

8 CONDUCTED RF OUPUT POWER

8.1	GSM Output 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)	32.47	32.42	32.42	33.00	23.28	23.23	23.23	23.81
GPRS (GMSK, 1-Slot)	32.61	32.57	32.55	33.00	23.42	23.38	23.36	23.81
GPRS (GMSK, 2-Slots)	31.92	31.90	31.87	32.00	25.79	25.77	25.74	25.87
GPRS (GMSK, 3-Slots)	30.26	30.22	30.17	31.00	25.84	25.80	25.75	26.58
GPRS (GMSK, 4-Slots)	29.24	29.20	29.14	30.00	26.06	26.02	25.96	26.82
EGPRS (8PSK, 1-Slot)	30.44	30.35	30.38	31.00	21.25	21.16	21.19	21.81
EGPRS (8PSK, 2-Slots)	29.18	29.30	29.35	30.00	23.05	23.17	23.22	23.87
EGPRS (8PSK, 3-Slots)	26.99	27.11	27.39	28.00	22.57	22.69	22.97	23.58
EGPRS (8PSK, 4-Slots)	25.83	26.01	25.95	27.00	22.65	22.83	22.77	23.82
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)	30.21	29.83	29.65	31.00	21.02	20.64	20.46	21.81
GPRS (GMSK, 1-Slot)	30.25	29.85	29.68	31.00	21.06	20.66	20.49	21.81
GPRS (GMSK, 2-Slots)	29.30	28.93	28.75	30.00	23.17	22.80	22.62	23.87
GPRS (GMSK, 3-Slots)	27.48	27.07	26.93	28.00	23.06	22.65	22.51	23.58
GPRS (GMSK, 4-Slots)	26.45	26.03	25.87	27.00	23.27	22.85	22.69	23.82
EGPRS (8PSK, 1-Slot)	29.40	29.17	28.72	30.00	20.21	19.98	19.53	20.81
EGPRS (8PSK, 2-Slots)	27.98	27.57	27.24	28.00	21.85	21.44	21.11	21.87
EGPRS (8PSK, 3-Slots)	25.82	25.39	24.97	26.00	21.40	20.97	20.55	21.58
EGPRS (8PSK, 4-Slots)	24.57	24.11	23.64	25.00	21.39	20.93	20.46	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	22.14	22.03	21.80	23.00
RMC 12.2Kbps	22.23	22.13	21.91	23.00
HSDPA Subtest-1	21.26	21.20	20.96	22.00
HSDPA Subtest-2	21.22	21.16	20.88	22.00
HSDPA Subtest-3	20.72	20.66	20.42	21.00
HSDPA Subtest-4	20.71	20.66	20.41	21.00
HSUPA Subtest-1	19.25	19.19	18.95	20.00
HSUPA Subtest-2	19.25	19.19	18.94	20.00
HSUPA Subtest-3	20.24	20.18	19.93	21.00
HSUPA Subtest-4	18.77	18.69	18.45	19.00
HSUPA Subtest-5	20.22	20.16	19.95	21.00
Band	Band 4			Tune-up Limit Power(dBm)
Channel	1312	1412	1513	
Frequency	1712.40	1732.40	1752.60	
AMR 12.2Kbps	22.53	22.73	22.74	23.00
RMC 12.2Kbps	22.64	22.73	22.76	23.00
HSDPA Subtest-1	21.73	21.77	21.83	22.00
HSDPA Subtest-2	21.68	21.72	21.73	22.00
HSDPA Subtest-3	21.20	21.24	21.27	22.00
HSDPA Subtest-4	21.16	21.24	21.29	22.00
HSUPA Subtest-1	19.72	19.78	19.80	20.00
HSUPA Subtest-2	19.70	19.77	19.80	20.00
HSUPA Subtest-3	20.72	20.78	20.79	21.00
HSUPA Subtest-4	19.24	19.29	19.37	20.00
HSUPA Subtest-5	20.67	20.76	20.78	21.00
Band	Band 5			Tune-up Limit Power(dBm)
Channel	4132	4182	4233	
Frequency	826.40	836.40	846.60	
AMR 12.2Kbps	23.07	22.90	22.84	24.00
RMC 12.2Kbps	23.19	22.95	22.95	24.00
HSDPA Subtest-1	22.26	22.03	21.97	23.00
HSDPA Subtest-2	22.17	21.98	21.89	23.00
HSDPA Subtest-3	21.71	21.44	21.42	22.00
HSDPA Subtest-4	21.69	21.41	21.40	22.00
HSUPA Subtest-1	20.42	20.18	20.14	21.00
HSUPA Subtest-2	20.41	20.17	20.14	21.00
HSUPA Subtest-3	21.42	21.18	21.15	22.00
HSUPA Subtest-4	19.94	19.71	19.67	20.00
HSUPA Subtest-5	21.40	21.17	21.13	22.00

