



REPORT No.: SZ21090283S01

Annex E Conducted Power

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			
	824.2	836.4	848.8		824.2	836.4	848.8			
TX Channel	31.70	31.73	31.72	32.50	22.70	22.73	22.72	23.50	0.12	
Frequency (MHz)	31.70	31.73	31.72	32.50	22.70	22.73	22.72	23.50		
GSM 1 Tx slot	31.66	31.73	31.78	32.50	22.66	22.73	22.78	23.50		
GPRS 1 Tx slot	30.95	30.98	30.98	31.50	24.95	24.98	24.98	25.50		
GPRS 2 Tx slots	29.22	29.23	29.28	30.00	24.96	24.97	25.02	25.74		
GPRS 3 Tx slots	28.10	28.16	28.12	29.00	25.10	25.16	25.12	26.00		
GPRS 4 Tx slots	26.47	26.52	26.54	27.00	17.47	17.52	17.54	18.00		
EDGE 1 Tx slot	25.07	25.17	25.13	26.00	19.07	19.17	19.13	20.00		
EDGE 2 Tx slots	22.68	22.70	22.75	23.50	18.42	18.44	18.49	19.24		
EDGE 3 Tx slots	21.30	21.15	21.27	22.00	18.30	18.15	18.27	19.00		
EDGE 4 Tx slots		Max.	31.78			Max.	25.16			
Mode										
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			
	1850.2	1880	1909.8		1850.2	1880	1909.8			
TX Channel	24.31	24.41	24.36	24.50	15.31	15.41	15.36	15.50	0.29	
Frequency (MHz)	24.31	24.41	24.36	24.50	15.31	15.41	15.36	15.50		
GSM 1 Tx slot	24.12	24.31	24.33	24.50	15.12	15.31	15.33	15.50		
GPRS 1 Tx slot	20.05	20.31	20.31	20.50	14.05	14.31	14.31	14.50		
GPRS 2 Tx slots	19.85	20.07	20.18	20.50	15.59	15.81	15.92	16.24		
GPRS 3 Tx slots	19.63	19.93	19.91	20.50	16.63	16.93	16.91	17.50		
GPRS 4 Tx slots	24.35	24.49	24.20	25.00	15.35	15.49	15.20	16.00		
EDGE 1 Tx slot	18.39	18.46	18.45	19.00	12.39	12.46	12.45	13.00		
EDGE 2 Tx slots	18.12	18.21	17.89	18.50	13.86	13.95	13.63	14.24		
EDGE 3 Tx slots	18.06	17.92	17.82	18.50	15.06	14.92	14.82	15.50		
EDGE 4 Tx slots		Max.	24.49			Max.	16.93			
Mode										
Attenuator	Cable Loss : 0.8									

Band	WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band IV			Tune-up Limit (dBm)	WCDMA Band V			Tune-up Limit (dBm)
	9262	9400	9538		1312	1413	1513		4132	4182	4233	
	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Rx Channel	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
Frequency (MHz)	17.56	17.42	17.59	18.00	18.20	18.12	18.24	19.00	23.08	23.06	23.14	23.50
3GPP Rel 99	14.88	14.80	14.68	15.50	17.10	17.14	17.08	17.50	22.81	22.89	22.78	23.50
3GPP Rel 6	14.82	14.76	14.68	15.50	17.12	17.07	17.02	17.50	22.80	22.85	22.78	23.50
3GPP Rel 6	14.42	14.30	14.16	15.00	16.59	16.59	16.48	17.50	22.41	22.35	22.31	23.00
3GPP Rel 6	14.32	14.30	14.18	15.00	16.54	16.51	16.53	17.50	22.34	22.32	22.28	23.00
3GPP Rel 6	14.33	14.27	14.15	15.00	16.55	16.56	16.55	17.50	22.28	22.35	22.25	23.00
3GPP Rel 6	14.86	14.74	14.67	15.50	17.11	17.09	17.18	17.50	22.83	22.79	22.77	23.50
3GPP Rel 6	13.89	13.83	13.68	14.50	16.06	16.02	16.06	16.50	21.83	21.82	21.79	22.50
3GPP Rel 6	14.89	14.75	14.70	15.50	17.02	17.11	17.08	17.50	22.75	22.83	22.80	23.50
3GPP Rel 6	13.88	13.75	13.65	14.50	16.10	16.01	16.02	16.50	21.78	21.86	21.78	22.50
3GPP Rel 7	13.94	13.84	13.65	14.50	16.13	16.16	16.06	16.50	21.82	21.80	21.77	22.50
3GPP Rel 7												
Attenuator	Cable Loss			0.8	Cable Loss			0.8	Cable Loss			0.6
Mode		Max.	17.59			Max.	18.24		Max.	23.14		

Band	CDMA2000 BC0			Tune-up Limit (dBm)	BC0 Ch Delta > 0.5
	1013	384	777		
TX Channel	824.7	836.52	848.31		0.42
Frequency (MHz)	23.01	23.22	23.26	24.00	
RC1 SO55	23.16	23.21	23.13	24.00	
RC3 SO32 (F+SCH)	23.11	23.08	23.17	24.00	
RC3 SO32 (+SCH)	23.01	22.97	23.11	24.00	
RTAP 153.6Kbps	23.39	23.21	23.24	24.00	
RETAP 4096Bits	23.16	23.19	23.28	24.00	
Attenuator	Cable Loss			0.6	
Mode		Max.	23.39		

