

8 CONDUCTED RF OUPUT POWER

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8.1 GSM Output Power

GSM-Full Power-Ant.0								
GSM850 Band	Burst Average Power(dBm)			Tune-up	Frame-Averaged power			Tune-up
Channel	128	190	251	Power(dBm)	128	190	251	Power(dBm)
GSM (GMSK, 1-Slot)	33.01	32.97	32.86	33.50	23.82	23.78	23.67	24.31
GPRS (GMSK, 1-Slot)	33.02	33.00	32.88	33.50	23.83	23.81	23.69	24.31
GPRS (GMSK, 2-Slots)	32.26	32.25	32.14	32.50	26.13	26.12	26.01	26.37
GPRS (GMSK, 3-Slots)	30.62	30.59	30.48	31.50	26.20	26.17	26.06	27.08
GPRS (GMSK, 4-Slots)	29.60	29.54	29.42	30.50	26.42	26.36	26.24	27.32
EGPRS (8PSK, 1-Slot)	27.67	27.64	27.60	28.00	18.48	18.45	18.41	18.81
EGPRS (8PSK, 2-Slots)	26.66	26.62	26.40	27.00	20.53	20.49	20.27	20.87
EGPRS (8PSK, 3-Slots)	24.47	24.60	24.35	25.00	20.05	20.18	19.93	20.58
EGPRS (8PSK, 4-Slots)	23.40	23.43	23.39	24.00	20.22	20.25	20.21	20.82
GSM1900 Band	Burst Average Power(dBm)			Tune-up	Frame-Averaged			Tune-up
Channel	512	661	810	Power(dBm)	512	661	810	Power(dBm)
GSM (GMSK, 1-Slot)	30.37	30.49	30.00	31.00	21.18	21.30	20.81	21.81
GPRS (GMSK, 1-Slot)	30.34	30.46	30.01	31.00	21.15	21.27	20.82	21.81
GPRS (GMSK, 2-Slots)	29.73	29.75	29.36	30.00	23.60	23.62	23.23	23.87
GPRS (GMSK, 3-Slots)	28.09	28.18	27.81	29.00	23.67	23.76	23.39	24.58
GPRS (GMSK, 4-Slots)	27.12	27.15	26.81	28.00	23.94	23.97	23.63	24.82
EGPRS (8PSK, 1-Slot)	27.61	27.78	27.56	28.00	18.42	18.59	18.37	18.81
EGPRS (8PSK, 2-Slots)	26.74	26.95	26.61	27.00	20.61	20.82	20.48	20.87
EGPRS (8PSK, 3-Slots)	24.81	25.09	24.89	26.00	20.39	20.67	20.47	21.58
EGPRS (8PSK, 4-Slots)	23.96	24.19	23.70	25.00	20.78	21.01	20.52	21.82

8.2 WCDMA Output Power

WCDMA-Full Power-Ant.0				
Band	Band 2			Tune-up Limit Power(dBm)
Channel	9262	9400	9538	
Frequency	1852.40	1880.00	1907.60	
AMR 12.2Kbps	22.97	23.28	22.93	23.50
RMC 12.2Kbps	22.99	23.36	22.96	23.50
HSDPA Subtest-1	22.02	22.39	21.95	22.50
HSDPA Subtest-2	21.99	22.27	21.91	22.50
HSDPA Subtest-3	21.48	21.85	21.43	22.50
HSDPA Subtest-4	21.44	21.82	21.40	22.50
HSUPA Subtest-1	20.00	20.35	19.94	21.50
HSUPA Subtest-2	20.01	20.34	19.95	21.50
HSUPA Subtest-3	20.99	21.38	20.94	21.50
HSUPA Subtest-4	19.51	19.93	19.49	20.00
HSUPA Subtest-5	20.97	21.36	20.94	22.50
Band	Band 4			Tune-up Limit Power(dBm)
Channel	1312	1412	1513	
Frequency	1712.40	1732.40	1752.60	
AMR 12.2Kbps	22.94	22.54	22.90	23.50
RMC 12.2Kbps	23.03	22.68	22.92	23.50
HSDPA Subtest-1	22.09	21.68	21.93	22.50
HSDPA Subtest-2	21.99	21.63	21.88	22.50
HSDPA Subtest-3	21.55	21.12	21.45	22.50
HSDPA Subtest-4	21.52	21.12	21.44	22.50
HSUPA Subtest-1	20.06	19.66	19.95	21.50
HSUPA Subtest-2	20.05	19.67	19.90	21.50
HSUPA Subtest-3	21.04	20.68	20.94	21.50
HSUPA Subtest-4	19.61	19.18	19.49	20.00
HSUPA Subtest-5	21.04	20.66	20.93	22.50
Band	Band 5			Tune-up Limit Power(dBm)
Channel	4132	4182	4233	
Frequency	826.40	836.40	846.60	
AMR 12.2Kbps	23.20	23.03	23.39	23.50
RMC 12.2Kbps	23.20	23.17	23.48	23.50
HSDPA Subtest-1	22.27	22.14	22.42	22.50
HSDPA Subtest-2	22.20	22.07	22.33	22.50
HSDPA Subtest-3	21.67	21.61	21.84	22.50
HSDPA Subtest-4	21.69	21.53	21.84	22.50
HSUPA Subtest-1	20.23	20.10	20.42	21.50
HSUPA Subtest-2	20.20	20.11	20.39	21.50
HSUPA Subtest-3	21.23	21.12	21.40	21.50
HSUPA Subtest-4	19.76	19.66	19.94	20.00
HSUPA Subtest-5	21.21	21.11	21.39	22.50

8.3 LTE Output Power

LTE B2-Full Power -Ant.0							
Bandwidth (MHz)	RB Size	RB offset	Modulation	18607	18900	19193	Tune-up power(dBm)
1.4	1	LOW	QPSK	23.08	23.32	22.99	24.00
		MID	QPSK	23.22	23.54	23.16	24.00
		HIGH	QPSK	23.01	23.32	23.02	24.00
	3	LOW	QPSK	23.19	23.39	23.11	24.00
		MID	QPSK	23.15	23.44	23.16	24.00
		HIGH	QPSK	23.10	23.50	23.08	24.00
	6	LOW	QPSK	22.09	22.38	22.02	23.00
	1.4	LOW	Q16	22.19	22.65	22.02	23.00
		MID	Q16	22.34	22.77	22.17	23.00
		HIGH	Q16	22.17	22.64	22.05	23.00
		LOW	Q16	22.21	22.52	22.26	23.00
		MID	Q16	22.16	22.57	22.25	23.00
		HIGH	Q16	22.15	22.55	22.26	23.00
1.4	6	LOW	Q16	21.28	21.33	21.27	22.00
	1	LOW	64QAM	21.18	21.57	20.98	22.00
		MID	64QAM	21.20	21.69	21.25	22.00
		HIGH	64QAM	21.31	21.78	20.92	22.00
	3	LOW	64QAM	21.34	21.61	21.18	22.00
		MID	64QAM	21.18	21.71	21.11	22.00
		HIGH	64QAM	21.28	21.67	21.17	22.00
	6	LOW	64QAM	20.32	20.21	20.34	21.00
Bandwidth (MHz)	RB Size	RB offset	Modulation	18615	18900	19185	Tune-up power(dBm)
3	1	LOW	QPSK	23.13	23.35	23.03	24.00
		MID	QPSK	23.04	23.39	23.06	24.00
		HIGH	QPSK	22.95	23.34	23.03	24.00
	8	LOW	QPSK	22.12	22.37	22.04	23.00
		MID	QPSK	22.07	22.42	22.09	23.00
		HIGH	QPSK	22.03	22.39	22.03	23.00
	15	LOW	QPSK	22.06	22.36	22.08	23.00
	3	LOW	Q16	22.03	22.62	22.07	23.00
		MID	Q16	21.98	22.71	22.08	23.00
		HIGH	Q16	21.93	22.68	22.03	23.00
		LOW	Q16	21.26	21.44	21.12	22.00
		MID	Q16	21.27	21.46	21.11	22.00
		HIGH	Q16	21.20	21.44	21.06	22.00
3	15	LOW	Q16	21.19	21.42	21.01	22.00
	1	LOW	64QAM	21.48	21.23	21.12	22.00
		MID	64QAM	21.53	21.94	21.51	22.00
		HIGH	64QAM	21.29	21.25	21.24	22.00
	8	LOW	64QAM	19.87	20.54	19.96	21.00
		MID	64QAM	19.98	20.51	20.09	21.00
		HIGH	64QAM	20.18	20.31	19.75	21.00
	15	LOW	64QAM	19.90	20.34	19.87	21.00
Bandwidth (MHz)	RB Size	RB offset	Modulation	18625	18900	19175	Tune-up power(dBm)
5	1	LOW	QPSK	23.03	23.28	22.84	24.00
		MID	QPSK	23.08	23.41	23.04	24.00
		HIGH	QPSK	22.86	23.26	22.93	24.00
	12	LOW	QPSK	22.10	22.36	22.06	23.00
		MID	QPSK	22.12	22.42	22.09	23.00
		HIGH	QPSK	22.04	22.35	22.02	23.00
	25	LOW	QPSK	22.03	22.37	22.03	23.00
	5	LOW	Q16	22.16	22.68	21.98	23.00
		MID	Q16	22.24	22.87	22.19	23.00
		HIGH	Q16	22.07	22.70	22.02	23.00
		LOW	Q16	21.16	21.47	21.12	22.00
		MID	Q16	21.24	21.51	21.16	22.00
		HIGH	Q16	21.15	21.45	21.08	22.00
5	25	LOW	Q16	21.14	21.41	21.02	22.00
	1	LOW	64QAM	21.44	21.28	21.05	22.00
		MID	64QAM	21.54	21.85	21.42	22.00
		HIGH	64QAM	21.38	21.44	21.15	22.00
	12	LOW	64QAM	19.84	20.62	19.90	21.00
		MID	64QAM	20.01	20.35	20.17	21.00
		HIGH	64QAM	19.98	20.13	19.70	21.00
	25	LOW	64QAM	19.77	20.64	20.09	21.00

