



REPORT No.: SZ24050296S01

Annex E Conducted Power

Note:

Conducted power unit: dBm

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

Full Power

GSM850	Burst Average Power (dBm)			Tune-up	Frame-Average Power (dBm)			Tune-up	Ch Delta > 0.5
TX Channel	128	189	251	Limit (dBm)	128	189	251	Limit (dBm)	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		
GSM 1 Tx slot	33.12	33.15	33.14	34.00	24.12	24.15	24.14	25.00	
GPRS 1 Tx slot	33.15	33.18	33.16	34.00	24.15	24.18	24.16	25.00	0.06
GPRS 2 Tx slots	32.20	32.24	32.22	33.00	26.20	26.24	26.22	27.00	0.04
GPRS 3 Tx slots	30.27	30.33	30.31	31.00	26.01	26.07	26.05	26.74	0.06
GPRS 4 Tx slots	29.22	29.25	29.23	30.00	26.22	26.25	26.23	27.00	0.03
EDGE 1 Tx slot	27.44	27.63	27.52	28.50	18.44	18.63	18.52	19.50	0.19
EDGE 2 Tx slots	26.62	26.70	26.65	27.50	20.62	20.70	20.65	21.50	0.08
EDGE 3 Tx slots	24.43	24.50	24.48	25.50	20.17	20.24	20.22	21.24	0.07
EDGE 4 Tx slots	23.05	23.15	23.07	24.00	20.05	20.15	20.07	21.00	0.10
Mode		Max.	33.18		Max.	26.25			
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
TX Channel		512	661	810		512	661	810		
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot		30.18	30.40	30.42	31.30	21.18	21.40	21.42	22.30	
GPRS 1 Tx slot		30.20	30.42	30.45	31.30	21.20	21.42	21.45	22.30	0.27
GPRS 2 Tx slots		28.20	28.45	28.50	29.30	22.20	22.45	22.50	23.30	0.30
GPRS 3 Tx slots		26.19	26.47	26.53	27.30	21.93	22.21	22.27	23.04	0.34
GPRS 4 Tx slots		25.27	25.52	25.56	26.30	22.27	22.52	22.56	23.30	0.29
EDGE 1 Tx slot		25.94	26.15	26.13	27.00	16.94	17.15	17.13	18.00	0.21
EDGE 2 Tx slots		24.88	25.01	24.96	26.00	16.88	19.01	18.96	20.00	0.13
EDGE 3 Tx slots		22.82	23.02	22.94	24.00	16.56	18.76	18.68	19.74	0.20
EDGE 4 Tx slots		21.75	21.96	21.85	22.00	18.75	18.96	18.85	19.00	0.21
Mode			Max.	30.45			Max.	22.56		
Attenuator					Cable Loss : 0.8					

Band	WCDA Band I (dbm)				Tune-up Limit (dbm)	WCDA Band IV (dbm)				Tune-up Limit (dbm)	WCDA Band V (dbm)				Tune-up Limit (dbm)
	TX Channel		RX Channel			TX Channel		RX Channel			TX Channel		RX Channel		
	9262	9400	9538			1312	1413	1513			4132	4182	4233		
	9662	9800	9938			1537	1638	1758			4367	4407	4458		
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752		826.4	836.4	846.4				
3GPP Rel 99	RMC 12.2Kbps	22.88	22.96	22.92	24.00	22.96	22.83	22.77	24.00	23.27	23.21	23.17	24.00		
3GPP Rel 5	HSDPA_Subtest-1	21.85	21.90	21.98	23.00	21.87	21.66	21.53	22.50	22.57	22.49	22.55	23.00		
3GPP Rel 5	HSDPA_Subtest-2	21.89	21.89	21.98	23.00	21.84	21.65	21.50	22.50	22.55	22.48	22.51	23.50		
3GPP Rel 5	HSDPA_Subtest-3	21.40	21.41	21.51	22.50	21.38	21.22	21.02	22.00	22.06	22.03	22.01	23.50		
3GPP Rel 5	HSDPA_Subtest-4	21.39	21.39	21.49	22.50	21.36	21.20	21.01	22.00	22.05	22.01	22.00	23.00		
3GPP Rel 8	DC-HSDPA_Subtest-1	21.84	21.89	22.06	23.00	21.92	21.61	21.55	22.50	22.59	22.50	22.53	23.50		
3GPP Rel 8	DC-HSDPA_Subtest-2	21.89	21.89	21.97	23.00	21.69	21.71	21.49	22.50	22.67	22.52	22.54	23.50		
3GPP Rel 8	DC-HSDPA_Subtest-3	21.40	21.40	21.56	22.50	21.30	21.25	21.02	22.00	22.10	22.02	22.05	23.50		
3GPP Rel 8	DC-HSDPA_Subtest-4	21.35	21.35	21.50	22.50	21.29	21.13	21.03	22.00	22.01	22.00	22.10	23.00		
3GPP Rel 6	HSRPA_Subtest-1	21.40	21.40	21.50	22.50	21.42	21.24	21.02	21.50	22.03	22.01	22.11	23.50		
3GPP Rel 6	HSRPA_Subtest-2	21.97	22.01	21.99	23.00	21.89	21.63	21.50	22.50	22.52	22.52	22.51	23.50		
3GPP Rel 6	HSRPA_Subtest-3	20.92	20.96	21.00	22.00	20.95	20.69	20.58	21.50	21.50	21.50	21.57	22.50		
3GPP Rel 6	HSRPA_Subtest-4	21.90	21.91	22.06	23.00	21.98	21.77	21.55	23.00	22.54	22.55	22.57	23.50		
3GPP Rel 6	HSRPA_Subtest-5	20.94	20.98	21.06	22.00	20.84	20.65	20.59	21.50	21.58	21.45	21.53	22.50		
3GPP Rel 7	HSPA+ (14QAM) Subtest-1	20.90	20.90	21.04	22.00	20.92	20.65	20.53	21.50	21.59	21.55	21.51	22.50		
Attenuator		Cable Loss 0.8				Cable Loss 0.8				Cable Loss 0.6					
Mode		Max. 22.96				Max. 22.96				Max. 23.27					

Band 2 (1900MHz Band) (dBm)							
Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	22.92	23.07	22.95	
20	QPSK	1	49	23.26	23.31	23.23	24
20	QPSK	1	99	22.94	23.00	22.93	
20	QPSK	50	0	22.14	22.21	22.20	
20	QPSK	50	24	22.27	22.30	22.21	23
20	QPSK	50	50	22.19	22.27	22.22	
20	QPSK	100	0	22.20	22.24	22.18	
20	16QAM	1	0	22.25	22.33	22.25	23
20	16QAM	1	49	22.50	22.52	22.46	
20	16QAM	1	99	22.21	22.30	22.22	
20	16QAM	50	0	21.17	21.23	21.20	22
20	16QAM	50	24	21.18	21.28	21.20	
20	16QAM	50	50	21.17	21.25	21.21	
20	16QAM	100	0	21.17	21.24	21.17	22
20	64QAM	1	0	21.35	21.38	21.28	
20	64QAM	1	49	21.21	21.24	21.15	
20	64QAM	1	99	21.12	21.22	21.14	21
20	64QAM	50	0	20.24	20.25	20.21	
20	64QAM	50	24	20.21	20.29	20.22	
20	64QAM	50	50	20.24	20.27	20.26	20
20	64QAM	100	0	20.20	20.24	20.22	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	22.84	23.00	22.85	
15	QPSK	1	37	23.16	23.22	23.13	24
15	QPSK	1	74	22.85	22.98	22.88	
15	QPSK	36	0	22.13	22.14	22.14	
15	QPSK	36	20	22.17	22.25	22.15	23
15	QPSK	36	39	22.13	22.26	22.21	
15	QPSK	75	0	22.15	22.23	22.15	
15	16QAM	1	0	22.18	22.23	22.19	23
15	16QAM	1	37	22.44	22.50	22.44	
15	16QAM	1	74	22.14	22.29	22.15	
15	16QAM	36	0	21.07	21.19	21.13	22
15	16QAM	36	20	21.16	21.26	21.10	
15	16QAM	36	39	21.15	21.18	21.18	
15	16QAM	75	0	21.09	21.22	21.15	21
15	64QAM	1	0	21.33	21.32	21.20	
15	64QAM	1	37	21.18	21.19	21.06	
15	64QAM	1	74	21.10	21.16	21.10	20
15	64QAM	36	0	20.15	20.23	20.11	
15	64QAM	36	20	20.18	20.24	20.13	
15	64QAM	36	39	20.17	20.25	20.24	19
15	64QAM	75	0	20.15	20.19	20.20	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	22.89	22.97	22.92	
10	QPSK	1	25	23.18	23.28	23.15	24
10	QPSK	1	49	22.90	22.93	22.92	
10	QPSK	25	0	22.07	22.13	22.19	
10	QPSK	25	12	22.17	22.20	22.12	23
10	QPSK	25	25	22.18	22.19	22.14	
10	QPSK	50	0	22.10	22.15	22.09	
10	16QAM	1	0	22.22	22.29	22.17	23
10	16QAM	1	25	22.42	22.49	22.40	
10	16QAM	1	49	22.16	22.27	22.12	
10	16QAM	25	0	21.14	21.19	21.14	22
10	16QAM	25	12	21.15	21.23	21.13	
10	16QAM	25	25	21.07	21.24	21.19	
10	16QAM	50	0	21.14	21.18	21.14	22
10	64QAM	1	0	21.27	21.33	21.27	
10	64QAM	1	25	21.20	21.16	21.12	
10	64QAM	1	49	21.10	21.14	21.11	21
10	64QAM	25	0	20.19	20.24	20.20	
10	64QAM	25	12	20.11	20.22	20.20	
10	64QAM	25	25	20.15	20.21	20.23	20
10	64QAM	50	0	20.14	20.16	20.16	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	22.91	23.00	22.94	
5	QPSK	1	12	23.25	23.29	23.17	24
5	QPSK	1	24	22.85	22.95	22.91	
5	QPSK	12	0	22.08	22.11	22.15	
5	QPSK	12	7	22.17	22.26	22.20	23
5	QPSK	12	13	22.14	22.24	22.15	
5	QPSK	25	0	22.13	22.18	22.11	
5	16QAM	1	0	22.17	22.30	22.18	23
5	16QAM	1	12	22.42	22.45	22.39	
5	16QAM	1	24	22.11	22.23	22.13	
5	16QAM	12	0	21.08	21.19	21.16	22
5	16QAM	12	7	21.15	21.20	21.10	
5	16QAM	12	13	21.13	21.17	21.19	
5	16QAM	25	0	21.11	21.22	21.12	22
5	64QAM	1	0	21.32	21.33	21.22	
5	64QAM	1	12	21.18	21.19	21.05	
5	64QAM	1	24	21.05	21.12	21.06	21
5	64QAM	12	0	20.23	20.16	20.11	
5	64QAM	12	7	20.15	20.24	20.14	
5	64QAM	12	13	20.22	20.23	20.16	20
5	64QAM	25	0	20.18	20.23	20.12	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	22.91	22.99	22.94	
3	QPSK	1	8	23.17	23.27	23.18	24
3	QPSK	1	14	22.86	22.96	22.90	
3	QPSK	8	0	22.08	22.19	22.10	
3	QPSK	8	4	22.22	22.29	22.11	23
3	QPSK	8	7	22.16	22.24	22.19	

Band 4 (AWS Band) (dBm)							
Part 27L (only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel			20050	20175	20300		
Frequency (MHz)			1720	1732.5	1745		
20	QPSK	1	0	22.87	22.80	22.74	24
20	QPSK	1	49	23.03	22.94	23.01	
20	QPSK	1	99	22.75	22.67	22.71	
20	QPSK	50	0	21.99	21.97	21.98	23
20	QPSK	50	24	22.05	22.02	21.95	
20	QPSK	50	50	21.91	21.90	21.89	
20	QPSK	100	0	21.97	21.87	21.93	23
20	16QAM	1	0	22.22	22.21	22.18	
20	16QAM	1	49	22.38	22.36	22.33	
20	16QAM	1	99	22.05	21.96	22.00	22
20	16QAM	50	0	21.03	20.96	21.00	
20	16QAM	50	24	21.05	21.03	20.97	
20	16QAM	50	50	20.98	20.88	20.90	22
20	16QAM	100	0	21.00	20.92	20.99	
20	64QAM	1	0	21.00	20.90	20.96	
20	64QAM	1	49	21.24	21.19	21.22	22
20	64QAM	1	99	20.92	20.85	20.90	
20	64QAM	50	0	20.05	19.95	20.04	
20	64QAM	50	24	20.03	19.99	19.98	21
20	64QAM	50	50	19.98	19.93	19.89	
20	64QAM	100	0	20.01	19.96	19.93	
Channel			20025	20175	20325	Tune-up limit (dBm)	
Frequency (MHz)			1717.5	1732.5	1747.5		
15	QPSK	1	0	22.77	22.77		22.71
15	QPSK	1	37	22.97	22.84	22.92	24
15	QPSK	1	74	22.73	22.64	22.61	
15	QPSK	36	0	21.93	21.96	21.91	
15	QPSK	36	20	22.01	22.01	21.89	23
15	QPSK	36	39	21.83	21.82	21.84	
15	QPSK	75	0	21.92	21.85	21.90	
15	16QAM	1	0	22.12	22.18	22.13	23
15	16QAM	1	37	22.34	22.26	22.31	
15	16QAM	1	74	22.02	21.89	21.98	
15	16QAM	36	0	21.00	20.94	20.91	22
15	16QAM	36	20	20.96	21.00	20.94	
15	16QAM	36	39	20.88	20.83	20.88	
15	16QAM	75	0	20.94	20.85	20.89	21
15	64QAM	1	0	20.99	20.82	20.90	
15	64QAM	1	37	21.15	21.11	21.12	
15	64QAM	1	74	20.83	20.77	20.86	22
15	64QAM	36	0	19.97	19.90	19.94	
15	64QAM	36	20	20.00	19.96	19.97	
15	64QAM	36	39	19.95	19.83	19.83	21
15	64QAM	75	0	19.98	19.88	19.88	
Channel			20000	20175	20350	Tune-up limit (dBm)	
Frequency (MHz)			1715	1732.5	1750		
10	QPSK	1	0	22.84	22.74		22.64
10	QPSK	1	25	22.98	22.90	22.93	24
10	QPSK	1	49	22.65	22.66	22.68	
10	QPSK	25	0	21.92	21.94	21.97	
10	QPSK	25	12	21.99	21.97	21.93	23
10	QPSK	25	25	21.84	21.88	21.83	
10	QPSK	50	0	21.96	21.80	21.91	
10	16QAM	1	0	22.18	22.16	22.16	23
10	16QAM	1	25	22.28	22.30	22.26	
10	16QAM	1	49	22.04	21.94	21.96	
10	16QAM	25	0	20.99	20.88	20.98	22
10	16QAM	25	12	21.01	20.99	20.87	
10	16QAM	25	25	20.89	20.80	20.86	
10	16QAM	50	0	20.99	20.87	20.98	22
10	64QAM	1	0	20.90	20.83	20.90	
10	64QAM	1	25	21.15	21.14	21.15	
10	64QAM	1	49	20.84	20.82	20.81	21
10	64QAM	25	0	20.00	19.91	19.96	
10	64QAM	25	12	20.02	19.93	19.97	
10	64QAM	25	25	19.97	19.89	19.85	21
10	64QAM	50	0	19.94	19.88	19.84	
Channel			19975	20175	20375	Tune-up limit (dBm)	
Frequency (MHz)			1712.5	1732.5	1752.5		
5	QPSK	1	0	22.78	22.73		22.73
5	QPSK	1	12	23.00	22.84	22.99	24
5	QPSK	1	24	22.73	22.60	22.66	
5	QPSK	12	0	21.94	21.91	21.96	
5	QPSK	12	7	22.03	21.92	21.94	23
5	QPSK	12	13	21.83	21.85	21.85	
5	QPSK	25	0	21.87	21.84	21.84	
5	16QAM	1	0	22.13	22.18	22.16	23
5	16QAM	1	12	22.34	22.33	22.31	
5	16QAM	1	24	21.96	21.87	21.95	
5	16QAM	12	0	20.96	20.95	20.98	22
5	16QAM	12	7	20.96	21.00	20.93	
5	16QAM	12	13	20.90	20.86	20.89	
5	16QAM	25	0	20.95	20.88	20.91	22
5	64QAM	1	0	20.95	20.82	20.93	
5	64QAM	1	12	21.22	21.10	21.15	
5	64QAM	1	24	20.88	20.83	20.88	21
5	64QAM	12	0	19.95	19.85	19.99	
5	64QAM	12	7	20.00	19.94	19.89	
5	64QAM	12	13	19.88	19.85	19.82	21
5	64QAM	25	0	19.96	19.89	19.84	
Channel			19965	20175	20385	Tune-up limit (dBm)	
Frequency (MHz)			1711.5	1732.5	1753.5		
3	QPSK	1	0	22.84	22.76		22.64
3	QPSK	1	8	23.02	22.85	22.98	24
3	QPSK	1	14	22.68	22.59	22.66	
3	QPSK	8	0	21.98	21.88	21.95	
3	QPSK	8	4	21.97	22.00	21.89	23
3	QPSK	8	7	21.84	21.85	21.88	



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3	QPSK	15	0	22.14	22.22	22.08	23
3	16QAM	1	0	22.23	22.25	22.20	
3	16QAM	1	8	22.46	22.50	22.39	
3	16QAM	1	14	22.15	22.29	22.18	22
3	16QAM	8	0	21.13	21.16	21.18	
3	16QAM	8	4	21.13	21.24	21.10	
3	16QAM	8	7	21.16	21.17	21.20	22
3	16QAM	15	0	21.16	21.17	21.08	
3	64QAM	1	0	21.29	21.29	21.25	
3	64QAM	1	8	21.16	21.19	21.10	22
3	64QAM	1	14	21.06	21.18	21.07	
3	64QAM	8	0	20.21	20.17	20.16	
3	64QAM	8	4	20.13	20.26	20.13	21
3	64QAM	8	7	20.20	20.20	20.18	
3	64QAM	15	0	20.10	20.22	20.19	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	22.84	22.99	22.89	24
1.4	QPSK	1	3	23.20	23.30	23.19	
1.4	QPSK	1	5	22.84	22.93	22.83	
1.4	QPSK	3	0	22.94	23.03	23.07	
1.4	QPSK	3	1	23.11	23.16	23.03	
1.4	QPSK	3	3	23.05	23.08	23.07	
1.4	QPSK	6	0	22.11	22.14	22.11	23
1.4	16QAM	1	0	22.21	22.23	22.22	23
1.4	16QAM	1	3	22.48	22.51	22.43	
1.4	16QAM	1	5	22.19	22.25	22.21	
1.4	16QAM	3	0	22.00	22.03	22.04	
1.4	16QAM	3	1	22.03	22.09	22.07	
1.4	16QAM	3	3	21.97	22.07	22.01	
1.4	16QAM	6	0	21.13	21.20	21.12	22
1.4	64QAM	1	0	21.30	21.31	21.25	22
1.4	64QAM	1	3	21.18	21.18	21.08	
1.4	64QAM	1	5	21.03	21.19	21.09	
1.4	64QAM	3	0	21.11	21.06	21.05	
1.4	64QAM	3	1	21.04	21.13	21.02	
1.4	64QAM	3	3	21.08	21.08	21.07	
1.4	64QAM	6	0	20.10	20.23	20.14	21