8.3 LTE Output Power

Bandwidth (MHz)	RB Size	RB offset	Modulation	20775	21100	21425	Tune-up power(dBm)
5	1	LOW	QPSK	22.48	22.36	22.26	23.50
		MID	QPSK	22.88	22.91	22.74	23.50
		HIGH	QPSK	22.17	22.20	22.07	23.50
	12	LOW	QPSK	21.71	21.86	21.69	22.50
		MID	QPSK	21.64	21.99	21.42	22.50
		HIGH	QPSK	21.76	21.74	21.58	22.50
	25	LOW	QPSK	21.73	21.88	21.60	22.50
5	1	LOW	Q16	21.74	21.61	21.64	22.50
		MID	Q16	21.96	21.94	21.70	22.50
		HIGH	Q16	21.37	21.34	21.14	22.50
	12	LOW	Q16	20.85	20.64	20.63	21.50
		MID	Q16	20.84	20.72	20.54	21.50
		HIGH	Q16	20.74	20.86	20.49	21.50
	25	LOW	Q16	20.80	20.81	20.64	21.50
5	1	LOW	64QAM	20.46	20.63	20.41	21.50
		MID	64QAM	20.89	21.04	20.68	21.50
		HIGH	64QAM	20.34	20.37	20.09	21.50
	12	LOW	64QAM	19.68	19.68	19.72	20.50
		MID	64QAM	19.66	19.85	19.71	20.50
		HIGH	64QAM	19.76	19.63	19.38	20.50
	25	LOW	64QAM	19.68	19.68	19.45	20.50
Bandwidth (MHz)	RB Size	RB offset	Modulation	20800	21100	21400	Tune-up power(dBm)
10	1	LOW	QPSK	22.46	22.48	22.50	23.50
		MID	QPSK	22.79	22.76	22.56	23.50
		HIGH	QPSK	22.13	22.40	22.29	23.50
	25	LOW	QPSK	21.75	21.76	21.59	22.50
		MID	QPSK	21.88	21.79	21.50	22.50
		HIGH	QPSK	21.78	21.80	21.40	22.50
	50	LOW	QPSK	21.69	21.75	21.50	22.50
10	1	LOW	Q16	21.60	21.46	21.55	22.50
		MID	Q16	22.08	22.08	21.77	22.50
		HIGH	Q16	21.64	21.57	21.20	22.50
	25	LOW	Q16	20.75	20.69	20.71	21.50
		MID	Q16	20.77	20.88	20.64	21.50
		HIGH	Q16	20.57	20.58	20.37	21.50
	50	LOW	Q16	20.55	20.65	20.58	21.50
10	1	LOW	64QAM	20.43	20.38	20.62	21.50
		MID	64QAM	21.01	21.07	20.73	21.50
		HIGH	64QAM	20.20	20.54	20.20	21.50
	25	LOW	64QAM	19.91	19.93	19.70	20.50
		MID	64QAM	19.92	19.91	19.73	20.50
		HIGH	64QAM	19.74	19.85	19.62	20.50
	50	LOW	64QAM	19.63	19.64	19.69	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	22.24	22.39	22.20	23.50
		MID	QPSK	22.77	22.86	22.60	23.50
		HIGH	QPSK	22.10	22.25	22.14	23.50
	36	LOW	QPSK	21.85	21.70	21.65	22.50
		MID	QPSK	21.91	21.82	21.61	22.50
		HIGH	QPSK	21.78	21.84	21.42	22.50
	75	LOW	QPSK	21.60	21.80	21.57	22.50
15	1	LOW	Q16	21.81	21.61	21.69	22.50
		MID	Q16	21.94	22.07	21.79	22.50
		HIGH	Q16	21.44	21.33	21.22	22.50
	36	LOW	Q16	20.86	20.73	20.69	21.50
		MID	Q16	20.61	20.78	20.51	21.50
		HIGH	Q16	20.67	20.56	20.42	21.50
	75	LOW	Q16	20.72	20.56	20.45	21.50
15	1	LOW	64QAM	20.55	20.61	20.36	21.50
		MID	64QAM	20.86	20.86	20.88	21.50
		HIGH	64QAM	20.29	20.59	20.29	21.50
	36	LOW	64QAM	19.70	19.79	19.64	20.50
		MID	64QAM	19.81	19.66	19.68	20.50
		HIGH	64QAM	19.80	19.64	19.42	20.50
	75	LOW	64QAM	19.65	19.81	19.45	20.50
Bandwidth (MHz)	RB Size	RB offset	Modulation	20850	21100	21350	Tune-up power(dBm)
20	1	LOW	QPSK	22.39	22.37	22.35	23.50
		MID	QPSK	22.77	22.78	22.59	23.50
		HIGH	QPSK	22.22	22.30	22.21	23.50
	50	LOW	QPSK	21.75	21.80	21.66	22.50
		MID	QPSK	21.76	21.84	21.57	22.50
		HIGH	QPSK	21.67	21.74	21.48	22.50
	100	LOW	QPSK	21.72	21.77	21.56	22.50
20	1	LOW	Q16	21.67	21.59	21.65	22.50
		MID	Q16	22.01	22.07	21.75	22.50
		HIGH	Q16	21.52	21.44	21.15	22.50
	50	LOW	Q16	20.75	20.77	20.62	21.50
		MID	Q16	20.75	20.80	20.56	21.50
		HIGH	Q16	20.64	20.71	20.46	21.50
	100	LOW	Q16	20.66	20.70	20.54	21.50
20	1	LOW	64QAM	20.56	20.50	20.51	21.50
		MID	64QAM	20.92	20.94	20.76	21.50
		HIGH	64QAM	20.32	20.47	20.19	21.50
	50	LOW	64QAM	19.76	19.78	19.69	20.50
		MID	64QAM	19.78	19.81	19.59	20.50
		HIGH	64QAM	19.68	19.74	19.49	20.50
	100	LOW	64QAM	19.73	19.76	19.54	20.50

LTE B12-Full Power -Ant.0							
Bandwidth (MHz)	RB Size	RB offset	Modulation	23017	23095	23173	Tune-up power(dBm)
1.4	1	LOW	QPSK	23.04	23.10	22.86	24.00
		MID	QPSK	23.14	23.27	23.19	24.00
		HIGH	QPSK	23.00	23.06	22.79	24.00
	3	LOW	QPSK	23.07	23.10	22.88	24.00
		MID	QPSK	23.03	23.07	23.21	24.00
		HIGH	QPSK	23.09	22.87	22.90	24.00
	6	LOW	QPSK	22.22	22.18	22.35	23.00
1.4	1	LOW	Q16	22.12	22.31	22.16	23.00
		MID	Q16	22.50	22.54	22.37	23.00
		HIGH	Q16	22.22	22.26	22.37	23.00
	3	LOW	Q16	22.14	22.22	22.22	23.00
		MID	Q16	22.27	22.39	22.30	23.00
		HIGH	Q16	22.28	22.09	22.29	23.00
	6	LOW	Q16	21.21	21.06	21.05	22.00
1.4	1	LOW	64QAM	21.23	21.30	21.27	22.00
		MID	64QAM	21.61	21.51	21.41	22.00
		HIGH	64QAM	21.31	21.21	21.24	22.00
	3	LOW	64QAM	21.13	21.20	21.33	22.00
		MID	64QAM	21.42	21.36	21.42	22.00
		HIGH	64QAM	21.29	21.21	21.18	22.00
	6	LOW	64QAM	20.09	20.09	20.19	21.00
Bandwidth (MHz)	RB Size	RB offset	Modulation	23025	23095	23165	Tune-up power(dBm)
3	1	LOW	QPSK	23.05	23.01	22.98	24.00
		MID	QPSK	22.96	23.09	23.22	24.00
		HIGH	QPSK	23.11	22.90	22.85	24.00
	8	LOW	QPSK	22.23	22.15	22.35	23.00
		MID	QPSK	22.02	22.31	22.13	23.00
		HIGH	QPSK	22.20	22.09	22.25	23.00
	15	LOW	QPSK	22.10	22.05	22.34	23.00
3	1	LOW	Q16	22.08	22.19	22.21	23.00
		MID	Q16	22.42	22.44	22.45	23.00
		HIGH	Q16	22.20	22.17	22.23	23.00
	8	LOW	Q16	21.29	21.01	21.33	22.00
		MID	Q16	21.13	21.14	21.16	22.00
		HIGH	Q16	21.24	21.00	21.16	22.00
	15	LOW	Q16	21.08	21.11	21.08	22.00
3	1	LOW	64QAM	21.23	21.21	21.23	22.00
		MID	64QAM	21.34	21.19	21.36	22.00
		HIGH	64QAM	21.00	21.36	21.04	22.00
	8	LOW	64QAM	20.25	19.93	20.29	21.00
		MID	64QAM	20.18	20.02	20.22	21.00
		HIGH	64QAM	20.09	20.03	20.04	21.00
	15	LOW	64QAM	20.10	19.91	20.08	21.00