LTE B2-Full Power -Ant.0							
Bandwidth (MHz)	RB Size	RB offset	Modulation	18650	18900	19150	Tune-up power(dBm)
10	1	LOW	QPSK	23.07	23.32	22.91	24.00
		MID	QPSK	23.07	23.50	23.16	24.00
		HIGH	QPSK	22.72	23.25	22.99	24.00
	25	LOW	QPSK	22.05	22.43	22.06	23.00
		MID	QPSK	22.02	22.41	22.02	23.00
		HIGH	QPSK	21.98	22.30	21.96	23.00
	50	LOW	QPSK	21.99	22.35	22.02	23.00
	10	LOW	Q16	22.03	22.56	21.90	23.00
		MID	Q16	22.04	22.83	22.16	23.00
		HIGH	Q16	21.70	22.61	21.99	23.00
10	1	LOW	Q16	21.17	21.44	21.23	22.00
		MID	Q16	21.07	21.45	21.09	22.00
		HIGH	Q16	21.07	21.37	21.02	22.00
	25	LOW	Q16	21.07	21.38	21.06	22.00
		MID	Q16	21.07	21.38	21.06	22.00
		HIGH	Q16	21.07	21.38	21.06	22.00
	50	LOW	Q16	21.07	21.38	21.06	22.00
10	1	LOW	64QAM	21.37	21.47	21.08	22.00
		MID	64QAM	21.43	21.95	21.42	22.00
		HIGH	64QAM	21.27	21.31	21.32	22.00
	25	LOW	64QAM	19.93	20.45	20.09	21.00
		MID	64QAM	19.92	20.41	20.22	21.00
		HIGH	64QAM	20.18	20.18	19.63	21.00
	50	LOW	64QAM	19.96	20.39	19.98	21.00
Bandwidth (MHz)	RB Size	RB offset	Modulation	18675	18900	19125	Tune-up power(dBm)
15	1	LOW	QPSK	22.96	23.17	22.91	24.00
		MID	QPSK	22.92	23.43	23.04	24.00
		HIGH	QPSK	22.64	23.05	22.86	24.00
	36	LOW	QPSK	22.04	22.48	21.98	23.00
		MID	QPSK	22.03	22.52	22.08	23.00
		HIGH	QPSK	21.93	22.35	21.95	23.00
	75	LOW	QPSK	21.99	22.44	21.99	23.00
	15	LOW	Q16	21.91	22.44	22.31	23.00
		MID	Q16	21.88	22.74	22.36	23.00
		HIGH	Q16	21.52	22.42	22.27	23.00
15	1	LOW	Q16	21.05	21.45	20.95	22.00
		MID	Q16	20.99	21.50	21.01	22.00
		HIGH	Q16	20.93	21.39	20.83	22.00
	36	LOW	Q16	21.02	21.41	20.95	22.00
		MID	Q16	21.02	21.41	20.95	22.00
		HIGH	Q16	21.02	21.41	20.95	22.00
	75	LOW	Q16	21.02	21.41	20.95	22.00
15	1	LOW	64QAM	21.52	21.30	21.21	22.00
		MID	64QAM	21.34	21.92	21.60	22.00
		HIGH	64QAM	21.22	21.38	21.20	22.00
	36	LOW	64QAM	19.82	20.37	19.94	21.00
		MID	64QAM	19.96	20.39	20.19	21.00
		HIGH	64QAM	20.15	20.28	19.53	21.00
	75	LOW	64QAM	19.93	20.51	19.97	21.00
Bandwidth (MHz)	RB Size	RB offset	Modulation	18700	18900	19100	Tune-up power(dBm)
20	1	LOW	QPSK	22.87	22.95	22.83	24.00
		MID	QPSK	23.06	23.65	23.11	24.00
		HIGH	QPSK	22.68	22.92	22.67	24.00
	50	LOW	QPSK	21.92	22.37	21.91	23.00
		MID	QPSK	21.96	22.42	22.01	23.00
		HIGH	QPSK	21.93	22.21	21.70	23.00
	100	LOW	QPSK	21.92	22.34	21.83	23.00
	20	LOW	Q16	22.34	22.25	22.26	23.00
		MID	Q16	22.51	22.94	22.45	23.00
		HIGH	Q16	22.11	22.31	22.11	23.00
20	1	LOW	Q16	20.97	21.40	20.91	22.00
		MID	Q16	21.03	21.41	21.03	22.00
		HIGH	Q16	21.00	21.21	20.67	22.00
	50	LOW	Q16	21.02	21.34	20.86	22.00
		MID	Q16	21.02	21.34	20.86	22.00
		HIGH	Q16	21.02	21.34	20.86	22.00
	100	LOW	Q16	21.02	21.34	20.86	22.00
20	1	LOW	64QAM	21.46	21.37	21.14	22.00
		MID	64QAM	21.44	21.97	21.51	22.00
		HIGH	64QAM	21.25	21.40	21.23	22.00
	50	LOW	64QAM	19.90	20.50	19.97	21.00
		MID	64QAM	19.95	20.37	20.07	21.00
		HIGH	64QAM	20.09	20.23	19.68	21.00
	100	LOW	64QAM	19.87	20.49	19.96	21.00