3	QPSK	15	0	21.95	21.77	21.92	23
3	16QAM	1	0	22.14	22.20	22.16	
3	16QAM	1	8	22.31	22.33	22.27	
3	16QAM	1	14	22.04	21.94	21.92	22
3	16QAM	8	0	20.93	20.92	20.98	
3	16QAM	8	4	21.01	20.94	20.88	
3	16QAM	8	7	20.97	20.85	20.84	22
3	16QAM	15	0	20.92	20.86	20.92	
3	64QAM	1	0	20.96	20.83	20.88	
3	64QAM	1	8	21.23	21.14	21.15	21
3	64QAM	1	14	20.85	20.77	20.85	
3	64QAM	8	0	19.97	19.92	20.01	
3	64QAM	8	4	19.99	19.89	19.92	21
3	64QAM	8	7	19.97	19.86	19.82	
3	64QAM	15	0	19.95	19.89	19.90	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.83	22.77	22.64	24
1.4	QPSK	1	3	22.96	22.88	22.91	
1.4	QPSK	1	5	22.67	22.59	22.61	
1.4	QPSK	3	0	22.78	22.78	22.82	
1.4	QPSK	3	1	22.87	22.87	22.74	
1.4	QPSK	3	3	22.73	22.74	22.67	
1.4	QPSK	6	0	21.93	21.83	21.85	23
1.4	16QAM	1	0	22.16	22.18	22.09	23
1.4	16QAM	1	3	22.32	22.33	22.28	
1.4	16QAM	1	5	21.96	21.90	21.93	
1.4	16QAM	3	0	21.85	21.80	21.79	
1.4	16QAM	3	1	21.84	21.86	21.83	
1.4	16QAM	3	3	21.80	21.74	21.68	
1.4	16QAM	6	0	20.92	20.88	20.96	22
1.4	64QAM	1	0	20.90	20.88	20.94	22
1.4	64QAM	1	3	21.21	21.09	21.16	
1.4	64QAM	1	5	20.82	20.75	20.83	
1.4	64QAM	3	0	20.87	20.82	20.84	
1.4	64QAM	3	1	20.85	20.82	20.80	
1.4	64QAM	3	3	20.83	20.75	20.69	
1.4	64QAM	6	0	20.00	19.93	19.83	21

Band 5 (Celluar Band) (dBm) Part 22H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	24
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.28	23.29	23.25	24
10	QPSK	1	25	23.26	23.33	23.28	
10	QPSK	1	49	23.14	23.18	23.17	
10	QPSK	25	0	22.27	22.28	22.21	23
10	QPSK	25	12	22.28	22.34	22.25	
10	QPSK	25	25	22.24	22.28	22.25	
10	QPSK	50	0	22.24	22.33	22.32	23
10	16QAM	1	0	22.51	22.55	22.46	
10	16QAM	1	25	22.42	22.52	22.44	
10	16QAM	1	49	22.35	22.43	22.36	22
10	16QAM	25	0	21.37	21.43	21.35	
10	16QAM	25	12	21.40	21.41	21.33	
10	16QAM	25	25	21.35	21.39	21.33	22
10	16QAM	50	0	21.32	21.40	21.39	
10	64QAM	1	0	21.47	21.55	21.48	
10	64QAM	1	25	21.46	21.52	21.51	22
10	64QAM	1	49	21.45	21.47	21.46	
10	64QAM	25	0	20.36	20.39	20.37	
10	64QAM	25	12	20.32	20.38	20.29	21
10	64QAM	25	25	20.30	20.36	20.34	
10	64QAM	50	0	20.33	20.35	20.28	
Channel				20425	20525	20625	24
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	23.19	23.19	23.23	24
5	QPSK	1	12	23.17	23.29	23.20	
5	QPSK	1	24	23.07	23.14	23.10	
5	QPSK	12	0	22.26	22.18	22.11	23
5	QPSK	12	7	22.22	22.24	22.16	
5	QPSK	12	13	22.18	22.20	22.16	
5	QPSK	25	0	22.22	22.28	22.31	23
5	16QAM	1	0	22.43	22.49	22.38	
5	16QAM	1	12	22.35	22.48	22.36	
5	16QAM	1	24	22.30	22.34	22.26	22
5	16QAM	12	0	21.33	21.36	21.30	
5	16QAM	12	7	21.33	21.36	21.28	
5	16QAM	12	13	21.27	21.32	21.23	22
5	16QAM	25	0	21.22	21.31	21.29	
5	64QAM	1	0	21.46	21.54	21.43	
5	64QAM	1	12	21.42	21.51	21.41	22
5	64QAM	1	24	21.38	21.39	21.44	
5	64QAM	12	0	20.27	20.37	20.30	
5	64QAM	12	7	20.26	20.37	20.27	21
5	64QAM	12	13	20.20	20.26	20.32	
5	64QAM	25	0	20.32	20.28	20.24	
Channel				20415	20525	20635	24
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	23.23	23.25	23.21	24
3	QPSK	1	8	23.24	23.30	23.23	
3	QPSK	1	14	23.12	23.17	23.10	
3	QPSK	8	0	22.23	22.26	22.20	23
3	QPSK	8	4	22.25	22.25	22.24	
3	QPSK	8	7	22.22	22.21	22.15	
3	QPSK	15	0	22.20	22.30	22.28	23
3	16QAM	1	0	22.50	22.46	22.39	
3	16QAM	1	8	22.34	22.43	22.41	
3	16QAM	1	14	22.25	22.36	22.26	22
3	16QAM	8	0	21.33	21.41	21.28	
3	16QAM	8	4	21.37	21.33	21.24	
3	16QAM	8	7	21.31	21.37	21.28	22
3	16QAM	15	0	21.28	21.33	21.35	
3	64QAM	1	0	21.39	21.48	21.42	
3	64QAM	1	8	21.41	21.47	21.44	22
3	64QAM	1	14	21.38	21.46	21.38	
3	64QAM	8	0	20.35	20.29	20.30	
3	64QAM	8	4	20.30	20.34	20.28	21
3	64QAM	8	7	20.23	20.30	20.32	
3	64QAM	15	0	20.27	20.27	20.19	
Channel				20407	20525	20643	24
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	23.23	23.27	23.24	24
1.4	QPSK	1	3	23.18	23.32	23.22	
1.4	QPSK	1	5	23.09	23.11	23.10	
1.4	QPSK	3	0	22.22	22.18	22.17	23
1.4	QPSK	3	1	22.27	22.26	22.18	
1.4	QPSK	3	3	22.15	22.22	22.19	
1.4	QPSK	6	0	22.22	22.28	22.25	23
1.4	16QAM	1	0	22.44	22.53	22.41	
1.4	16QAM	1	3	22.36	22.47	22.39	
1.4	16QAM	1	5	22.32	22.37	22.26	23
1.4	16QAM	3	0	21.27	21.37	21.29	
1.4	16QAM	3	1	21.38	21.35	21.26	
1.4	16QAM	3	3	21.27	21.31	21.29	22
1.4	16QAM	6	0	21.24	21.30	21.34	
1.4	64QAM	1	0	21.45	21.50	21.45	
1.4	64QAM	1	3	21.42	21.42	21.49	22
1.4	64QAM	1	5	21.39	21.43	21.45	
1.4	64QAM	3	0	20.29	20.31	20.32	
1.4	64QAM	3	1	20.28	20.32	20.23	21
1.4	64QAM	3	3	20.26	20.26	20.29	
1.4	64QAM	6	0	20.28	20.29	20.25	

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	22.84	22.89	22.90	24
20	QPSK	1	49	23.29	23.25	23.32	
20	QPSK	1	99	23.04	23.07	23.15	
20	QPSK	50	0	22.22	22.19	22.24	
20	QPSK	50	24	22.35	22.26	22.36	
20	QPSK	50	50	22.31	22.21	22.30	
20	QPSK	100	0	22.28	22.31	22.33	
20	16QAM	1	0	22.13	22.17	22.22	
20	16QAM	1	49	22.45	22.33	22.43	
20	16QAM	1	99	22.37	22.35	22.40	23
20	16QAM	50	0	21.18	21.16	21.21	
20	16QAM	50	24	21.28	21.21	21.30	
20	16QAM	50	50	21.24	21.21	21.31	
20	16QAM	100	0	21.22	21.14	21.24	
20	64QAM	1	0	21.10	21.06	21.15	
20	64QAM	1	49	21.33	21.30	21.35	22
20	64QAM	1	99	21.20	21.21	21.28	
20	64QAM	50	0	20.15	20.12	20.21	
20	64QAM	50	24	20.28	20.25	20.31	
20	64QAM	50	50	20.25	20.33	20.34	
20	64QAM	100	0	20.23	20.19	20.23	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	22.78	22.83	22.84	24
15	QPSK	1	37	23.15	23.20	23.27	
15	QPSK	1	74	22.98	23.05	23.14	
15	QPSK	36	0	22.21	22.14	22.19	
15	QPSK	36	20	22.34	22.17	22.33	
15	QPSK	36	39	22.28	22.18	22.21	
15	QPSK	75	0	22.25	22.24	22.29	23
15	16QAM	1	0	22.11	22.11	22.14	
15	16QAM	1	37	22.35	22.26	22.40	
15	16QAM	1	74	22.33	22.32	22.35	
15	16QAM	36	0	21.08	21.15	21.19	
15	16QAM	36	20	21.22	21.12	21.27	
15	16QAM	36	39	21.21	21.13	21.22	22
15	16QAM	75	0	21.18	21.12	21.19	
15	64QAM	1	0	21.00	21.04	21.14	
15	64QAM	1	37	21.27	21.28	21.27	22
15	64QAM	1	74	21.19	21.19	21.19	
15	64QAM	36	0	20.10	20.05	20.16	
15	64QAM	36	20	20.19	20.23	20.28	21
15	64QAM	36	39	20.15	20.26	20.31	
15	64QAM	75	0	20.16	20.12	20.19	
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	22.82	22.84	22.82	24
10	QPSK	1	25	23.15	23.21	23.25	
10	QPSK	1	49	22.94	22.99	23.06	
10	QPSK	25	0	22.19	22.10	22.19	
10	QPSK	25	12	22.32	22.19	22.34	
10	QPSK	25	25	22.23	22.11	22.27	
10	QPSK	50	0	22.19	22.27	22.24	23
10	16QAM	1	0	22.10	22.16	22.15	
10	16QAM	1	25	22.44	22.24	22.41	
10	16QAM	1	49	22.27	22.26	22.35	
10	16QAM	25	0	21.08	21.11	21.14	
10	16QAM	25	12	21.20	21.14	21.22	
10	16QAM	25	25	21.19	21.18	21.24	22
10	16QAM	50	0	21.18	21.09	21.21	
10	64QAM	1	0	21.05	20.96	21.14	
10	64QAM	1	25	21.25	21.27	21.30	
10	64QAM	1	49	21.10	21.12	21.25	
10	64QAM	25	0	20.05	20.02	20.11	
10	64QAM	25	12	20.24	20.18	20.23	21
10	64QAM	25	25	20.16	20.32	20.26	
10	64QAM	50	0	20.16	20.16	20.16	
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	22.76	22.87	22.89	24
5	QPSK	1	12	23.20	23.17	23.22	
5	QPSK	1	24	22.96	22.99	23.14	
5	QPSK	12	0	22.18	22.12	22.23	
5	QPSK	12	7	22.28	22.22	22.28	
5	QPSK	12	13	22.25	22.16	22.25	
5	QPSK	25	0	22.20	22.23	22.23	23
5	16QAM	1	0	22.10	22.09	22.13	
5	16QAM	1	12	22.40	22.24	22.37	
5	16QAM	1	24	22.28	22.30	22.38	
5	16QAM	12	0	21.12	21.06	21.19	
5	16QAM	12	7	21.18	21.13	21.20	
5	16QAM	12	13	21.14	21.12	21.26	22
5	16QAM	25	0	21.14	21.05	21.21	
5	64QAM	1	0	21.09	20.97	21.09	
5	64QAM	1	12	21.24	21.24	21.29	22
5	64QAM	1	24	21.16	21.14	21.25	
5	64QAM	12	0	20.08	20.07	20.13	
5	64QAM	12	7	20.22	20.15	20.22	21
5	64QAM	12	13	20.19	20.28	20.32	
5	64QAM	25	0	20.14	20.16	20.21	

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				23090	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	23.14	23.16	23.12	24
10	QPSK	1	25	23.26	23.30	23.23	
10	QPSK	1	49	23.13	23.22	23.14	
10	QPSK	25	0	22.23	22.27	22.17	23
10	QPSK	25	12	22.31	22.37	22.29	
10	QPSK	25	25	22.30	22.35	22.33	
10	QPSK	50	0	22.31	22.33	22.30	23
10	16QAM	1	0	22.48	22.50	22.40	
10	16QAM	1	25	22.52	22.60	22.52	
10	16QAM	1	49	22.52	22.53	22.44	22
10	16QAM	25	0	21.17	21.27	21.18	
10	16QAM	25	12	21.27	21.37	21.27	
10	16QAM	25	25	21.34	21.35	21.31	22
10	16QAM	50	0	21.26	21.36	21.32	
10	64QAM	1	0	21.33	21.35	21.26	
10	64QAM	1	25	21.42	21.52	21.45	22
10	64QAM	1	49	21.43	21.45	21.38	
10	64QAM	25	0	20.25	20.26	20.16	
10	64QAM	25	12	20.33	20.37	20.27	21
10	64QAM	25	25	20.30	20.33	20.29	
10	64QAM	50	0	20.30	20.32	20.30	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	23.12	23.11	23.05	24
5	QPSK	1	12	23.25	23.28	23.18	
5	QPSK	1	24	23.10	23.13	23.05	
5	QPSK	12	0	22.13	22.24	22.12	23
5	QPSK	12	7	22.29	22.29	22.22	
5	QPSK	12	13	22.26	22.27	22.24	
5	QPSK	25	0	22.26	22.30	22.26	23
5	16QAM	1	0	22.47	22.42	22.37	
5	16QAM	1	12	22.48	22.57	22.47	
5	16QAM	1	24	22.47	22.44	22.41	22
5	16QAM	12	0	21.13	21.19	21.16	
5	16QAM	12	7	21.23	21.27	21.25	
5	16QAM	12	13	21.29	21.27	21.21	22
5	16QAM	25	0	21.23	21.34	21.31	
5	64QAM	1	0	21.31	21.30	21.20	
5	64QAM	1	12	21.41	21.50	21.38	22
5	64QAM	1	24	21.36	21.43	21.33	
5	64QAM	12	0	20.17	20.19	20.11	
5	64QAM	12	7	20.27	20.29	20.22	21
5	64QAM	12	13	20.26	20.32	20.26	
5	64QAM	25	0	20.29	20.31	20.26	
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	23.09	23.11	23.02	24
3	QPSK	1	8	23.21	23.28	23.13	
3	QPSK	1	14	23.09	23.20	23.08	
3	QPSK	8	0	22.19	22.23	22.15	23
3	QPSK	8	4	22.25	22.33	22.26	
3	QPSK	8	7	22.21	22.26	22.29	
3	QPSK	15	0	22.21	22.28	22.26	23
3	16QAM	1	0	22.47	22.47	22.36	
3	16QAM	1	8	22.45	22.54	22.51	
3	16QAM	1	14	22.42	22.51	22.43	22
3	16QAM	8	0	21.08	21.17	21.12	
3	16QAM	8	4	21.17	21.33	21.17	
3	16QAM	8	7	21.25	21.26	21.28	22
3	16QAM	15	0	21.22	21.30	21.24	
3	64QAM	1	0	21.28	21.25	21.22	
3	64QAM	1	8	21.35	21.50	21.38	22
3	64QAM	1	14	21.41	21.44	21.35	
3	64QAM	8	0	20.20	20.23	20.10	
3	64QAM	8	4	20.25	20.34	20.22	21
3	64QAM	8	7	20.27	20.29	20.25	
3	64QAM	15	0	20.26	20.26	20.25	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	23.09	23.08	23.03	24
1.4	QPSK	1	3	23.16	23.28	23.13	
1.4	QPSK	1	5	23.03	23.14	23.05	
1.4	QPSK	3	0	22.15	22.23	22.14	23
1.4	QPSK	3	1	22.23	22.32	22.19	
1.4	QPSK	3	3	22.27	22.28	22.23	
1.4	QPSK	6	0	22.30	22.29	22.24	23
1.4	16QAM	1	0	22.47	22.43	22.36	
1.4	16QAM	1	3	22.49	22.50	22.46	
1.4	16QAM	1	5	22.45	22.48	22.37	23
1.4	16QAM	3	0	21.10	21.24	21.15	
1.4	16QAM	3	1	21.26	21.27	21.23	
1.4	16QAM	3	3	21.32	21.29	21.29	22
1.4	16QAM	6	0	21.18	21.27	21.23	
1.4	64QAM	1	0	21.23	21.34	21.18	
1.4	64QAM	1	3	21.39	21.48	21.38	22
1.4	64QAM	1	5	21.38	21.41	21.30	
1.4	64QAM	3	0	20.23	20.19	20.09	
1.4	64QAM	3	1	20.29	20.35	20.25	21
1.4	64QAM	3	3	20.26	20.31	20.25	
1.4	64QAM	6	0	20.28	20.29	20.20	

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		23.25		24
10	QPSK	1	25		23.38		
10	QPSK	1	49		23.24		
10	QPSK	25	0		22.24		23
10	QPSK	25	12		22.38		
10	QPSK	25	25		22.35		
10	QPSK	50	0		22.33		23
10	16QAM	1	0		22.51		
10	16QAM	1	25		22.61		
10	16QAM	1	49		22.50		22
10	16QAM	25	0		21.43		
10	16QAM	25	12		21.44		
10	16QAM	25	25		21.40		22
10	16QAM	50	0		21.42		
10	64QAM	1	0		21.56		
10	64QAM	1	25		21.62		22
10	64QAM	1	49		21.50		
10	64QAM	25	0		20.43		
10	64QAM	25	12		20.40		21
10	64QAM	25	25		20.44		
10	64QAM	50	0		20.43		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	23.15	23.17	23.21	24
5	QPSK	1	12	23.33	23.37	23.28	
5	QPSK	1	24	23.19	23.16	23.16	
5	QPSK	12	0	22.19	22.19	22.15	23
5	QPSK	12	7	22.34	22.29	22.34	
5	QPSK	12	13	22.27	22.29	22.25	
5	QPSK	25	0	22.26	22.26	22.23	23
5	16QAM	1	0	22.43	22.47	22.42	
5	16QAM	1	12	22.55	22.59	22.51	
5	16QAM	1	24	22.44	22.45	22.49	22
5	16QAM	12	0	21.39	21.34	21.36	
5	16QAM	12	7	21.36	21.38	21.39	
5	16QAM	12	13	21.39	21.39	21.35	22
5	16QAM	25	0	21.38	21.38	21.41	
5	64QAM	1	0	21.50	21.52	21.48	
5	64QAM	1	12	21.57	21.53	21.56	22
5	64QAM	1	24	21.48	21.47	21.40	
5	64QAM	12	0	20.38	20.40	20.38	
5	64QAM	12	7	20.31	20.38	20.36	21
5	64QAM	12	13	20.38	20.43	20.34	
5	64QAM	25	0	20.33	20.37	20.39	