LTE B12-Full Power -Ant.0							
Bandwidth (MHz)	RB Size	RB offset	Modulation	23035	23095	23155	Tune-up power(dBm)
5	1	LOW	QPSK	22.85	22.99	23.00	24.00
		MID	QPSK	23.20	23.20	23.22	24.00
		HIGH	QPSK	22.86	22.93	23.09	24.00
	12	LOW	QPSK	22.16	22.14	22.16	23.00
		MID	QPSK	22.04	22.08	22.13	23.00
		HIGH	QPSK	22.02	22.13	22.10	23.00
	25	LOW	QPSK	22.15	22.22	22.30	23.00
5	1	LOW	Q16	22.23	22.37	22.34	23.00
		MID	Q16	22.55	22.39	22.42	23.00
		HIGH	Q16	22.22	22.14	22.32	23.00
	12	LOW	Q16	21.22	20.91	21.17	22.00
		MID	Q16	21.22	20.96	21.27	22.00
		HIGH	Q16	20.98	20.97	21.05	22.00
	25	LOW	Q16	21.02	21.14	21.10	22.00
5	1	LOW	64QAM	21.13	21.22	21.15	22.00
		MID	64QAM	21.29	21.24	21.24	22.00
		HIGH	64QAM	21.25	21.15	21.08	22.00
	12	LOW	64QAM	20.24	20.18	20.21	21.00
		MID	64QAM	20.21	20.21	20.09	21.00
		HIGH	64QAM	20.11	19.86	20.25	21.00
	25	LOW	64QAM	20.12	19.95	20.07	21.00
Bandwidth (MHz)	RB Size	RB offset	Modulation	23060	23095	23130	Tune-up power(dBm)
10	1	LOW	QPSK	22.96	23.00	22.99	24.00
		MID	QPSK	23.11	23.12	23.10	24.00
		HIGH	QPSK	22.97	23.00	22.94	24.00
	25	LOW	QPSK	22.19	22.09	22.23	23.00
		MID	QPSK	22.16	22.16	22.16	23.00
		HIGH	QPSK	22.15	22.08	22.12	23.00
	50	LOW	QPSK	22.18	22.09	22.21	23.00
10	1	LOW	Q16	22.19	22.33	22.22	23.00
		MID	Q16	22.42	22.43	22.40	23.00
		HIGH	Q16	22.30	22.22	22.24	23.00
	25	LOW	Q16	21.18	21.06	21.22	22.00
		MID	Q16	21.12	21.11	21.14	22.00
		HIGH	Q16	21.13	21.07	21.12	22.00
	50	LOW	Q16	21.15	21.08	21.18	22.00
10	1	LOW	64QAM	21.12	21.19	21.22	22.00
		MID	64QAM	21.32	21.32	21.32	22.00
		HIGH	64QAM	21.13	21.22	21.13	22.00
	25	LOW	64QAM	20.13	20.04	20.19	21.00
		MID	64QAM	20.13	20.11	20.11	21.00
		HIGH	64QAM	20.09	20.01	20.11	21.00
	50	LOW	64QAM	20.09	20.04	20.14	21.00

LTE B25-Full Power -Ant.0							
Bandwidth (MHz)	RB Size	RB offset	Modulation	26047	26365	26683	Tune-up power(dBm)
1.4	1	LOW	QPSK	22.73	22.29	22.20	23.50
		MID	QPSK	22.85	22.48	22.46	23.50
		HIGH	QPSK	22.46	22.31	22.37	23.50
	3	LOW	QPSK	22.77	22.40	22.15	23.50
		MID	QPSK	22.86	22.65	22.72	23.50
		HIGH	QPSK	22.35	22.21	22.14	23.50
	6	LOW	QPSK	21.96	21.53	21.46	22.50
1.4	1	LOW	Q16	21.97	21.63	21.28	22.50
		MID	Q16	21.98	21.72	21.82	22.50
		HIGH	Q16	21.61	21.34	21.63	22.50
	3	LOW	Q16	22.01	21.60	21.44	22.50
		MID	Q16	22.07	21.77	21.89	22.50
		HIGH	Q16	21.77	21.78	21.48	22.50
	6	LOW	Q16	20.77	20.68	20.67	21.50
1.4	1	LOW	64QAM	21.08	20.72	20.16	21.50
		MID	64QAM	20.92	20.78	20.75	21.50
		HIGH	64QAM	20.52	20.27	20.77	21.50
	3	LOW	64QAM	20.89	20.63	20.45	21.50
		MID	64QAM	21.19	20.87	20.98	21.50
		HIGH	64QAM	20.84	20.83	20.58	21.50
	6	LOW	64QAM	19.83	19.80	19.80	20.50
Bandwidth (MHz)	RB Size	RB offset	Modulation	26055	26365	26675	Tune-up power(dBm)
3	1	LOW	QPSK	22.75	22.42	22.22	23.50
		MID	QPSK	22.73	22.63	22.68	23.50
		HIGH	QPSK	22.32	22.29	22.18	23.50
	8	LOW	QPSK	22.03	21.73	21.51	22.50
		MID	QPSK	21.96	21.52	21.62	22.50
		HIGH	QPSK	21.73	21.65	21.45	22.50
	15	LOW	QPSK	21.70	21.59	21.69	22.50
3	1	LOW	Q16	21.94	21.57	21.46	22.50
		MID	Q16	22.17	21.76	21.88	22.50
		HIGH	Q16	21.75	21.40	21.56	22.50
	8	LOW	Q16	20.94	20.74	20.46	21.50
		MID	Q16	20.90	20.59	20.73	21.50
		HIGH	Q16	20.68	20.48	20.48	21.50
	15	LOW	Q16	20.80	20.62	20.48	21.50
3	1	LOW	64QAM	20.79	20.56	20.43	21.50
		MID	64QAM	20.94	20.69	20.69	21.50
		HIGH	64QAM	20.43	20.41	20.31	21.50
	8	LOW	64QAM	19.92	19.68	19.68	20.50
		MID	64QAM	19.89	19.62	19.50	20.50
		HIGH	64QAM	19.70	19.49	19.43	20.50
	15	LOW	64QAM	19.94	19.52	19.43	20.50
Bandwidth (MHz)	RB Size	RB offset	Modulation	26065	26365	26665	Tune-up power(dBm)
5	1	LOW	QPSK	22.63	22.36	22.29	23.50
		MID	QPSK	23.00	22.40	22.48	23.50
		HIGH	QPSK	22.34	22.34	22.14	23.50
	12	LOW	QPSK	21.96	21.74	21.65	22.50
		MID	QPSK	21.86	21.52	21.44	22.50
		HIGH	QPSK	21.72	21.37	21.55	22.50
	25	LOW	QPSK	21.69	21.53	21.69	22.50
5	1	LOW	Q16	21.98	21.56	21.52	22.50
		MID	Q16	21.94	21.82	21.72	22.50
		HIGH	Q16	21.63	21.43	21.53	22.50
	12	LOW	Q16	20.87	20.69	20.51	21.50
		MID	Q16	20.83	20.69	20.57	21.50
		HIGH	Q16	20.94	20.44	20.54	21.50
	25	LOW	Q16	20.99	20.64	20.58	21.50
5	1	LOW	64QAM	20.90	20.37	20.30	21.50
		MID	64QAM	21.00	20.75	20.81	21.50
		HIGH	64QAM	20.66	20.22	20.46	21.50
	12	LOW	64QAM	19.76	19.67	19.50	20.50
		MID	64QAM	19.90	19.62	19.48	20.50
		HIGH	64QAM	19.77	19.54	19.45	20.50
	25	LOW	64QAM	19.72	19.66	19.67	20.50