LTE B4-Full Power -Ant.0							
Bandwidth (MHz)	RB Size	RB offset	Modulation	19957	20175	20393	Tune-up power(dBm)
1.4	1	LOW	QPSK	22.97	22.58	22.85	23.50
		MID	QPSK	23.11	22.79	23.09	23.50
		HIGH	QPSK	23.00	22.56	22.90	23.50
	3	LOW	QPSK	23.05	22.68	23.02	23.50
		MID	QPSK	23.07	22.73	23.07	23.50
		HIGH	QPSK	22.95	22.67	23.03	23.50
	6	LOW	QPSK	22.17	21.68	21.96	22.50
1.4	1	LOW	Q16	21.97	22.01	21.93	22.50
		MID	Q16	22.15	22.18	22.13	22.50
		HIGH	Q16	22.02	21.98	21.93	22.50
	3	LOW	Q16	22.05	21.42	22.15	22.50
		MID	Q16	22.07	21.89	22.21	22.50
		HIGH	Q16	22.05	21.89	22.16	22.50
	6	LOW	Q16	21.20	20.58	21.16	21.50
1.4	1	LOW	64QAM	21.01	21.02	21.00	21.50
		MID	64QAM	21.20	21.15	21.13	21.50
		HIGH	64QAM	20.87	20.99	21.06	21.50
	3	LOW	64QAM	21.06	20.95	21.11	21.50
		MID	64QAM	21.05	20.92	21.29	21.50
		HIGH	64QAM	21.15	20.88	21.31	21.50
	6	LOW	64QAM	20.13	19.71	20.06	20.50
Bandwidth (MHz)	RB Size	RB offset	Modulation	19965	20175	20385	Tune-up power(dBm)
3	1	LOW	QPSK	23.05	22.64	22.91	23.50
		MID	QPSK	23.07	22.59	22.89	23.50
		HIGH	QPSK	23.07	22.58	22.90	23.50
	8	LOW	QPSK	22.13	21.68	21.90	22.50
		MID	QPSK	22.16	21.70	21.98	22.50
		HIGH	QPSK	22.11	21.67	21.94	22.50
	15	LOW	QPSK	22.12	21.66	21.91	22.50
3	1	LOW	Q16	21.91	22.02	21.94	22.50
		MID	Q16	21.89	22.04	21.93	22.50
		HIGH	Q16	21.93	22.01	21.93	22.50
	8	LOW	Q16	21.15	20.76	21.01	21.50
		MID	Q16	21.22	20.80	21.06	21.50
		HIGH	Q16	21.18	20.74	21.00	21.50
	15	LOW	Q16	21.09	20.68	20.95	21.50
3	1	LOW	64QAM	21.05	21.13	20.71	21.50
		MID	64QAM	21.42	21.26	21.41	21.50
		HIGH	64QAM	20.73	20.71	20.80	21.50
	8	LOW	64QAM	20.19	19.67	19.55	20.50
		MID	64QAM	20.08	19.84	19.88	20.50
		HIGH	64QAM	19.59	19.55	19.67	20.50
	15	LOW	64QAM	20.08	19.74	19.89	20.50
Bandwidth (MHz)	RB Size	RB offset	Modulation	19975	20175	20375	Tune-up power(dBm)
5	1	LOW	QPSK	22.87	22.55	22.69	23.50
		MID	QPSK	23.12	22.69	22.94	23.50
		HIGH	QPSK	22.97	22.50	22.83	23.50
	12	LOW	QPSK	22.03	21.70	21.90	22.50
		MID	QPSK	22.11	21.72	21.95	22.50
		HIGH	QPSK	22.09	21.65	21.91	22.50
	25	LOW	QPSK	22.06	21.66	21.90	22.50
5	1	LOW	Q16	22.00	22.09	21.86	22.50
		MID	Q16	22.22	22.20	22.05	22.50
		HIGH	Q16	22.04	22.03	21.94	22.50
	12	LOW	Q16	21.04	20.83	20.98	21.50
		MID	Q16	21.12	20.85	21.05	21.50
		HIGH	Q16	21.15	20.80	21.04	21.50
	25	LOW	Q16	21.07	20.78	20.91	21.50
5	1	LOW	64QAM	21.04	20.99	20.75	21.50
		MID	64QAM	21.41	21.06	21.40	21.50
		HIGH	64QAM	21.01	20.66	20.70	21.50
	12	LOW	64QAM	20.19	19.72	19.57	20.50
		MID	64QAM	20.24	19.77	19.86	20.50
		HIGH	64QAM	19.70	19.61	19.78	20.50
	25	LOW	64QAM	20.10	19.66	19.75	20.50

LTE B4-Full Power -Ant.0							
Bandwidth (MHz)	RB Size	RB offset	Modulation	20000	20175	20350	Tune-up power(dBm)
10	1	LOW	QPSK	22.98	22.69	22.71	23.50
		MID	QPSK	23.28	22.79	23.05	23.50
		HIGH	QPSK	22.89	22.51	22.83	23.50
	25	LOW	QPSK	22.11	21.76	21.83	22.50
		MID	QPSK	22.09	21.72	21.89	22.50
		HIGH	QPSK	22.10	21.68	21.89	22.50
	50	LOW	QPSK	22.06	21.73	21.88	22.50
10	1	LOW	Q16	21.83	22.12	21.76	22.50
		MID	Q16	22.11	22.20	22.01	22.50
		HIGH	Q16	21.76	21.96	21.88	22.50
	25	LOW	Q16	21.08	20.84	21.01	21.50
		MID	Q16	21.14	20.79	21.00	21.50
		HIGH	Q16	21.14	20.72	21.03	21.50
	50	LOW	Q16	21.12	20.81	20.99	21.50
10	1	LOW	64QAM	21.06	21.22	20.78	21.50
		MID	64QAM	21.43	21.05	21.35	21.50
		HIGH	64QAM	20.91	20.79	20.87	21.50
	25	LOW	64QAM	20.27	19.68	19.64	20.50
		MID	64QAM	20.27	19.71	19.75	20.50
		HIGH	64QAM	19.69	19.51	19.91	20.50
	50	LOW	64QAM	19.92	19.61	19.71	20.50
Bandwidth (MHz)	RB Size	RB offset	Modulation	20025	20175	20325	Tune-up power(dBm)
15	1	LOW	QPSK	22.92	22.75	22.50	23.50
		MID	QPSK	23.10	22.62	22.81	23.50
		HIGH	QPSK	22.57	22.35	22.69	23.50
	36	LOW	QPSK	22.17	21.81	21.82	22.50
		MID	QPSK	22.18	21.73	21.88	22.50
		HIGH	QPSK	22.03	21.66	21.87	22.50
	75	LOW	QPSK	22.09	21.72	21.82	22.50
15	1	LOW	Q16	21.77	22.14	22.00	22.50
		MID	Q16	21.96	22.05	22.21	22.50
		HIGH	Q16	21.55	21.81	22.14	22.50
	36	LOW	Q16	21.08	20.85	20.75	21.50
		MID	Q16	21.13	20.79	20.87	21.50
		HIGH	Q16	20.96	20.66	20.85	21.50
	75	LOW	Q16	21.04	20.75	20.83	21.50
15	1	LOW	64QAM	21.07	21.18	20.72	21.50
		MID	64QAM	21.45	21.12	21.47	21.50
		HIGH	64QAM	20.99	20.61	20.78	21.50
	36	LOW	64QAM	20.10	19.71	19.45	20.50
		MID	64QAM	20.22	19.68	19.74	20.50
		HIGH	64QAM	19.74	19.44	19.67	20.50
	75	LOW	64QAM	20.06	19.50	19.88	20.50
Bandwidth (MHz)	RB Size	RB offset	Modulation	20050	20175	20300	Tune-up power(dBm)
20	1	LOW	QPSK	22.74	22.70	22.26	23.50
		MID	QPSK	23.16	22.83	22.93	23.50
		HIGH	QPSK	22.29	22.27	22.50	23.50
	50	LOW	QPSK	22.03	21.82	21.70	22.50
		MID	QPSK	21.97	21.74	21.80	22.50
		HIGH	QPSK	21.76	21.55	21.71	22.50
	100	LOW	QPSK	21.95	21.69	21.76	22.50
20	1	LOW	Q16	22.22	22.11	21.79	22.50
		MID	Q16	22.49	22.28	22.36	22.50
		HIGH	Q16	21.81	21.74	21.94	22.50
	50	LOW	Q16	21.13	20.86	20.67	21.50
		MID	Q16	21.04	20.76	20.79	21.50
		HIGH	Q16	20.84	20.60	20.77	21.50
	100	LOW	Q16	20.98	20.76	20.78	21.50
20	1	LOW	64QAM	21.19	21.11	20.86	21.50
		MID	64QAM	21.47	21.16	21.44	21.50
		HIGH	64QAM	20.88	20.76	20.82	21.50
	50	LOW	64QAM	20.15	19.81	19.56	20.50
		MID	64QAM	20.16	19.73	19.73	20.50
		HIGH	64QAM	19.73	19.48	19.80	20.50
	100	LOW	64QAM	20.06	19.63	19.81	20.50

