.62	20.5
5	16QAM	1	0	19.78	19.71	19.63	
5	16QAM	1	12	19.71	19.54	19.81	
5	16QAM	1	24	19.75	19.61	19.52	19.5
5	16QAM	12	0	18.64	18.80	18.69	
5	16QAM	12	7	18.48	18.45	18.59	
5	16QAM	12	13	18.71	18.64	18.53	19.5
5	16QAM	25	0	18.57	18.58	18.85	
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	20.73	20.76	20.65	21.5
3	QPSK	1	8	20.57	20.75	20.63	
3	QPSK	1	14	20.65	20.68	20.45	
3	QPSK	8	0	19.59	19.74	19.83	20.5
3	QPSK	8	4	19.73	19.63	19.63	
3	QPSK	8	7	19.70	19.68	19.72	
3	QPSK	15	0	19.65	19.68	19.64	20.5
3	16QAM	1	0	19.63	19.75	19.66	
3	16QAM	1	8	19.62	19.71	19.84	
3	16QAM	1	14	19.57	19.81	19.66	19.5
3	16QAM	8	0	18.89	18.91	18.70	
3	16QAM	8	4	18.68	18.53	18.94	
3	16QAM	8	7	18.72	18.69	18.76	19.5
3	16QAM	15	0	18.65	18.62	18.82	
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	20.54	20.78	20.54	21.5
1.4	QPSK	1	3	20.49	20.66	20.44	
1.4	QPSK	1	5	20.55	20.55	20.55	
1.4	QPSK	3	0	19.80	19.64	19.69	20.5
1.4	QPSK	3	1	19.81	19.52	19.68	
1.4	QPSK	3	3	19.59	19.54	19.55	
1.4	QPSK	6	0	19.59	19.79	19.64	20.5
1.4	16QAM	1	0	19.72	19.91	19.65	
1.4	16QAM	1	3	19.77	19.71	19.88	
1.4	16QAM	1	5	19.63	19.83	19.51	20.5
1.4	16QAM	3	0	18.86	18.66	18.87	
1.4	16QAM	3	1	18.66	18.63	18.64	
1.4	16QAM	3	3	18.59	18.79	18.81	19.5
1.4	16QAM	6	0	18.67	18.74	18.90	