Band 2 (1900MHz Band) 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)				18600	18800	19000	
20	QPSK	1	0	17.30	17.37	17.21	18
20	QPSK	1	49	17.03	17.15	17.22	
20	QPSK	1	99	17.02	16.98	17.03	
20	QPSK	50	0	16.14	16.33	16.18	17
20	QPSK	50	24	16.06	16.13	16.10	
20	QPSK	50	50	16.10	16.04	16.19	
20	QPSK	100	0	16.07	16.13	16.11	17
20	16QAM	1	0	16.55	16.62	16.59	
20	16QAM	1	49	16.42	16.32	16.48	
20	16QAM	1	99	16.31	16.36	16.51	16
20	16QAM	50	0	15.03	14.98	15.07	
20	16QAM	50	24	15.05	15.14	15.20	
20	16QAM	50	50	15.05	15.11	15.17	16
20	16QAM	100	0	15.08	15.16	15.10	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	17.16	17.27	17.20	
15	QPSK	1	37	17.03	17.15	17.22	
15	QPSK	1	74	17.02	16.98	17.03	
15	QPSK	36	0	16.14	16.33	16.18	17
15	QPSK	36	20	16.06	16.13	16.10	
15	QPSK	36	39	16.10	16.04	16.19	
15	QPSK	75	0	16.07	16.13	16.11	17
15	16QAM	1	0	16.55	16.62	16.59	
15	16QAM	1	37	16.42	16.32	16.48	
15	16QAM	1	74	16.31	16.36	16.51	16
15	16QAM	36	0	15.03	14.98	15.07	
15	16QAM	36	20	15.05	15.14	15.20	
15	16QAM	36	39	15.05	15.11	15.17	16
15	16QAM	75	0	15.08	15.16	15.10	
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	17.05	17.16	17.09	
10	QPSK	1	25	16.92	17.04	17.11	
10	QPSK	1	49	16.91	16.87	16.92	
10	QPSK	25	0	16.03	16.22	16.07	17
10	QPSK	25	12	15.95	16.02	15.99	
10	QPSK	25	25	15.99	15.93	16.08	
10	QPSK	50	0	15.96	16.02	16.00	17
10	16QAM	1	0	16.44	16.51	16.48	
10	16QAM	1	25	16.31	16.21	16.37	
10	16QAM	1	49	16.20	16.25	16.40	16
10	16QAM	25	0	14.92	14.87	14.96	
10	16QAM	25	12	14.94	15.03	15.09	
10	16QAM	25	25	14.94	15.00	15.06	16
10	16QAM	50	0	14.97	15.05	14.99	
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	16.93	17.04	16.97	
5	QPSK	1	12	16.80	16.92	16.99	
5	QPSK	1	24	16.79	16.75	16.80	
5	QPSK	12	0	15.91	16.10	15.95	17
5	QPSK	12	7	15.83	15.90	15.87	
5	QPSK	12	13	15.87	15.81	15.96	
5	QPSK	25	0	15.84	15.90	15.88	17
5	16QAM	1	0	16.32	16.39	16.36	
5	16QAM	1	12	16.19	16.09	16.25	
5	16QAM	1	24	16.08	16.13	16.28	16
5	16QAM	12	0	14.80	14.75	14.84	
5	16QAM	12	7	14.82	14.91	14.97	
5	16QAM	12	13	14.82	14.88	14.94	16
5	16QAM	25	0	14.85	14.93	14.87	
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	16.82	16.93	16.86	
3	QPSK	1	8	16.69	16.81	16.88	
3	QPSK	1	14	16.68	16.64	16.69	
3	QPSK	8	0	15.80	15.99	15.84	17
3	QPSK	8	4	15.72	15.79	15.76	
3	QPSK	8	7	15.76	15.70	15.85	
3	QPSK	15	0	15.73	15.79	15.77	17
3	16QAM	1	0	16.21	16.28	16.25	
3	16QAM	1	8	16.08	15.98	16.14	
3	16QAM	1	14	15.97	16.02	16.17	16
3	16QAM	8	0	14.69	14.64	14.73	
3	16QAM	8	4	14.71	14.80	14.86	
3	16QAM	8	7	14.71	14.77	14.83	16
3	16QAM	15	0	14.74	14.82	14.76	
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	16.70	16.81	16.74	
1.4	QPSK	1	3	16.57	16.69	16.76	
1.4	QPSK	1	5	16.56	16.52	16.57	
1.4	QPSK	3	0	15.68	15.87	15.72	17
1.4	QPSK	3	1	15.60	15.67	15.64	
1.4	QPSK	3	3	15.64	15.58	15.73	
1.4	QPSK	6	0	15.61	15.67	15.65	17
1.4	16QAM	1	0	16.09	16.16	16.13	
1.4	16QAM	1	3	15.96	15.86	16.02	
1.4	16QAM	1	5	15.85	15.90	16.05	17
1.4	16QAM	3	0	14.57	14.52	14.61	
1.4	16QAM	3	1	14.59	14.68	14.74	
1.4	16QAM	3	3	14.59	14.65	14.71	16
1.4	16QAM	3	3	14.62	14.70	14.64	