Band 17 (700MHz Band) (dBm) Part 27H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	23.06	23.09	23.05	24
10	QPSK	1	25	23.19	23.27	23.18	
10	QPSK	1	49	23.16	23.17	23.12	
10	QPSK	25	0	22.24	22.29	22.19	23
10	QPSK	25	12	22.30	22.35	22.32	
10	QPSK	25	25	22.27	22.33	22.29	
10	QPSK	50	0	22.29	22.31	22.27	23
10	16QAM	1	0	22.27	22.32	22.30	
10	16QAM	1	25	22.37	22.39	22.35	
10	16QAM	1	49	22.18	22.28	22.27	22
10	16QAM	25	0	21.24	21.26	21.17	
10	16QAM	25	12	21.30	21.34	21.30	
10	16QAM	25	25	21.28	21.30	21.23	22
10	16QAM	50	0	21.21	21.29	21.21	
10	64QAM	1	0	21.22	21.28	21.26	
10	64QAM	1	25	21.32	21.39	21.36	22
10	64QAM	1	49	21.30	21.34	21.25	
10	64QAM	25	0	20.15	20.25	20.16	
10	64QAM	25	12	20.25	20.32	20.24	21
10	64QAM	25	25	20.25	20.30	20.28	
10	64QAM	50	0	20.26	20.27	20.22	
Channel				23755	23790	23825	
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	23.00	23.04	23.01	24
5	QPSK	1	12	23.13	23.18	23.13	
5	QPSK	1	24	23.09	23.16	23.04	
5	QPSK	12	0	22.17	22.27	22.13	23
5	QPSK	12	7	22.25	22.32	22.26	
5	QPSK	12	13	22.17	22.27	22.28	
5	QPSK	25	0	22.22	22.30	22.21	23
5	16QAM	1	0	22.17	22.27	22.26	
5	16QAM	1	12	22.31	22.34	22.29	
5	16QAM	1	24	22.11	22.23	22.20	22
5	16QAM	12	0	21.15	21.16	21.16	
5	16QAM	12	7	21.20	21.30	21.20	
5	16QAM	12	13	21.22	21.21	21.19	22
5	16QAM	25	0	21.12	21.23	21.13	
5	64QAM	1	0	21.18	21.23	21.22	
5	64QAM	1	12	21.26	21.36	21.33	22
5	64QAM	1	24	21.24	21.33	21.24	
5	64QAM	12	0	20.07	20.16	20.10	
5	64QAM	12	7	20.19	20.24	20.23	21
5	64QAM	12	13	20.17	20.28	20.25	
5	64QAM	25	0	20.19	20.25	20.13	

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	22.95	22.82	22.83	24
20	QPSK	1	49	23.07	22.98	23.03	
20	QPSK	1	99	22.79	22.71	22.74	
20	QPSK	50	0	22.02	21.93	22.01	23
20	QPSK	50	24	22.05	22.01	22.04	
20	QPSK	50	50	21.98	21.89	21.93	
20	QPSK	100	0	22.01	22.00	21.93	23
20	16QAM	1	0	22.20	22.12	22.19	
20	16QAM	1	49	22.27	22.21	22.25	
20	16QAM	1	99	22.02	21.93	22.01	22
20	16QAM	50	0	21.04	21.01	21.01	
20	16QAM	50	24	21.08	21.03	21.02	
20	16QAM	50	50	21.05	21.04	21.03	22
20	16QAM	100	0	21.02	20.98	20.96	
20	64QAM	1	0	21.15	21.08	21.07	
20	64QAM	1	49	21.24	21.21	21.18	22
20	64QAM	1	99	20.97	20.93	20.92	
20	64QAM	50	0	20.03	19.99	20.00	
20	64QAM	50	24	20.05	19.99	20.01	21
20	64QAM	50	50	20.02	19.95	19.99	
20	64QAM	100	0	20.01	19.99	20.00	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.93	22.79	22.76	24
15	QPSK	1	37	23.04	22.97	22.98	
15	QPSK	1	74	22.74	22.67	22.66	
15	QPSK	36	0	21.94	21.83	22.00	23
15	QPSK	36	20	22.00	21.93	21.99	
15	QPSK	36	39	21.95	21.79	21.84	
15	QPSK	75	0	21.96	21.96	21.85	23
15	16QAM	1	0	22.12	22.02	22.10	
15	16QAM	1	37	22.21	22.16	22.18	
15	16QAM	1	74	21.98	21.91	22.00	22
15	16QAM	36	0	21.00	20.98	20.91	
15	16QAM	36	20	21.02	21.02	20.96	
15	16QAM	36	39	21.02	20.94	21.01	22
15	16QAM	75	0	20.92	20.96	20.92	
15	64QAM	1	0	21.13	21.03	21.03	
15	64QAM	1	37	21.15	21.14	21.08	22
15	64QAM	1	74	20.87	20.85	20.84	
15	64QAM	36	0	19.98	19.96	19.94	
15	64QAM	36	20	20.03	19.99	19.97	21
15	64QAM	36	39	19.95	19.89	19.93	
15	64QAM	75	0	19.99	19.91	19.96	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.86	22.81	22.80	24
10	QPSK	1	25	23.03	22.95	23.01	
10	QPSK	1	49	22.70	22.64	22.71	
10	QPSK	25	0	21.93	21.90	21.93	23
10	QPSK	25	12	21.95	21.99	21.99	
10	QPSK	25	25	21.96	21.85	21.85	
10	QPSK	50	0	21.99	21.94	21.91	23
10	16QAM	1	0	22.10	22.06	22.16	
10	16QAM	1	25	22.18	22.14	22.18	
10	16QAM	1	49	21.97	21.91	22.00	22
10	16QAM	25	0	20.95	20.94	20.97	
10	16QAM	25	12	21.06	20.95	20.92	
10	16QAM	25	25	20.97	20.97	20.99	22
10	16QAM	50	0	20.95	20.88	20.89	
10	64QAM	1	0	21.06	21.03	21.01	
10	64QAM	1	25	21.19	21.13	21.11	21
10	64QAM	1	49	20.92	20.90	20.82	
10	64QAM	25	0	20.02	19.97	19.95	
10	64QAM	25	12	20.00	19.96	19.91	21
10	64QAM	25	25	19.95	19.88	19.90	
10	64QAM	50	0	19.93	19.97	19.98	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.89	22.73	22.82	24
5	QPSK	1	12	23.01	22.96	22.97	
5	QPSK	1	24	22.76	22.65	22.66	
5	QPSK	12	0	21.96	21.86	21.99	23
5	QPSK	12	7	22.00	21.95	21.94	
5	QPSK	12	13	21.90	21.87	21.83	
5	QPSK	25	0	21.98	21.90	21.89	23
5	16QAM	1	0	22.10	22.02	22.12	
5	16QAM	1	12	22.18	22.17	22.17	
5	16QAM	1	24	21.99	21.83	21.99	22
5	16QAM	12	0	20.97	20.98	20.92	
5	16QAM	12	7	21.05	20.98	20.99	
5	16QAM	12	13	20.96	20.98	21.00	22
5	16QAM	25	0	20.99	20.92	20.87	
5	64QAM	1	0	21.13	21.02	20.97	
5	64QAM	1	12	21.23	21.20	21.11	22
5	64QAM	1	24	20.91	20.89	20.85	
5	64QAM	12	0	19.97	19.93	19.91	
5	64QAM	12	7	20.00	19.96	19.96	21
5	64QAM	12	13	19.97	19.86	19.97	
5	64QAM	25	0	19.92	19.95	19.91	
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.94	22.80	22.73	24
3	QPSK	1	8	23.01	22.92	22.99	
3	QPSK	1	14	22.75	22.64	22.65	
3	QPSK	8	0	21.93	21.92	21.98	23
3	QPSK	8	4	21.95	21.94	21.98	
3	QPSK	8	7	21.93	21.86	21.84	



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3	QPSK	15	0	21.99	21.96	21.88	23
3	16QAM	1	0	22.10	22.05	22.11	
3	16QAM	1	8	22.24	22.17	22.19	
3	16QAM	1	14	21.94	21.86	21.93	22
3	16QAM	8	0	20.98	21.00	20.99	
3	16QAM	8	4	21.05	20.95	20.99	
3	16QAM	8	7	20.99	20.99	20.96	
3	16QAM	15	0	20.97	20.89	20.93	
3	64QAM	1	0	21.13	20.98	21.04	22
3	64QAM	1	8	21.23	21.11	21.14	
3	64QAM	1	14	20.94	20.89	20.88	
3	64QAM	8	0	20.00	19.97	19.91	21
3	64QAM	8	4	19.98	19.93	20.00	
3	64QAM	8	7	20.01	19.88	19.93	
3	64QAM	15	0	19.95	19.90	19.91	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.94	22.73	22.82	24
1.4	QPSK	1	3	22.98	22.89	22.94	
1.4	QPSK	1	5	22.76	22.64	22.71	
1.4	QPSK	3	0	22.89	22.76	22.83	
1.4	QPSK	3	1	22.87	22.91	22.85	
1.4	QPSK	3	3	22.82	22.69	22.74	
1.4	QPSK	6	0	21.97	21.97	21.84	23
1.4	16QAM	1	0	22.11	22.05	22.16	23
1.4	16QAM	1	3	22.25	22.13	22.22	
1.4	16QAM	1	5	22.01	21.86	21.99	
1.4	16QAM	3	0	21.89	21.87	21.84	
1.4	16QAM	3	1	21.94	21.84	21.91	
1.4	16QAM	3	3	21.93	21.85	21.85	22
1.4	16QAM	6	0	20.93	20.94	20.87	
1.4	64QAM	1	0	21.08	21.01	21.06	22
1.4	64QAM	1	3	21.20	21.15	21.09	
1.4	64QAM	1	5	20.91	20.91	20.85	
1.4	64QAM	3	0	20.85	20.81	20.83	
1.4	64QAM	3	1	20.91	20.79	20.82	
1.4	64QAM	3	3	20.85	20.78	20.83	
1.4	64QAM	6	0	19.94	19.92	19.91	21

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	22.89	22.93	22.91	
20	QPSK	1	49	23.12	23.16	23.14	24
20	QPSK	1	99	22.93	22.96	22.94	
20	QPSK	50	0	22.00	22.01	21.97	
20	QPSK	50	24	22.08	22.13	22.07	23
20	QPSK	50	50	22.05	22.10	22.06	
20	QPSK	100	0	21.99	22.09	22.08	
20	16QAM	1	0	22.19	22.25	22.15	23
20	16QAM	1	49	22.42	22.44	22.38	
20	16QAM	1	99	22.18	22.23	22.16	
20	16QAM	50	0	20.99	21.01	20.93	22
20	16QAM	50	24	21.01	21.11	21.09	
20	16QAM	50	50	21.06	21.10	21.00	
20	16QAM	100	0	20.97	21.07	21.03	22
20	64QAM	1	0	20.96	20.99	20.89	
20	64QAM	1	49	21.20	21.28	21.19	
20	64QAM	1	99	21.11	21.14	21.08	21
20	64QAM	50	0	19.93	20.02	19.97	
20	64QAM	50	24	20.10	20.13	20.06	
20	64QAM	50	50	20.08	20.10	20.02	
20	64QAM	100	0	20.01	20.08	20.06	
Channel				133197	133297	133397	
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	22.87	22.90	22.83	
15	QPSK	1	37	23.10	23.07	23.12	24
15	QPSK	1	74	22.84	22.95	22.89	
15	QPSK	36	0	21.92	22.00	21.90	
15	QPSK	36	20	21.98	22.08	21.99	23
15	QPSK	36	39	22.01	22.06	22.04	
15	QPSK	75	0	21.96	22.06	22.01	
15	16QAM	1	0	22.12	22.16	22.13	23
15	16QAM	1	37	22.41	22.43	22.36	
15	16QAM	1	74	22.16	22.18	22.13	
15	16QAM	36	0	20.92	20.92	20.83	22
15	16QAM	36	20	20.96	21.04	21.08	
15	16QAM	36	39	21.05	21.08	20.92	
15	16QAM	75	0	20.88	20.97	21.01	22
15	64QAM	1	0	20.90	20.97	20.80	
15	64QAM	1	37	21.18	21.18	21.12	
15	64QAM	1	74	21.02	21.10	20.98	21
15	64QAM	36	0	19.86	20.01	19.90	
15	64QAM	36	20	20.02	20.10	20.04	
15	64QAM	36	39	20.04	20.09	19.95	
15	64QAM	75	0	19.92	20.03	19.98	
Channel				133172	133272	133422	
Frequency (MHz)				668	678	693	
10	QPSK	1	0	22.86	22.84	22.83	
10	QPSK	1	25	23.06	23.07	23.13	24
10	QPSK	1	49	22.86	22.92	22.85	
10	QPSK	25	0	21.95	21.91	21.89	
10	QPSK	25	12	21.99	22.12	21.95	23
10	QPSK	25	25	22.00	22.10	22.00	
10	QPSK	50	0	21.98	22.00	22.03	
10	16QAM	1	0	22.10	22.21	22.08	23
10	16QAM	1	25	22.41	22.38	22.28	
10	16QAM	1	49	22.13	22.14	22.14	
10	16QAM	25	0	20.90	20.94	20.90	22
10	16QAM	25	12	20.91	21.06	21.03	
10	16QAM	25	25	21.02	21.00	20.91	
10	16QAM	50	0	20.89	20.97	21.00	22
10	64QAM	1	0	20.94	20.96	20.79	
10	64QAM	1	25	21.19	21.25	21.16	
10	64QAM	1	49	21.03	21.10	21.00	21
10	64QAM	25	0	19.92	19.98	19.92	
10	64QAM	25	12	20.03	20.06	19.98	
10	64QAM	25	25	20.02	20.06	20.00	
10	64QAM	50	0	20.00	19.98	19.99	
Channel				133147	133247	133447	
Frequency (MHz)				665.5	675.5	695.5	
5	QPSK	1	0	22.84	22.86	22.85	
5	QPSK	1	12	23.11	23.12	23.04	24
5	QPSK	1	24	22.87	22.91	22.90	
5	QPSK	12	0	21.94	21.97	21.92	23
5	QPSK	12	7	22.03	22.12	22.00	
5	QPSK	12	13	22.04	22.13	22.04	
5	QPSK	25	0	21.96	22.02	22.00	23
5	16QAM	1	0	22.13	22.15	22.13	
5	16QAM	1	12	22.36	22.38	22.37	
5	16QAM	1	24	22.15	22.20	22.08	22
5	16QAM	12	0	20.98	20.92	20.86	
5	16QAM	12	7	20.98	21.06	20.99	
5	16QAM	12	13	20.97	21.09	20.91	22
5	16QAM	25	0	20.91	20.97	20.96	
5	64QAM	1	0	20.91	20.93	20.83	
5	64QAM	1	12	21.17	21.26	21.09	21
5	64QAM	1	24	21.01	21.07	21.04	
5	64QAM	12	0	19.83	20.00	19.87	
5	64QAM	12	7	20.03	20.05	20.05	
5	64QAM	12	13	20.00	20.01	19.94	
5	64QAM	25	0	19.99	19.99	19.98	



CA_7C											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
20850	20850	21048	QPSK	1	0	0	0	1	0	22.73	23.5
21100	21001	21199	QPSK	1	0	0	0	1	0	22.66	23.5
21350	21152	21350	QPSK	1	0	0	0	1	0	22.85	23.5
20850	20850	21048	16QAM	1	0	0	0	1	0	22.24	23
21100	21001	21199	16QAM	1	0	0	0	1	0	22.29	23
21350	21152	21350	16QAM	1	0	0	0	1	0	22.37	23
20850	20850	21048	64QAM	1	0	0	0	1	0	21.72	22.5
21100	21001	21199	64QAM	1	0	0	0	1	0	21.7	22.5
21350	21152	21350	64QAM	1	0	0	0	1	0	21.81	22.5
20850	20850	21048	QPSK	50	0	0	0	1	0	22.26	23
21100	21001	21199	QPSK	50	0	0	0	1	0	22.33	23
21350	21152	21350	QPSK	50	0	0	0	1	0	22.38	23



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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)	CA TX (dBm)	Rel.8 TX (dBm)
Intra-band	CA_7A-7A	7	20	20850	2510	QPSK/1#0	7	20	21350	2560	22.85	23.32
	CA_7C	7	20	21001	2525.1	QPSK/1#0	7	20	21199	2544.9	22.79	23.32
	CA_66A-66A	66	20	132072	1720	QPSK/1#0	66	20	132572	1770	22.43	23.07



2.4GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
2.4GHz WLAN ANT 1	802.11b 1Mbps	CH 1	2412	16.95	18.00	19.50	99.57
		CH 7	2442	17.16	18.00	19.50	
		CH 13	2472	17.00	18.00	19.50	
	802.11g 6Mbps	CH 1	2412	14.96	16.00	17.50	96.94
		CH 7	2442	14.96	16.00	17.50	
		CH 13	2472	14.55	15.50	17.50	
	802.11n-HT20 MCS0	CH 1	2412	14.72	15.50	17.50	96.73
		CH 7	2442	14.81	16.00	17.50	
		CH 13	2472	14.48	15.50	17.50	
	802.11n-HT40 MCS0	CH 3	2422	14.05	15.00	16.50	93.64
		CH 7	2442	14.26	15.00	16.50	
		CH 13	2462	14.08	15.00	16.50	
	802.11ac-VHT20 MCS0	CH 1	2412	14.72	15.50	17.50	96.76
		CH 7	2442	14.80	16.00	17.50	
		CH 13	2472	14.48	15.50	17.50	
	802.11ac-VHT40 MCS0	CH 3	2422	14.07	15.00	16.50	93.70
		CH 7	2442	14.22	15.00	16.50	
		CH 13	2462	14.14	15.00	16.50	

5GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5GHz WLAN ANT 1	802.11a 6Mbps	CH 36	5180	14.52	15.50	16.00	97.22
		CH 44	5220	14.67	15.50	16.00	
		CH 48	5240	14.50	15.50	16.00	
	802.11n-HT20 MCS0	CH 36	5180	14.38	15.50	16.00	97.01
		CH 44	5220	14.39	15.50	16.00	
		CH 48	5240	14.25	15.00	16.00	
	802.11n-HT40 MCS0	CH 38	5190	14.43	15.50	16.00	92.86
		CH 46	5230	14.30	15.00	16.00	
		CH 36	5180	14.35	15.00	16.00	
	802.11ac-VHT20 MCS0	CH 44	5220	14.47	15.50	16.00	97.04
		CH 48	5240	14.37	15.50	16.00	
		CH 38	5190	14.39	15.50	16.00	
	802.11ac-VHT40 MCS0	CH 46	5230	14.28	15.00	16.00	94.20
		CH 42	5210	14.37	15.50	16.00	

5GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5GHz WLAN ANT 1	802.11a 6Mbps	CH 52	5260	14.07	15.00	16.00	97.22
		CH 60	5300	14.32	15.00	16.00	
		CH 64	5320	13.99	15.00	16.00	
	802.11n-HT20 MCS0	CH 52	5260	14.44	15.50	16.00	97.01
		CH 60	5300	14.13	15.00	16.00	
		CH 64	5320	13.82	14.50	16.00	
	802.11n-HT40 MCS0	CH 54	5270	14.14	15.00	16.00	92.86
		CH 62	5310	13.94	15.00	16.00	
		CH 52	5260	14.42	15.50	16.00	
	802.11ac-VHT20 MCS0	CH 60	5300	14.15	15.00	16.00	97.06
		CH 64	5320	13.79	14.50	16.00	
		CH 54	5270	14.13	15.00	16.00	
	802.11ac-VHT40 MCS0	CH 62	5310	14.01	15.00	16.00	92.86
		CH 58	5290	14.02	15.00	16.00	

5GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5GHz WLAN ANT 1	802.11a 6Mbps	CH 100	5500	14.02	15.00	16.00	97.20
		CH 120	5600	15.05	16.00	16.00	
		CH 144	5720	14.43	15.50	16.00	
	802.11n-HT20 MCS0	CH 100	5500	14.64	15.50	16.00	97.01
		CH 120	5600	14.81	15.50	16.00	
		CH 144	5720	14.30	15.00	16.00	
	802.11n-HT40 MCS0	CH 102	5510	14.38	15.00	16.00	94.20
		CH 126	5630	14.78	15.50	16.00	
		CH 142	5710	14.17	15.00	16.00	
	802.11ac-VHT20 MCS0	CH 100	5500	14.63	15.50	16.00	97.04
		CH 120	5600	14.70	15.50	16.00	
		CH 144	5720	14.26	15.00	16.00	
	802.11ac-VHT40 MCS0	CH 102	5510	14.43	15.50	16.00	94.29
		CH 126	5630	14.75	15.50	16.00	
		CH 142	5710	14.37	15.00	Default	
	802.11ac-VHT80 MCS0	CH 106	5630	14.69	15.50	Default	89.19
		CH 122	5610	14.75	15.50	Default	
		CH 138	5690	14.59	15.50	Default	

5GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5GHz WLAN ANT 1	802.11a 6Mbps	CH 149	5745	13.71	14.50	16.00	97.22
		CH 157	5785	13.94	15.00	16.00	
		CH 165	5825	13.99	15.00	16.00	
	802.11n-HT20 MCS0	CH 149	5745	14.19	15.00	16.00	97.01
		CH 157	5785	13.84	14.50	16.00	
		CH 165	5825	13.75	14.50	16.00	
	802.11n-HT40 MCS0	CH 151	5755	14.41	15.50	16.00	94.20
		CH 159	5795	14.01	15.00	16.00	
		CH 149	5745	14.21	15.00	16.00	
	802.11ac-VHT20 MCS0	CH 157	5785	13.82	14.50	16.00	97.04
		CH 165	5825	13.91	14.50	16.00	
		CH 151	5755	14.46	15.50	16.00	
	802.11ac-VHT40 MCS0	CH 159	5795	14.03	15.00	16.00	94.29
		CH 155	5775	14.04	15.00	16.00	

Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		5Mbps	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit
BR / EDR	CH 00	2402	9.83	11.00	6.50	7.50	6.43	7.50
	CH 39	2441	9.26	10.00	6.37	7.50	6.33	7.50
	CH 79	2480	9.83	11.00	6.69	7.50	6.87	7.50
Duty Cycle %			76.91		76.69		77.01	

Mode	Channel	Frequency (MHz)	1Mbps		2Mbps	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit
LE	CH 00	2402	-5.09	-4.00	-7.80	-5.50
	CH 19	2440	-4.05	-3.00	-6.77	-5.50
	CH 39	2480	-5.01	-4.00	-7.57	-5.50
Tune-up Limit			81.9		32.26	



Reduced Power Level 1						
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)	
	512	661	810		512	661
Tx Channel	1850.2	1860	1869.8	1850.2	1860	1869.8
Frequency (MHz)	1850.2	1860	1869.8	1850.2	1860	1869.8
GSM 1 Tx slot	27.18	27.40	27.42	28.30	18.18	18.40
GPRS 1 Tx slot	27.20	27.42	27.45	28.30	18.20	18.42
GPRS 2 Tx slots	25.20	25.45	25.50	26.30	19.20	19.45
GPRS 3 Tx slots	23.19	23.47	23.53	24.30	18.93	19.21
GPRS 4 Tx slots	22.27	22.52	22.56	23.30	19.27	19.52
EDGE 1 Tx slot	22.94	23.15	23.13	24.00	13.94	14.15
EDGE 2 Tx slots	21.88	22.01	21.96	23.00	15.88	16.01
EDGE 3 Tx slots	19.82	20.02	19.94	21.00	15.56	15.76
EDGE 4 Tx slots	18.75	18.96	18.85	19.00	15.75	15.96
Mode		Max.	27.45		Max.	19.56
Attenuator	Cable Loss : 0.6					

Band	WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)	
	9262	9400	9538		1312	1413
Tx Channel	9662	9800	9938	1537	1638	1738
Rx Channel	9662.4	9860	10097.6	1712.4	1732.8	1752.6
Frequency (MHz)	9662.4	9860	10097.6	1712.4	1732.8	1752.6
3GPP Rel 99 RMC12.2Kbps	19.88	19.96	19.92	21.00	15.83	15.77
3GPP Rel 5 HSDPA Subtest-1	18.85	18.90	18.96	20.00	14.87	14.66
3GPP Rel 5 HSDPA Subtest-2	18.89	18.89	18.98	20.00	14.94	14.65
3GPP Rel 5 HSDPA Subtest-3	18.40	18.41	18.51	19.50	14.38	14.22
3GPP Rel 5 HSDPA Subtest-4	18.39	18.39	18.49	19.50	14.36	14.20
3GPP Rel 8 DC-HSDPA Subtest-1	18.84	18.89	19.06	20.00	14.92	14.61
3GPP Rel 8 DC-HSDPA Subtest-2	18.89	18.89	18.97	20.00	14.69	14.71
3GPP Rel 8 DC-HSDPA Subtest-3	18.40	18.40	18.56	19.50	14.30	14.25
3GPP Rel 8 DC-HSDPA Subtest-4	18.31	18.36	18.50	19.50	14.29	14.13
3GPP Rel 6 HSUPA Subtest-1	18.40	18.35	18.50	19.50	14.42	14.24
3GPP Rel 6 HSUPA Subtest-2	18.87	19.01	18.99	20.00	14.89	14.68
3GPP Rel 6 HSUPA Subtest-3	17.92	17.96	18.00	19.00	13.95	13.69
3GPP Rel 6 HSUPA Subtest-4	18.90	18.91	19.06	20.00	14.98	14.77
3GPP Rel 6 HSUPA Subtest-5	17.94	17.98	18.06	19.00	13.84	13.65
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	17.90	17.90	18.04	19.00	13.92	13.65
Attenuator		Cable Loss	0.8		Cable Loss	0.8
Mode		Max.	19.96		Max.	15.96

Band 2 (1900MHz Band) (dBm) Part 24E							
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	19.92	20.07	19.95	21
20	QPSK	1	49	20.26	20.31	20.23	
20	QPSK	1	99	19.94	20.00	19.93	
20	QPSK	50	0	20.14	20.21	20.20	21
20	QPSK	50	24	20.27	20.30	20.21	
20	QPSK	50	50	20.19	20.27	20.22	
20	QPSK	100	0	20.20	20.24	20.18	21
20	16QAM	1	0	19.88	19.96	19.88	
20	16QAM	1	49	20.13	20.15	20.09	
20	16QAM	1	99	19.84	19.93	19.85	21
20	16QAM	50	0	20.05	20.11	20.08	
20	16QAM	50	24	20.06	20.16	20.08	
20	16QAM	50	50	20.05	20.13	20.09	21
20	16QAM	100	0	20.05	20.12	20.05	
20	64QAM	1	0	20.23	20.26	20.16	
20	64QAM	1	49	20.09	20.12	20.03	21
20	64QAM	1	99	20.00	20.10	20.02	
20	64QAM	50	0	20.09	20.12	20.07	
20	64QAM	50	24	20.02	20.11	20.01	21
20	64QAM	50	50	20.09	20.12	20.08	
20	64QAM	100	0	20.02	20.11	20.09	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	19.91	20.03	19.87	21
15	QPSK	1	37	20.20	20.25	20.13	
15	QPSK	1	74	19.87	19.96	19.90	
15	QPSK	36	0	20.08	20.14	20.11	21
15	QPSK	36	20	20.26	20.26	20.13	
15	QPSK	36	39	20.12	20.24	20.21	
15	QPSK	75	0	20.19	20.19	20.10	21
15	16QAM	1	0	19.83	19.93	19.87	
15	16QAM	1	37	20.11	20.14	20.07	
15	16QAM	1	74	19.83	19.85	19.78	21
15	16QAM	36	0	20.03	20.07	20.01	
15	16QAM	36	20	20.00	20.08	19.99	
15	16QAM	36	39	20.03	20.07	20.05	21
15	16QAM	75	0	20.04	20.06	19.97	
15	64QAM	1	0	20.14	20.17	20.13	
15	64QAM	1	37	20.08	20.09	19.98	21
15	64QAM	1	74	19.94	20.00	19.98	
15	64QAM	36	0	19.99	20.09	20.02	
15	64QAM	36	20	20.00	20.05	20.00	21
15	64QAM	36	39	20.02	20.08	20.05	
15	64QAM	75	0	19.99	20.02	19.99	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	19.83	20.03	19.87	21
10	QPSK	1	25	20.25	20.28	20.21	
10	QPSK	1	49	19.87	19.90	19.83	
10	QPSK	25	0	20.07	20.12	20.18	21
10	QPSK	25	12	20.19	20.27	20.18	
10	QPSK	25	25	20.16	20.24	20.19	
10	QPSK	50	0	20.12	20.19	20.11	21
10	16QAM	1	0	19.80	19.89	19.84	
10	16QAM	1	25	20.09	20.11	20.02	
10	16QAM	1	49	19.83	19.87	19.75	21
10	16QAM	25	0	20.01	20.03	20.06	
10	16QAM	25	12	19.96	20.09	20.04	
10	16QAM	25	25	19.96	20.09	20.00	21
10	16QAM	50	0	19.96	20.03	19.96	
10	64QAM	1	0	20.13	20.17	20.14	
10	64QAM	1	25	20.08	20.03	19.96	21
10	64QAM	1	49	19.97	20.02	20.01	
10	64QAM	25	0	20.03	20.08	19.97	
10	64QAM	25	12	19.94	20.02	19.99	21
10	64QAM	25	25	20.00	20.11	20.04	
10	64QAM	50	0	19.94	20.07	20.00	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	19.82	20.05	19.88	21
5	QPSK	1	12	20.18	20.25	20.18	
5	QPSK	1	24	19.87	19.95	19.83	
5	QPSK	12	0	20.09	20.15	20.12	21
5	QPSK	12	7	20.21	20.29	20.12	
5	QPSK	12	13	20.16	20.19	20.12	
5	QPSK	25	0	20.16	20.20	20.14	21
5	16QAM	1	0	19.85	19.87	19.78	
5	16QAM	1	12	20.11	20.09	20.01	
5	16QAM	1	24	19.75	19.85	19.77	21
5	16QAM	12	0	19.97	20.04	20.03	
5	16QAM	12	7	19.96	20.06	20.02	
5	16QAM	12	13	20.00	20.08	20.06	21
5	16QAM	25	0	19.99	20.02	20.02	
5	64QAM	1	0	20.16	20.22	20.13	
5	64QAM	1	12	20.01	20.02	19.96	21
5	64QAM	1	24	19.98	20.01	19.97	
5	64QAM	12	0	20.06	20.09	19.99	
5	64QAM	12	7	19.97	20.05	19.92	21
5	64QAM	12	13	20.05	20.07	20.07	
5	64QAM	25	0	19.96	20.09	20.08	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	19.89	19.99	19.87	21
3	QPSK	1	8	20.22	20.21	20.15	
3	QPSK	1	14	19.91	19.90	19.88	
3	QPSK	8	0	20.05	20.20	20.19	21
3	QPSK	8	4	20.21	20.28	20.19	
3	QPSK	8	7	20.12	20.25	20.20	

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	17.87	17.80	17.74	19
20	QPSK	1	49	18.03	17.94	18.01	
20	QPSK	1	99	17.75	17.67	17.71	
20	QPSK	50	0	17.98	17.96	17.97	19
20	QPSK	50	24	18.02	18.01	17.94	
20	QPSK	50	50	17.90	17.89	17.88	
20	QPSK	100	0	17.96	17.86	17.92	19
20	16QAM	1	0	17.82	17.81	17.78	
20	16QAM	1	49	17.98	17.96	17.93	
20	16QAM	1	99	18.00	17.91	17.95	19
20	16QAM	50	0	17.98	17.91	17.95	
20	16QAM	50	24	18.00	17.98	17.92	
20	16QAM	50	50	17.93	17.83	17.85	19
20	16QAM	100	0	17.95	17.87	17.94	
20	64QAM	1	0	17.95	17.85	17.91	
20	64QAM	1	49	17.97	17.92	17.95	19
20	64QAM	1	99	17.87	17.80	17.85	
20	64QAM	50	0	18.00	17.90	17.99	
20	64QAM	50	24	17.98	17.94	17.93	19
20	64QAM	50	50	17.93	17.88	17.84	
20	64QAM	100	0	17.96	17.91	17.88	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	17.83	17.73	17.67	19
15	QPSK	1	37	17.93	17.84	18.00	
15	QPSK	1	74	17.71	17.59	17.68	
15	QPSK	36	0	17.88	17.90	17.93	19
15	QPSK	36	20	17.92	17.94	17.89	
15	QPSK	36	39	17.88	17.81	17.83	
15	QPSK	75	0	17.90	17.77	17.84	19
15	16QAM	1	0	17.73	17.78	17.77	
15	16QAM	1	37	17.88	17.87	17.84	
15	16QAM	1	74	17.99	17.88	17.92	19
15	16QAM	36	0	17.92	17.87	17.90	
15	16QAM	36	20	17.93	17.97	17.87	
15	16QAM	36	39	17.85	17.78	17.83	19
15	16QAM	75	0	17.89	17.80	17.90	
15	64QAM	1	0	17.92	17.81	17.82	
15	64QAM	1	37	17.91	17.87	17.92	19
15	64QAM	1	74	17.83	17.70	17.75	
15	64QAM	36	0	17.99	17.85	17.97	
15	64QAM	36	20	17.91	17.89	17.84	19
15	64QAM	36	39	17.85	17.86	17.79	
15	64QAM	75	0	17.86	17.83	17.78	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	17.78	17.72	17.67	19
10	QPSK	1	25	18.00	17.87	17.91	
10	QPSK	1	49	17.71	17.65	17.70	
10	QPSK	25	0	17.96	17.95	17.92	19
10	QPSK	25	12	17.95	17.92	17.89	
10	QPSK	25	25	17.80	17.80	17.85	
10	QPSK	50	0	17.86	17.83	17.88	19
10	16QAM	1	0	17.74	17.80	17.73	
10	16QAM	1	25	17.92	17.90	17.83	
10	16QAM	1	49	17.93	17.88	17.88	19
10	16QAM	25	0	17.90	17.89	17.86	
10	16QAM	25	12	17.95	17.95	17.87	
10	16QAM	25	25	17.92	17.77	17.76	19
10	16QAM	50	0	17.89	17.80	17.84	
10	64QAM	1	0	17.94	17.79	17.84	
10	64QAM	1	25	17.92	17.84	17.92	19
10	64QAM	1	49	17.82	17.79	17.82	
10	64QAM	25	0	17.92	17.88	17.97	
10	64QAM	25	12	17.89	17.91	17.84	19
10	64QAM	25	25	17.88	17.86	17.79	
10	64QAM	50	0	17.87	17.87	17.78	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	17.86	17.72	17.67	19
5	QPSK	1	12	17.93	17.90	17.94	
5	QPSK	1	24	17.67	17.61	17.64	
5	QPSK	12	0	17.94	17.87	17.92	19
5	QPSK	12	7	17.94	17.94	17.84	
5	QPSK	12	13	17.88	17.88	17.80	
5	QPSK	25	0	17.91	17.82	17.82	19
5	16QAM	1	0	17.78	17.77	17.73	
5	16QAM	1	12	17.89	17.95	17.88	
5	16QAM	1	24	17.96	17.90	17.89	19
5	16QAM	12	0	17.96	17.89	17.91	
5	16QAM	12	7	17.99	17.94	17.87	
5	16QAM	12	13	17.83	17.80	17.75	19
5	16QAM	25	0	17.94	17.77	17.86	
5	64QAM	1	0	17.88	17.80	17.90	
5	64QAM	1	12	17.91	17.87	17.92	19
5	64QAM	1	24	17.79	17.73	17.82	
5	64QAM	12	0	17.95	17.89	17.94	
5	64QAM	12	7	17.89	17.86	17.90	19
5	64QAM	12	13	17.84	17.86	17.82	
5	64QAM	25	0	17.91	17.90	17.79	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	17.78	17.79	17.73	19
3	QPSK	1	8	17.98	17.86	18.00	
3	QPSK	1	14	17.72	17.57	17.69	
3	QPSK	8	0	17.90	17.90	17.90	19
3	QPSK	8	4	17.97	17.98	17.88	
3	QPSK	8	7	17.84	17.85	17.83	



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3	QPSK	15	0	20.14	20.18	20.17	21
3	16QAM	1	0	19.81	19.86	19.86	
3	16QAM	1	8	20.09	20.12	20.08	
3	16QAM	1	14	19.79	19.85	19.78	21
3	16QAM	8	0	20.03	20.03	20.05	
3	16QAM	8	4	19.98	20.08	19.98	
3	16QAM	8	7	19.97	20.03	20.06	21
3	16QAM	15	0	19.97	20.07	19.99	
3	64QAM	1	0	20.22	20.20	20.12	
3	64QAM	1	8	20.07	20.09	19.93	21
3	64QAM	1	14	19.98	20.01	19.93	
3	64QAM	8	0	20.02	20.03	20.05	
3	64QAM	8	4	19.96	20.10	20.00	21
3	64QAM	8	7	20.01	20.06	20.03	
3	64QAM	15	0	19.95	20.05	20.04	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	19.89	20.03	19.88	21
1.4	QPSK	1	3	20.17	20.21	20.19	
1.4	QPSK	1	5	19.85	19.90	19.89	
1.4	QPSK	3	0	20.13	20.16	20.12	21
1.4	QPSK	3	1	20.19	20.22	20.13	
1.4	QPSK	3	3	20.11	20.18	20.21	
1.4	QPSK	6	0	20.10	20.14	20.17	21
1.4	16QAM	1	0	19.82	19.88	19.84	21
1.4	16QAM	1	3	20.07	20.07	20.05	
1.4	16QAM	1	5	19.81	19.85	19.77	
1.4	16QAM	3	0	20.01	20.03	19.99	21
1.4	16QAM	3	1	19.97	20.09	20.02	
1.4	16QAM	3	3	19.99	20.12	19.99	
1.4	16QAM	6	0	20.01	20.09	19.95	21
1.4	64QAM	1	0	20.14	20.25	20.10	21
1.4	64QAM	1	3	19.99	20.10	19.98	
1.4	64QAM	1	5	19.95	20.00	19.94	
1.4	64QAM	3	0	20.03	20.10	19.99	21
1.4	64QAM	3	1	19.93	20.08	19.98	
1.4	64QAM	3	3	20.07	20.02	20.07	
1.4	64QAM	6	0	19.96	20.10	20.07	21