Band 71 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				133222	133322	133372	
Frequency (MHz)				673	683	688	
20	QPSK	1	0	22.82	22.86	22.74	23.5
20	QPSK	1	49	22.68	22.63	22.47	
20	QPSK	1	99	22.54	22.66	22.75	
20	QPSK	50	0	21.66	21.85	21.76	22.5
20	QPSK	50	24	21.83	21.73	21.59	
20	QPSK	50	50	21.61	21.55	21.78	
20	QPSK	100	0	21.59	21.71	21.65	22.5
20	16QAM	1	0	21.86	21.89	21.77	
20	16QAM	1	49	21.62	21.58	21.93	
20	16QAM	1	99	21.54	21.79	21.71	21.5
20	16QAM	50	0	20.82	20.56	20.87	
20	16QAM	50	24	20.59	20.47	20.94	
20	16QAM	50	50	20.89	20.62	20.69	21.5
20	16QAM	100	0	20.59	20.81	20.82	
Channel				133197	133297	133397	
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	22.70	22.82	22.67	23.5
15	QPSK	1	37	22.68	22.57	22.43	
15	QPSK	1	74	22.57	22.58	22.62	
15	QPSK	36	0	21.53	21.65	21.75	22.5
15	QPSK	36	20	21.86	21.51	21.78	
15	QPSK	36	39	21.80	21.47	21.76	
15	QPSK	75	0	21.46	21.76	21.77	22.5
15	16QAM	1	0	21.66	21.87	21.67	
15	16QAM	1	37	21.56	21.71	21.95	
15	16QAM	1	74	21.51	21.86	21.56	21.5
15	16QAM	36	0	20.87	20.88	20.89	
15	16QAM	36	20	20.48	20.47	20.68	
15	16QAM	36	39	20.57	20.62	20.55	21.5
15	16QAM	75	0	20.71	20.63	20.85	
Channel				133172	133272	133422	
Frequency (MHz)				668	678	683	
10	QPSK	1	0	22.66	22.83	22.57	23.5
10	QPSK	1	25	22.51	22.65	22.62	
10	QPSK	1	49	22.63	22.53	22.50	
10	QPSK	25	0	21.58	21.70	21.91	22.5
10	QPSK	25	12	21.79	21.67	21.75	
10	QPSK	25	25	21.81	21.75	21.44	
10	QPSK	50	0	21.50	21.77	21.77	22.5
10	16QAM	1	0	21.70	21.82	21.77	
10	16QAM	1	25	21.74	21.46	21.82	
10	16QAM	1	49	21.74	21.61	21.80	21.5
10	16QAM	25	0	20.81	20.56	20.73	
10	16QAM	25	12	20.55	20.64	20.64	
10	16QAM	25	25	20.72	20.50	20.55	21.5
10	16QAM	50	0	20.57	20.50	20.71	
Channel				133147	133247	133447	
Frequency (MHz)				665.5	675.5	685.5	
5	QPSK	1	0	22.72	22.84	22.55	23.5
5	QPSK	1	12	22.47	22.72	22.56	
5	QPSK	1	24	22.46	22.72	22.51	
5	QPSK	12	0	21.63	21.66	21.84	22.5
5	QPSK	12	7	21.59	21.65	21.76	
5	QPSK	12	13	21.85	21.58	21.56	
5	QPSK	25	0	21.43	21.57	21.61	22.5
5	16QAM	1	0	21.65	21.68	21.74	
5	16QAM	1	12	21.78	21.77	21.84	
5	16QAM	1	24	21.73	21.77	21.77	21.5
5	16QAM	12	0	20.77	20.71	20.70	
5	16QAM	12	7	20.76	20.68	20.93	
5	16QAM	12	13	20.84	20.67	20.52	21.5
5	16QAM	25	0	20.58	20.79	20.62	



2.4GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11b 1Mbps	CH 1	2412	15.33	17.00	17.00	99.71
	CH 7	2442	16.62	18.50	17.00	
	CH 13	2472	16.06	18.00	16.00	
802.11g 6Mbps	CH 1	2412	12.86	14.50	15.00	98.04
	CH 7	2442	15.12	16.50	16.00	
	CH 13	2472	9.72	11.50	10.00	
802.11n-HT20 MCS0	CH 1	2412	12.02	14.00	14.00	97.67
	CH 7	2442	10.36	11.00	10.00	
	CH 13	2472	8.95	10.50	9.00	
802.11n-HT40 MCS0	CH 3	2422	8.68	10.50	9.00	95.52
	CH 7	2442	14.03	15.50	16.00	
	CH 11	2462	5.15	7.00	6.00	

5GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 36	5180	12.90	14.50	14.00	99.54
	CH 44	5220	12.89	14.50	14.00	
	CH 48	5240	12.55	14.50	14.00	
802.11n-HT20 MCS0	CH 36	5180	12.73	14.50	13.00	97.84
	CH 44	5220	12.78	14.50	13.00	
	CH 48	5240	12.25	14.00	13.00	
802.11n-HT40 MCS0	CH 38	5190	10.97	12.50	12.00	95.69
	CH 49	5230	10.30	12.00	12.00	
	CH 36	5180	12.75	14.50	13.00	
802.11ac-VHT20 MCS0	CH 44	5220	12.47	14.00	13.00	97.42
	CH 48	5240	12.18	14.00	13.00	
	CH 38	5190	11.08	13.00	12.00	
802.11ac-VHT40 MCS0	CH 46	5230	10.82	12.50	12.00	96.55
	CH 42	5210	10.78	12.50	12.00	

5GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 62	5260	13.03	15.00	14.00	99.54
	CH 60	5300	13.09	15.00	14.00	
	CH 64	5320	12.63	14.50	14.00	
802.11n-HT20 MCS0	CH 62	5260	12.93	14.50	14.00	97.84
	CH 60	5300	12.89	14.50	14.00	
	CH 64	5320	12.53	14.50	14.00	
802.11n-HT40 MCS0	CH 54	5270	11.12	13.00	12.00	95.69
	CH 62	5310	11.00	13.00	12.00	
	CH 62	5260	12.89	14.50	13.00	
802.11ac-VHT20 MCS0	CH 60	5300	12.89	14.50	13.00	97.42
	CH 64	5320	12.51	14.50	13.00	
	CH 54	5270	11.17	13.00	14.00	
802.11ac-VHT40 MCS0	CH 62	5310	11.03	13.00	12.00	96.55
	CH 58	5290	10.84	12.50	12.00	

5GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 100	5500	13.22	15.00	14.00	99.54
	CH 120	5600	13.77	15.50	14.00	
	CH 140	5700	13.70	15.50	14.00	
802.11n-HT20 MCS0	CH 100	5500	13.10	15.00	13.00	97.84
	CH 120	5600	13.57	15.50	13.00	
	CH 140	5700	13.42	15.00	13.00	
802.11n-HT40 MCS0	CH 102	5510	11.77	13.50	12.00	95.69
	CH 126	5630	12.22	14.00	12.00	
	CH 134	5670	12.98	14.50	12.00	
802.11ac-VHT20 MCS0	CH 100	5500	13.03	15.00	13.00	97.42
	CH 120	5600	13.68	15.50	13.00	
	CH 140	5700	13.47	15.00	13.00	
802.11ac-VHT40 MCS0	CH 102	5510	11.87	13.50	12.00	96.55
	CH 126	5630	12.22	14.00	12.00	
	CH 134	5670	12.97	14.50	12.00	
802.11ac-VHT80 MCS0	CH 106	5530	11.34	13.00	12.00	91.53
	CH 122	5610	11.45	13.00	12.00	
	CH 138	5690	12.10	14.00	12.00	

5GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 140	5745	13.27	15.00	14.00	99.54
	CH 157	5785	12.52	14.50	14.00	
	CH 165	5825	12.71	14.50	14.00	
802.11n-HT20 MCS0	CH 140	5745	13.04	15.00	13.00	97.84
	CH 157	5785	13.50	14.50	13.00	
	CH 165	5825	12.41	14.00	13.00	
802.11n-HT40 MCS0	CH 151	5755	11.03	13.00	12.00	95.69
	CH 159	5795	10.39	12.00	12.00	
	CH 149	5745	12.96	14.50	13.00	
802.11ac-VHT20 MCS0	CH 157	5785	12.52	14.50	13.00	97.42
	CH 165	5825	12.66	14.50	13.00	
	CH 151	5755	11.47	13.00	12.00	
802.11ac-VHT40 MCS0	CH 159	5795	10.23	12.00	12.00	96.55
	CH 155	5775	10.71	12.50	12.00	

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	6.26	5.46	5.70
	CH 95	2441	6.08	7.00	7.48
	CH 78	2480	7.20	6.21	6.80
Tune-up Limit			10	9	9
Duty Cycle %			77.87	77.97	77.33

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	1.21	1.21
	CH 10	2440	3.07	3.25
	CH 90	2480	2.37	2.36
Tune-up Limit			5	5
Duty Cycle %			32	32.26