LTE B25-Full Power -Ant.0							
Bandwidth (MHz)	RB Size	RB offset	Modulation	26090	26365	26640	Tune-up power(dBm)
10	1	LOW	QPSK	22.77	22.33	22.21	23.50
		MID	QPSK	22.77	22.60	22.76	23.50
		HIGH	QPSK	22.47	22.14	22.17	23.50
	25	LOW	QPSK	21.79	21.71	21.56	22.50
		MID	QPSK	21.93	21.47	21.74	22.50
		HIGH	QPSK	21.74	21.35	21.67	22.50
	50	LOW	QPSK	21.91	21.43	21.73	22.50
10	1	LOW	Q16	21.83	21.49	21.53	22.50
		MID	Q16	22.04	21.67	21.80	22.50
		HIGH	Q16	21.68	21.60	21.46	22.50
	25	LOW	Q16	20.96	20.50	20.68	21.50
		MID	Q16	20.77	20.55	20.68	21.50
		HIGH	Q16	20.75	20.38	20.47	21.50
	50	LOW	Q16	20.73	20.42	20.53	21.50
10	1	LOW	64QAM	20.98	20.56	20.47	21.50
		MID	64QAM	21.17	20.71	20.65	21.50
		HIGH	64QAM	20.60	20.47	20.57	21.50
	25	LOW	64QAM	19.78	19.52	19.55	20.50
		MID	64QAM	19.94	19.47	19.60	20.50
		HIGH	64QAM	19.67	19.56	19.70	20.50
	50	LOW	64QAM	19.78	19.51	19.56	20.50
Bandwidth (MHz)	RB Size	RB offset	Modulation	26115	26365	26615	Tune-up power(dBm)
15	1	LOW	QPSK	22.73	22.40	22.17	23.50
		MID	QPSK	22.98	22.53	22.72	23.50
		HIGH	QPSK	22.24	22.31	22.23	23.50
	36	LOW	QPSK	22.01	21.56	21.63	22.50
		MID	QPSK	21.83	21.52	21.44	22.50
		HIGH	QPSK	21.83	21.37	21.71	22.50
	75	LOW	QPSK	21.81	21.55	21.64	22.50
15	1	LOW	Q16	21.86	21.59	21.44	22.50
		MID	Q16	22.07	21.77	21.68	22.50
		HIGH	Q16	21.57	21.58	21.67	22.50
	36	LOW	Q16	20.82	20.74	20.44	21.50
		MID	Q16	20.95	20.66	20.61	21.50
		HIGH	Q16	20.77	20.50	20.66	21.50
	75	LOW	Q16	20.95	20.66	20.46	21.50
15	1	LOW	64QAM	20.83	20.47	20.57	21.50
		MID	64QAM	21.13	20.73	20.76	21.50
		HIGH	64QAM	20.62	20.29	20.48	21.50
	36	LOW	64QAM	19.89	19.72	19.75	20.50
		MID	64QAM	19.87	19.56	19.66	20.50
		HIGH	64QAM	19.72	19.60	19.45	20.50
	75	LOW	64QAM	19.89	19.41	19.62	20.50
Bandwidth (MHz)	RB Size	RB offset	Modulation	26140	26365	26590	Tune-up power(dBm)
20	1	LOW	QPSK	22.67	22.33	22.21	23.50
		MID	QPSK	22.87	22.55	22.61	23.50
		HIGH	QPSK	22.38	22.21	22.29	23.50
	50	LOW	QPSK	21.88	21.60	21.57	22.50
		MID	QPSK	21.86	21.56	21.59	22.50
		HIGH	QPSK	21.80	21.50	21.57	22.50
	100	LOW	QPSK	21.83	21.55	21.58	22.50
20	1	LOW	Q16	21.93	21.53	21.42	22.50
		MID	Q16	22.03	21.77	21.78	22.50
		HIGH	Q16	21.63	21.47	21.59	22.50
	50	LOW	Q16	20.92	20.61	20.59	21.50
		MID	Q16	20.88	20.59	20.59	21.50
		HIGH	Q16	20.82	20.53	20.54	21.50
	100	LOW	Q16	20.84	20.57	20.54	21.50
20	1	LOW	64QAM	20.87	20.48	20.44	21.50
		MID	64QAM	21.04	20.71	20.75	21.50
		HIGH	64QAM	20.53	20.36	20.43	21.50
	50	LOW	64QAM	19.90	19.60	19.60	20.50
		MID	64QAM	19.84	19.57	19.62	20.50
		HIGH	64QAM	19.79	19.51	19.57	20.50
	100	LOW	64QAM	19.82	19.56	19.56	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	23.27	23.36	23.45	24.00
		MID	QPSK	23.57	23.62	23.33	24.00
		HIGH	QPSK	23.36	23.04	23.20	24.00
	3	LOW	QPSK	23.23	23.13	23.38	24.00
		MID	QPSK	23.48	23.51	23.24	24.00
		HIGH	QPSK	23.53	23.01	23.39	24.00
	6	LOW	QPSK	22.72	22.67	22.35	23.00
	1.4	LOW	Q16	22.74	22.56	22.74	23.00
		MID	Q16	22.96	22.79	22.47	23.00
		HIGH	Q16	22.70	22.72	22.22	23.00
1.4	1	LOW	Q16	22.63	22.49	22.74	23.00
		MID	Q16	22.95	22.62	22.71	23.00
		HIGH	Q16	22.67	22.51	22.15	23.00
	6	LOW	Q16	21.51	21.43	21.22	22.00
	1.4	LOW	64QAM	21.79	21.58	21.88	22.00
		MID	64QAM	21.66	21.75	21.40	22.00
		HIGH	64QAM	21.83	21.84	21.09	22.00
	3	LOW	64QAM	21.64	21.40	21.63	22.00
		MID	64QAM	21.44	21.52	21.86	22.00
		HIGH	64QAM	21.54	21.47	21.09	22.00
	6	LOW	64QAM	20.59	20.32	20.07	21.00
Bandwidth (MHz)	RB Size	RB offset	Modulation	26715	26865	27015	Tune-up power(dBm)
3	1	LOW	QPSK	23.16	23.38	23.39	24.00
		MID	QPSK	23.54	23.46	23.24	24.00
		HIGH	QPSK	23.38	23.21	23.21	24.00
	8	LOW	QPSK	22.51	22.31	22.62	23.00
		MID	QPSK	22.49	22.66	22.31	23.00
		HIGH	QPSK	22.48	22.24	22.35	23.00
	15	LOW	QPSK	22.53	22.55	22.41	23.00
	3	LOW	Q16	22.55	22.44	22.87	23.00
		MID	Q16	22.95	22.49	22.54	23.00
		HIGH	Q16	22.59	22.50	22.19	23.00
3	1	LOW	Q16	21.51	21.19	21.31	22.00
		MID	Q16	21.43	21.53	21.21	22.00
		HIGH	Q16	21.44	21.47	21.30	22.00
	8	LOW	Q16	21.66	21.50	21.51	22.00
	3	LOW	64QAM	21.62	21.59	21.43	22.00
		MID	64QAM	21.75	21.79	21.86	22.00
		HIGH	64QAM	21.54	21.30	21.08	22.00
	8	LOW	64QAM	20.56	20.32	20.49	21.00
		MID	64QAM	20.48	20.58	20.39	21.00
		HIGH	64QAM	20.36	20.82	20.39	21.00
	15	LOW	64QAM	20.39	20.42	20.60	21.00
Bandwidth (MHz)	RB Size	RB offset	Modulation	26715	26865	27015	Tune-up power(dBm)
5	1	LOW	QPSK	23.27	23.18	23.32	24.00
		MID	QPSK	23.61	23.66	23.28	24.00
		HIGH	QPSK	23.54	23.14	23.20	24.00
	12	LOW	QPSK	22.47	22.49	22.64	23.00
		MID	QPSK	22.45	22.53	22.23	23.00
		HIGH	QPSK	22.53	22.25	22.14	23.00
	25	LOW	QPSK	22.77	22.72	22.40	23.00
	5	LOW	Q16	22.54	22.53	22.78	23.00
		MID	Q16	22.99	22.74	22.43	23.00
		HIGH	Q16	22.61	22.56	22.32	23.00
5	1	LOW	Q16	21.41	21.34	21.21	22.00
		MID	Q16	21.45	21.55	21.35	22.00
		HIGH	Q16	21.42	21.46	21.37	22.00
	25	LOW	Q16	21.46	21.51	21.37	22.00
	5	LOW	64QAM	21.64	21.62	21.54	22.00
		MID	64QAM	21.58	21.70	21.85	22.00
		HIGH	64QAM	21.51	21.37	20.98	22.00
	12	LOW	64QAM	20.58	20.36	20.59	21.00
		MID	64QAM	20.55	20.66	20.29	21.00
		HIGH	64QAM	20.55	20.58	20.48	21.00
	25	LOW	64QAM	20.63	20.46	20.39	21.00