Band 4 (AWS Band) Part 27L (only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	22.20	22.30	22.24	23
20	QPSK	1	49	22.10	22.20	22.18	
20	QPSK	1	99	22.16	22.12	22.14	
20	QPSK	50	0	21.22	21.25	21.19	22
20	QPSK	50	24	21.15	21.18	21.13	
20	QPSK	50	50	21.10	20.99	21.16	
20	QPSK	100	0	21.17	21.24	21.13	22
20	16QAM	1	0	21.48	21.59	21.38	
20	16QAM	1	49	21.47	21.48	21.35	
20	16QAM	1	99	21.33	21.37	21.33	21
20	16QAM	50	0	20.00	20.12	20.10	
20	16QAM	50	24	20.21	20.17	20.22	
20	16QAM	50	50	20.10	20.06	20.13	21
20	16QAM	100	0	20.21	20.04	20.05	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.09	22.19	22.13	
15	QPSK	1	37	21.99	22.09	22.07	
15	QPSK	1	74	22.05	22.01	22.03	
15	QPSK	36	0	21.11	21.19	21.08	22
15	QPSK	36	20	21.04	21.07	21.02	
15	QPSK	36	39	20.99	20.88	21.05	
15	QPSK	75	0	21.06	21.13	21.02	22
15	16QAM	1	0	21.37	21.48	21.27	
15	16QAM	1	37	21.36	21.37	21.24	
15	16QAM	1	74	21.22	21.26	21.22	21
15	16QAM	36	0	19.89	20.01	19.99	
15	16QAM	36	20	20.10	20.06	20.11	
15	16QAM	36	39	19.99	19.95	20.02	21
15	16QAM	75	0	19.90	19.93	19.94	
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	21.99	22.09	22.03	
10	QPSK	1	25	21.89	21.99	21.97	
10	QPSK	1	49	21.95	21.91	21.93	
10	QPSK	25	0	21.01	21.09	20.98	22
10	QPSK	25	12	20.94	20.97	20.92	
10	QPSK	25	25	20.89	20.78	20.95	
10	QPSK	50	0	20.96	21.03	20.92	22
10	16QAM	1	0	21.27	21.38	21.17	
10	16QAM	1	25	21.26	21.27	21.14	
10	16QAM	1	49	21.12	21.16	21.12	21
10	16QAM	25	0	19.79	19.91	19.89	
10	16QAM	25	12	20.00	19.96	20.01	
10	16QAM	25	25	19.89	19.85	19.92	21
10	16QAM	50	0	20.00	19.83	19.84	
Channel				19975	20175	20375	
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	21.87	21.97	21.91	
5	QPSK	1	12	21.77	21.87	21.85	
5	QPSK	1	24	21.83	21.79	21.81	
5	QPSK	12	0	20.89	20.97	20.86	22
5	QPSK	12	7	20.82	20.85	20.80	
5	QPSK	12	13	20.77	20.66	20.83	
5	QPSK	25	0	20.84	20.91	20.80	22
5	16QAM	1	0	21.15	21.26	21.05	
5	16QAM	1	12	21.14	21.15	21.02	
5	16QAM	1	24	21.00	21.04	21.00	21
5	16QAM	12	0	19.67	19.79	19.77	
5	16QAM	12	7	19.88	19.84	19.89	
5	16QAM	12	13	19.77	19.73	19.80	21
5	16QAM	25	0	19.88	19.71	19.72	
Channel				19965	20175	20385	
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	21.77	21.87	21.81	

Band 5 (Cellular Band) 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	22.21	22.27	22.17	23
10	QPSK	1	25	21.92	22.22	22.10	
10	QPSK	1	49	22.00	22.03	21.90	
10	QPSK	25	0	21.15	21.32	21.27	22
10	QPSK	25	12	21.15	21.06	21.03	
10	QPSK	25	25	21.17	21.11	21.18	
10	QPSK	50	0	21.07	21.17	21.08	22
10	16QAM	1	0	21.62	21.63	21.52	
10	16QAM	1	25	21.62	21.34	21.31	
10	16QAM	1	49	21.34	21.40	21.45	21
10	16QAM	25	0	20.15	20.08	20.05	
10	16QAM	25	12	20.23	20.13	20.17	
10	16QAM	25	25	20.12	20.12	20.12	21
10	16QAM	50	0	20.24	20.11	20.11	
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	22.10	22.16	22.06	23
5	QPSK	1	12	21.81	22.11	21.99	
5	QPSK	1	24	21.89	21.92	21.79	
5	QPSK	12	0	21.04	21.21	21.16	22
5	QPSK	12	7	21.04	20.95	20.92	
5	QPSK	12	13	21.06	21.00	21.07	
5	QPSK	25	0	20.96	21.06	20.97	22
5	16QAM	1	0	21.51	21.52	21.41	
5	16QAM	1	12	21.51	21.23	21.20	
5	16QAM	1	24	21.23	21.29	21.34	21
5	16QAM	12	0	20.04	19.97	19.94	
5	16QAM	12	7	20.12	20.02	20.06	
5	16QAM	12	13	20.01	20.01	20.01	21
5	16QAM	25	0	20.13	20.00	20.00	
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	21.98	22.04	21.94	23
3	QPSK	1	8	21.69	21.99	21.87	
3	QPSK	1	14	21.77	21.80	21.67	
3	QPSK	8	0	20.92	21.09	21.04	22
3	QPSK	8	4	20.92	20.83	20.80	
3	QPSK	8	7	20.94	20.88	20.95	
3	QPSK	15	0	20.84	20.94	20.85	22
3	16QAM	1	0	21.39	21.40	21.29	
3	16QAM	1	8	21.39	21.11	21.08	
3	16QAM	1	14	21.11	21.17	21.22	21
3	16QAM	8	0	19.92	19.85	19.82	
3	16QAM	8	4	20.00	19.90	19.94	
3	16QAM	8	7	19.89	19.89	19.89	21
3	16QAM	15	0	20.01	19.88	19.88	
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	21.87	21.93	21.83	23
1.4	QPSK	1	3	21.58	21.88	21.76	
1.4	QPSK	1	5	21.66	21.69	21.56	
1.4	QPSK	3	0	20.81	20.98	20.93	22
1.4	QPSK	3	1	20.81	20.72	20.69	
1.4	QPSK	3	3	20.83	20.77	20.84	
1.4	QPSK	6	0	20.73	20.83	20.74	22
1.4	16QAM	1	0	21.28	21.29	21.18	
1.4	16QAM	1	3	21.28	21.00	20.97	
1.4	16QAM	1	5	21.00	21.06	21.11	22
1.4	16QAM	3	0	19.81	19.74	19.71	
1.4	16QAM	3	1	19.89	19.79	19.83	
1.4	16QAM	3	3	19.78	19.78	19.78	21
1.4	16QAM	6	0	19.90	19.77	19.77	