LTE B5-Full Power -Ant.0							
Bandwidth (MHz)	RB Size	RB offset	Modulation	20407	20525	20643	Tune-up power(dBm)
1.4	1	LOW	QPSK	22.79	22.62	22.89	23.50
		MID	QPSK	22.89	22.80	23.17	23.50
		HIGH	QPSK	22.75	22.62	22.97	23.50
	3	LOW	QPSK	22.86	22.68	23.01	23.50
		MID	QPSK	22.84	22.74	23.07	23.50
		HIGH	QPSK	22.77	22.76	22.99	23.50
	6	LOW	QPSK	21.77	21.67	22.01	22.50
1.4	1	LOW	Q16	21.86	22.04	21.95	22.50
		MID	Q16	22.01	22.14	22.13	22.50
		HIGH	Q16	21.84	22.02	21.86	22.50
	3	LOW	Q16	21.87	21.89	22.12	22.50
		MID	Q16	21.85	21.92	22.16	22.50
		HIGH	Q16	21.79	21.88	22.08	22.50
	6	LOW	Q16	20.97	20.62	21.14	21.50
1.4	1	LOW	64QAM	20.85	21.04	21.00	21.50
		MID	64QAM	21.13	21.26	21.07	21.50
		HIGH	64QAM	20.94	21.11	20.79	21.50
	3	LOW	64QAM	20.92	20.93	21.27	21.50
		MID	64QAM	20.73	20.97	21.24	21.50
		HIGH	64QAM	20.66	21.01	21.15	21.50
	6	LOW	64QAM	19.90	19.59	20.05	20.50
Bandwidth (MHz)	RB Size	RB offset	Modulation	20415	20525	20635	Tune-up power(dBm)
3	1	LOW	QPSK	22.71	22.66	22.93	23.50
		MID	QPSK	22.62	22.60	22.94	23.50
		HIGH	QPSK	22.61	22.62	23.02	23.50
	8	LOW	QPSK	21.72	21.63	21.95	22.50
		MID	QPSK	21.76	21.68	21.99	22.50
		HIGH	QPSK	21.73	21.58	21.92	22.50
	15	LOW	QPSK	21.70	21.62	21.95	22.50
3	1	LOW	Q16	21.69	22.01	21.91	22.50
		MID	Q16	21.67	22.03	21.94	22.50
		HIGH	Q16	21.61	22.06	21.87	22.50
	8	LOW	Q16	20.88	20.79	21.06	21.50
		MID	Q16	20.91	20.82	21.08	21.50
		HIGH	Q16	20.85	20.76	20.99	21.50
	15	LOW	Q16	20.82	20.72	20.95	21.50
3	1	LOW	64QAM	20.67	20.89	20.59	21.50
		MID	64QAM	20.51	21.12	21.01	21.50
		HIGH	64QAM	20.33	21.03	20.87	21.50
	8	LOW	64QAM	19.52	19.93	19.58	20.50
		MID	64QAM	19.96	19.98	19.99	20.50
		HIGH	64QAM	19.74	19.87	19.61	20.50
	15	LOW	64QAM	19.59	20.04	19.61	20.50

LTE B5-Full Power -Ant.0							
Bandwidth (MHz)	RB Size	RB offset	Modulation	20425	20525	20625	Tune-up power(dBm)
5	1	LOW	QPSK	22.64	22.54	22.71	23.50
		MID	QPSK	22.74	22.65	22.90	23.50
		HIGH	QPSK	22.57	22.60	22.88	23.50
	12	LOW	QPSK	21.66	21.73	21.91	22.50
		MID	QPSK	21.77	21.66	21.93	22.50
		HIGH	QPSK	21.82	21.57	21.82	22.50
25	LOW	QPSK	21.70	21.65	21.88	22.50	
5	1	LOW	Q16	21.86	22.02	21.79	22.50
		MID	Q16	21.95	22.16	22.03	22.50
		HIGH	Q16	21.75	22.05	21.92	22.50
	12	LOW	Q16	20.78	20.87	21.00	21.50
		MID	Q16	20.89	20.82	21.02	21.50
		HIGH	Q16	20.87	20.77	20.86	21.50
25	LOW	Q16	20.86	20.76	20.93	21.50	
5	1	LOW	64QAM	20.50	20.91	20.76	21.50
		MID	64QAM	20.55	21.15	20.82	21.50
		HIGH	64QAM	20.23	20.97	20.99	21.50
	12	LOW	64QAM	19.72	19.99	19.61	20.50
		MID	64QAM	19.85	19.78	19.90	20.50
		HIGH	64QAM	19.71	19.87	19.73	20.50
25	LOW	64QAM	19.71	19.93	19.63	20.50	
Bandwidth (MHz)	RB Size	RB offset	Modulation	20450	20525	20600	Tune-up power(dBm)
10	1	LOW	QPSK	22.65	22.55	22.67	23.50
		MID	QPSK	22.80	22.69	22.93	23.50
		HIGH	QPSK	22.53	22.64	22.90	23.50
	25	LOW	QPSK	21.59	21.82	21.64	22.50
		MID	QPSK	21.69	21.68	21.80	22.50
		HIGH	QPSK	21.73	21.67	21.68	22.50
50	LOW	QPSK	21.71	21.68	21.58	22.50	
10	1	LOW	Q16	21.68	21.92	21.72	22.50
		MID	Q16	21.77	22.13	21.96	22.50
		HIGH	Q16	21.46	21.97	21.85	22.50
	25	LOW	Q16	20.68	20.86	20.79	21.50
		MID	Q16	20.75	20.75	20.94	21.50
		HIGH	Q16	20.86	20.77	20.76	21.50
50	LOW	Q16	20.69	20.79	20.69	21.50	
10	1	LOW	64QAM	20.54	20.98	20.66	21.50
		MID	64QAM	20.62	21.23	20.87	21.50
		HIGH	64QAM	20.38	20.96	20.95	21.50
	25	LOW	64QAM	19.64	19.92	19.71	20.50
		MID	64QAM	19.83	19.85	20.05	20.50
		HIGH	64QAM	19.82	19.81	19.65	20.50
50	LOW	64QAM	19.65	19.92	19.69	20.50	

LTE B7-Full Power -Ant.0							
Bandwidth (MHz)	RB Size	RB offset	Modulation	20775	21100	21425	Tune-up power(dBm)
5	1	LOW	QPSK	23.07	22.99	22.85	23.50
		MID	QPSK	23.26	22.97	22.84	23.50
		HIGH	QPSK	23.09	22.62	22.65	23.50
	12	LOW	QPSK	22.17	21.63	21.79	22.50
		MID	QPSK	22.17	21.72	21.86	22.50
		HIGH	QPSK	22.13	21.67	21.71	22.50
	25	LOW	QPSK	22.01	21.73	21.78	22.50
5	1	LOW	Q16	21.87	21.95	21.81	22.50
		MID	Q16	22.07	22.16	21.89	22.50
		HIGH	Q16	21.92	22.05	21.74	22.50
	12	LOW	Q16	20.80	20.80	20.83	21.50
		MID	Q16	21.01	20.81	20.88	21.50
		HIGH	Q16	20.91	20.80	20.74	21.50
	25	LOW	Q16	20.85	20.74	20.75	21.50
5	1	LOW	64QAM	20.81	20.45	20.90	21.50
		MID	64QAM	21.40	21.17	21.34	21.50
		HIGH	64QAM	20.64	20.86	20.64	21.50
	12	LOW	64QAM	19.84	19.78	19.68	20.50
		MID	64QAM	19.89	19.74	19.70	20.50
		HIGH	64QAM	19.67	19.66	19.62	20.50
	25	LOW	64QAM	19.42	19.70	19.73	20.50
Bandwidth (MHz)	RB Size	RB offset	Modulation	20800	21100	21400	Tune-up power(dBm)
10	1	LOW	QPSK	23.03	22.60	22.77	23.50
		MID	QPSK	23.05	22.77	23.06	23.50
		HIGH	QPSK	22.68	22.67	22.66	23.50
	25	LOW	QPSK	21.77	21.66	21.89	22.50
		MID	QPSK	21.77	21.67	21.79	22.50
		HIGH	QPSK	21.71	21.66	21.72	22.50
	50	LOW	QPSK	21.78	21.62	21.81	22.50
10	1	LOW	Q16	21.56	21.83	21.73	22.50
		MID	Q16	21.79	22.10	21.93	22.50
		HIGH	Q16	21.50	22.00	21.61	22.50
	25	LOW	Q16	20.75	20.67	20.94	21.50
		MID	Q16	20.79	20.70	20.88	21.50
		HIGH	Q16	20.73	20.68	20.84	21.50
	50	LOW	Q16	20.68	20.63	20.85	21.50
10	1	LOW	64QAM	20.71	20.62	21.01	21.50
		MID	64QAM	21.47	21.05	21.47	21.50
		HIGH	64QAM	20.50	21.11	20.52	21.50
	25	LOW	64QAM	19.78	19.64	19.68	20.50
		MID	64QAM	19.69	19.70	19.98	20.50
		HIGH	64QAM	19.62	19.61	19.42	20.50
	50	LOW	64QAM	19.59	19.64	19.76	20.50