Reduced Power

GSM1900		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810	512		661	810		
Frequency (MHz)	1850.2	1880	1909.8	23.50	13.19	13.26	13.05	14.50	
GSM 1 Tx slot	22.19	22.26	22.05	23.50	13.17	13.15	13.03	14.50	
GPRS 1 Tx slot	22.17	22.15	22.03	23.50	13.17	13.15	13.03	14.50	
GPRS 2 Tx slots	20.12	20.13	20.05	21.00	14.12	14.13	14.05	15.00	
GPRS 3 Tx slots	18.16	18.12	18.04	19.00	13.90	13.86	13.78	14.74	
GPRS 4 Tx slots	16.29	16.23	16.11	17.00	13.29	13.23	13.11	14.00	
EDGE 1 Tx slot	14.66	14.74	14.61	15.50	5.66	5.74	5.61	6.50	
EDGE 2 Tx slots	13.58	13.67	13.52	14.50	7.58	7.67	7.52	8.50	
EDGE 3 Tx slots	12.45	12.44	12.33	13.00	8.19	8.18	8.07	8.74	
EDGE 4 Tx slots	10.71	10.62	10.57	11.50	7.71	7.62	7.57	8.50	
Mode		Max.	22.26			Max.	14.13		
Attenuator	Cable Loss : 0.8								

Band		WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)
TX Channel	9262	9400	9538	1312		1413	1513		
Rx Channel	9662	9800	9938	1537	1638	1738			
Frequency (MHz)	1852.4	1880	1907.6	1712.4	1732.6	1752.6			
3GPP Rel 99	RMC 12.2Kbps	15.84	15.88	15.75	17.00	15.79	15.83	15.80	17.00
3GPP Rel 6	HSDPA Subtest-1	15.59	15.39	15.49	16.50	15.82	15.54	15.43	16.50
3GPP Rel 6	HSDPA Subtest-2	13.58	13.53	13.81	14.50	14.42	14.05	14.05	15.00
3GPP Rel 6	HSDPA Subtest-3	13.04	13.06	13.06	14.00	13.31	13.43	13.20	14.00
3GPP Rel 6	HSDPA Subtest-4	11.99	12.23	12.34	13.00	13.22	13.00	12.84	14.00
3GPP Rel 6	HSUPA Subtest-1	12.73	12.66	12.70	13.50	14.97	14.79	14.76	15.50
3GPP Rel 6	HSUPA Subtest-2	13.03	13.11	13.07	14.00	14.98	14.77	14.79	15.50
3GPP Rel 6	HSUPA Subtest-3	13.25	13.28	13.26	14.00	15.15	15.00	14.88	16.00
3GPP Rel 6	HSUPA Subtest-4	13.57	13.59	13.55	14.50	15.47	15.35	15.18	16.00
3GPP Rel 6	HSUPA Subtest-5	15.60	15.51	15.58	16.50	15.79	15.67	15.54	16.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	15.56	15.33	15.35	16.00	15.45	15.65	15.20	16.50
Attenuator		Cable Loss			0.8		Cable Loss		0.8
Mode		Max.	15.88		6.50		Max.	15.83	