Band 7 (2600MHz Band) 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	20.98	21.07	20.91	21.5
20	QPSK	1	49	20.92	20.99	20.89	
20	QPSK	1	99	20.86	20.87	20.89	
20	QPSK	50	0	19.88	19.94	19.86	20.5
20	QPSK	50	24	19.88	19.82	19.72	
20	QPSK	50	50	19.81	19.87	19.80	
20	QPSK	100	0	19.84	19.90	19.79	20.5
20	16QAM	1	0	20.05	20.15	20.28	
20	16QAM	1	49	20.02	20.13	20.14	
20	16QAM	1	99	19.95	20.21	20.04	20.5
20	16QAM	50	0	18.83	18.76	18.83	
20	16QAM	50	24	18.84	18.85	18.66	
20	16QAM	50	50	18.91	18.84	18.85	19.5
20	16QAM	100	0	18.79	18.81	18.79	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	20.87	20.97	20.82	21.5
15	QPSK	1	37	20.82	20.89	20.79	
15	QPSK	1	74	20.76	20.77	20.79	
15	QPSK	36	0	19.82	19.84	19.57	20.5
15	QPSK	36	20	19.78	19.72	19.62	
15	QPSK	36	39	19.71	19.77	19.70	
15	QPSK	75	0	19.74	19.80	19.69	20.5
15	16QAM	1	0	19.95	20.05	20.18	
15	16QAM	1	37	19.92	20.03	20.04	
15	16QAM	1	74	19.85	20.11	19.94	19.5
15	16QAM	36	0	18.73	18.66	18.73	
15	16QAM	36	20	18.74	18.75	18.56	
15	16QAM	36	39	18.81	18.74	18.75	19.5
15	16QAM	75	0	18.69	18.71	18.69	
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	20.77	20.87	20.72	21.5
10	QPSK	1	25	20.72	20.79	20.69	
10	QPSK	1	49	20.66	20.67	20.69	
10	QPSK	25	0	19.52	19.74	19.47	20.5
10	QPSK	25	12	19.68	19.62	19.52	
10	QPSK	25	25	19.61	19.67	19.60	
10	QPSK	50	0	19.64	19.70	19.59	20.5
10	16QAM	1	0	19.85	19.95	20.08	
10	16QAM	1	25	19.82	19.93	19.94	
10	16QAM	1	49	19.75	20.01	19.84	20.5
10	16QAM	25	0	18.63	18.56	18.63	
10	16QAM	25	12	18.64	18.65	18.46	
10	16QAM	25	25	18.71	18.64	18.65	19.5
10	16QAM	50	0	18.59	18.61	18.59	
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	20.66	20.76	20.61	21.5
5	QPSK	1	12	20.61	20.68	20.58	
5	QPSK	1	24	20.55	20.56	20.58	
5	QPSK	12	0	19.41	19.83	19.36	20.5
5	QPSK	12	7	19.57	19.51	19.41	
5	QPSK	12	13	19.50	19.56	19.49	
5	QPSK	25	0	19.53	19.59	19.48	20.5
5	16QAM	1	0	19.74	19.84	19.97	
5	16QAM	1	12	19.71	19.82	19.83	
5	16QAM	1	24	19.64	19.90	19.73	20.5
5	16QAM	12	0	18.52	18.45	18.52	
5	16QAM	12	7	18.53	18.54	18.35	
5	16QAM	12	13	18.60	18.53	18.54	19.5
5	16QAM	25	0	18.48	18.50	18.48	