LTE B7-Full Power -Ant.0							
Bandwidth (MHz)	RB Size	RB offset	Modulation	20825	21100	21375	Tune-up power(dBm)
15	1	LOW	QPSK	22.95	22.51	22.71	23.50
		MID	QPSK	22.83	22.67	22.87	23.50
		HIGH	QPSK	22.45	22.59	22.54	23.50
	36	LOW	QPSK	21.89	21.74	21.92	22.50
		MID	QPSK	21.81	21.78	21.93	22.50
		HIGH	QPSK	21.72	21.72	21.83	22.50
	75	LOW	QPSK	21.77	21.75	21.83	22.50
15	1	LOW	Q16	21.51	21.71	22.05	22.50
		MID	Q16	21.65	21.99	22.14	22.50
		HIGH	Q16	21.25	21.90	21.82	22.50
	36	LOW	Q16	20.73	20.66	20.84	21.50
		MID	Q16	20.76	20.77	20.79	21.50
		HIGH	Q16	20.69	20.75	20.72	21.50
	75	LOW	Q16	20.73	20.71	20.79	21.50
15	1	LOW	64QAM	20.77	20.58	20.93	21.50
		MID	64QAM	21.28	21.15	21.34	21.50
		HIGH	64QAM	20.65	21.08	20.60	21.50
	36	LOW	64QAM	19.87	19.85	19.72	20.50
		MID	64QAM	19.89	19.87	19.84	20.50
		HIGH	64QAM	19.70	19.56	19.39	20.50
	75	LOW	64QAM	19.65	19.54	19.71	20.50
Bandwidth (MHz)	RB Size	RB offset	Modulation	20850	21100	21350	Tune-up power(dBm)
20	1	LOW	QPSK	22.47	22.26	22.54	23.50
		MID	QPSK	22.82	22.92	22.92	23.50
		HIGH	QPSK	22.16	22.49	22.32	23.50
	50	LOW	QPSK	21.70	21.61	21.80	22.50
		MID	QPSK	21.70	21.71	21.77	22.50
		HIGH	QPSK	21.56	21.66	21.58	22.50
	100	LOW	QPSK	21.63	21.65	21.70	22.50
20	1	LOW	Q16	21.96	21.58	21.89	22.50
		MID	Q16	22.26	22.18	22.26	22.50
		HIGH	Q16	21.62	21.87	21.71	22.50
	50	LOW	Q16	20.74	20.66	20.83	21.50
		MID	Q16	20.72	20.71	20.77	21.50
		HIGH	Q16	20.62	20.67	20.53	21.50
	100	LOW	Q16	20.69	20.63	20.75	21.50
20	1	LOW	64QAM	20.84	20.50	20.95	21.50
		MID	64QAM	21.38	21.14	21.32	21.50
		HIGH	64QAM	20.54	20.96	20.65	21.50
	50	LOW	64QAM	19.81	19.76	19.83	20.50
		MID	64QAM	19.81	19.73	19.84	20.50
		HIGH	64QAM	19.60	19.53	19.53	20.50
	100	LOW	64QAM	19.54	19.68	19.66	20.50

LTE B26-Full Power -Ant.0							
Bandwidth (MHz)	RB Size	RB offset	Modulation	26697	26865	27033	Tune-up power(dBm)
1.4	1	LOW	QPSK	22.78	22.28	22.48	23.00
		MID	QPSK	22.86	22.50	22.74	23.00
		HIGH	QPSK	22.72	22.36	22.40	23.00
	3	LOW	QPSK	22.79	22.27	22.44	23.00
		MID	QPSK	22.91	22.29	22.57	23.00
		HIGH	QPSK	22.79	22.28	22.46	23.00
	6	LOW	QPSK	21.80	21.14	21.41	22.00
1.4	1	LOW	Q16	21.80	21.53	21.49	22.00
		MID	Q16	21.82	21.75	21.65	22.00
		HIGH	Q16	21.63	21.50	21.37	22.00
	3	LOW	Q16	21.51	21.36	21.65	22.00
		MID	Q16	21.50	21.36	21.70	22.00
		HIGH	Q16	21.42	21.41	21.66	22.00
	6	LOW	Q16	20.52	20.08	20.66	21.00
1.4	1	LOW	64QAM	20.79	20.41	20.35	21.00
		MID	64QAM	20.70	20.76	20.67	21.00
		HIGH	64QAM	20.60	20.56	20.51	21.00
	3	LOW	64QAM	20.44	20.24	20.76	21.00
		MID	64QAM	20.45	20.45	20.70	21.00
		HIGH	64QAM	20.41	20.48	20.59	21.00
	6	LOW	64QAM	19.57	19.13	19.65	20.00
Bandwidth (MHz)	RB Size	RB offset	Modulation	26715	26865	27015	Tune-up power(dBm)
3	1	LOW	QPSK	22.42	22.14	22.35	23.00
		MID	QPSK	22.21	22.19	22.39	23.00
		HIGH	QPSK	22.07	22.08	22.44	23.00
	8	LOW	QPSK	21.24	21.20	21.41	22.00
		MID	QPSK	21.31	21.18	21.52	22.00
		HIGH	QPSK	21.29	21.16	21.40	22.00
	15	LOW	QPSK	21.26	21.11	21.49	22.00
3	1	LOW	Q16	21.32	21.46	21.49	22.00
		MID	Q16	21.13	21.56	21.54	22.00
		HIGH	Q16	21.11	21.56	21.47	22.00
	8	LOW	Q16	20.49	20.32	20.59	21.00
		MID	Q16	20.43	20.38	20.68	21.00
		HIGH	Q16	20.33	20.31	20.47	21.00
	15	LOW	Q16	20.40	20.20	20.52	21.00
3	1	LOW	64QAM	20.27	20.43	20.54	21.00
		MID	64QAM	20.04	20.73	20.87	21.00
		HIGH	64QAM	19.97	20.29	20.64	21.00
	8	LOW	64QAM	18.93	19.24	19.53	20.00
		MID	64QAM	19.40	19.38	19.26	20.00
		HIGH	64QAM	19.08	19.37	19.12	20.00
	15	LOW	64QAM	19.04	19.19	19.18	20.00
Bandwidth (MHz)	RB Size	RB offset	Modulation	26715	26865	27015	Tune-up power(dBm)
5	1	LOW	QPSK	22.40	22.11	22.12	23.00
		MID	QPSK	22.39	22.29	22.38	23.00
		HIGH	QPSK	22.16	22.18	22.31	23.00
	12	LOW	QPSK	21.15	21.18	21.39	22.00
		MID	QPSK	21.31	21.11	21.48	22.00
		HIGH	QPSK	21.23	21.11	21.37	22.00
	25	LOW	QPSK	21.27	21.14	21.38	22.00
5	1	LOW	Q16	21.32	21.54	21.20	22.00
		MID	Q16	21.41	21.75	21.61	22.00
		HIGH	Q16	21.21	21.62	21.43	22.00
	12	LOW	Q16	20.35	20.27	20.48	21.00
		MID	Q16	20.39	20.36	20.61	21.00
		HIGH	Q16	20.36	20.33	20.43	21.00
	25	LOW	Q16	20.37	20.31	20.51	21.00
5	1	LOW	64QAM	20.32	20.39	20.50	21.00
		MID	64QAM	20.04	20.76	20.80	21.00
		HIGH	64QAM	19.94	20.24	20.65	21.00
	12	LOW	64QAM	18.93	19.44	19.32	20.00
		MID	64QAM	19.23	19.30	19.43	20.00
		HIGH	64QAM	18.93	19.14	19.21	20.00
	25	LOW	64QAM	19.16	19.34	19.29	20.00