Band 2 (1900MHz Band) (dBm)							
Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	18
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	17.23	17.29	17.25	
20	QPSK	1	49	17.14	17.08	16.96	17
20	QPSK	1	99	17.13	16.94	17.08	
20	QPSK	50	0	16.25	16.34	16.18	
20	QPSK	50	24	16.18	16.15	16.24	17
20	QPSK	50	50	16.11	16.08	16.03	
20	QPSK	100	0	16.06	16.11	15.98	
20	16QAM	1	0	16.12	16.29	16.11	17
20	16QAM	1	49	16.05	15.94	16.27	
20	16QAM	1	99	16.01	16.15	16.11	
20	16QAM	50	0	15.26	15.37	15.36	16
20	16QAM	50	24	15.14	15.05	15.39	
20	16QAM	50	50	15.16	15.25	15.20	
20	16QAM	100	0	15.15	15.08	15.16	18
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	17.16	17.26	17.15	18
15	QPSK	1	37	17.13	17.15	16.98	
15	QPSK	1	74	16.93	17.09	17.06	
15	QPSK	36	0	16.26	16.29	16.34	17
15	QPSK	36	20	16.30	16.07	16.14	
15	QPSK	36	39	16.16	16.09	15.93	
15	QPSK	76	0	16.05	16.02	16.03	17
15	16QAM	1	0	16.23	16.20	16.22	
15	16QAM	1	37	16.12	16.09	16.37	
15	16QAM	1	74	16.07	16.29	16.28	16
15	16QAM	36	0	15.41	15.30	15.25	
15	16QAM	36	20	15.05	15.18	15.40	
15	16QAM	36	39	15.24	15.23	15.06	16
15	16QAM	76	0	15.00	15.06	15.21	
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	17.09	17.27	17.10	18
10	QPSK	1	25	17.01	17.16	16.88	
10	QPSK	1	49	17.12	17.17	17.22	
10	QPSK	25	0	15.98	16.18	16.31	17
10	QPSK	25	12	16.25	16.22	16.20	
10	QPSK	25	25	16.16	16.06	16.21	
10	QPSK	50	0	16.13	16.00	16.11	17
10	16QAM	1	0	16.16	16.32	15.98	
10	16QAM	1	25	16.02	15.95	16.27	
10	16QAM	1	49	16.03	16.04	16.08	16
10	16QAM	25	0	15.33	15.34	15.23	
10	16QAM	25	12	15.01	15.20	15.12	
10	16QAM	25	25	15.33	15.11	15.17	16
10	16QAM	50	0	15.29	15.09	15.17	
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	17.12	17.25	17.16	18
5	QPSK	1	12	16.98	17.18	17.09	
5	QPSK	1	24	17.06	17.00	17.19	
5	QPSK	12	0	16.05	16.23	16.31	17
5	QPSK	12	7	16.32	16.31	16.05	
5	QPSK	12	13	16.31	16.18	15.94	
5	QPSK	25	0	16.04	16.24	16.26	17
5	16QAM	1	0	16.38	16.23	16.22	
5	16QAM	1	12	16.12	16.22	16.23	
5	16QAM	1	24	16.01	16.06	16.29	16
5	16QAM	12	0	15.26	15.25	15.25	
5	16QAM	12	7	15.11	15.22	15.36	
5	16QAM	12	13	15.24	15.17	15.18	16
5	16QAM	25	0	15.07	15.01	15.21	
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	17.09	17.26	17.19	18
3	QPSK	1	8	17.05	17.23	17.11	
3	QPSK	1	14	17.20	17.16	17.16	
3	QPSK	8	0	16.18	16.10	16.25	17
3	QPSK	8	4	16.34	16.23	16.33	
3	QPSK	8	7	16.04	16.07	16.04	
3	QPSK	15	0	16.12	16.11	16.17	17
3	16QAM	1	0	16.14	16.23	16.08	
3	16QAM	1	8	16.15	16.03	16.10	
3	16QAM	1	14	16.28	16.09	16.19	16
3	16QAM	8	0	15.12	15.37	15.34	
3	16QAM	8	4	15.22	15.10	15.11	
3	16QAM	8	7	15.12	15.12	15.16	16
3	16QAM	15	0	15.09	15.10	15.22	
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	17.02	17.25	17.07	18
1.4	QPSK	1	3	17.11	17.27	17.15	
1.4	QPSK	1	5	17.09	17.19	16.96	
1.4	QPSK	3	0	16.03	16.29	16.09	17
1.4	QPSK	3	1	16.08	16.02	16.16	
1.4	QPSK	3	3	16.16	16.14	16.22	
1.4	QPSK	6	0	16.13	16.28	16.17	17
1.4	16QAM	1	0	16.23	16.33	16.30	
1.4	16QAM	1	3	16.11	16.13	16.09	
1.4	16QAM	1	5	16.00	16.33	16.07	17
1.4	16QAM	3	0	15.25	15.14	15.37	
1.4	16QAM	3	1	15.15	15.08	15.16	
1.4	16QAM	3	3	15.36	15.22	15.07	16
1.4	16QAM	6	0	15.12	15.14	15.06	