Band 12 (700MHz Low Band) 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	21.72	21.88	21.82	22.5
10	QPSK	1	25	21.52	21.82	21.70	
10	QPSK	1	49	21.60	21.63	21.50	
10	QPSK	25	0	20.80	20.91	20.83	21.5
10	QPSK	25	12	20.75	20.66	20.63	
10	QPSK	25	25	20.77	20.71	20.78	
10	QPSK	50	0	20.67	20.77	20.60	21.5
10	16QAM	1	0	21.22	21.23	21.12	
10	16QAM	1	25	21.22	20.94	20.91	
10	16QAM	1	49	20.94	21.00	21.05	20.5
10	16QAM	25	0	19.75	19.68	19.65	
10	16QAM	25	12	19.83	19.73	19.77	
10	16QAM	25	25	19.72	19.72	19.72	20.5
10	16QAM	50	0	19.84	19.71	19.71	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	21.53	21.77	21.71	22.5
5	QPSK	1	12	21.41	21.71	21.59	
5	QPSK	1	24	21.49	21.52	21.39	
5	QPSK	12	0	20.69	20.80	20.72	21.5
5	QPSK	12	7	20.64	20.55	20.52	
5	QPSK	12	13	20.66	20.60	20.67	
5	QPSK	25	0	20.56	20.66	20.49	21.5
5	16QAM	1	0	21.11	21.12	21.01	
5	16QAM	1	12	21.11	20.83	20.80	
5	16QAM	1	24	20.83	20.89	20.94	20.5
5	16QAM	12	0	19.64	19.57	19.54	
5	16QAM	12	7	19.72	19.62	19.66	
5	16QAM	12	13	19.61	19.61	19.61	20.5
5	16QAM	25	0	19.73	19.60	19.60	
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	21.42	21.66	21.60	22.5
3	QPSK	1	8	21.30	21.60	21.48	
3	QPSK	1	14	21.38	21.41	21.28	
3	QPSK	8	0	20.58	20.69	20.61	21.5
3	QPSK	8	4	20.53	20.44	20.41	
3	QPSK	8	7	20.55	20.49	20.56	
3	QPSK	15	0	20.45	20.55	20.38	21.5
3	16QAM	1	0	21.00	21.01	20.90	
3	16QAM	1	8	21.00	20.72	20.69	
3	16QAM	1	14	20.72	20.78	20.83	20.5
3	16QAM	8	0	19.53	19.46	19.43	
3	16QAM	8	4	19.61	19.51	19.55	
3	16QAM	8	7	19.50	19.50	19.50	20.5
3	16QAM	15	0	19.62	19.49	19.49	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	21.32	21.56	21.50	22.5
1.4	QPSK	1	3	21.20	21.50	21.38	
1.4	QPSK	1	5	21.28	21.31	21.18	
1.4	QPSK	3	0	20.48	20.59	20.51	
1.4	QPSK	3	1	20.43	20.34	20.31	
1.4	QPSK	3	3	20.45	20.39	20.46	
1.4	QPSK	6	0	20.35	20.45	20.28	21.5
1.4	16QAM	1	0	20.90	20.91	20.80	
1.4	16QAM	1	3	20.90	20.62	20.59	21.5
1.4	16QAM	1	5	20.62	20.68	20.73	
1.4	16QAM	3	0	19.43	19.36	19.33	
1.4	16QAM	3	1	19.51	19.41	19.45	
1.4	16QAM	3	3	19.40	19.40	19.40	
1.4	16QAM	6	0	19.52	19.39	19.39	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	

Band 17 (700MHz Band) Part 27H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23760	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	22.42	22.50	22.41	23
10	QPSK	1	25	22.37	22.38	22.29	
10	QPSK	1	49	22.31	22.42	22.38	
10	QPSK	25	0	21.46	21.57	21.57	22
10	QPSK	25	12	21.45	21.44	21.48	
10	QPSK	25	25	21.42	21.35	21.41	
10	QPSK	50	0	21.44	21.51	21.47	22
10	16QAM	1	0	21.83	21.87	21.82	
10	16QAM	1	25	21.80	21.81	21.72	
10	16QAM	1	49	21.75	21.80	21.77	21
10	16QAM	25	0	20.68	20.85	20.82	
10	16QAM	25	12	20.65	20.76	20.73	
10	16QAM	25	25	20.56	20.68	20.61	21
10	16QAM	50	0	20.58	20.61	20.56	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	22.31	22.39	22.30	23
5	QPSK	1	12	22.26	22.27	22.18	
5	QPSK	1	24	22.20	22.31	22.27	
5	QPSK	12	0	21.35	21.46	21.46	22
5	QPSK	12	7	21.34	21.33	21.37	
5	QPSK	12	13	21.31	21.24	21.30	
5	QPSK	25	0	21.33	21.40	21.36	22
5	16QAM	1	0	21.72	21.76	21.71	
5	16QAM	1	12	21.69	21.70	21.61	
5	16QAM	1	24	21.64	21.69	21.66	21
5	16QAM	12	0	20.57	20.74	20.71	
5	16QAM	12	7	20.54	20.65	20.62	
5	16QAM	12	13	20.45	20.57	20.50	21
5	16QAM	25	0	20.47	20.50	20.45	