LTE B26-Full Power -Ant.0							
Bandwidth (MHz)	RB Size	RB offset	Modulation	26740	26865	26990	Tune-up power(dBm)
10	1	LOW	QPSK	22.63	22.32	22.23	23.00
		MID	QPSK	22.69	22.38	22.36	23.00
		HIGH	QPSK	22.43	22.06	22.42	23.00
	25	LOW	QPSK	21.12	21.47	21.07	22.00
		MID	QPSK	21.26	21.28	21.29	22.00
		HIGH	QPSK	21.47	21.16	21.08	22.00
50	LOW	QPSK	21.23	21.22	21.04	22.00	
10	1	LOW	Q16	21.17	21.42	21.24	22.00
		MID	Q16	21.28	21.73	21.41	22.00
		HIGH	Q16	20.96	21.53	21.39	22.00
	25	LOW	Q16	20.20	20.40	20.35	21.00
		MID	Q16	20.33	20.33	20.54	21.00
		HIGH	Q16	20.30	20.31	20.23	21.00
50	LOW	Q16	20.28	20.25	20.19	21.00	
10	1	LOW	64QAM	20.11	20.16	20.70	21.00
		MID	64QAM	20.15	20.53	20.81	21.00
		HIGH	64QAM	19.86	20.42	20.83	21.00
	25	LOW	64QAM	19.15	19.26	19.41	20.00
		MID	64QAM	19.32	19.45	19.42	20.00
		HIGH	64QAM	18.87	19.32	19.11	20.00
50	LOW	64QAM	19.05	19.32	19.18	20.00	
Bandwidth (MHz)	RB Size	RB offset	Modulation	26765	26865	26965	Tune-up power(dBm)
15	1	LOW	QPSK	22.42	22.51	21.99	23.00
		MID	QPSK	22.33	22.19	22.17	23.00
		HIGH	QPSK	22.03	22.03	22.16	23.00
	36	LOW	QPSK	21.12	21.11	21.22	22.00
		MID	QPSK	21.30	21.16	21.32	22.00
		HIGH	QPSK	21.07	21.26	21.19	22.00
75	LOW	QPSK	21.00	21.15	21.33	22.00	
15	1	LOW	Q16	21.15	21.42	21.54	22.00
		MID	Q16	20.96	21.59	21.80	22.00
		HIGH	Q16	20.97	21.41	21.68	22.00
	36	LOW	Q16	20.14	20.20	20.26	21.00
		MID	Q16	20.19	20.21	20.35	21.00
		HIGH	Q16	19.94	20.30	20.22	21.00
75	LOW	Q16	19.97	20.21	20.21	21.00	
15	1	LOW	64QAM	20.20	20.28	20.63	21.00
		MID	64QAM	20.05	20.65	20.89	21.00
		HIGH	64QAM	19.97	20.35	20.69	21.00
	36	LOW	64QAM	19.04	19.35	19.39	20.00
		MID	64QAM	19.28	19.34	19.32	20.00
		HIGH	64QAM	18.95	19.24	19.07	20.00
75	LOW	64QAM	19.07	19.33	19.14	20.00	

LTE B66-Full Power -Ant.0							
Bandwidth (MHz)	RB Size	RB offset	Modulation	131979	132322	132665	Tune-up power(dBm)
1.4	1	LOW	QPSK	23.06	22.78	22.71	23.50
		MID	QPSK	23.30	22.99	22.93	23.50
		HIGH	QPSK	23.11	22.82	22.66	23.50
	3	LOW	QPSK	23.13	22.88	22.75	23.50
		MID	QPSK	23.19	22.96	22.82	23.50
		HIGH	QPSK	23.08	22.95	22.78	23.50
	6	LOW	QPSK	22.14	21.87	21.44	22.50
1.4	1	LOW	Q16	22.10	22.17	21.47	22.50
		MID	Q16	22.32	22.25	21.56	22.50
		HIGH	Q16	22.12	22.19	21.52	22.50
	3	LOW	Q16	22.11	22.12	21.64	22.50
		MID	Q16	22.14	22.08	21.69	22.50
		HIGH	Q16	22.18	22.11	21.56	22.50
	6	LOW	Q16	21.23	20.80	20.48	21.50
1.4	1	LOW	64QAM	21.18	21.27	20.36	21.50
		MID	64QAM	21.39	21.31	20.70	21.50
		HIGH	64QAM	21.26	21.33	20.54	21.50
	3	LOW	64QAM	21.18	21.21	20.62	21.50
		MID	64QAM	21.13	20.95	20.62	21.50
		HIGH	64QAM	21.24	21.01	20.65	21.50
	6	LOW	64QAM	20.22	19.91	19.49	20.50
Bandwidth (MHz)	RB Size	RB offset	Modulation	131987	132322	132657	Tune-up power(dBm)
3	1	LOW	QPSK	23.10	22.75	22.72	23.50
		MID	QPSK	23.11	22.78	22.72	23.50
		HIGH	QPSK	23.09	22.82	22.64	23.50
	8	LOW	QPSK	22.17	21.82	21.65	22.50
		MID	QPSK	22.20	21.84	21.74	22.50
		HIGH	QPSK	22.14	21.88	21.51	22.50
	15	LOW	QPSK	22.11	21.80	21.64	22.50
3	1	LOW	Q16	21.94	22.21	21.55	22.50
		MID	Q16	21.88	22.21	21.49	22.50
		HIGH	Q16	21.84	22.21	21.45	22.50
	8	LOW	Q16	21.21	20.94	20.42	21.50
		MID	Q16	21.24	20.97	20.65	21.50
		HIGH	Q16	21.21	20.95	20.40	21.50
	15	LOW	Q16	21.11	20.87	20.25	21.50
3	1	LOW	64QAM	21.22	20.70	20.91	21.50
		MID	64QAM	20.31	21.29	21.23	21.50
		HIGH	64QAM	20.78	20.92	20.58	21.50
	8	LOW	64QAM	20.32	19.88	19.60	20.50
		MID	64QAM	20.17	20.03	19.41	20.50
		HIGH	64QAM	20.02	19.82	19.10	20.50
	15	LOW	64QAM	20.16	19.80	19.77	20.50
Bandwidth (MHz)	RB Size	RB offset	Modulation	131997	132322	132647	Tune-up power(dBm)
5	1	LOW	QPSK	22.96	22.68	22.59	23.50
		MID	QPSK	23.16	22.85	22.76	23.50
		HIGH	QPSK	23.03	22.72	22.57	23.50
	12	LOW	QPSK	22.08	21.80	21.77	22.50
		MID	QPSK	22.14	21.84	21.74	22.50
		HIGH	QPSK	22.14	21.81	21.55	22.50
	25	LOW	QPSK	22.06	21.81	21.60	22.50
5	1	LOW	Q16	22.08	22.21	21.58	22.50
		MID	Q16	22.25	22.32	21.59	22.50
		HIGH	Q16	22.09	22.27	21.56	22.50
	12	LOW	Q16	21.12	20.96	20.60	21.50
		MID	Q16	21.21	21.03	20.58	21.50
		HIGH	Q16	21.18	21.00	20.37	21.50
	25	LOW	Q16	21.13	20.95	20.40	21.50
5	1	LOW	64QAM	21.34	20.83	21.02	21.50
		MID	64QAM	20.43	21.18	21.10	21.50
		HIGH	64QAM	20.95	21.03	20.53	21.50
	12	LOW	64QAM	20.13	19.99	19.46	20.50
		MID	64QAM	20.16	20.05	19.28	20.50
		HIGH	64QAM	20.02	19.87	18.91	20.50
	25	LOW	64QAM	20.09	20.00	19.74	20.50