LTE B26-Full Power -Ant.0							
Bandwidth (MHz)	RB Size	RB offset	Modulation	26740	26865	26990	Tune-up power(dBm)
10	1	LOW	QPSK	23.25	23.22	23.28	24.00
		MID	QPSK	23.61	23.69	23.47	24.00
		HIGH	QPSK	23.44	23.27	23.30	24.00
	25	LOW	QPSK	22.55	22.36	22.56	23.00
		MID	QPSK	22.67	22.58	22.38	23.00
		HIGH	QPSK	22.41	22.26	22.28	23.00
50	LOW	QPSK	22.61	22.64	22.45	23.00	
10	1	LOW	Q16	22.67	22.34	22.69	23.00
		MID	Q16	22.89	22.55	22.71	23.00
		HIGH	Q16	22.61	22.52	22.29	23.00
	25	LOW	Q16	21.57	21.32	21.37	22.00
		MID	Q16	21.60	21.69	21.16	22.00
		HIGH	Q16	21.36	21.46	21.43	22.00
50	LOW	Q16	21.73	21.46	21.22	22.00	
10	1	LOW	64QAM	21.54	21.64	21.39	22.00
		MID	64QAM	21.69	21.83	21.94	22.00
		HIGH	64QAM	21.33	21.55	20.99	22.00
	25	LOW	64QAM	20.59	20.33	20.71	21.00
		MID	64QAM	20.31	20.76	20.38	21.00
		HIGH	64QAM	20.48	20.64	20.43	21.00
50	LOW	64QAM	20.57	20.49	20.33	21.00	
Bandwidth (MHz)	RB Size	RB offset	Modulation	26765	26865	26965	Tune-up power(dBm)
15	1	LOW	QPSK	23.24	23.23	23.41	24.00
		MID	QPSK	23.51	23.54	23.34	24.00
		HIGH	QPSK	23.42	23.12	23.24	24.00
	36	LOW	QPSK	22.50	22.38	22.55	23.00
		MID	QPSK	22.60	22.62	22.32	23.00
		HIGH	QPSK	22.46	22.35	22.28	23.00
75	LOW	QPSK	22.62	22.61	22.40	23.00	
15	1	LOW	Q16	22.69	22.49	22.76	23.00
		MID	Q16	22.90	22.64	22.58	23.00
		HIGH	Q16	22.74	22.59	22.29	23.00
	36	LOW	Q16	21.55	21.33	21.34	22.00
		MID	Q16	21.54	21.61	21.29	22.00
		HIGH	Q16	21.36	21.40	21.30	22.00
75	LOW	Q16	21.61	21.36	21.37	22.00	
15	1	LOW	64QAM	21.61	21.57	21.47	22.00
		MID	64QAM	21.69	21.85	21.79	22.00
		HIGH	64QAM	21.42	21.42	21.12	22.00
	36	LOW	64QAM	20.49	20.41	20.63	21.00
		MID	64QAM	20.45	20.70	20.44	21.00
		HIGH	64QAM	20.44	20.67	20.43	21.00
75	LOW	64QAM	20.49	20.57	20.48	21.00	

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	23.20	23.28	23.14	24.00
		MID	QPSK	23.42	23.49	23.58	24.00
		HIGH	QPSK	23.05	23.25	23.11	24.00
	3	LOW	QPSK	23.23	23.16	23.20	24.00
		MID	QPSK	23.32	23.72	23.43	24.00
		HIGH	QPSK	23.25	23.33	23.27	24.00
	6	LOW	QPSK	22.43	22.51	22.45	23.00
	1.4	LOW	Q16	22.42	22.41	22.43	23.00
		MID	Q16	22.31	22.86	22.79	23.00
		HIGH	Q16	22.23	22.47	22.47	23.00
1.4	1	LOW	Q16	22.20	22.52	22.65	23.00
		MID	Q16	22.47	22.91	22.77	23.00
		HIGH	Q16	22.46	22.92	22.23	23.00
	3	LOW	Q16	21.38	21.69	21.47	22.00
		MID	Q16	21.38	21.69	21.47	22.00
		HIGH	Q16	21.38	21.69	21.47	22.00
	6	LOW	Q16	21.38	21.69	21.47	22.00
1.4	1	LOW	64QAM	21.56	21.51	21.43	22.00
		MID	64QAM	21.24	21.93	21.64	22.00
		HIGH	64QAM	21.14	21.61	21.52	22.00
	3	LOW	64QAM	21.08	21.41	21.61	22.00
		MID	64QAM	21.58	21.94	21.90	22.00
		HIGH	64QAM	21.45	21.82	21.33	22.00
	6	LOW	64QAM	20.47	20.57	20.33	21.00
Bandwidth (MHz)	RB Size	RB offset	Modulation	131987	132322	132657	Tune-up power(dBm)
3	1	LOW	QPSK	23.10	23.15	23.04	24.00
		MID	QPSK	23.27	23.50	23.59	24.00
		HIGH	QPSK	23.07	23.14	23.25	24.00
	8	LOW	QPSK	22.20	22.52	22.47	23.00
		MID	QPSK	22.56	22.57	22.60	23.00
		HIGH	QPSK	22.64	22.42	22.47	23.00
	15	LOW	QPSK	22.30	22.43	22.53	23.00
	3	LOW	Q16	22.33	22.43	22.55	23.00
		MID	Q16	22.37	22.76	22.77	23.00
		HIGH	Q16	22.22	22.36	22.40	23.00
3	1	LOW	Q16	21.23	21.74	21.27	22.00
		MID	Q16	21.34	21.47	21.41	22.00
		HIGH	Q16	21.63	21.45	21.64	22.00
	8	LOW	Q16	21.27	21.66	21.50	22.00
		MID	Q16	21.27	21.66	21.50	22.00
		HIGH	Q16	21.27	21.66	21.50	22.00
	15	LOW	Q16	21.27	21.66	21.50	22.00
3	1	LOW	64QAM	21.52	21.45	21.26	22.00
		MID	64QAM	21.41	21.93	21.76	22.00
		HIGH	64QAM	21.31	21.44	21.27	22.00
	8	LOW	64QAM	20.44	20.69	20.35	21.00
		MID	64QAM	20.26	20.56	20.43	21.00
		HIGH	64QAM	20.37	20.42	20.44	21.00
	15	LOW	64QAM	20.49	20.72	20.42	21.00
Bandwidth (MHz)	RB Size	RB offset	Modulation	131997	132322	132647	Tune-up power(dBm)
5	1	LOW	QPSK	23.12	23.14	23.31	24.00
		MID	QPSK	23.24	23.52	23.63	24.00
		HIGH	QPSK	23.29	23.20	23.35	24.00
	12	LOW	QPSK	22.41	22.74	22.34	23.00
		MID	QPSK	22.46	22.60	22.41	23.00
		HIGH	QPSK	22.59	22.39	22.48	23.00
	25	LOW	QPSK	22.33	22.49	22.58	23.00
	5	LOW	Q16	22.35	22.59	22.42	23.00
		MID	Q16	22.48	22.93	22.75	23.00
		HIGH	Q16	22.28	22.40	22.32	23.00
5	1	LOW	Q16	21.28	21.67	21.43	22.00
		MID	Q16	21.29	21.48	21.47	22.00
		HIGH	Q16	21.54	21.49	21.46	22.00
	12	LOW	Q16	21.41	21.69	21.42	22.00
		MID	Q16	21.41	21.69	21.42	22.00
		HIGH	Q16	21.41	21.69	21.42	22.00
	25	LOW	Q16	21.41	21.69	21.42	22.00
5	1	LOW	64QAM	21.22	21.41	21.48	22.00
		MID	64QAM	21.66	21.66	21.77	22.00
		HIGH	64QAM	21.43	21.57	21.28	22.00
	12	LOW	64QAM	20.28	20.59	20.39	21.00
		MID	64QAM	20.37	20.65	20.57	21.00
		HIGH	64QAM	20.32	20.64	20.40	21.00
	25	LOW	64QAM	20.22	20.72	20.41	21.00