Band 38(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				37850	38000	38150	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	21.87	21.89	21.81	22.5
20	QPSK	1	49	21.67	21.77	21.61	
20	QPSK	1	99	21.59	21.61	21.56	
20	QPSK	50	0	20.97	21.01	20.91	21.5
20	QPSK	50	24	20.76	20.69	20.82	
20	QPSK	50	50	20.72	20.83	20.70	
20	QPSK	100	0	20.75	20.69	20.58	21.5
20	16QAM	1	0	20.51	20.58	20.60	
20	16QAM	1	49	20.44	20.67	20.62	
20	16QAM	1	99	20.34	20.49	20.33	20.5
20	16QAM	50	0	19.39	19.47	19.43	
20	16QAM	50	24	19.31	19.55	19.35	
20	16QAM	50	50	19.35	19.53	19.31	20.5
20	16QAM	100	0	19.39	19.36	19.38	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	Tune-up limit (dBm)
15	QPSK	1	0	21.77	21.79	21.71	
15	QPSK	1	37	21.57	21.41	21.51	22.5
15	QPSK	1	74	21.38	21.51	21.46	
15	QPSK	36	0	20.87	20.91	20.81	
15	QPSK	36	20	20.66	20.59	20.72	21.5
15	QPSK	36	39	20.62	20.73	20.60	
15	QPSK	75	0	20.65	20.59	20.48	
15	16QAM	1	0	20.41	20.48	20.50	21.5
15	16QAM	1	37	20.34	20.57	20.52	
15	16QAM	1	74	20.24	20.39	20.23	
15	16QAM	36	0	19.29	19.37	19.33	20.5
15	16QAM	36	20	19.21	19.45	19.25	
15	16QAM	36	39	19.25	19.43	19.21	
15	16QAM	75	0	19.29	19.26	19.28	20.5
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	Tune-up limit (dBm)
10	QPSK	1	0	21.66	21.68	21.60	
10	QPSK	1	25	21.46	21.30	21.40	22.5
10	QPSK	1	49	21.27	21.40	21.35	
10	QPSK	25	0	20.76	20.80	20.70	
10	QPSK	25	12	20.55	20.48	20.61	21.5
10	QPSK	25	25	20.51	20.62	20.49	
10	QPSK	50	0	20.54	20.48	20.37	
10	16QAM	1	0	20.30	20.37	20.39	21.5
10	16QAM	1	25	20.23	20.46	20.41	
10	16QAM	1	49	20.13	20.28	20.12	
10	16QAM	25	0	19.18	19.26	19.22	20.5
10	16QAM	25	12	19.10	19.34	19.14	
10	16QAM	25	25	19.14	19.32	19.10	
10	16QAM	50	0	19.18	19.15	19.17	20.5
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	Tune-up limit (dBm)
5	QPSK	1	0	21.55	21.57	21.49	
5	QPSK	1	12	21.35	21.19	21.29	22.5
5	QPSK	1	24	21.16	21.29	21.24	
5	QPSK	12	0	20.65	20.69	20.59	
5	QPSK	12	7	20.44	20.37	20.50	21.5
5	QPSK	12	13	20.40	20.51	20.38	
5	QPSK	25	0	20.43	20.37	20.26	
5	16QAM	1	0	20.19	20.26	20.28	21.5
5	16QAM	1	12	20.12	20.35	20.30	
5	16QAM	1	24	20.02	20.17	20.01	
5	16QAM	12	0	19.07	19.15	19.11	20.5
5	16QAM	12	7	18.99	19.23	19.03	
5	16QAM	12	13	19.03	19.21	18.99	
5	16QAM	25	0	19.07	19.04	19.06	20.5

Band 40 (2.3G Band-1) Part 27D-1 2305MHz ~ 2315MHz							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				38750	38750	38750	Tune-up limit (dBm)
Frequency (MHz)				2310	2310	2310	
10	QPSK	1	0	22.19	22.19	22.19	23
10	QPSK	1	25	22.12	22.12	22.12	
10	QPSK	1	49	21.89	21.89	21.89	
10	QPSK	25	0	21.01	21.01	21.01	22
10	QPSK	25	12	20.97	20.97	20.97	
10	QPSK	25	25	20.98	20.98	20.98	
10	QPSK	50	0	20.94	20.94	20.94	22
10	16QAM	1	0	21.11	21.11	21.11	
10	16QAM	1	25	21.16	21.16	21.16	
10	16QAM	1	49	21.03	21.03	21.03	21
10	16QAM	25	0	20.04	20.04	20.04	
10	16QAM	25	12	20.06	20.06	20.06	
10	16QAM	25	25	19.96	19.96	19.96	21
10	16QAM	50	0	19.94	19.94	19.94	
Channel				38725	38750	38775	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	Tune-up limit (dBm)
5	QPSK	1	0	21.90	21.92	21.84	
5	QPSK	1	12	21.88	21.78	21.75	23
5	QPSK	1	24	21.77	21.68	21.86	
5	QPSK	12	0	20.97	20.92	20.98	
5	QPSK	12	7	21.00	21.04	20.96	22
5	QPSK	12	13	21.01	20.98	21.00	
5	QPSK	25	0	20.97	20.98	21.02	
5	16QAM	1	0	21.20	21.17	21.16	22
5	16QAM	1	12	21.14	21.03	21.14	
5	16QAM	1	24	21.15	21.20	21.22	
5	16QAM	12	0	20.07	19.91	20.05	21
5	16QAM	12	7	20.09	20.01	20.18	
5	16QAM	12	13	19.99	20.12	20.12	
5	16QAM	25	0	19.97	20.16	20.05	21

Band 40 (2.3G Band-2) Part 27D-2 2350MHz ~ 2360MHz							
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				39200			
Frequency (MHz)				2355			
10	QPSK	1	0	22.16			23
10	QPSK	1	25	22.08			
10	QPSK	1	49	21.92			
10	QPSK	25	0	21.15			22
10	QPSK	25	12	20.92			
10	QPSK	25	25	21.03			
10	QPSK	50	0	21.88			22
10	16QAM	1	0	21.21			
10	16QAM	1	25	21.06			
10	16QAM	1	49	21.15			21
10	16QAM	25	0	20.04			
10	16QAM	25	12	20.06			
10	16QAM	25	25	19.96			21
10	16QAM	50	0	19.94			
Channel				39175	39200	39225	
Frequency (MHz)				2352.5	2355	2357.5	
5	QPSK	1	0	22.14	22.15	22.05	23
5	QPSK	1	12	22.08	22.07	22.00	
5	QPSK	1	24	21.96	22.01	22.10	
5	QPSK	12	0	21.07	21.12	21.12	22
5	QPSK	12	7	21.13	21.10	21.09	
5	QPSK	12	13	21.12	21.06	21.16	
5	QPSK	25	0	21.03	21.10	21.08	22
5	16QAM	1	0	21.25	21.19	21.17	
5	16QAM	1	12	21.08	21.20	21.13	
5	16QAM	1	24	21.32	21.30	21.33	21
5	16QAM	12	0	20.11	20.12	20.12	
5	16QAM	12	7	20.28	20.17	20.19	
5	16QAM	12	13	20.20	20.19	20.12	21
5	16QAM	25	0	20.09	20.05	20.10	