3	QPSK	15	0	17.94	17.85	17.86	19
3	16QAM	1	0	17.79	17.73	17.72	
3	16QAM	1	8	17.88	17.86	17.84	
3	16QAM	1	14	17.93	17.81	17.87	19
3	16QAM	8	0	17.95	17.89	17.91	
3	16QAM	8	4	17.99	17.90	17.83	
3	16QAM	8	7	17.84	17.73	17.76	19
3	16QAM	15	0	17.88	17.78	17.93	
3	64QAM	1	0	17.94	17.80	17.89	
3	64QAM	1	8	17.87	17.85	17.94	19
3	64QAM	1	14	17.84	17.71	17.84	
3	64QAM	8	0	17.90	17.82	17.94	
3	64QAM	8	4	17.94	17.91	17.87	19
3	64QAM	8	7	17.84	17.85	17.82	
3	64QAM	15	0	17.93	17.84	17.78	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	17.83	17.77	17.64	19
1.4	QPSK	1	3	17.86	17.88	17.91	
1.4	QPSK	1	5	17.67	17.59	17.61	
1.4	QPSK	3	0	17.78	17.78	17.82	19
1.4	QPSK	3	1	17.87	17.87	17.74	
1.4	QPSK	3	3	17.73	17.74	17.67	
1.4	QPSK	6	0	17.93	17.83	17.85	19
1.4	16QAM	1	0	17.76	17.78	17.69	19
1.4	16QAM	1	3	17.82	17.93	17.88	
1.4	16QAM	1	5	17.96	17.90	17.93	
1.4	16QAM	3	0	17.85	17.80	17.79	19
1.4	16QAM	3	1	17.84	17.86	17.83	
1.4	16QAM	3	3	17.80	17.74	17.68	
1.4	16QAM	6	0	17.92	17.88	17.96	19
1.4	64QAM	1	0	17.90	17.88	17.94	19
1.4	64QAM	1	3	17.81	17.89	17.96	
1.4	64QAM	1	5	17.82	17.75	17.83	
1.4	64QAM	3	0	17.87	17.82	17.84	19
1.4	64QAM	3	1	17.85	17.82	17.80	
1.4	64QAM	3	3	17.83	17.75	17.69	
1.4	64QAM	6	0	18.00	17.93	17.83	19

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	13
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	11.84	11.89	11.90	13
20	QPSK	1	49	12.29	12.25	12.32	
20	QPSK	1	99	12.04	12.07	12.15	13
20	QPSK	50	0	12.12	12.09	12.14	
20	QPSK	50	24	12.28	12.19	12.29	13
20	QPSK	50	50	12.21	12.11	12.20	
20	QPSK	100	0	12.18	12.21	12.23	13
20	16QAM	1	0	12.03	12.07	12.12	
20	16QAM	1	49	12.25	12.13	12.23	13
20	16QAM	1	99	12.17	12.15	12.20	
20	16QAM	50	0	12.18	12.16	12.21	13
20	16QAM	50	24	12.28	12.21	12.30	
20	16QAM	50	50	12.24	12.21	12.31	13
20	16QAM	100	0	12.22	12.14	12.24	
20	64QAM	1	0	12.10	12.06	12.15	13
20	64QAM	1	49	12.23	12.20	12.25	
20	64QAM	1	99	12.10	12.11	12.18	13
20	64QAM	50	0	12.15	12.12	12.21	
20	64QAM	50	24	12.28	12.25	12.31	13
20	64QAM	50	50	12.15	12.23	12.24	
20	64QAM	100	0	12.13	12.09	12.13	13
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	13
15	QPSK	1	0	11.79	11.88	11.80	
15	QPSK	1	37	12.19	12.15	12.30	13
15	QPSK	1	74	12.03	12.03	12.08	
15	QPSK	36	0	12.11	12.03	12.04	13
15	QPSK	36	20	12.26	12.12	12.21	
15	QPSK	36	39	12.20	12.08	12.14	13
15	QPSK	75	0	12.11	12.15	12.21	
15	16QAM	1	0	11.94	12.04	12.08	13
15	16QAM	1	37	12.15	12.07	12.21	
15	16QAM	1	74	12.08	12.06	12.13	13
15	16QAM	36	0	12.12	12.13	12.13	
15	16QAM	36	20	12.24	12.13	12.26	13
15	16QAM	36	39	12.17	12.20	12.22	
15	16QAM	75	0	12.16	12.04	12.23	13
15	64QAM	1	0	12.04	12.00	12.06	
15	64QAM	1	37	12.19	12.14	12.17	13
15	64QAM	1	74	12.06	12.08	12.14	
15	64QAM	36	0	12.11	12.04	12.11	13
15	64QAM	36	20	12.18	12.23	12.24	
15	64QAM	36	39	12.10	12.14	12.19	13
15	64QAM	75	0	12.09	12.08	12.03	
Channel				20800	21100	21400	13
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	11.80	11.82	11.82	13
10	QPSK	1	25	12.28	12.17	12.23	
10	QPSK	1	49	11.96	11.98	12.05	13
10	QPSK	25	0	12.03	12.05	12.06	
10	QPSK	25	12	12.25	12.14	12.19	13
10	QPSK	25	25	12.11	12.01	12.18	
10	QPSK	50	0	12.08	12.20	12.20	13
10	16QAM	1	0	12.01	11.98	12.06	
10	16QAM	1	25	12.16	12.03	12.16	13
10	16QAM	1	49	12.16	12.14	12.12	
10	16QAM	25	0	12.12	12.08	12.20	13
10	16QAM	25	12	12.21	12.16	12.23	
10	16QAM	25	25	12.20	12.11	12.22	13
10	16QAM	50	0	12.16	12.12	12.14	
10	64QAM	1	0	12.09	11.99	12.07	13
10	64QAM	1	25	12.16	12.14	12.16	
10	64QAM	1	49	12.02	12.07	12.08	13
10	64QAM	25	0	12.11	12.07	12.18	
10	64QAM	25	12	12.20	12.20	12.29	13
10	64QAM	25	25	12.08	12.18	12.23	
10	64QAM	50	0	12.06	12.00	12.07	13
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	13
5	QPSK	1	0	11.79	11.82	11.82	
5	QPSK	1	12	12.21	12.18	12.31	13
5	QPSK	1	24	11.98	12.00	12.14	
5	QPSK	12	0	12.02	12.04	12.08	13
5	QPSK	12	7	12.21	12.15	12.27	
5	QPSK	12	13	12.13	12.01	12.12	13
5	QPSK	25	0	12.09	12.19	12.20	
5	16QAM	1	0	12.00	12.04	12.08	13
5	16QAM	1	12	12.19	12.08	12.18	
5	16QAM	1	24	12.16	12.10	12.14	13
5	16QAM	12	0	12.10	12.14	12.15	
5	16QAM	12	7	12.27	12.17	12.25	13
5	16QAM	12	13	12.15	12.12	12.22	
5	16QAM	25	0	12.20	12.04	12.20	13
5	64QAM	1	0	12.00	11.97	12.13	
5	64QAM	1	12	12.22	12.11	12.24	13
5	64QAM	1	24	12.09	12.06	12.15	
5	64QAM	12	0	12.10	12.06	12.19	13
5	64QAM	12	7	12.26	12.16	12.24	
5	64QAM	12	13	12.08	12.14	12.14	13
5	64QAM	25	0	12.11	12.04	12.05	

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	16.95	16.82	16.83	18
20	QPSK	1	49	17.07	16.98	17.03	
20	QPSK	1	99	16.79	16.71	16.74	
20	QPSK	50	0	17.02	16.93	17.01	
20	QPSK	50	24	17.05	17.01	17.04	18
20	QPSK	50	50	16.98	16.89	16.93	
20	QPSK	100	0	17.00	16.99	16.92	
20	16QAM	1	0	16.94	16.86	16.93	
20	16QAM	1	49	17.00	16.95	16.99	18
20	16QAM	1	99	17.01	16.92	17.00	
20	16QAM	50	0	17.03	17.00	16.98	
20	16QAM	50	24	17.04	17.02	17.01	
20	16QAM	50	50	17.04	17.03	17.02	18
20	16QAM	100	0	17.01	16.97	16.95	
20	64QAM	1	0	16.89	16.82	16.81	
20	64QAM	1	49	16.98	16.95	16.92	
20	64QAM	1	99	16.96	16.92	16.91	18
20	64QAM	50	0	17.02	16.98	16.99	
20	64QAM	50	24	17.04	16.98	17.00	
20	64QAM	50	50	17.01	16.94	16.98	
20	64QAM	100	0	17.00	16.98	16.99	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	Tune-up limit (dBm)
15	QPSK	1	0	16.87	16.75	16.80	18
15	QPSK	1	37	16.98	16.93	16.98	
15	QPSK	1	74	16.73	16.70	16.68	
15	QPSK	36	0	16.92	16.84	17.00	
15	QPSK	36	20	16.96	16.93	17.03	18
15	QPSK	36	39	16.89	16.86	16.84	
15	QPSK	75	0	16.96	16.91	16.91	
15	16QAM	1	0	16.86	16.84	16.84	
15	16QAM	1	37	16.93	16.89	16.93	18
15	16QAM	1	74	16.95	16.90	16.96	
15	16QAM	36	0	17.02	16.96	16.92	
15	16QAM	36	20	16.95	16.93	16.99	
15	16QAM	36	39	17.03	16.94	16.92	18
15	16QAM	75	0	16.96	16.91	16.89	
15	64QAM	1	0	16.80	16.74	16.75	
15	64QAM	1	37	16.92	16.94	16.83	
15	64QAM	1	74	16.93	16.90	16.88	18
15	64QAM	36	0	16.95	16.92	16.91	
15	64QAM	36	20	16.99	16.90	16.98	
15	64QAM	36	39	16.99	16.88	16.92	
15	64QAM	75	0	16.92	16.88	16.96	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	Tune-up limit (dBm)
10	QPSK	1	0	16.93	16.75	16.73	18
10	QPSK	1	25	17.04	16.90	17.00	
10	QPSK	1	49	16.78	16.63	16.72	
10	QPSK	25	0	16.96	16.86	16.99	
10	QPSK	25	12	17.02	16.95	16.98	18
10	QPSK	25	25	16.95	16.79	16.91	
10	QPSK	50	0	16.92	16.97	16.87	
10	16QAM	1	0	16.87	16.77	16.84	
10	16QAM	1	25	16.99	16.85	16.95	18
10	16QAM	1	49	16.94	16.86	16.94	
10	16QAM	25	0	16.95	16.93	16.94	
10	16QAM	25	12	16.96	16.93	16.91	
10	16QAM	25	25	17.01	16.99	16.93	18
10	16QAM	50	0	16.99	16.93	16.85	
10	64QAM	1	0	16.85	16.80	16.74	
10	64QAM	1	25	16.97	16.91	16.83	
10	64QAM	1	49	16.87	16.86	16.85	18
10	64QAM	25	0	16.98	16.92	16.95	
10	64QAM	25	12	16.99	16.95	16.95	
10	64QAM	25	25	16.91	16.89	16.90	
10	64QAM	50	0	16.95	16.92	16.92	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	Tune-up limit (dBm)
5	QPSK	1	0	16.90	16.76	16.75	18
5	QPSK	1	12	16.99	16.95	16.98	
5	QPSK	1	24	16.76	16.62	16.64	
5	QPSK	12	0	16.93	16.91	16.96	
5	QPSK	12	7	17.04	16.95	16.97	18
5	QPSK	12	13	16.93	16.83	16.87	
5	QPSK	25	0	16.88	16.98	16.89	
5	16QAM	1	0	16.86	16.76	16.86	
5	16QAM	1	12	16.94	16.93	16.91	18
5	16QAM	1	24	16.97	16.89	16.92	
5	16QAM	12	0	16.95	16.93	16.91	
5	16QAM	12	7	17.02	17.00	16.99	
5	16QAM	12	13	17.03	16.96	16.92	18
5	16QAM	25	0	16.95	16.95	16.85	
5	64QAM	1	0	16.82	16.74	16.78	
5	64QAM	1	12	16.95	16.85	16.83	
5	64QAM	1	24	16.89	16.85	16.86	18
5	64QAM	12	0	16.96	16.94	16.93	
5	64QAM	12	7	17.01	16.88	16.98	
5	64QAM	12	13	16.98	16.87	16.97	
5	64QAM	25	0	16.96	16.92	16.96	
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	Tune-up limit (dBm)
3	QPSK	1	0	16.91	16.74	16.80	18
3	QPSK	1	8	16.98	16.95	16.95	
3	QPSK	1	14	16.75	16.63	16.73	
3	QPSK	8	0	16.98	16.92	16.92	
3	QPSK	8	4	16.95	16.97	17.03	18
3	QPSK	8	7	16.89	16.88	16.87	



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3	QPSK	15	0	16.97	16.94	16.83	18
3	16QAM	1	0	16.91	16.82	16.89	
3	16QAM	1	8	16.99	16.94	16.98	
3	16QAM	1	14	16.92	16.82	16.95	18
3	16QAM	8	0	16.97	16.98	16.88	
3	16QAM	8	4	17.03	16.92	16.97	
3	16QAM	8	7	17.00	16.98	16.98	18
3	16QAM	15	0	16.99	16.92	16.87	
3	64QAM	1	0	16.80	16.81	16.71	
3	64QAM	1	8	16.97	16.89	16.88	18
3	64QAM	1	14	16.89	16.84	16.90	
3	64QAM	8	0	16.93	16.95	16.89	
3	64QAM	8	4	16.94	16.95	16.98	18
3	64QAM	8	7	16.92	16.86	16.89	
3	64QAM	15	0	16.90	16.92	16.93	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	16.92	16.80	16.76	18
1.4	QPSK	1	3	17.01	16.89	16.94	
1.4	QPSK	1	5	16.71	16.69	16.66	
1.4	QPSK	3	0	16.98	16.84	16.98	
1.4	QPSK	3	1	16.96	17.00	17.01	
1.4	QPSK	3	3	16.97	16.82	16.90	
1.4	QPSK	6	0	16.90	16.96	16.86	18
1.4	16QAM	1	0	16.90	16.85	16.90	18
1.4	16QAM	1	3	16.99	16.86	16.96	
1.4	16QAM	1	5	16.95	16.90	16.93	
1.4	16QAM	3	0	16.93	16.98	16.97	
1.4	16QAM	3	1	17.03	16.93	16.95	
1.4	16QAM	3	3	17.00	17.02	16.93	
1.4	16QAM	6	0	16.94	16.96	16.89	18
1.4	64QAM	1	0	16.79	16.72	16.71	18
1.4	64QAM	1	3	16.91	16.93	16.84	
1.4	64QAM	1	5	16.88	16.87	16.84	
1.4	64QAM	3	0	17.00	16.92	16.93	
1.4	64QAM	3	1	16.96	16.96	16.90	
1.4	64QAM	3	3	16.91	16.85	16.93	
1.4	64QAM	6	0	16.94	16.89	16.89	18



CA_7C											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
20850	20850	21048	QPSK	1	0	0	0	1	0	11.73	12.5
21100	21001	21199	QPSK	1	0	0	0	1	0	11.66	12.5
21350	21152	21350	QPSK	1	0	0	0	1	0	11.85	12.5
20850	20850	21048	16QAM	1	0	0	0	1	0	11.24	12
21100	21001	21199	16QAM	1	0	0	0	1	0	11.29	12
21350	21152	21350	16QAM	1	0	0	0	1	0	11.37	12
20850	20850	21048	64QAM	1	0	0	0	1	0	10.72	11.5
21100	21001	21199	64QAM	1	0	0	0	1	0	10.7	11.5
21350	21152	21350	64QAM	1	0	0	0	1	0	10.81	11.5
20850	20850	21048	QPSK	50	0	0	0	1	0	11.26	12
21100	21001	21199	QPSK	50	0	0	0	1	0	11.33	12
21350	21152	21350	QPSK	50	0	0	0	1	0	11.38	12

2.4GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
2.4GHz WLAN ANT 1	802.11b 1Mbps	CH 1	2412	14.95	16.00	17.50	99.57
		CH 7	2442	15.16	16.00	17.50	
		CH 13	2472	15.00	16.00	17.50	
	802.11g 6Mbps	CH 1	2412	12.96	14.00	15.50	96.94
		CH 7	2442	12.96	14.00	15.50	
		CH 13	2472	12.55	13.50	15.50	
	802.11n-HT20 MCS0	CH 1	2412	12.72	13.50	15.50	96.73
		CH 7	2442	12.81	14.00	15.50	
		CH 13	2472	12.48	13.50	15.50	
	802.11n-HT40 MCS0	CH 3	2422	12.05	13.00	14.50	93.64
		CH 7	2442	12.26	13.00	14.50	
		CH 13	2462	12.08	13.00	14.50	
	802.11ac-VHT20 MCS0	CH 1	2412	12.72	13.50	15.50	96.76
		CH 7	2442	12.80	14.00	15.50	
		CH 13	2472	12.48	13.50	15.50	
	802.11ac-VHT40 MCS0	CH 3	2422	12.07	13.00	14.50	93.70
		CH 7	2442	12.22	13.00	14.50	
		CH 13	2462	12.14	13.00	14.50	

5GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN ANT 1	802.11a 6Mbps	CH 36	5180	10.02	11.00	11.50	97.22
		CH 44	5220	10.17	11.00	11.50	
		CH 48	5240	10.00	11.00	11.50	
	802.11n-HT20 MCS0	CH 36	5180	9.88	11.00	11.50	97.01
		CH 44	5220	9.89	11.00	11.50	
		CH 48	5240	9.75	10.50	11.50	
	802.11n-HT40 MCS0	CH 38	5190	9.93	11.00	11.50	92.86
		CH 46	5230	9.80	10.50	11.50	
		CH 36	5180	9.65	10.50	11.50	
	802.11ac-VHT20 MCS0	CH 44	5220	9.97	11.00	11.50	97.04
		CH 48	5240	9.87	11.00	11.50	
		CH 38	5190	9.89	11.00	11.50	
	802.11ac-VHT40 MCS0	CH 46	5230	9.78	10.50	11.50	94.20
		CH 42	5210	9.87	11.00	11.50	
	802.11ac-VHT80 MCS0	CH 42	5210	9.87	11.00	11.50	86.49

5GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.3GHz WLAN ANT 1	802.11a 6Mbps	CH 52	5280	9.57	10.50	11.50	97.22
		CH 60	5300	9.82	10.50	11.50	
		CH 64	5320	9.49	10.50	11.50	
	802.11n-HT20 MCS0	CH 52	5280	9.94	11.00	11.50	97.01
		CH 60	5300	9.63	10.50	11.50	
		CH 64	5320	9.32	10.00	11.50	
	802.11n-HT40 MCS0	CH 54	5270	9.64	10.50	11.50	92.86
		CH 62	5310	9.44	10.50	11.50	
		CH 52	5280	9.92	11.00	11.50	
	802.11ac-VHT20 MCS0	CH 60	5300	9.65	10.50	11.50	97.06
		CH 64	5320	9.29	10.00	11.50	
		CH 54	5270	9.63	10.50	11.50	
	802.11ac-VHT40 MCS0	CH 62	5310	9.51	10.50	11.50	92.86
		CH 58	5290	9.52	10.50	11.50	
	802.11ac-VHT80 MCS0	CH 58	5290	9.52	10.50	11.50	89.19

5GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.5GHz WLAN ANT 1	802.11a 6Mbps	CH 100	5500	9.52	10.50	11.50	97.20
		CH 120	5600	10.55	11.50	11.50	
		CH 144	5720	9.93	11.00	11.50	
	802.11n-HT20 MCS0	CH 100	5500	10.14	11.00	11.50	97.01
		CH 120	5600	10.31	11.00	11.50	
		CH 144	5720	9.80	10.50	11.50	
	802.11n-HT40 MCS0	CH 102	5510	9.88	10.50	11.50	94.20
		CH 126	5630	10.28	11.00	11.50	
		CH 142	5710	9.67	10.50	11.50	
	802.11ac-VHT20 MCS0	CH 100	5500	10.13	11.00	11.50	97.04
		CH 120	5600	10.20	11.00	11.50	
		CH 144	5720	9.76	10.50	11.50	
	802.11ac-VHT40 MCS0	CH 102	5510	9.93	11.00	11.50	94.29
		CH 126	5630	10.25	11.00	11.50	
		CH 142	5710	9.87	10.50	11.50	
	802.11ac-VHT80 MCS0	CH 106	5530	10.19	11.00	11.50	89.19
		CH 122	5610	10.25	11.00	11.50	
		CH 138	5690	10.09	11.00	11.50	

5GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.8GHz WLAN ANT 1	802.11a 6Mbps	CH 149	5745	9.21	10.00	11.50	97.22
		CH 157	5785	9.44	10.50	11.50	
		CH 165	5825	9.49	10.50	11.50	
	802.11n-HT20 MCS0	CH 149	5745	9.69	10.50	11.50	97.01
		CH 157	5785	9.34	10.00	11.50	
		CH 165	5825	9.25	10.00	11.50	
	802.11n-HT40 MCS0	CH 151	5755	9.91	11.00	11.50	94.20
		CH 159	5795	9.51	10.50	11.50	
		CH 149	5745	9.71	10.50	11.50	
	802.11ac-VHT20 MCS0	CH 157	5785	9.32	10.00	11.50	97.04
		CH 165	5825	9.31	10.00	11.50	
		CH 151	5755	9.96	11.00	11.50	
	802.11ac-VHT40 MCS0	CH 159	5795	9.53	10.50	11.50	94.29
		CH 155	5775	9.54	10.50	11.50	
	802.11ac-VHT80 MCS0	CH 155	5775	9.54	10.50	11.50	88.89



Reduced Power Level 2

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Tx Channel	1850.2	1860	1869.8		1850.2	1860	1869.8	
Frequency (MHz)	1850.2	1860	1869.8		1850.2	1860	1869.8	
GSM 1 Tx slot	27.18	27.40	27.42	28.30	18.18	18.40	18.42	19.30
GPRS 1 Tx slot	27.20	27.42	27.45	28.30	18.20	18.42	18.45	19.30
GPRS 2 Tx slots	25.20	25.45	25.50	26.30	19.20	19.45	19.50	20.30
GPRS 3 Tx slots	23.19	23.47	23.53	24.30	18.93	19.21	19.27	20.04
GPRS 4 Tx slots	22.27	22.52	22.56	23.30	19.27	19.52	19.56	20.30
EDGE 1 Tx slot	22.94	23.15	23.13	24.00	13.94	14.15	14.13	15.00
EDGE 2 Tx slots	21.88	22.01	21.96	23.00	15.88	16.01	15.96	17.00
EDGE 3 Tx slots	19.82	20.02	19.94	21.00	15.56	15.76	15.68	16.74
EDGE 4 Tx slots	18.75	18.96	18.85	19.00	15.75	15.96	15.85	16.00
Mode		Max.	27.45			Max.	19.56	
Attenuator	Cable Loss : 0.6							

Band	WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)
	9262	9400	9538		1312	1413	1513	
Tx Channel	9662	9800	9938		1537	1638	1738	
Rx Channel	9662	9800	9938		1537	1638	1738	
Frequency (MHz)	1852.4	1860	1869.8		1712.4	1722.8	1732.6	
3GPP Rel 99	19.88	19.96	19.92	21.00	15.96	15.83	15.77	17.00
3GPP Rel 5	18.85	18.90	18.96	20.00	14.87	14.66	14.53	15.50
3GPP Rel 5	18.89	18.89	18.98	20.00	14.94	14.65	14.50	15.50
3GPP Rel 5	18.40	18.41	18.51	19.50	14.38	14.22	14.02	15.00
3GPP Rel 5	18.39	18.39	18.49	19.50	14.36	14.20	14.01	15.00
3GPP Rel 8	18.84	18.89	19.06	20.00	14.92	14.61	14.55	15.50
3GPP Rel 8	18.89	18.89	18.97	20.00	14.69	14.71	14.49	15.50
3GPP Rel 8	18.40	18.40	18.56	19.50	14.30	14.25	14.02	15.00
3GPP Rel 8	18.31	18.36	18.50	19.50	14.29	14.13	14.03	15.00
3GPP Rel 6	18.40	18.35	18.50	19.50	14.42	14.24	14.02	14.50
3GPP Rel 6	18.87	19.01	18.99	20.00	14.89	14.68	14.63	15.50
3GPP Rel 6	17.92	17.96	18.00	19.00	13.95	13.69	13.58	14.50
3GPP Rel 6	18.90	18.91	19.06	20.00	14.98	14.77	14.55	16.00
3GPP Rel 6	17.94	17.98	18.06	19.00	13.84	13.65	13.59	14.50
3GPP Rel 7	17.90	17.90	18.04	19.00	13.92	13.65	13.53	14.50
3GPP Rel 7	17.90	17.90	18.04	19.00	13.92	13.65	13.53	14.50
Attenuator			Cable Loss	0.8			Cable Loss	0.8
Mode		Max.	19.96			Max.	15.96	

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	21
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	19.92	20.07	19.95	21
20	QPSK	1	49	20.26	20.31	20.23	
20	QPSK	1	99	19.94	20.00	19.93	21
20	QPSK	50	0	20.14	20.21	20.20	
20	QPSK	50	24	20.27	20.30	20.21	21
20	QPSK	50	50	20.19	20.27	20.22	
20	QPSK	100	0	20.20	20.24	20.18	21
20	16QAM	1	0	19.88	19.96	19.88	
20	16QAM	1	49	20.13	20.15	20.09	21
20	16QAM	1	99	19.84	19.93	19.85	
20	16QAM	50	0	20.05	20.11	20.08	21
20	16QAM	50	24	20.06	20.16	20.08	
20	16QAM	50	50	20.05	20.13	20.09	21
20	16QAM	100	0	20.05	20.12	20.05	
20	64QAM	1	0	20.23	20.26	20.16	21
20	64QAM	1	49	20.09	20.12	20.03	
20	64QAM	1	99	20.00	20.10	20.02	21
20	64QAM	50	0	20.09	20.12	20.07	
20	64QAM	50	24	20.02	20.11	20.01	21
20	64QAM	50	50	20.09	20.12	20.08	
20	64QAM	100	0	20.02	20.11	20.09	21
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	21
15	QPSK	1	0	19.91	20.03	19.87	
15	QPSK	1	37	20.20	20.25	20.13	21
15	QPSK	1	74	19.87	19.96	19.90	
15	QPSK	36	0	20.08	20.14	20.11	21
15	QPSK	36	20	20.26	20.26	20.13	
15	QPSK	36	39	20.12	20.24	20.21	21
15	QPSK	75	0	20.19	20.19	20.10	
15	16QAM	1	0	19.83	19.93	19.87	21
15	16QAM	1	37	20.11	20.14	20.07	
15	16QAM	1	74	19.83	19.85	19.78	21
15	16QAM	36	0	20.03	20.07	20.01	
15	16QAM	36	20	20.00	20.08	19.99	21
15	16QAM	36	39	20.03	20.07	20.05	
15	16QAM	75	0	20.04	20.06	19.97	21
15	64QAM	1	0	20.14	20.17	20.13	
15	64QAM	1	37	20.08	20.09	19.98	21
15	64QAM	1	74	19.94	20.00	19.98	
15	64QAM	36	0	19.99	20.09	20.02	21
15	64QAM	36	20	20.00	20.05	20.00	
15	64QAM	36	39	20.02	20.08	20.05	21
15	64QAM	75	0	19.99	20.02	19.99	
Channel				18650	18900	19150	21
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	19.83	20.03	19.87	21
10	QPSK	1	25	20.25	20.28	20.21	
10	QPSK	1	49	19.87	19.90	19.83	21
10	QPSK	25	0	20.07	20.12	20.18	
10	QPSK	25	12	20.19	20.27	20.18	21
10	QPSK	25	25	20.16	20.24	20.19	
10	QPSK	50	0	20.12	20.19	20.11	21
10	16QAM	1	0	19.80	19.89	19.84	
10	16QAM	1	25	20.09	20.11	20.02	21
10	16QAM	1	49	19.83	19.87	19.75	
10	16QAM	25	0	20.01	20.03	20.06	21
10	16QAM	25	12	19.96	20.09	20.04	
10	16QAM	25	25	19.96	20.09	20.00	21
10	16QAM	50	0	19.96	20.03	19.96	
10	64QAM	1	0	20.13	20.17	20.14	21
10	64QAM	1	25	20.08	20.03	19.96	
10	64QAM	1	49	19.97	20.02	20.01	21
10	64QAM	25	0	20.03	20.08	19.97	
10	64QAM	25	12	19.94	20.02	19.99	21
10	64QAM	25	25	20.00	20.11	20.04	
10	64QAM	50	0	19.94	20.07	20.00	21
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	21
5	QPSK	1	0	19.82	20.05	19.88	
5	QPSK	1	12	20.18	20.25	20.18	21
5	QPSK	1	24	19.87	19.95	19.83	
5	QPSK	12	0	20.09	20.15	20.12	21
5	QPSK	12	7	20.21	20.29	20.12	
5	QPSK	12	13	20.16	20.19	20.12	21
5	QPSK	25	0	20.16	20.20	20.14	
5	16QAM	1	0	19.85	19.87	19.78	21
5	16QAM	1	12	20.11	20.09	20.01	
5	16QAM	1	24	19.75	19.85	19.77	21
5	16QAM	12	0	19.97	20.04	20.03	
5	16QAM	12	7	19.96	20.06	20.02	21
5	16QAM	12	13	20.00	20.08	20.06	
5	16QAM	25	0	19.99	20.02	20.02	21
5	64QAM	1	0	20.16	20.22	20.13	
5	64QAM	1	12	20.01	20.02	19.96	21
5	64QAM	1	24	19.98	20.01	19.97	
5	64QAM	12	0	20.06	20.09	19.99	21
5	64QAM	12	7	19.97	20.05	19.92	
5	64QAM	12	13	20.05	20.07	20.07	21
5	64QAM	25	0	19.96	20.09	20.08	
Channel				18615	18900	19185	21
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	19.89	19.99	19.87	21
3	QPSK	1	8	20.22	20.21	20.15	
3	QPSK	1	14	19.91	19.90	19.88	21
3	QPSK	8	0	20.05	20.20	20.19	
3	QPSK	8	4	20.21	20.28	20.19	21
3	QPSK	8	7	20.12	20.25	20.20	

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	17.87	17.80	17.74	19
20	QPSK	1	49	18.03	17.94	18.01	
20	QPSK	1	99	17.75	17.67	17.71	
20	QPSK	50	0	17.98	17.96	17.97	
20	QPSK	50	24	18.02	18.01	17.94	19
20	QPSK	50	50	17.90	17.89	17.88	
20	QPSK	100	0	17.96	17.86	17.92	
20	16QAM	1	0	17.82	17.81	17.78	
20	16QAM	1	49	17.98	17.96	17.93	19
20	16QAM	1	99	18.00	17.91	17.95	
20	16QAM	50	0	17.98	17.91	17.95	
20	16QAM	50	24	18.00	17.98	17.92	
20	16QAM	50	50	17.93	17.83	17.85	19
20	16QAM	100	0	17.95	17.87	17.94	
20	64QAM	1	0	17.95	17.85	17.91	
20	64QAM	1	49	17.97	17.92	17.95	
20	64QAM	1	99	17.87	17.80	17.85	19
20	64QAM	50	0	18.00	17.90	17.99	
20	64QAM	50	24	17.98	17.94	17.93	
20	64QAM	50	50	17.93	17.88	17.84	
20	64QAM	100	0	17.96	17.91	17.88	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	Tune-up limit (dBm)
15	QPSK	1	0	17.83	17.73	17.67	19
15	QPSK	1	37	17.93	17.84	18.00	
15	QPSK	1	74	17.71	17.59	17.68	
15	QPSK	36	0	17.88	17.90	17.93	
15	QPSK	36	20	17.92	17.94	17.89	19
15	QPSK	36	39	17.88	17.81	17.83	
15	QPSK	75	0	17.90	17.77	17.84	
15	16QAM	1	0	17.73	17.78	17.77	
15	16QAM	1	37	17.88	17.87	17.84	19
15	16QAM	1	74	17.99	17.88	17.92	
15	16QAM	36	0	17.92	17.87	17.90	
15	16QAM	36	20	17.93	17.97	17.87	
15	16QAM	36	39	17.85	17.78	17.83	19
15	16QAM	75	0	17.89	17.80	17.90	
15	64QAM	1	0	17.92	17.81	17.82	
15	64QAM	1	37	17.91	17.87	17.92	
15	64QAM	1	74	17.83	17.70	17.75	19
15	64QAM	36	0	17.99	17.85	17.97	
15	64QAM	36	20	17.91	17.89	17.84	
15	64QAM	36	39	17.85	17.86	17.79	
15	64QAM	75	0	17.86	17.83	17.78	
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	Tune-up limit (dBm)
10	QPSK	1	0	17.78	17.72	17.67	19
10	QPSK	1	25	18.00	17.87	17.91	
10	QPSK	1	49	17.71	17.65	17.70	
10	QPSK	25	0	17.96	17.95	17.92	
10	QPSK	25	12	17.95	17.92	17.89	19
10	QPSK	25	25	17.80	17.80	17.85	
10	QPSK	50	0	17.86	17.83	17.88	
10	16QAM	1	0	17.74	17.80	17.73	
10	16QAM	1	25	17.92	17.90	17.83	19
10	16QAM	1	49	17.93	17.88	17.88	
10	16QAM	25	0	17.90	17.89	17.86	
10	16QAM	25	12	17.95	17.95	17.87	
10	16QAM	25	25	17.92	17.77	17.76	19
10	16QAM	50	0	17.89	17.80	17.84	
10	64QAM	1	0	17.94	17.79	17.84	
10	64QAM	1	25	17.92	17.84	17.92	
10	64QAM	1	49	17.82	17.79	17.82	19
10	64QAM	25	0	17.92	17.88	17.97	
10	64QAM	25	12	17.89	17.91	17.84	
10	64QAM	25	25	17.88	17.86	17.79	
10	64QAM	50	0	17.87	17.87	17.78	
Channel				19975	20175	20375	
Frequency (MHz)				1712.5	1732.5	1752.5	Tune-up limit (dBm)
5	QPSK	1	0	17.86	17.72	17.67	19
5	QPSK	1	12	17.93	17.90	17.94	
5	QPSK	1	24	17.67	17.61	17.64	
5	QPSK	12	0	17.94	17.87	17.92	
5	QPSK	12	7	17.94	17.94	17.84	19
5	QPSK	12	13	17.88	17.88	17.80	
5	QPSK	25	0	17.91	17.82	17.82	
5	16QAM	1	0	17.78	17.77	17.73	
5	16QAM	1	12	17.89	17.95	17.88	19
5	16QAM	1	24	17.96	17.90	17.89	
5	16QAM	12	0	17.96	17.89	17.91	
5	16QAM	12	7	17.99	17.94	17.87	
5	16QAM	12	13	17.83	17.80	17.75	19
5	16QAM	25	0	17.94	17.77	17.86	
5	64QAM	1	0	17.88	17.80	17.90	
5	64QAM	1	12	17.91	17.87	17.92	
5	64QAM	1	24	17.79	17.73	17.82	19
5	64QAM	12	0	17.95	17.89	17.94	
5	64QAM	12	7	17.89	17.86	17.90	
5	64QAM	12	13	17.84	17.86	17.82	
5	64QAM	25	0	17.91	17.90	17.79	
Channel				19965	20175	20385	
Frequency (MHz)				1711.5	1732.5	1753.5	Tune-up limit (dBm)
3	QPSK	1	0	17.78	17.79	17.73	19
3	QPSK	1	8	17.98	17.86	18.00	
3	QPSK	1	14	17.72	17.57	17.69	
3	QPSK	8	0	17.90	17.90	17.90	
3	QPSK	8	4	17.97	17.98	17.88	19
3	QPSK	8	7	17.84	17.85	17.83	



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3	QPSK	15	0	20.14	20.18	20.17	21
3	16QAM	1	0	19.81	19.86	19.86	
3	16QAM	1	8	20.09	20.12	20.08	
3	16QAM	1	14	19.79	19.85	19.78	21
3	16QAM	8	0	20.03	20.03	20.05	
3	16QAM	8	4	19.98	20.08	19.98	
3	16QAM	8	7	19.97	20.03	20.06	21
3	16QAM	15	0	19.97	20.07	19.99	
3	64QAM	1	0	20.22	20.20	20.12	
3	64QAM	1	8	20.07	20.09	19.93	21
3	64QAM	1	14	19.98	20.01	19.93	
3	64QAM	8	0	20.02	20.03	20.05	
3	64QAM	8	4	19.96	20.10	20.00	21
3	64QAM	8	7	20.01	20.06	20.03	
3	64QAM	15	0	19.95	20.05	20.04	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	19.89	20.03	19.88	21
1.4	QPSK	1	3	20.17	20.21	20.19	
1.4	QPSK	1	5	19.85	19.90	19.89	
1.4	QPSK	3	0	20.13	20.16	20.12	21
1.4	QPSK	3	1	20.19	20.22	20.13	
1.4	QPSK	3	3	20.11	20.18	20.21	
1.4	QPSK	6	0	20.10	20.14	20.17	21
1.4	16QAM	1	0	19.82	19.88	19.84	21
1.4	16QAM	1	3	20.07	20.07	20.05	
1.4	16QAM	1	5	19.81	19.85	19.77	
1.4	16QAM	3	0	20.01	20.03	19.99	21
1.4	16QAM	3	1	19.97	20.09	20.02	
1.4	16QAM	3	3	19.99	20.12	19.99	
1.4	16QAM	6	0	20.01	20.09	19.95	21
1.4	64QAM	1	0	20.14	20.25	20.10	21
1.4	64QAM	1	3	19.99	20.10	19.98	
1.4	64QAM	1	5	19.95	20.00	19.94	
1.4	64QAM	3	0	20.03	20.10	19.99	21
1.4	64QAM	3	1	19.93	20.08	19.98	
1.4	64QAM	3	3	20.07	20.02	20.07	
1.4	64QAM	6	0	19.96	20.10	20.07	21