Band 4 (AWS Band) (dBm)							
Part 27L (only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	19
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	18.27	18.30	18.26	
20	QPSK	1	49	18.20	18.25	18.18	18
20	QPSK	1	99	18.14	18.09	18.19	
20	QPSK	50	0	17.26	17.23	17.45	
20	QPSK	50	24	17.42	17.33	17.47	18
20	QPSK	50	50	17.17	17.25	17.14	
20	QPSK	100	0	17.27	17.10	17.23	
20	16QAM	1	0	17.42	17.27	17.36	18
20	16QAM	1	49	17.12	17.23	17.37	
20	16QAM	1	99	17.17	17.13	17.40	
20	16QAM	50	0	16.36	16.36	16.23	17
20	16QAM	50	24	16.19	16.14	16.26	
20	16QAM	50	50	16.29	16.05	16.28	
20	16QAM	100	0	16.38	16.13	16.29	19
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	18.12	18.28	18.23	19
15	QPSK	1	37	18.13	18.20	18.23	
15	QPSK	1	74	18.28	18.11	18.24	
15	QPSK	36	0	17.35	17.30	17.32	18
15	QPSK	36	20	17.45	17.26	17.33	
15	QPSK	36	39	17.16	17.33	17.24	
15	QPSK	76	0	17.08	17.11	17.10	18
15	16QAM	1	0	17.28	17.34	17.37	
15	16QAM	1	37	17.31	17.34	17.23	
15	16QAM	1	74	17.31	17.21	17.09	17
15	16QAM	36	0	16.46	16.43	16.55	
15	16QAM	36	20	16.32	16.27	16.21	
15	16QAM	36	39	16.20	16.21	16.17	17
15	16QAM	76	0	16.36	16.13	16.43	
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	18.26	18.27	18.19	19
10	QPSK	1	25	18.24	18.19	18.19	
10	QPSK	1	49	18.18	18.21	18.05	
10	QPSK	25	0	17.29	17.46	17.42	18
10	QPSK	25	12	17.37	17.30	17.34	
10	QPSK	25	25	17.17	17.15	17.36	
10	QPSK	50	0	17.11	17.25	17.10	18
10	16QAM	1	0	17.29	17.30	17.27	
10	16QAM	1	25	17.34	17.05	17.21	
10	16QAM	1	49	17.38	17.31	17.13	17
10	16QAM	25	0	16.22	16.15	16.35	
10	16QAM	25	12	16.21	16.19	16.32	
10	16QAM	25	25	16.34	16.13	16.32	17
10	16QAM	50	0	16.25	16.17	16.45	
Channel				19975	20175	20375	
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	18.23	18.26	18.13	19
5	QPSK	1	12	18.05	18.08	18.03	
5	QPSK	1	24	18.17	18.09	18.17	
5	QPSK	12	0	17.33	17.38	17.29	18
5	QPSK	12	7	17.22	17.26	17.38	
5	QPSK	12	13	17.21	17.04	17.26	
5	QPSK	25	0	17.06	17.41	17.35	18
5	16QAM	1	0	17.29	17.36	17.21	
5	16QAM	1	12	17.13	17.22	17.25	
5	16QAM	1	24	17.25	17.11	17.41	17
5	16QAM	12	0	16.31	16.36	16.32	
5	16QAM	12	7	16.30	16.19	16.42	
5	16QAM	12	13	16.25	16.10	16.16	17
5	16QAM	25	0	16.18	16.26	16.41	
Channel				19965	20175	20385	
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	18.24	18.25	18.11	19
3	QPSK	1	8	18.04			