LTE B66-Full Power -Ant.0							
Bandwidth (MHz)	RB Size	RB offset	Modulation	132022	132322	132622	Tune-up power(dBm)
10	1	LOW	QPSK	23.04	23.35	23.17	24.00
		MID	QPSK	23.35	23.58	23.52	24.00
		HIGH	QPSK	23.21	23.19	23.08	24.00
	25	LOW	QPSK	22.29	22.61	22.43	23.00
		MID	QPSK	22.26	22.61	22.48	23.00
		HIGH	QPSK	22.42	22.39	22.57	23.00
	50	LOW	QPSK	22.24	22.40	22.52	23.00
10	1	LOW	Q16	22.44	22.66	22.62	23.00
		MID	Q16	22.53	22.95	22.73	23.00
		HIGH	Q16	22.35	22.34	22.47	23.00
	25	LOW	Q16	21.25	21.60	21.53	22.00
		MID	Q16	21.47	21.47	21.53	22.00
		HIGH	Q16	21.57	21.50	21.63	22.00
	50	LOW	Q16	21.34	21.55	21.33	22.00
10	1	LOW	64QAM	21.42	21.48	21.48	22.00
		MID	64QAM	21.39	21.87	21.69	22.00
		HIGH	64QAM	21.34	21.60	21.44	22.00
	25	LOW	64QAM	20.49	20.84	20.51	21.00
		MID	64QAM	20.31	20.66	20.63	21.00
		HIGH	64QAM	20.59	20.63	20.60	21.00
	50	LOW	64QAM	20.32	20.55	20.47	21.00
Bandwidth (MHz)	RB Size	RB offset	Modulation	132047	132322	132597	Tune-up power(dBm)
15	1	LOW	QPSK	23.00	23.27	23.16	24.00
		MID	QPSK	23.27	23.52	23.57	24.00
		HIGH	QPSK	23.23	23.15	23.08	24.00
	36	LOW	QPSK	22.29	22.60	22.38	23.00
		MID	QPSK	22.40	22.59	22.61	23.00
		HIGH	QPSK	22.38	22.48	22.37	23.00
	75	LOW	QPSK	22.25	22.51	22.46	23.00
15	1	LOW	Q16	22.31	22.38	22.54	23.00
		MID	Q16	22.43	22.76	22.51	23.00
		HIGH	Q16	22.41	22.33	22.23	23.00
	36	LOW	Q16	21.41	21.54	21.32	22.00
		MID	Q16	21.33	21.44	21.61	22.00
		HIGH	Q16	21.63	21.50	21.42	22.00
	75	LOW	Q16	21.39	21.60	21.29	22.00
15	1	LOW	64QAM	21.38	21.55	21.38	22.00
		MID	64QAM	21.42	21.84	21.64	22.00
		HIGH	64QAM	21.24	21.59	21.42	22.00
	36	LOW	64QAM	20.26	20.65	20.40	21.00
		MID	64QAM	20.42	20.54	20.46	21.00
		HIGH	64QAM	20.53	20.48	20.50	21.00
	75	LOW	64QAM	20.33	20.64	20.55	21.00
Bandwidth (MHz)	RB Size	RB offset	Modulation	132072	132322	132572	Tune-up power(dBm)
20	1	LOW	QPSK	23.08	23.23	23.18	24.00
		MID	QPSK	23.35	23.60	23.50	24.00
		HIGH	QPSK	23.14	23.22	23.20	24.00
	50	LOW	QPSK	22.34	22.64	22.44	23.00
		MID	QPSK	22.41	22.55	22.52	23.00
		HIGH	QPSK	22.50	22.52	22.52	23.00
	100	LOW	QPSK	22.38	22.55	22.44	23.00
20	1	LOW	Q16	22.35	22.51	22.51	23.00
		MID	Q16	22.46	22.90	22.66	23.00
		HIGH	Q16	22.31	22.46	22.38	23.00
	50	LOW	Q16	21.36	21.66	21.39	22.00
		MID	Q16	21.42	21.56	21.50	22.00
		HIGH	Q16	21.49	21.51	21.49	22.00
	100	LOW	Q16	21.39	21.54	21.41	22.00
20	1	LOW	64QAM	21.37	21.46	21.33	22.00
		MID	64QAM	21.53	21.78	21.64	22.00
		HIGH	64QAM	21.33	21.45	21.32	22.00
	50	LOW	64QAM	20.34	20.69	20.46	21.00
		MID	64QAM	20.41	20.58	20.54	21.00
		HIGH	64QAM	20.44	20.55	20.50	21.00
	100	LOW	64QAM	20.37	20.58	20.45	21.00

LTE B38-Full Power -Ant.0							
Bandwidth (MHz)	RB Size	RB offset	Modulation	37775	38000	38225	Tune-up power(dBm)
5	1	LOW	QPSK	22.15	22.25	22.34	23.00
		MID	QPSK	22.50	22.68	22.52	23.00
		HIGH	QPSK	22.19	22.32	22.07	23.00
	12	LOW	QPSK	21.14	21.50	21.57	22.00
		MID	QPSK	21.25	21.42	21.52	22.00
		HIGH	QPSK	21.47	21.66	21.47	22.00
	25	LOW	QPSK	21.23	21.36	21.56	22.00
5	1	LOW	Q16	21.31	21.41	21.68	22.00
		MID	Q16	21.66	21.75	21.90	22.00
		HIGH	Q16	21.27	21.56	21.29	22.00
	12	LOW	Q16	20.46	20.58	20.63	21.00
		MID	Q16	20.31	20.44	20.52	21.00
		HIGH	Q16	20.27	20.66	20.33	21.00
	25	LOW	Q16	20.20	20.43	20.61	21.00
5	1	LOW	64QAM	19.92	20.22	20.38	21.00
		MID	64QAM	20.18	20.46	20.56	21.00
		HIGH	64QAM	20.04	20.29	19.95	21.00
	12	LOW	64QAM	19.18	19.58	19.47	20.00
		MID	64QAM	19.39	19.44	19.52	20.00
		HIGH	64QAM	19.28	19.64	19.43	20.00
	25	LOW	64QAM	19.27	19.41	19.65	20.00
Bandwidth (MHz)	RB Size	RB offset	Modulation	37800	38000	38200	Tune-up power(dBm)
10	1	LOW	QPSK	22.10	22.38	22.36	23.00
		MID	QPSK	22.32	22.60	22.46	23.00
		HIGH	QPSK	22.23	22.23	22.17	23.00
	25	LOW	QPSK	21.39	21.39	21.60	22.00
		MID	QPSK	21.21	21.45	21.63	22.00
		HIGH	QPSK	21.35	21.53	21.55	22.00
	50	LOW	QPSK	21.34	21.56	21.55	22.00
10	1	LOW	Q16	21.34	21.44	21.54	22.00
		MID	Q16	21.63	21.78	21.67	22.00
		HIGH	Q16	21.44	21.54	21.40	22.00
	25	LOW	Q16	20.43	20.46	20.65	21.00
		MID	Q16	20.49	20.68	20.41	21.00
		HIGH	Q16	20.34	20.66	20.46	21.00
	50	LOW	Q16	20.38	20.46	20.53	21.00
10	1	LOW	64QAM	19.89	20.27	20.31	21.00
		MID	64QAM	20.23	20.65	20.47	21.00
		HIGH	64QAM	20.13	20.20	20.10	21.00
	25	LOW	64QAM	19.44	19.62	19.47	20.00
		MID	64QAM	19.49	19.47	19.61	20.00
		HIGH	64QAM	19.26	19.43	19.28	20.00
	50	LOW	64QAM	19.42	19.46	19.65	20.00