LTE B66-Full Power -Ant.0							
Bandwidth (MHz)	RB Size	RB offset	Modulation	132022	132322	132622	Tune-up power(dBm)
10	1	LOW	QPSK	23.02	22.70	22.77	23.50
		MID	QPSK	23.31	22.93	22.89	23.50
		HIGH	QPSK	22.92	22.80	22.61	23.50
	25	LOW	QPSK	22.13	21.84	21.82	22.50
		MID	QPSK	22.14	21.88	21.70	22.50
		HIGH	QPSK	22.13	21.90	21.67	22.50
	50	LOW	QPSK	22.13	21.88	21.59	22.50
10	1	LOW	Q16	21.90	22.08	21.68	22.50
		MID	Q16	22.16	22.25	21.74	22.50
		HIGH	Q16	21.78	22.21	21.39	22.50
	25	LOW	Q16	21.19	20.93	20.86	21.50
		MID	Q16	21.22	20.97	20.56	21.50
		HIGH	Q16	21.21	20.99	20.48	21.50
	50	LOW	Q16	21.18	21.00	20.58	21.50
10	1	LOW	64QAM	21.31	20.85	20.86	21.50
		MID	64QAM	20.54	21.23	21.02	21.50
		HIGH	64QAM	20.84	21.04	20.35	21.50
	25	LOW	64QAM	20.40	19.74	19.73	20.50
		MID	64QAM	20.27	19.79	19.26	20.50
		HIGH	64QAM	19.83	19.92	19.05	20.50
	50	LOW	64QAM	20.05	19.98	19.78	20.50
Bandwidth (MHz)	RB Size	RB offset	Modulation	132047	132322	132597	Tune-up power(dBm)
15	1	LOW	QPSK	22.98	22.57	22.84	23.50
		MID	QPSK	23.06	22.82	22.79	23.50
		HIGH	QPSK	22.66	22.74	22.45	23.50
	36	LOW	QPSK	22.19	21.78	21.88	22.50
		MID	QPSK	22.22	21.85	21.84	22.50
		HIGH	QPSK	22.04	21.90	21.63	22.50
	75	LOW	QPSK	22.13	21.79	21.55	22.50
15	1	LOW	Q16	21.88	22.03	22.05	22.50
		MID	Q16	21.97	22.24	21.96	22.50
		HIGH	Q16	21.61	22.12	21.66	22.50
	36	LOW	Q16	21.14	20.83	20.67	21.50
		MID	Q16	21.18	20.94	20.59	21.50
		HIGH	Q16	21.01	20.93	20.28	21.50
	75	LOW	Q16	21.11	20.85	20.58	21.50
15	1	LOW	64QAM	21.37	20.79	21.12	21.50
		MID	64QAM	20.39	21.44	21.20	21.50
		HIGH	64QAM	20.88	21.12	20.40	21.50
	36	LOW	64QAM	20.31	19.92	19.47	20.50
		MID	64QAM	20.33	19.94	19.35	20.50
		HIGH	64QAM	19.84	19.94	19.06	20.50
	75	LOW	64QAM	19.93	20.02	19.67	20.50
Bandwidth (MHz)	RB Size	RB offset	Modulation	132072	132322	132572	Tune-up power(dBm)
20	1	LOW	QPSK	22.85	22.43	22.68	23.50
		MID	QPSK	23.27	23.00	22.93	23.50
		HIGH	QPSK	22.33	22.68	22.16	23.50
	50	LOW	QPSK	22.13	21.81	21.90	22.50
		MID	QPSK	22.06	21.86	21.68	22.50
		HIGH	QPSK	21.86	21.82	21.49	22.50
	100	LOW	QPSK	21.94	21.73	21.51	22.50
20	1	LOW	Q16	22.29	21.90	22.01	22.50
		MID	Q16	21.35	22.44	22.02	22.50
		HIGH	Q16	21.88	21.95	21.33	22.50
	50	LOW	Q16	21.19	20.83	20.61	21.50
		MID	Q16	21.12	20.92	20.52	21.50
		HIGH	Q16	20.89	20.72	20.09	21.50
	100	LOW	Q16	21.05	20.77	20.53	21.50
20	1	LOW	64QAM	21.37	20.80	20.98	21.50
		MID	64QAM	20.43	21.33	21.08	21.50
		HIGH	64QAM	20.89	21.00	20.46	21.50
	50	LOW	64QAM	20.27	19.85	19.60	20.50
		MID	64QAM	20.19	19.91	19.37	20.50
		HIGH	64QAM	19.96	19.84	19.01	20.50
	100	LOW	64QAM	20.06	19.88	19.66	20.50

LTE B38-Full Power -Ant.1							
Bandwidth (MHz)	RB Size	RB offset	Modulation	37775	38000	38225	Tune-up power(dBm)
5	1	LOW	QPSK	23.13	23.25	23.62	24.00
		MID	QPSK	23.75	23.71	23.97	24.00
		HIGH	QPSK	23.18	23.24	23.28	24.00
	12	LOW	QPSK	22.34	22.56	22.38	23.00
		MID	QPSK	22.39	22.71	22.64	23.00
		HIGH	QPSK	22.32	22.63	22.22	23.00
	25	LOW	QPSK	22.27	22.35	22.46	23.00
5	1	LOW	Q16	22.40	22.18	22.77	23.00
		MID	Q16	22.98	22.79	22.95	23.00
		HIGH	Q16	22.25	22.35	22.63	23.00
	12	LOW	Q16	21.11	21.42	21.53	22.00
		MID	Q16	21.60	21.38	21.55	22.00
		HIGH	Q16	21.32	21.66	21.44	22.00
	25	LOW	Q16	21.53	21.51	21.47	22.00
5	1	LOW	64QAM	21.24	21.30	21.76	22.00
		MID	64QAM	21.66	21.82	21.98	22.00
		HIGH	64QAM	21.30	21.34	21.47	22.00
	12	LOW	64QAM	20.23	20.48	20.77	21.00
		MID	64QAM	20.32	20.72	20.41	21.00
		HIGH	64QAM	20.38	20.41	20.36	21.00
	25	LOW	64QAM	20.59	20.28	20.39	21.00
Bandwidth (MHz)	RB Size	RB offset	Modulation	37800	38000	38200	Tune-up power(dBm)
10	1	LOW	QPSK	22.95	23.34	23.66	24.00
		MID	QPSK	23.73	23.73	23.93	24.00
		HIGH	QPSK	23.14	23.13	23.11	24.00
	25	LOW	QPSK	22.23	22.51	22.53	23.00
		MID	QPSK	22.19	22.77	22.41	23.00
		HIGH	QPSK	22.41	22.46	22.29	23.00
	50	LOW	QPSK	22.27	22.58	22.28	23.00
10	1	LOW	Q16	22.21	22.38	22.86	23.00
		MID	Q16	22.91	23.00	22.85	23.00
		HIGH	Q16	22.41	22.28	22.47	23.00
	25	LOW	Q16	21.35	21.56	21.49	22.00
		MID	Q16	21.47	21.55	21.63	22.00
		HIGH	Q16	21.16	21.49	21.53	22.00
	50	LOW	Q16	21.29	21.51	21.41	22.00
10	1	LOW	64QAM	21.28	21.32	21.54	22.00
		MID	64QAM	21.80	21.63	21.90	22.00
		HIGH	64QAM	21.21	21.50	21.45	22.00
	25	LOW	64QAM	20.40	20.43	20.83	21.00
		MID	64QAM	20.24	20.73	20.57	21.00
		HIGH	64QAM	20.31	20.43	20.52	21.00
	50	LOW	64QAM	20.42	20.24	20.46	21.00