3	QPSK	15	0	17.94	17.85	17.86	19
3	16QAM	1	0	17.79	17.73	17.72	
3	16QAM	1	8	17.88	17.86	17.84	
3	16QAM	1	14	17.93	17.81	17.87	19
3	16QAM	8	0	17.95	17.89	17.91	
3	16QAM	8	4	17.99	17.90	17.83	
3	16QAM	8	7	17.84	17.73	17.76	19
3	16QAM	15	0	17.88	17.78	17.93	
3	64QAM	1	0	17.94	17.80	17.89	
3	64QAM	1	8	17.87	17.85	17.94	19
3	64QAM	1	14	17.84	17.71	17.84	
3	64QAM	8	0	17.90	17.82	17.94	
3	64QAM	8	4	17.94	17.91	17.87	19
3	64QAM	8	7	17.84	17.85	17.82	
3	64QAM	15	0	17.93	17.84	17.78	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	17.83	17.77	17.64	19
1.4	QPSK	1	3	17.86	17.88	17.91	
1.4	QPSK	1	5	17.67	17.59	17.61	
1.4	QPSK	3	0	17.78	17.78	17.82	19
1.4	QPSK	3	1	17.87	17.87	17.74	
1.4	QPSK	3	3	17.73	17.74	17.67	
1.4	QPSK	6	0	17.93	17.83	17.85	19
1.4	16QAM	1	0	17.76	17.78	17.69	19
1.4	16QAM	1	3	17.82	17.93	17.88	
1.4	16QAM	1	5	17.96	17.90	17.93	
1.4	16QAM	3	0	17.85	17.80	17.79	19
1.4	16QAM	3	1	17.84	17.86	17.83	
1.4	16QAM	3	3	17.80	17.74	17.68	
1.4	16QAM	6	0	17.92	17.88	17.96	19
1.4	64QAM	1	0	17.90	17.88	17.94	19
1.4	64QAM	1	3	17.81	17.89	17.96	
1.4	64QAM	1	5	17.82	17.75	17.83	
1.4	64QAM	3	0	17.87	17.82	17.84	19
1.4	64QAM	3	1	17.85	17.82	17.80	
1.4	64QAM	3	3	17.83	17.75	17.69	
1.4	64QAM	6	0	18.00	17.93	17.83	19

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	11.84	11.89	11.90	13
20	QPSK	1	49	12.29	12.25	12.32	
20	QPSK	1	99	12.04	12.07	12.15	
20	QPSK	50	0	12.12	12.09	12.14	13
20	QPSK	50	24	12.28	12.19	12.29	
20	QPSK	50	50	12.21	12.11	12.20	
20	QPSK	100	0	12.18	12.21	12.23	13
20	16QAM	1	0	12.03	12.07	12.12	
20	16QAM	1	49	12.25	12.13	12.23	
20	16QAM	1	99	12.17	12.15	12.20	13
20	16QAM	50	0	12.18	12.16	12.21	
20	16QAM	50	24	12.28	12.21	12.30	
20	16QAM	50	50	12.24	12.21	12.31	13
20	16QAM	100	0	12.22	12.14	12.24	
20	64QAM	1	0	12.10	12.06	12.15	
20	64QAM	1	49	12.23	12.20	12.25	13
20	64QAM	1	99	12.10	12.11	12.18	
20	64QAM	50	0	12.15	12.12	12.21	
20	64QAM	50	24	12.28	12.25	12.31	13
20	64QAM	50	50	12.15	12.23	12.24	
20	64QAM	100	0	12.13	12.09	12.13	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	11.79	11.88	11.80	13
15	QPSK	1	37	12.19	12.15	12.30	
15	QPSK	1	74	12.03	12.03	12.08	
15	QPSK	36	0	12.11	12.03	12.04	13
15	QPSK	36	20	12.26	12.12	12.21	
15	QPSK	36	39	12.20	12.08	12.14	
15	QPSK	75	0	12.11	12.15	12.21	13
15	16QAM	1	0	11.94	12.04	12.08	
15	16QAM	1	37	12.15	12.07	12.21	
15	16QAM	1	74	12.08	12.06	12.13	13
15	16QAM	36	0	12.12	12.13	12.13	
15	16QAM	36	20	12.24	12.13	12.26	
15	16QAM	36	39	12.17	12.20	12.22	13
15	16QAM	75	0	12.16	12.04	12.23	
15	64QAM	1	0	12.04	12.00	12.06	
15	64QAM	1	37	12.19	12.14	12.17	13
15	64QAM	1	74	12.06	12.08	12.14	
15	64QAM	36	0	12.11	12.04	12.11	
15	64QAM	36	20	12.18	12.23	12.24	13
15	64QAM	36	39	12.10	12.14	12.19	
15	64QAM	75	0	12.09	12.08	12.03	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	11.80	11.82	11.82	13
10	QPSK	1	25	12.28	12.17	12.23	
10	QPSK	1	49	11.96	11.98	12.05	
10	QPSK	25	0	12.03	12.05	12.06	13
10	QPSK	25	12	12.25	12.14	12.19	
10	QPSK	25	25	12.11	12.01	12.18	
10	QPSK	50	0	12.08	12.20	12.20	13
10	16QAM	1	0	12.01	11.98	12.06	
10	16QAM	1	25	12.16	12.03	12.16	
10	16QAM	1	49	12.16	12.14	12.12	13
10	16QAM	25	0	12.12	12.08	12.20	
10	16QAM	25	12	12.21	12.16	12.23	
10	16QAM	25	25	12.20	12.11	12.22	13
10	16QAM	50	0	12.16	12.12	12.14	
10	64QAM	1	0	12.09	11.99	12.07	
10	64QAM	1	25	12.16	12.14	12.16	13
10	64QAM	1	49	12.02	12.07	12.08	
10	64QAM	25	0	12.11	12.07	12.18	
10	64QAM	25	12	12.20	12.20	12.29	13
10	64QAM	25	25	12.08	12.18	12.23	
10	64QAM	50	0	12.06	12.00	12.07	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	11.79	11.82	11.82	13
5	QPSK	1	12	12.21	12.18	12.31	
5	QPSK	1	24	11.98	12.00	12.14	
5	QPSK	12	0	12.02	12.04	12.08	13
5	QPSK	12	7	12.21	12.15	12.27	
5	QPSK	12	13	12.13	12.01	12.12	
5	QPSK	25	0	12.09	12.19	12.20	13
5	16QAM	1	0	12.00	12.04	12.08	
5	16QAM	1	12	12.19	12.08	12.18	
5	16QAM	1	24	12.16	12.10	12.14	13
5	16QAM	12	0	12.10	12.14	12.15	
5	16QAM	12	7	12.27	12.17	12.25	
5	16QAM	12	13	12.15	12.12	12.22	13
5	16QAM	25	0	12.20	12.04	12.20	
5	64QAM	1	0	12.00	11.97	12.13	
5	64QAM	1	12	12.22	12.11	12.24	13
5	64QAM	1	24	12.09	12.06	12.15	
5	64QAM	12	0	12.10	12.06	12.19	
5	64QAM	12	7	12.26	12.16	12.24	13
5	64QAM	12	13	12.08	12.14	12.14	
5	64QAM	25	0	12.11	12.04	12.05	

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	16.95	16.82	16.83	18
20	QPSK	1	49	17.07	16.98	17.03	
20	QPSK	1	99	16.79	16.71	16.74	
20	QPSK	50	0	17.02	16.93	17.01	18
20	QPSK	50	24	17.05	17.01	17.04	
20	QPSK	50	50	16.98	16.89	16.93	
20	QPSK	100	0	17.00	16.99	16.92	18
20	16QAM	1	0	16.94	16.86	16.93	
20	16QAM	1	49	17.00	16.95	16.99	
20	16QAM	1	99	17.01	16.92	17.00	18
20	16QAM	50	0	17.03	17.00	16.98	
20	16QAM	50	24	17.04	17.02	17.01	
20	16QAM	50	50	17.04	17.03	17.02	18
20	16QAM	100	0	17.01	16.97	16.95	
20	64QAM	1	0	16.89	16.82	16.81	
20	64QAM	1	49	16.98	16.95	16.92	18
20	64QAM	1	99	16.96	16.92	16.91	
20	64QAM	50	0	17.02	16.98	16.99	
20	64QAM	50	24	17.04	16.98	17.00	18
20	64QAM	50	50	17.01	16.94	16.98	
20	64QAM	100	0	17.00	16.98	16.99	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	16.87	16.75	16.80	18
15	QPSK	1	37	16.98	16.93	16.98	
15	QPSK	1	74	16.73	16.70	16.68	
15	QPSK	36	0	16.92	16.84	17.00	18
15	QPSK	36	20	16.96	16.93	17.03	
15	QPSK	36	39	16.89	16.86	16.84	
15	QPSK	75	0	16.96	16.91	16.91	18
15	16QAM	1	0	16.86	16.84	16.84	
15	16QAM	1	37	16.93	16.89	16.93	
15	16QAM	1	74	16.95	16.90	16.96	18
15	16QAM	36	0	17.02	16.96	16.92	
15	16QAM	36	20	16.95	16.93	16.99	
15	16QAM	36	39	17.03	16.94	16.92	18
15	16QAM	75	0	16.96	16.91	16.89	
15	64QAM	1	0	16.80	16.74	16.75	
15	64QAM	1	37	16.92	16.94	16.83	18
15	64QAM	1	74	16.93	16.90	16.88	
15	64QAM	36	0	16.95	16.92	16.91	
15	64QAM	36	20	16.99	16.90	16.98	18
15	64QAM	36	39	16.99	16.88	16.92	
15	64QAM	75	0	16.92	16.88	16.96	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	16.93	16.75	16.73	18
10	QPSK	1	25	17.04	16.90	17.00	
10	QPSK	1	49	16.78	16.63	16.72	
10	QPSK	25	0	16.96	16.86	16.99	18
10	QPSK	25	12	17.02	16.95	16.98	
10	QPSK	25	25	16.95	16.79	16.91	
10	QPSK	50	0	16.92	16.97	16.87	18
10	16QAM	1	0	16.87	16.77	16.84	
10	16QAM	1	25	16.99	16.85	16.95	
10	16QAM	1	49	16.94	16.86	16.94	18
10	16QAM	25	0	16.95	16.93	16.94	
10	16QAM	25	12	16.96	16.93	16.91	
10	16QAM	25	25	17.01	16.99	16.93	18
10	16QAM	50	0	16.99	16.93	16.85	
10	64QAM	1	0	16.85	16.80	16.74	
10	64QAM	1	25	16.97	16.91	16.83	18
10	64QAM	1	49	16.87	16.86	16.85	
10	64QAM	25	0	16.98	16.92	16.95	
10	64QAM	25	12	16.99	16.95	16.95	18
10	64QAM	25	25	16.91	16.89	16.90	
10	64QAM	50	0	16.95	16.92	16.92	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	16.90	16.76	16.75	18
5	QPSK	1	12	16.99	16.95	16.98	
5	QPSK	1	24	16.76	16.62	16.64	
5	QPSK	12	0	16.93	16.91	16.96	18
5	QPSK	12	7	17.04	16.95	16.97	
5	QPSK	12	13	16.93	16.83	16.87	
5	QPSK	25	0	16.98	16.98	16.89	18
5	16QAM	1	0	16.86	16.76	16.86	
5	16QAM	1	12	16.94	16.93	16.91	
5	16QAM	1	24	16.97	16.89	16.92	18
5	16QAM	12	0	16.95	16.93	16.91	
5	16QAM	12	7	17.02	17.00	16.99	
5	16QAM	12	13	17.03	16.96	16.92	18
5	16QAM	25	0	16.95	16.95	16.85	
5	64QAM	1	0	16.82	16.74	16.78	
5	64QAM	1	12	16.95	16.85	16.83	18
5	64QAM	1	24	16.89	16.85	16.86	
5	64QAM	12	0	16.96	16.94	16.93	
5	64QAM	12	7	17.01	16.88	16.98	18
5	64QAM	12	13	16.98	16.87	16.97	
5	64QAM	25	0	16.96	16.92	16.96	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	16.91	16.74	16.80	18
3	QPSK	1	8	16.98	16.95	16.95	
3	QPSK	1	14	16.75	16.63	16.73	
3	QPSK	8	0	16.98	16.92	16.92	18
3	QPSK	8	4	16.95	16.97	17.03	
3	QPSK	8	7	16.89	16.88	16.87	



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3	QPSK	15	0	16.97	16.94	16.83	18
3	16QAM	1	0	16.91	16.82	16.89	
3	16QAM	1	8	16.99	16.94	16.98	
3	16QAM	1	14	16.92	16.82	16.95	18
3	16QAM	8	0	16.97	16.98	16.88	
3	16QAM	8	4	17.03	16.92	16.97	
3	16QAM	8	7	17.00	16.98	16.98	18
3	16QAM	15	0	16.99	16.92	16.87	
3	64QAM	1	0	16.80	16.81	16.71	
3	64QAM	1	8	16.97	16.89	16.88	18
3	64QAM	1	14	16.89	16.84	16.90	
3	64QAM	8	0	16.93	16.95	16.89	
3	64QAM	8	4	16.94	16.95	16.98	18
3	64QAM	8	7	16.92	16.86	16.89	
3	64QAM	15	0	16.90	16.92	16.93	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	16.92	16.80	16.76	18
1.4	QPSK	1	3	17.01	16.89	16.94	
1.4	QPSK	1	5	16.71	16.69	16.66	
1.4	QPSK	3	0	16.98	16.84	16.98	
1.4	QPSK	3	1	16.96	17.00	17.01	
1.4	QPSK	3	3	16.97	16.82	16.90	
1.4	QPSK	6	0	16.90	16.96	16.86	18
1.4	16QAM	1	0	16.90	16.85	16.90	18
1.4	16QAM	1	3	16.99	16.86	16.96	
1.4	16QAM	1	5	16.95	16.90	16.93	
1.4	16QAM	3	0	16.93	16.98	16.97	
1.4	16QAM	3	1	17.03	16.93	16.95	
1.4	16QAM	3	3	17.00	17.02	16.93	
1.4	16QAM	6	0	16.94	16.96	16.89	18
1.4	64QAM	1	0	16.79	16.72	16.71	18
1.4	64QAM	1	3	16.91	16.93	16.84	
1.4	64QAM	1	5	16.88	16.87	16.84	
1.4	64QAM	3	0	17.00	16.92	16.93	
1.4	64QAM	3	1	16.96	16.96	16.90	
1.4	64QAM	3	3	16.91	16.85	16.93	
1.4	64QAM	6	0	16.94	16.89	16.89	18



CA_7C											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
20850	20850	21048	QPSK	1	0	0	0	1	0	11.73	12.5
21100	21001	21199	QPSK	1	0	0	0	1	0	11.66	12.5
21350	21152	21350	QPSK	1	0	0	0	1	0	11.85	12.5
20850	20850	21048	16QAM	1	0	0	0	1	0	11.24	12
21100	21001	21199	16QAM	1	0	0	0	1	0	11.29	12
21350	21152	21350	16QAM	1	0	0	0	1	0	11.37	12
20850	20850	21048	64QAM	1	0	0	0	1	0	10.72	11.5
21100	21001	21199	64QAM	1	0	0	0	1	0	10.7	11.5
21350	21152	21350	64QAM	1	0	0	0	1	0	10.81	11.5
20850	20850	21048	QPSK	50	0	0	0	1	0	11.26	12
21100	21001	21199	QPSK	50	0	0	0	1	0	11.33	12
21350	21152	21350	QPSK	50	0	0	0	1	0	11.38	12

Reduced Power Level 3

Band		WCDMA Band IV (dBm)			Tune-up Limit (dBm)
TX Channel		1312	1413	1513	
Rx Channel		1537	1638	1738	
Frequency (MHz)		1712.4	1732.6	1752.6	
3GPP Rel 99	RMC 12.2Kbps	16.96	16.83	16.77	18.00
3GPP Rel 5	HSDPA Subtest-1	15.87	15.66	15.53	16.50
3GPP Rel 5	HSDPA Subtest-2	15.84	15.65	15.50	16.50
3GPP Rel 5	HSDPA Subtest-3	15.38	15.22	15.02	16.00
3GPP Rel 5	HSDPA Subtest-4	15.36	15.20	15.01	16.00
3GPP Rel 8	DC-HSDPA Subtest-1	15.92	15.61	15.55	16.50
3GPP Rel 8	DC-HSDPA Subtest-2	15.69	15.71	15.49	16.50
3GPP Rel 8	DC-HSDPA Subtest-3	15.30	15.25	15.02	16.00
3GPP Rel 8	DC-HSDPA Subtest-4	15.29	15.13	15.03	16.00
3GPP Rel 6	HSUPA Subtest-1	15.42	15.24	15.02	15.50
3GPP Rel 6	HSUPA Subtest-2	15.89	15.68	15.63	16.50
3GPP Rel 6	HSUPA Subtest-3	14.95	14.69	14.58	15.50
3GPP Rel 6	HSUPA Subtest-4	15.98	15.77	15.55	17.00
3GPP Rel 6	HSUPA Subtest-5	14.84	14.65	14.59	15.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	14.92	14.65	14.53	15.50
Attenuator			Cable Loss	0.8	
Mode			Max.	16.96	