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	14.55	14.62	14.60	
20	QPSK	1	49	14.59	14.36	14.52	15.5
20	QPSK	1	99	14.44	14.57	14.35	
20	QPSK	50	0	13.71	13.78	13.75	
20	QPSK	50	24	13.74	13.47	13.76	14.5
20	QPSK	50	50	13.69	13.37	13.39	
20	QPSK	100	0	13.59	13.64	13.66	
20	16QAM	1	0	13.63	13.81	13.51	
20	16QAM	1	49	13.54	13.41	13.78	14.5
20	16QAM	1	99	13.69	13.68	13.59	
20	16QAM	50	0	12.80	12.44	12.70	
20	16QAM	50	24	12.65	12.60	12.74	13.5
20	16QAM	50	50	12.80	12.60	12.64	
20	16QAM	100	0	12.48	12.56	12.76	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	14.46	14.59	14.45	
15	QPSK	1	37	14.40	14.54	14.50	
15	QPSK	1	74	14.38	14.25	14.39	
15	QPSK	36	0	13.47	13.62	13.53	
15	QPSK	36	20	13.54	13.59	13.70	14.5
15	QPSK	36	39	13.54	13.42	13.56	
15	QPSK	75	0	13.57	13.54	13.48	
15	16QAM	1	0	13.77	13.55	13.56	
15	16QAM	1	37	13.60	13.68	13.82	14.5
15	16QAM	1	74	13.59	13.63	13.60	
15	16QAM	36	0	12.69	12.64	12.88	
15	16QAM	36	20	12.46	12.60	12.60	13.5
15	16QAM	36	39	12.48	12.47	12.63	
15	16QAM	75	0	12.62	12.70	12.57	
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	14.47	14.58	14.54	
10	QPSK	1	25	14.54	14.41	14.51	
10	QPSK	1	49	14.51	14.41	14.37	
10	QPSK	25	0	13.64	13.48	13.50	
10	QPSK	25	12	13.50	13.37	13.53	14.5
10	QPSK	25	25	13.75	13.63	13.43	
10	QPSK	50	0	13.25	13.57	13.62	
10	16QAM	1	0	13.57	13.68	13.66	
10	16QAM	1	25	13.72	13.59	13.72	14.5
10	16QAM	1	49	13.62	13.43	13.40	
10	16QAM	25	0	12.60	12.79	12.80	
10	16QAM	25	12	12.56	12.43	12.73	13.5
10	16QAM	25	25	12.78	12.57	12.61	
10	16QAM	50	0	12.52	12.53	12.61	
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	14.52	14.60	14.45	
5	QPSK	1	12	14.46	14.59	14.54	
5	QPSK	1	24	14.58	14.39	14.56	
5	QPSK	12	0	13.58	13.73	13.71	
5	QPSK	12	7	13.45	13.57	13.71	14.5
5	QPSK	12	13	13.55	13.35	13.53	
5	QPSK	25	0	13.54	13.66	13.56	
5	16QAM	1	0	13.55	13.59	13.68	
5	16QAM	1	12	13.50	13.57	13.57	14.5
5	16QAM	1	24	13.71	13.53	13.59	
5	16QAM	12	0	12.57	12.76	12.79	
5	16QAM	12	7	12.41	12.59	12.59	13.5
5	16QAM	12	13	12.75	12.53	12.61	
5	16QAM	25	0	12.63	12.43	12.46	