LTE B38-Full Power -Ant.1							
Bandwidth (MHz)	RB Size	RB offset	Modulation	37825	38000	38175	Tune-up power(dBm)
15	1	LOW	QPSK	23.03	23.29	23.64	24.00
		MID	QPSK	23.58	23.97	23.86	24.00
		HIGH	QPSK	23.28	23.10	23.05	24.00
	36	LOW	QPSK	22.33	22.53	22.47	23.00
		MID	QPSK	22.19	22.69	22.42	23.00
		HIGH	QPSK	22.41	22.61	22.29	23.00
	75	LOW	QPSK	22.25	22.42	22.29	23.00
15	1	LOW	Q16	22.33	22.22	22.79	23.00
		MID	Q16	22.91	22.74	22.85	23.00
		HIGH	Q16	22.31	22.25	22.53	23.00
	36	LOW	Q16	21.33	21.53	21.65	22.00
		MID	Q16	21.40	21.57	21.45	22.00
		HIGH	Q16	21.22	21.51	21.34	22.00
	75	LOW	Q16	21.31	21.49	21.54	22.00
15	1	LOW	64QAM	21.00	21.17	21.69	22.00
		MID	64QAM	21.87	21.77	21.90	22.00
		HIGH	64QAM	21.16	21.29	21.65	22.00
	36	LOW	64QAM	20.24	20.35	20.60	21.00
		MID	64QAM	20.27	20.63	20.43	21.00
		HIGH	64QAM	20.42	20.49	20.27	21.00
	75	LOW	64QAM	20.61	20.24	20.46	21.00
Bandwidth (MHz)	RB Size	RB offset	Modulation	37850	38000	38150	Tune-up power(dBm)
20	1	LOW	QPSK	22.98	23.26	23.54	24.00
		MID	QPSK	23.66	23.84	23.88	24.00
		HIGH	QPSK	23.17	23.25	23.18	24.00
	50	LOW	QPSK	22.30	22.56	22.49	23.00
		MID	QPSK	22.33	22.71	22.49	23.00
		HIGH	QPSK	22.39	22.49	22.34	23.00
	100	LOW	QPSK	22.28	22.48	22.37	23.00
20	1	LOW	Q16	22.28	22.27	22.76	23.00
		MID	Q16	22.90	22.85	22.93	23.00
		HIGH	Q16	22.40	22.27	22.54	23.00
	50	LOW	Q16	21.21	21.45	21.62	22.00
		MID	Q16	21.46	21.53	21.57	22.00
		HIGH	Q16	21.30	21.52	21.45	22.00
	100	LOW	Q16	21.39	21.54	21.42	22.00
20	1	LOW	64QAM	21.15	21.32	21.67	22.00
		MID	64QAM	21.79	21.73	21.97	22.00
		HIGH	64QAM	21.30	21.36	21.51	22.00
	50	LOW	64QAM	20.35	20.45	20.69	21.00
		MID	64QAM	20.39	20.58	20.42	21.00
		HIGH	64QAM	20.40	20.44	20.38	21.00
	100	LOW	64QAM	20.48	20.39	20.53	21.00

8.4 WIFI Output Power

test Mode	Modulation	Channel number	Fre.(MHz)	AV output power(dBm)	tune up power(dBm)	SAR Test
WIFI 2.4G	11b	1	2412	16.28	17.00	Yes
		6	2437	16.48	17.00	Yes
		11	2462	16.50	17.00	Yes
	11g	1	2412	14.74	15.00	No
		6	2437	14.56	15.00	No
		11	2462	14.47	15.00	No
	HT20	1	2412	13.88	14.00	No
		6	2437	13.62	14.00	No
		11	2462	13.80	14.00	No
	HT40	3	2422	13.63	14.00	No
		6	2437	13.26	14.00	No
		9	2452	11.56	12.00	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.
 1) SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure.
 2) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, OFDM SAR test is not required.
 Adjusted SAR = $0.427 * (31.62 \text{ mW}/50.12 \text{ mW}) = 0.269 \text{ W/Kg}$, so 2.4G OFDM SAR test is not required.

test Mode	Modulation	Channel number	Fre.(MHz)	output power(dBm)	tune up power(dBm)	SAR Test
5.2 WIFI	11a	36	5180	14.75	15.00	No
		44	5220	14.78	15.00	No
		48	5240	14.55	15.00	No
	11n20	36	5180	14.53	15.00	No
		44	5220	14.54	15.00	No
		48	5240	14.57	15.00	No
	11n40	38	5190	14.73	15.00	No
		46	5230	14.43	15.00	No
	11ac20	36	5180	14.53	15.00	No
		44	5220	14.59	15.00	No
		48	5240	14.42	15.00	No
	11ac40	38	5190	14.88	15.00	No
		46	5230	14.47	15.00	No
	11ac80	42	5210	14.94	15.00	Yes
5.3 WIFI	11a	52	5260	14.57	15.00	No
		60	5300	14.58	15.00	No
		64	5320	14.71	15.00	No
	11n20	52	5260	14.35	15.00	No
		60	5300	14.41	15.00	No
		64	5320	14.55	15.00	No
	11n40	54	5270	14.28	15.00	No
		62	5310	14.35	15.00	No
	11ac20	52	5260	14.34	15.00	No
		60	5300	14.32	15.00	No
		64	5320	14.59	15.00	No
	11ac40	54	5270	14.28	15.00	No
		62	5310	14.32	15.00	No
	11ac80	58	5290	14.35	15.00	Yes
5.6G WIFI	11a	100	5500	14.94	15.00	No
		116	5580	14.47	15.00	No
		140	5700	14.61	15.00	No
	11n20	100	5500	14.24	15.00	No
		116	5580	14.85	15.00	No
		140	5700	14.74	15.00	No
	11n40	102	5510	13.86	15.00	No
		118	5590	14.63	15.00	No
		134	5670	14.28	15.00	No
	11ac20	100	5500	14.78	15.00	No
		116	5580	14.85	15.00	No
		140	5700	13.83	15.00	No
	11ac40	102	5510	13.44	15.00	No
		118	5590	14.77	15.00	No
		134	5670	14.88	15.00	No
5.8G WIFI	11a	106	5530	13.24	15.00	Yes
		122	5610	14.57	15.00	Yes
		149	5745	16.53	17.00	No
	11n20	157	5785	16.41	17.00	No
		165	5825	16.14	17.00	No
		149	5745	16.38	17.00	No
	11n40	157	5785	16.21	17.00	No
		165	5825	16.54	17.00	No
		151	5755	16.16	17.00	No
	11ac20	159	5795	16.45	17.00	No
		149	5745	16.52	17.00	No
		157	5785	16.22	17.00	No
	11ac40	165	5825	16.51	17.00	No
		151	5755	16.59	17.00	No
		159	5795	16.52	17.00	No
	11ac80	155	5775	16.41	17.00	Yes
Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially. 1) The largest channel bandwidth configuration is selected among the multiple configurations in a frequency band with the same maximum tune-up output power. 2) When multiple transmission modes (802.11a/n/ac) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac.						

8.5 Bluetooth

8.5.1 Bluetooth Output Power

Bluetooth					
test Mode	Modulation	Fre.(MHz)	AV output power(dBm)	Tune up power(dBm)	SAR Test
BT	DH5	2402	9.02	11.00	Yes
		2441	10.01	11.00	Yes
		2480	10.55	11.00	Yes
	3DH5	2402	5.52	7.00	No
		2441	6.65	7.00	No
		2480	7.43	8.00	No
	BLE1M	2402	5.09	7.00	No
		2440	6.43	7.00	No
		2480	6.24	7.00	No
	BLE1M	2404	5.63	7.00	No
		2440	6.49	7.00	No
		2478	6.34	7.00	No
Note: Since bluetooth BR mode is the maximum output power mode , SAR measurements were performed with test software using DH5 modulation,and SAR measurement is not required for the EDR and LE. When the secondary mode is ≤ ¼ dB higher than the primary mode.					

8.5.2 Bluetooth Duty Cycle

The Bluetooth duty cycle is 76.88% as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation.