LTE B38-Full Power -Ant.0							
Bandwidth (MHz)	RB Size	RB offset	Modulation	37825	38000	38175	Tune-up power(dBm)
15	1	LOW	QPSK	22.12	22.16	22.43	23.00
		MID	QPSK	22.47	22.42	22.44	23.00
		HIGH	QPSK	22.10	22.43	22.21	23.00
	36	LOW	QPSK	21.14	21.34	21.42	22.00
		MID	QPSK	21.27	21.55	21.45	22.00
		HIGH	QPSK	21.28	21.69	21.55	22.00
	75	LOW	QPSK	21.17	21.41	21.56	22.00
15	1	LOW	Q16	21.39	21.52	21.63	22.00
		MID	Q16	21.60	21.88	21.62	22.00
		HIGH	Q16	21.41	21.53	21.22	22.00
	36	LOW	Q16	20.40	20.47	20.48	21.00
		MID	Q16	20.52	20.56	20.66	21.00
		HIGH	Q16	20.35	20.44	20.47	21.00
	75	LOW	Q16	20.21	20.55	20.37	21.00
15	1	LOW	64QAM	20.10	20.25	20.41	21.00
		MID	64QAM	20.29	20.63	20.41	21.00
		HIGH	64QAM	20.17	20.20	19.99	21.00
	36	LOW	64QAM	19.20	19.55	19.71	20.00
		MID	64QAM	19.33	19.67	19.48	20.00
		HIGH	64QAM	19.50	19.45	19.47	20.00
	75	LOW	64QAM	19.46	19.55	19.58	20.00
Bandwidth (MHz)	RB Size	RB offset	Modulation	37850	38000	38150	Tune-up power(dBm)
20	1	LOW	QPSK	22.09	22.23	22.38	23.00
		MID	QPSK	22.38	22.57	22.58	23.00
		HIGH	QPSK	22.13	22.34	22.11	23.00
	50	LOW	QPSK	21.26	21.46	21.55	22.00
		MID	QPSK	21.32	21.50	21.50	22.00
		HIGH	QPSK	21.36	21.54	21.40	22.00
	100	LOW	QPSK	21.30	21.49	21.46	22.00
20	1	LOW	Q16	21.28	21.43	21.55	22.00
		MID	Q16	21.58	21.76	21.76	22.00
		HIGH	Q16	21.33	21.55	21.30	22.00
	50	LOW	Q16	20.32	20.50	20.59	21.00
		MID	Q16	20.38	20.55	20.52	21.00
		HIGH	Q16	20.39	20.56	20.41	21.00
	100	LOW	Q16	20.33	20.52	20.50	21.00
20	1	LOW	64QAM	20.03	20.15	20.29	21.00
		MID	64QAM	20.32	20.50	20.49	21.00
		HIGH	64QAM	20.07	20.28	20.06	21.00
	50	LOW	64QAM	19.30	19.51	19.61	20.00
		MID	64QAM	19.39	19.54	19.54	20.00
		HIGH	64QAM	19.39	19.57	19.43	20.00
	100	LOW	64QAM	19.37	19.54	19.51	20.00

LTE B41-Full Power -Ant.0							
Bandwidth (MHz)	RB Size	RB offset	Modulation	39675	40620	41565	Tune-up power(dBm)
5	1	LOW	QPSK	22.26	21.79	21.71	23.00
		MID	QPSK	22.37	21.89	21.77	23.00
		HIGH	QPSK	22.28	21.74	21.68	23.00
	12	LOW	QPSK	21.33	20.77	20.70	22.00
		MID	QPSK	21.42	20.82	20.69	22.00
		HIGH	QPSK	21.35	20.73	20.70	22.00
	25	LOW	QPSK	21.31	20.74	20.79	22.00
	5	LOW	Q16	21.40	20.94	20.88	22.00
		MID	Q16	21.57	21.08	20.98	22.00
		HIGH	Q16	21.46	20.90	20.88	22.00
		LOW	Q16	20.34	19.78	19.76	21.00
		MID	Q16	20.41	19.83	19.75	21.00
		HIGH	Q16	20.34	19.73	19.74	21.00
	25	LOW	Q16	20.34	19.76	19.91	21.00
5	1	LOW	64QAM	20.20	19.69	19.65	21.00
		MID	64QAM	20.35	19.80	19.65	21.00
		HIGH	64QAM	20.26	19.65	19.69	21.00
	12	LOW	64QAM	19.38	18.88	18.80	20.00
		MID	64QAM	19.45	18.91	18.84	20.00
		HIGH	64QAM	19.39	18.82	18.75	20.00
	25	LOW	64QAM	19.37	18.85	18.80	20.00
Bandwidth (MHz)	RB Size	RB offset	Modulation	39700	40620	41540	Tune-up power(dBm)
10	1	LOW	QPSK	22.38	21.93	21.81	23.00
		MID	QPSK	22.50	21.96	21.86	23.00
		HIGH	QPSK	22.30	21.80	21.76	23.00
	25	LOW	QPSK	21.43	20.87	20.79	22.00
		MID	QPSK	21.45	20.88	20.75	22.00
		HIGH	QPSK	21.44	20.76	20.73	22.00
	50	LOW	QPSK	21.46	20.84	20.76	22.00
10	1	LOW	Q16	21.57	21.12	20.99	22.00
		MID	Q16	21.72	21.15	21.07	22.00
		HIGH	Q16	21.63	21.01	20.98	22.00
	25	LOW	Q16	20.45	19.88	19.84	21.00
		MID	Q16	20.48	19.89	19.83	21.00
		HIGH	Q16	20.46	19.73	19.82	21.00
	50	LOW	Q16	20.50	19.86	19.81	21.00
10	1	LOW	64QAM	20.34	19.86	19.80	21.00
		MID	64QAM	20.48	19.87	19.78	21.00
		HIGH	64QAM	20.39	19.74	19.78	21.00
	25	LOW	64QAM	19.48	18.99	18.91	20.00
		MID	64QAM	19.53	18.97	18.87	20.00
		HIGH	64QAM	19.50	18.89	18.81	20.00
	50	LOW	64QAM	19.47	18.88	18.82	20.00