Band 41 (2496~2690MHz)									
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)
Channel				39750					
Frequency (MHz)				2506					
20	QPSK	1	0	22.37	22.31	22.30	22.32	22.39	23.5
20	QPSK	1	49	22.17	22.27	22.11	22.27	22.11	
20	QPSK	1	99	22.09	22.10	22.11	22.06	22.06	
20	QPSK	50	0	21.87	21.89	21.91	21.89	21.95	22.5
20	QPSK	50	24	21.76	21.69	21.82	21.69	21.82	
20	QPSK	50	50	21.72	21.83	21.70	21.83	21.70	
20	QPSK	100	0	21.75	21.69	21.58	21.69	21.58	22.5
20	16QAM	1	0	21.01	21.08	21.10	21.08	21.10	
20	16QAM	1	49	20.94	21.17	21.12	21.17	21.12	
20	16QAM	1	99	20.84	20.99	20.83	20.99	20.83	21.5
20	16QAM	50	0	19.89	19.97	19.93	19.97	19.93	
20	16QAM	50	24	19.81	20.05	19.85	20.05	19.85	
20	16QAM	50	50	19.85	20.03	19.81	20.03	19.81	21.5
20	16QAM	100	0	19.89	19.86	19.88	19.86	19.88	
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.26	22.20	22.19	22.21	22.28	23.5
15	QPSK	1	37	22.06	22.16	22.00	22.16	22.00	
15	QPSK	1	74	21.98	22.00	21.95	22.00	21.95	
15	QPSK	36	0	21.86	21.78	21.80	21.89	21.90	22.5
15	QPSK	36	20	21.65	21.58	21.71	21.58	21.71	
15	QPSK	36	39	21.61	21.72	21.59	21.72	21.59	
15	QPSK	75	0	21.47	21.58	21.47	21.58	21.64	22.5
15	16QAM	1	0	20.90	20.97	20.99	20.97	20.99	
15	16QAM	1	37	20.83	21.06	21.01	21.06	21.01	
15	16QAM	1	74	20.73	20.88	20.72	20.88	20.72	21.5
15	16QAM	36	0	19.78	19.86	19.82	19.86	19.82	
15	16QAM	36	20	19.70	19.94	19.74	19.94	19.74	
15	16QAM	36	39	19.74	19.92	19.70	19.92	19.70	21.5
15	16QAM	75	0	19.78	19.75	19.77	19.75	19.77	
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.14	22.08	22.07	22.09	22.16	23.5
10	QPSK	1	25	21.94	22.04	21.88	22.04	21.88	
10	QPSK	1	49	21.86	21.88	21.83	21.88	21.83	
10	QPSK	25	0	21.74	21.66	21.68	21.77	21.78	22.5
10	QPSK	25	12	21.53	21.46	21.59	21.46	21.59	
10	QPSK	25	25	21.49	21.60	21.47	21.60	21.47	
10	QPSK	50	0	21.35	21.46	21.35	21.46	21.52	22.5
10	16QAM	1	0	20.78	20.85	20.87	20.85	20.87	
10	16QAM	1	25	20.71	20.94	20.89	20.94	20.89	
10	16QAM	1	49	20.61	20.76	20.60	20.76	20.60	21.5
10	16QAM	25	0	19.66	19.74	19.70	19.74	19.70	
10	16QAM	25	12	19.58	19.82	19.62	19.82	19.62	
10	16QAM	25	25	19.62	19.80	19.58	19.80	19.58	21.5
10	16QAM	50	0	19.66	19.63	19.65	19.63	19.65	
Channel				39675	40148	40620	41093	41565	
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	22.05	21.99	21.98	22.00	22.07	23.5
5	QPSK	1	12	21.85	21.95	21.79	21.95	21.79	
5	QPSK	1	24	21.77	21.79	21.74	21.79	21.74	
5	QPSK	12	0	21.65	21.57	21.59	21.68	21.69	22.5
5	QPSK	12	7	21.44	21.37	21.50	21.37	21.50	
5	QPSK	12	13	21.40	21.51	21.38	21.51	21.38	
5	QPSK	25	0	21.26	21.37	21.26	21.37	21.43	22.5
5	16QAM	1	0	20.69	20.76	20.78	20.76	20.78	
5	16QAM	1	12	20.62	20.85	20.80	20.85	20.80	
5	16QAM	1	24	20.52	20.67	20.51	20.67	20.51	21.5
5	16QAM	12	0	19.57	19.65	19.61	19.65	19.61	
5	16QAM	12	7	19.49	19.73	19.53	19.73	19.53	
5	16QAM	12	13	19.53	19.71	19.49	19.71	19.49	21.5
5	16QAM	25	0	19.57	19.54	19.56	19.54	19.56	