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	17.87	17.80	17.74	19
20	QPSK	1	49	18.03	17.94	18.01	
20	QPSK	1	99	17.75	17.67	17.71	
20	QPSK	50	0	17.98	17.96	17.97	19
20	QPSK	50	24	18.02	18.01	17.94	
20	QPSK	50	50	17.90	17.89	17.88	
20	QPSK	100	0	17.96	17.86	17.92	19
20	16QAM	1	0	17.82	17.81	17.78	
20	16QAM	1	49	17.98	17.96	17.93	
20	16QAM	1	99	18.00	17.91	17.95	19
20	16QAM	50	0	17.98	17.91	17.95	
20	16QAM	50	24	18.00	17.98	17.92	
20	16QAM	50	50	17.93	17.83	17.85	19
20	16QAM	100	0	17.95	17.87	17.94	
20	64QAM	1	0	17.95	17.85	17.91	
20	64QAM	1	49	17.97	17.92	17.95	19
20	64QAM	1	99	17.87	17.80	17.85	
20	64QAM	50	0	18.00	17.90	17.99	
20	64QAM	50	24	17.98	17.94	17.93	19
20	64QAM	50	50	17.93	17.88	17.84	
20	64QAM	100	0	17.96	17.91	17.88	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	17.83	17.73	17.67	19
15	QPSK	1	37	17.93	17.84	18.00	
15	QPSK	1	74	17.71	17.59	17.68	
15	QPSK	36	0	17.88	17.90	17.93	19
15	QPSK	36	20	17.92	17.94	17.89	
15	QPSK	36	39	17.88	17.81	17.83	
15	QPSK	75	0	17.90	17.77	17.84	19
15	16QAM	1	0	17.73	17.78	17.77	
15	16QAM	1	37	17.88	17.87	17.84	
15	16QAM	1	74	17.99	17.88	17.92	19
15	16QAM	36	0	17.92	17.87	17.90	
15	16QAM	36	20	17.93	17.97	17.87	
15	16QAM	36	39	17.85	17.78	17.83	19
15	16QAM	75	0	17.89	17.80	17.90	
15	64QAM	1	0	17.92	17.81	17.82	
15	64QAM	1	37	17.91	17.87	17.92	19
15	64QAM	1	74	17.83	17.70	17.75	
15	64QAM	36	0	17.99	17.85	17.97	
15	64QAM	36	20	17.91	17.89	17.84	19
15	64QAM	36	39	17.85	17.86	17.79	
15	64QAM	75	0	17.86	17.83	17.78	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	17.78	17.72	17.67	19
10	QPSK	1	25	18.00	17.87	17.91	
10	QPSK	1	49	17.71	17.65	17.70	
10	QPSK	25	0	17.96	17.95	17.92	19
10	QPSK	25	12	17.95	17.92	17.89	
10	QPSK	25	25	17.80	17.80	17.85	
10	QPSK	50	0	17.86	17.83	17.88	19
10	16QAM	1	0	17.74	17.80	17.73	
10	16QAM	1	25	17.92	17.90	17.83	
10	16QAM	1	49	17.93	17.88	17.88	19
10	16QAM	25	0	17.90	17.89	17.86	
10	16QAM	25	12	17.95	17.95	17.87	
10	16QAM	25	25	17.92	17.77	17.76	19
10	16QAM	50	0	17.89	17.80	17.84	
10	64QAM	1	0	17.94	17.79	17.84	
10	64QAM	1	25	17.92	17.84	17.92	19
10	64QAM	1	49	17.82	17.79	17.82	
10	64QAM	25	0	17.92	17.88	17.97	
10	64QAM	25	12	17.89	17.91	17.84	19
10	64QAM	25	25	17.88	17.86	17.79	
10	64QAM	50	0	17.87	17.87	17.78	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	17.86	17.72	17.67	19
5	QPSK	1	12	17.93	17.90	17.94	
5	QPSK	1	24	17.67	17.61	17.64	
5	QPSK	12	0	17.94	17.87	17.92	19
5	QPSK	12	7	17.94	17.94	17.84	
5	QPSK	12	13	17.88	17.88	17.80	
5	QPSK	25	0	17.91	17.82	17.82	19
5	16QAM	1	0	17.78	17.77	17.73	
5	16QAM	1	12	17.89	17.95	17.88	
5	16QAM	1	24	17.96	17.90	17.89	19
5	16QAM	12	0	17.96	17.89	17.91	
5	16QAM	12	7	17.99	17.94	17.87	
5	16QAM	12	13	17.83	17.80	17.75	19
5	16QAM	25	0	17.94	17.77	17.86	
5	64QAM	1	0	17.88	17.80	17.90	
5	64QAM	1	12	17.91	17.87	17.92	19
5	64QAM	1	24	17.79	17.73	17.82	
5	64QAM	12	0	17.95	17.89	17.94	
5	64QAM	12	7	17.89	17.86	17.90	19
5	64QAM	12	13	17.84	17.86	17.82	
5	64QAM	25	0	17.91	17.90	17.79	
Channel				19955	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	17.78	17.79	17.73	19
3	QPSK	1	8	17.98	17.86	18.00	
3	QPSK	1	14	17.72	17.57	17.69	
3	QPSK	8	0	17.90	17.90	17.90	19
3	QPSK	8	4	17.97	17.98	17.88	
3	QPSK	8	7	17.84	17.85	17.83	

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	12.84	12.89	12.90	14
20	QPSK	1	49	13.29	13.25	13.32	
20	QPSK	1	99	13.04	13.07	13.15	
20	QPSK	50	0	13.12	13.09	13.14	14
20	QPSK	50	24	13.28	13.19	13.29	
20	QPSK	50	50	13.21	13.11	13.20	
20	QPSK	100	0	13.18	13.21	13.23	14
20	16QAM	1	0	13.03	13.07	13.12	
20	16QAM	1	49	13.25	13.13	13.23	
20	16QAM	1	99	13.17	13.15	13.20	14
20	16QAM	50	0	13.18	13.16	13.21	
20	16QAM	50	24	13.28	13.21	13.30	
20	16QAM	50	50	13.24	13.21	13.31	14
20	16QAM	100	0	13.22	13.14	13.24	
20	64QAM	1	0	13.10	13.06	13.15	
20	64QAM	1	49	13.23	13.20	13.25	14
20	64QAM	1	99	13.10	13.11	13.18	
20	64QAM	50	0	13.15	13.12	13.21	
20	64QAM	50	24	13.28	13.25	13.31	14
20	64QAM	50	50	13.15	13.23	13.24	
20	64QAM	100	0	13.13	13.09	13.13	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	12.79	12.88	12.80	14
15	QPSK	1	37	13.19	13.15	13.30	
15	QPSK	1	74	13.03	13.03	13.08	
15	QPSK	36	0	13.11	13.03	13.04	14
15	QPSK	36	20	13.26	13.12	13.21	
15	QPSK	36	39	13.20	13.08	13.14	
15	QPSK	75	0	13.11	13.15	13.21	14
15	16QAM	1	0	12.94	13.04	13.08	
15	16QAM	1	37	13.15	13.07	13.21	
15	16QAM	1	74	13.08	13.06	13.13	14
15	16QAM	36	0	13.12	13.13	13.13	
15	16QAM	36	20	13.24	13.13	13.26	
15	16QAM	36	39	13.17	13.20	13.22	14
15	16QAM	75	0	13.16	13.04	13.23	
15	64QAM	1	0	13.04	13.00	13.06	
15	64QAM	1	37	13.19	13.14	13.17	14
15	64QAM	1	74	13.06	13.08	13.14	
15	64QAM	36	0	13.11	13.04	13.11	
15	64QAM	36	20	13.18	13.23	13.24	14
15	64QAM	36	39	13.10	13.14	13.19	
15	64QAM	75	0	13.09	13.08	13.03	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	12.80	12.82	12.82	14
10	QPSK	1	25	13.28	13.17	13.23	
10	QPSK	1	49	12.96	12.98	13.05	
10	QPSK	25	0	13.03	13.05	13.06	14
10	QPSK	25	12	13.25	13.14	13.19	
10	QPSK	25	25	13.11	13.01	13.18	
10	QPSK	50	0	13.08	13.20	13.20	14
10	16QAM	1	0	13.01	12.98	13.06	
10	16QAM	1	25	13.16	13.03	13.16	
10	16QAM	1	49	13.16	13.14	13.12	14
10	16QAM	25	0	13.12	13.08	13.20	
10	16QAM	25	12	13.21	13.16	13.23	
10	16QAM	25	25	13.20	13.11	13.22	14
10	16QAM	50	0	13.16	13.12	13.14	
10	64QAM	1	0	13.09	12.99	13.07	
10	64QAM	1	25	13.16	13.14	13.16	14
10	64QAM	1	49	13.02	13.07	13.08	
10	64QAM	25	0	13.11	13.07	13.18	
10	64QAM	25	12	13.20	13.20	13.29	14
10	64QAM	25	25	13.08	13.18	13.23	
10	64QAM	50	0	13.06	13.00	13.07	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	12.79	12.82	12.82	14
5	QPSK	1	12	13.21	13.18	13.31	
5	QPSK	1	24	12.98	13.00	13.14	
5	QPSK	12	0	13.02	13.04	13.08	14
5	QPSK	12	7	13.21	13.15	13.27	
5	QPSK	12	13	13.13	13.01	13.12	
5	QPSK	25	0	13.09	13.19	13.20	14
5	16QAM	1	0	13.00	13.04	13.08	
5	16QAM	1	12	13.19	13.08	13.18	
5	16QAM	1	24	13.16	13.10	13.14	14
5	16QAM	12	0	13.10	13.14	13.15	
5	16QAM	12	7	13.27	13.17	13.25	
5	16QAM	12	13	13.15	13.12	13.22	14
5	16QAM	25	0	13.20	13.04	13.20	
5	64QAM	1	0	13.00	12.97	13.13	
5	64QAM	1	12	13.22	13.11	13.24	14
5	64QAM	1	24	13.09	13.06	13.15	
5	64QAM	12	0	13.10	13.06	13.19	
5	64QAM	12	7	13.26	13.16	13.24	14
5	64QAM	12	13	13.08	13.14	13.14	
5	64QAM	25	0	13.11	13.04	13.05	



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3	QPSK	15	0	17.94	17.85	17.86	19
3	16QAM	1	0	17.79	17.73	17.72	
3	16QAM	1	8	17.88	17.86	17.84	
3	16QAM	1	14	17.93	17.81	17.87	19
3	16QAM	8	0	17.95	17.89	17.91	
3	16QAM	8	4	17.99	17.90	17.83	
3	16QAM	8	7	17.84	17.73	17.76	19
3	16QAM	15	0	17.88	17.78	17.93	
3	64QAM	1	0	17.94	17.80	17.89	
3	64QAM	1	8	17.87	17.85	17.94	19
3	64QAM	1	14	17.84	17.71	17.84	
3	64QAM	8	0	17.90	17.82	17.94	
3	64QAM	8	4	17.94	17.91	17.87	19
3	64QAM	8	7	17.84	17.85	17.82	
3	64QAM	15	0	17.93	17.84	17.78	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	17.83	17.77	17.64	19
1.4	QPSK	1	3	17.96	17.88	17.91	
1.4	QPSK	1	5	17.67	17.59	17.61	
1.4	QPSK	3	0	17.78	17.78	17.82	19
1.4	QPSK	3	1	17.87	17.87	17.74	
1.4	QPSK	3	3	17.73	17.74	17.67	
1.4	QPSK	6	0	17.93	17.83	17.85	19
1.4	16QAM	1	0	17.76	17.78	17.69	
1.4	16QAM	1	3	17.92	17.93	17.88	
1.4	16QAM	1	5	17.96	17.90	17.93	19
1.4	16QAM	3	0	17.85	17.80	17.79	
1.4	16QAM	3	1	17.84	17.86	17.83	
1.4	16QAM	3	3	17.80	17.74	17.68	19
1.4	16QAM	6	0	17.92	17.88	17.96	
1.4	64QAM	1	0	17.90	17.88	17.94	
1.4	64QAM	1	3	17.81	17.89	17.96	19
1.4	64QAM	1	5	17.82	17.75	17.83	
1.4	64QAM	3	0	17.87	17.82	17.84	
1.4	64QAM	3	1	17.85	17.82	17.80	19
1.4	64QAM	3	3	17.83	17.75	17.69	
1.4	64QAM	6	0	18.00	17.93	17.83	



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	17.95	17.82	17.83	19
20	QPSK	1	49	18.07	17.98	18.03	
20	QPSK	1	99	17.79	17.71	17.74	
20	QPSK	50	0	18.02	17.93	18.01	19
20	QPSK	50	24	18.05	18.01	18.04	
20	QPSK	50	50	17.98	17.89	17.93	
20	QPSK	100	0	18.00	17.99	17.92	19
20	16QAM	1	0	17.94	17.86	17.93	
20	16QAM	1	49	18.00	17.95	17.99	
20	16QAM	1	99	18.01	17.92	18.00	19
20	16QAM	50	0	18.03	18.00	17.98	
20	16QAM	50	24	18.04	18.02	18.01	
20	16QAM	50	50	18.04	18.03	18.02	19
20	16QAM	100	0	18.01	17.97	17.95	
20	64QAM	1	0	17.89	17.82	17.81	
20	64QAM	1	49	17.98	17.95	17.92	19
20	64QAM	1	99	17.96	17.92	17.91	
20	64QAM	50	0	18.02	17.98	17.99	
20	64QAM	50	24	18.04	17.98	18.00	19
20	64QAM	50	50	18.01	17.94	17.98	
20	64QAM	100	0	18.00	17.98	17.99	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	17.87	17.75	17.80	19
15	QPSK	1	37	17.98	17.93	17.98	
15	QPSK	1	74	17.73	17.70	17.68	
15	QPSK	36	0	17.92	17.84	18.00	19
15	QPSK	36	20	17.96	17.93	18.03	
15	QPSK	36	39	17.89	17.86	17.84	
15	QPSK	75	0	17.96	17.91	17.91	19
15	16QAM	1	0	17.86	17.84	17.84	
15	16QAM	1	37	17.93	17.89	17.93	
15	16QAM	1	74	17.95	17.90	17.96	19
15	16QAM	36	0	18.02	17.96	17.92	
15	16QAM	36	20	17.95	17.93	17.99	
15	16QAM	36	39	18.03	17.94	17.92	19
15	16QAM	75	0	17.96	17.91	17.89	
15	64QAM	1	0	17.80	17.74	17.75	
15	64QAM	1	37	17.92	17.94	17.83	19
15	64QAM	1	74	17.93	17.90	17.88	
15	64QAM	36	0	17.95	17.92	17.91	
15	64QAM	36	20	17.99	17.90	17.98	19
15	64QAM	36	39	17.99	17.88	17.92	
15	64QAM	75	0	17.92	17.88	17.96	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	17.93	17.75	17.73	19
10	QPSK	1	25	18.04	17.90	18.00	
10	QPSK	1	49	17.78	17.63	17.72	
10	QPSK	25	0	17.96	17.86	17.99	19
10	QPSK	25	12	18.02	17.95	17.98	
10	QPSK	25	25	17.95	17.79	17.91	
10	QPSK	50	0	17.92	17.97	17.87	19
10	16QAM	1	0	17.87	17.77	17.84	
10	16QAM	1	25	17.99	17.85	17.95	
10	16QAM	1	49	17.94	17.86	17.94	19
10	16QAM	25	0	17.95	17.93	17.94	
10	16QAM	25	12	17.96	17.93	17.91	
10	16QAM	25	25	18.01	17.99	17.93	19
10	16QAM	50	0	17.99	17.93	17.85	
10	64QAM	1	0	17.85	17.80	17.74	
10	64QAM	1	25	17.97	17.91	17.83	19
10	64QAM	1	49	17.87	17.86	17.85	
10	64QAM	25	0	17.98	17.92	17.95	
10	64QAM	25	12	17.99	17.95	17.95	19
10	64QAM	25	25	17.91	17.89	17.90	
10	64QAM	50	0	17.95	17.92	17.92	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	17.90	17.76	17.75	19
5	QPSK	1	12	17.99	17.95	17.98	
5	QPSK	1	24	17.76	17.62	17.64	
5	QPSK	12	0	17.93	17.91	17.96	19
5	QPSK	12	7	18.04	17.95	17.97	
5	QPSK	12	13	17.93	17.83	17.87	
5	QPSK	25	0	17.98	17.98	17.89	19
5	16QAM	1	0	17.86	17.76	17.86	
5	16QAM	1	12	17.94	17.93	17.91	
5	16QAM	1	24	17.97	17.89	17.92	19
5	16QAM	12	0	17.95	17.93	17.91	
5	16QAM	12	7	18.02	18.00	17.99	
5	16QAM	12	13	18.03	17.96	17.92	19
5	16QAM	25	0	17.95	17.95	17.85	
5	64QAM	1	0	17.82	17.74	17.78	
5	64QAM	1	12	17.95	17.85	17.83	19
5	64QAM	1	24	17.89	17.85	17.86	
5	64QAM	12	0	17.96	17.94	17.93	
5	64QAM	12	7	18.01	17.88	17.98	19
5	64QAM	12	13	17.98	17.87	17.97	
5	64QAM	25	0	17.96	17.92	17.96	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	17.91	17.74	17.80	19
3	QPSK	1	8	17.98	17.95	17.95	
3	QPSK	1	14	17.75	17.63	17.73	
3	QPSK	8	0	17.98	17.92	17.92	19
3	QPSK	8	4	17.95	17.97	18.03	
3	QPSK	8	7	17.89	17.88	17.87	



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3	QPSK	15	0	17.97	17.94	17.83	19
3	16QAM	1	0	17.91	17.82	17.89	
3	16QAM	1	8	17.99	17.94	17.98	
3	16QAM	1	14	17.92	17.82	17.95	19
3	16QAM	8	0	17.97	17.98	17.88	
3	16QAM	8	4	18.03	17.92	17.97	
3	16QAM	8	7	18.00	17.98	17.98	19
3	16QAM	15	0	17.99	17.92	17.87	
3	64QAM	1	0	17.80	17.81	17.71	
3	64QAM	1	8	17.97	17.89	17.88	19
3	64QAM	1	14	17.89	17.84	17.90	
3	64QAM	8	0	17.93	17.95	17.89	
3	64QAM	8	4	17.94	17.95	17.98	19
3	64QAM	8	7	17.92	17.86	17.89	
3	64QAM	15	0	17.90	17.92	17.93	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	17.92	17.80	17.76	19
1.4	QPSK	1	3	18.01	17.89	17.94	
1.4	QPSK	1	5	17.71	17.69	17.66	
1.4	QPSK	3	0	17.98	17.84	17.98	
1.4	QPSK	3	1	17.96	18.00	18.01	
1.4	QPSK	3	3	17.97	17.82	17.90	
1.4	QPSK	6	0	17.90	17.96	17.86	19
1.4	16QAM	1	0	17.90	17.85	17.90	19
1.4	16QAM	1	3	17.99	17.86	17.96	
1.4	16QAM	1	5	17.95	17.90	17.93	
1.4	16QAM	3	0	17.93	17.98	17.97	
1.4	16QAM	3	1	18.03	17.93	17.95	
1.4	16QAM	3	3	18.00	18.02	17.93	
1.4	16QAM	6	0	17.94	17.96	17.89	19
1.4	64QAM	1	0	17.79	17.72	17.71	19
1.4	64QAM	1	3	17.91	17.93	17.84	
1.4	64QAM	1	5	17.88	17.87	17.84	
1.4	64QAM	3	0	18.00	17.92	17.93	
1.4	64QAM	3	1	17.96	17.96	17.90	
1.4	64QAM	3	3	17.91	17.85	17.93	
1.4	64QAM	6	0	17.94	17.89	17.89	19



CA_7C											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
20850	20850	21048	QPSK	1	0	0	0	1	0	12.73	13.5
21100	21001	21199	QPSK	1	0	0	0	1	0	12.66	13.5
21350	21152	21350	QPSK	1	0	0	0	1	0	12.85	13.5
20850	20850	21048	16QAM	1	0	0	0	1	0	12.24	13
21100	21001	21199	16QAM	1	0	0	0	1	0	12.29	13
21350	21152	21350	16QAM	1	0	0	0	1	0	12.37	13
20850	20850	21048	64QAM	1	0	0	0	1	0	11.72	12.5
21100	21001	21199	64QAM	1	0	0	0	1	0	11.7	12.5
21350	21152	21350	64QAM	1	0	0	0	1	0	11.81	12.5
20850	20850	21048	QPSK	50	0	0	0	1	0	12.26	13
21100	21001	21199	QPSK	50	0	0	0	1	0	12.33	13
21350	21152	21350	QPSK	50	0	0	0	1	0	12.38	13