LTE B41-Full Power -Ant.0							
Bandwidth (MHz)	RB Size	RB offset	Modulation	39725	40620	41515	Tune-up power(dBm)
15	1	LOW	QPSK	22.31	21.87	21.66	23.00
		MID	QPSK	22.48	21.94	21.83	23.00
		HIGH	QPSK	22.23	21.72	21.68	23.00
	36	LOW	QPSK	21.49	20.85	20.75	22.00
		MID	QPSK	21.50	20.88	20.76	22.00
		HIGH	QPSK	21.40	20.79	20.68	22.00
	75	LOW	QPSK	21.45	20.78	20.70	22.00
15	1	LOW	Q16	21.71	21.03	20.84	22.00
		MID	Q16	21.68	21.15	21.02	22.00
		HIGH	Q16	21.41	20.89	20.88	22.00
	36	LOW	Q16	20.44	19.84	19.75	21.00
		MID	Q16	20.45	19.82	19.76	21.00
		HIGH	Q16	20.34	19.78	19.73	21.00
	75	LOW	Q16	20.47	19.81	19.77	21.00
15	1	LOW	64QAM	20.27	19.76	19.64	21.00
		MID	64QAM	20.46	19.81	19.81	21.00
		HIGH	64QAM	20.19	19.63	19.68	21.00
	36	LOW	64QAM	19.42	18.88	18.78	20.00
		MID	64QAM	19.44	18.88	18.78	20.00
		HIGH	64QAM	19.35	18.81	18.70	20.00
	75	LOW	64QAM	19.37	18.88	18.78	20.00
Bandwidth (MHz)	RB Size	RB offset	Modulation	39750	40620	41490	Tune-up power(dBm)
20	1	LOW	QPSK	22.22	21.80	21.41	23.00
		MID	QPSK	22.46	21.94	21.84	23.00
		HIGH	QPSK	21.96	21.51	21.51	23.00
	50	LOW	QPSK	21.53	20.91	20.78	22.00
		MID	QPSK	21.49	20.87	20.77	22.00
		HIGH	QPSK	21.30	20.78	20.67	22.00
100	LOW	QPSK	21.46	20.85	20.72	22.00	
20	1	LOW	Q16	21.42	20.95	20.61	22.00
		MID	Q16	21.66	21.14	21.03	22.00
		HIGH	Q16	21.19	20.68	20.72	22.00
	50	LOW	Q16	20.58	20.00	19.87	21.00
		MID	Q16	20.55	19.85	19.84	21.00
		HIGH	Q16	20.34	19.80	19.75	21.00
	100	LOW	Q16	20.47	19.89	19.80	21.00
20	1	LOW	64QAM	20.17	19.65	19.39	21.00
		MID	64QAM	20.44	19.85	19.83	21.00
		HIGH	64QAM	19.85	19.43	19.51	21.00
	50	LOW	64QAM	19.58	18.96	18.84	20.00
		MID	64QAM	19.52	18.94	18.83	20.00
		HIGH	64QAM	19.32	18.85	18.71	20.00
	100	LOW	64QAM	19.45	18.91	18.79	20.00

8.4 WIFI Output Power

WIFI2.4G Output Power

WIFI2.4G						
2.4G	Mode	Channel	Frequency (MHz)	AV power (dBm)	Tune up (dBm)	SAR Test
	11b	1	2412	16.71	18.00	Yes
		6	2437	16.23	18.00	No
		11	2462	16.70	18.00	No
	11g	1	2412	14.22	16.00	No
		6	2437	14.75	16.00	No
		11	2462	15.16	16.00	No
	11n-HT20	1	2412	13.09	14.00	No
		6	2437	12.52	14.00	No
		11	2462	12.90	14.00	No
	11n-HT40	3	2422	13.40	14.00	No
		6	2437	12.91	14.00	No
		9	2452	12.30	14.00	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) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.
- 2) When multiple transmission modes (802.11b/g/n) 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., 802.11b is chosen over 802.11g, and 802.11g chosen over 802.11n.
- 3) 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 = $0.923 * (100\text{mW}/100\text{mW}) = 0.923$ W/Kg, so 2.4G OFDM SAR test is not required.

WIFI5G						
5.2G	Mode	Channal	Frequency (MHz)	AV power (dBm)	Tune up (dBm)	SAR Test
	11a	36	5180	18.24	20.00	No
		44	5220	19.17	20.00	No
		48	5240	19.20	20.00	Yes
	11n20	36	5180	17.68	19.00	No
		44	5220	19.32	20.00	No
		48	5240	19.41	20.00	No
	11n40	38	5190	17.16	19.00	No
		46	5230	19.19	20.00	No
	11ac20	36	5180	19.31	20.00	No
		44	5220	19.39	20.00	No
		48	5240	19.48	20.00	No
	11ac40	38	5190	17.27	19.00	No
46		5230	19.15	20.00	No	
11ac80	42	5210	13.90	14.00	No	
5.3G	11a	52	5260	19.39	20.00	No
		60	5300	19.49	20.00	Yes
		64	5320	18.04	20.00	No
	11n20	52	5260	19.19	20.00	No
		60	5300	19.24	20.00	No
		64	5320	17.94	19.00	No
	11n40	54	5270	19.21	19.50	No
		62	5310	15.87	16.00	No
	11ac20	52	5260	19.46	20.00	No
		60	5300	19.14	20.00	No
		64	5320	18.39	20.00	No
	11ac40	54	5270	19.19	20.00	No
		62	5310	15.21	16.00	No
11ac80	58	5290	14.07	15.00	No	
5.6G	11a	100	5500	17.08	19.00	No
		116	5580	19.46	20.00	No
		140	5700	18.51	20.00	No
	11n20	100	5500	17.06	19.00	No
		116	5580	19.39	20.00	No
		140	5700	18.02	20.00	No
	11n40	102	5510	14.80	15.00	No
		118	5590	19.39	20.00	No
		134	5670	19.40	20.00	No
	11ac20	100	5500	17.97	19.00	No
		116	5580	19.43	20.00	No
		140	5700	18.82	20.00	No
	11ac40	102	5510	14.81	15.00	No
118		5590	19.31	20.00	No	
134		5670	19.41	20.00	No	
11ac80	106	5530	14.49	15.00	No	
	122	5610	19.09	20.00	Yes	
5.8G	11a	149	5745	19.45	20.00	No
		157	5785	19.41	20.00	No
		165	5825	19.38	20.00	No
	11n20	149	5745	19.40	20.00	No
		157	5785	19.37	20.00	No
		165	5825	19.69	20.00	No
	11n40	151	5755	19.52	20.00	No
		159	5795	19.61	20.00	No
	11ac20	149	5745	19.28	20.00	No
		157	5785	19.30	20.00	No
165		5825	19.69	20.00	No	
11ac40	151	5755	19.50	20.00	No	
	159	5795	19.58	20.00	No	
11ac80	155	5775	18.74	20.00	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)When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR. 2)The largest channel bandwidth configuration is selected among the multiple configurations in a frequency band with the same maximum tune-up output power. 3) 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

Bluetooth-Ant.2-Full Power						
Test Mode	Modulation	Channel number	Frequency(MHz)	AV power (dBm)	Tune up (dBm))	SAR Test
BT	DH5	0	2402	11.38	12.00	Yes
		39	2441	10.58	12.00	Yes
		78	2480	11.42	12.00	Yes
	2DH5	0	2402	8.00	9.00	No
		39	2441	7.03	9.00	No
		78	2480	8.12	9.00	No
	3DH5	0	2402	8.06	9.00	No
		39	2441	7.01	9.00	No
		78	2480	8.05	9.00	No
	BLE-1M	0	2402	7.26	8.00	No
		19	2440	7.48	8.00	No
		39	2480	7.59	8.00	No
	BLE-2M	1	2404	7.25	8.00	No
		19	2440	7.45	8.00	No
		38	2478	7.57	8.00	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 $\leq \frac{1}{4}$ dB higher than the primary mode.

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.
Duty Cycle