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	18.27	18.35	18.29	
20	QPSK	1	49	18.14	18.08	17.99	
20	QPSK	1	99	18.03	18.07	18.04	
20	QPSK	50	0	17.29	17.31	17.24	
20	QPSK	50	24	17.16	17.15	17.29	18
20	QPSK	50	50	17.13	16.93	17.12	
20	QPSK	100	0	17.09	17.33	17.03	
20	16QAM	1	0	17.25	17.30	17.02	
20	16QAM	1	49	17.08	16.96	17.21	18
20	16QAM	1	99	16.98	17.16	17.20	
20	16QAM	50	0	16.37	16.37	16.28	
20	16QAM	50	24	16.06	16.06	16.23	17
20	16QAM	50	50	16.30	16.25	16.02	
20	16QAM	100	0	16.08	16.04	16.37	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	18.22	18.30	18.23	
15	QPSK	1	37	17.96	18.02	18.19	
15	QPSK	1	74	18.02	18.05	17.98	
15	QPSK	36	0	17.24	17.19	17.40	
15	QPSK	36	20	17.21	17.02	17.30	18
15	QPSK	36	39	17.25	17.14	16.99	
15	QPSK	75	0	17.21	17.11	17.03	
15	16QAM	1	0	17.43	17.30	17.00	
15	16QAM	1	37	17.22	16.99	17.37	18
15	16QAM	1	74	17.02	17.06	17.02	
15	16QAM	36	0	16.45	16.29	16.39	
15	16QAM	36	20	16.23	16.28	16.15	17
15	16QAM	36	39	16.40	15.95	16.07	
15	16QAM	75	0	16.04	16.19	16.15	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	18.07	18.29	18.17	
10	QPSK	1	25	18.10	18.08	18.06	
10	QPSK	1	49	18.16	18.22	17.97	
10	QPSK	25	0	17.26	17.36	17.36	
10	QPSK	25	12	17.37	17.19	17.24	18
10	QPSK	25	25	17.08	17.20	17.15	
10	QPSK	50	0	16.90	17.14	17.00	
10	16QAM	1	0	17.20	17.44	17.07	
10	16QAM	1	25	17.09	17.00	17.23	18
10	16QAM	1	49	17.00	17.04	17.34	
10	16QAM	25	0	16.34	16.32	16.38	
10	16QAM	25	12	16.16	16.22	16.45	17
10	16QAM	25	25	16.12	16.03	15.99	
10	16QAM	50	0	16.00	16.16	16.34	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	18.17	18.27	18.17	
5	QPSK	1	12	18.16	18.24	18.08	
5	QPSK	1	24	18.16	18.02	18.02	
5	QPSK	12	0	17.00	17.31	17.26	
5	QPSK	12	7	17.08	17.22	17.40	18
5	QPSK	12	13	17.06	17.14	17.20	
5	QPSK	25	0	17.00	17.06	17.12	
5	16QAM	1	0	17.28	17.21	17.13	
5	16QAM	1	12	17.21	17.04	17.31	18
5	16QAM	1	24	17.25	17.11	17.02	
5	16QAM	12	0	16.14	16.30	16.19	
5	16QAM	12	7	15.98	15.95	16.09	17
5	16QAM	12	13	16.21	16.14	16.03	
5	16QAM	25	0	16.07	16.08	16.35	
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	18.23	18.26	18.15	
3	QPSK	1	8	18.07	18.25	18.13	
3	QPSK	1	14	18.15	18.18	17.95	
3	QPSK	8	0	17.09	17.24	17.33	
3	QPSK	8	4	17.23	17.13	17.13	18
3	QPSK	8	7	17.20	17.18	17.22	
3	QPSK	15	0	17.15	17.18	17.14	
3	16QAM	1	0	17.13	17.25	17.16	
3	16QAM	1	8	17.12	17.21	17.34	18
3	16QAM	1	14	17.07	17.31	17.16	
3	16QAM	8	0	16.39	16.41	16.20	
3	16QAM	8	4	16.18	16.03	16.44	17
3	16QAM	8	7	16.22	16.19	16.26	
3	16QAM	15	0	16.15	16.12	16.32	
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	18.04	18.28	18.04	
1.4	QPSK	1	3	17.99	18.16	17.94	
1.4	QPSK	1	5	18.05	18.05	18.05	
1.4	QPSK	3	0	17.30	17.14	17.19	
1.4	QPSK	3	1	17.31	17.02	17.18	
1.4	QPSK	3	3	17.09	17.04	17.05	
1.4	QPSK	6	0	17.09	17.29	17.14	18
1.4	16QAM	1	0	17.22	17.41	17.15	
1.4	16QAM	1	3	17.27	17.21	17.38	
1.4	16QAM	1	5	17.13	17.33	17.01	18
1.4	16QAM	3	0	16.36	16.16	16.37	
1.4	16QAM	3	1	16.16	16.13	16.14	
1.4	16QAM	3	3	16.09	16.29	16.31	