2.4GHz WLAN

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	CH 1	2412	21.27	22.00	Default	100.00
		CH 6	2437	20.50	21.00	Default	
		CH 11	2462	21.22	22.00	Default	
	802.11g 6Mbps	CH 1	2412	18.96	19.50	Default	96.52
		CH 6	2437	18.33	19.00	Default	
		CH 11	2462	19.24	20.00	Default	
	802.11n-HT20 MCS0	CH 1	2412	18.87	19.50	Default	96.65
		CH 6	2437	18.24	19.00	Default	
		CH 11	2462	19.21	20.00	Default	

5.2GHz WLAN

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	CH 36	5180	15.56	16.00	Default	96.86
		CH 44	5220	14.38	15.00	Default	
		CH 48	5240	13.48	14.00	Default	
	802.11n-HT20 MCS0	CH 36	5180	16.73	17.50	Default	96.64
		CH 44	5220	15.20	16.00	Default	
		CH 48	5240	15.13	16.00	Default	
	802.11n-HT40 MCS0	CH 38	5190	14.49	15.00	Default	86.11
		CH 46	5230	13.23	14.00	Default	
	802.11ac-VHT20 MCS0	CH 36	5180	16.06	17.00	Default	96.68
		CH 44	5220	14.55	15.00	Default	
		CH 48	5240	14.86	15.00	Default	
	802.11ac-VHT40 MCS0	CH 38	5190	14.65	15.00	Default	87.14
		CH 46	5230	13.16	14.00	Default	
	802.11ac-VHT80 MCS0	CH 42	5210	13.96	14.50	Default	87.80

5.3GHz WLAN

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	CH 52	5260	12.87	13.50	Default	96.86
		CH 60	5300	12.38	13.00	Default	
		CH 64	5320	12.12	13.00	Default	
	802.11n-HT20 MCS0	CH 52	5260	13.96	14.50	Default	96.64
		CH 60	5300	13.26	14.00	Default	
		CH 64	5320	13.41	14.00	Default	
	802.11n-HT40 MCS0	CH 54	5270	12.15	13.00	Default	86.11
		CH 62	5310	11.57	13.00	Default	
	802.11ac-VHT20 MCS0	CH 52	5260	14.65	15.00	Default	96.68
		CH 60	5300	13.57	14.00	Default	
		CH 64	5320	13.11	14.00	Default	
	802.11ac-VHT40 MCS0	CH 54	5270	12.20	13.00	Default	87.14
		CH 62	5310	11.62	12.00	Default	
	802.11ac-VHT80 MCS0	CH 58	5290	11.63	12.00	Default	87.80

5.5GHz WLAN

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	CH 100	5500	11.60	12.00	Default	96.86
		CH 120	5600	13.57	14.00	Default	
		CH 144	5720	16.89	17.50	Default	
	802.11n-HT20 MCS0	CH 100	5500	12.77	13.00	Default	96.64
		CH 120	5600	14.94	15.50	Default	
		CH 144	5720	18.28	19.00	Default	
	802.11n-HT40 MCS0	CH 102	5510	11.30	12.00	Default	86.11
		CH 126	5630	14.26	15.00	Default	
		CH 142	5710	16.51	17.00	Default	

	802.11ac-VHT20 MCS0	CH 100	5500	13.01	14.00	Default	96.68
		CH 120	5600	15.16	16.00	Default	
		CH 144	5720	18.43	19.00	Default	
	802.11ac-VHT40 MCS0	CH 102	5510	11.30	12.00	Default	87.14
		CH 126	5630	14.37	15.00	Default	
		CH 142	5710	16.61	17.00	Default	
	802.11ac-VHT80 MCS0	CH 106	5530	11.29	13.00	Default	87.80
		CH 122	5610	13.07	14.00	Default	
		CH 138	5690	15.58	16.00	Default	

5.8GHz WLAN

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.8GHz WLAN	802.11a MCS0	CH 149	5745	17.18	18.00	Default	96.86
		CH 157	5785	16.63	17.50	Default	
		CH 165	5825	16.07	17.00	Default	
	802.11n-HT20 MCS0	CH 149	5745	18.49	19.00	Default	96.64
		CH 157	5785	17.81	18.50	Default	
		CH 165	5825	17.57	18.00	Default	
	802.11n-HT40 MCS0	CH 151	5755	16.65	17.50	Default	86.11
		CH 159	5795	15.94	16.50	Default	
	802.11ac-VHT20 MCS0	CH 149	5745	18.46	19.00	Default	96.68
		CH 157	5785	17.60	18.00	Default	
		CH 165	5825	17.36	18.00	Default	
	802.11ac-VHT40 MCS0	CH 151	5755	16.62	17.50	Default	87.14
		CH 159	5795	16.08	17.00	Default	
	802.11ac-VHT80 MCS0	CH 155	5775	15.69	16.00	Default	87.80

Bluetooth

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	7.72	3.84	3.99
	CH 39	2441	6.93	3.60	3.54
	CH 78	2480	7.29	3.96	3.90
Tune-up Limit			8.50	4.50	4.50
Duty Cycle %			76.60	76.80	76.80

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
LE	CH 00	2402	-6.57	-8.96	N/A
	CH 19	2440	-6.03	-8.63	N/A
	CH 39	2480	-6.92	-9.69	N/A
Tune-up Limit			-6.00	-8.00	N/A
Duty Cycle %			60.80	31.20	N/A

Mode	Frequency (MHz)	Average power (dBm)
RFID	902.75	21.07
	914.75	21.71
	927.25	21.57
Tune-up Limit		22.50