

8 CONDUCTED RF OUPUT POWER

8.1	GSM Output Power
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8.2 GSM Output Power

GSM										
GSM1900	ANT	DSI State	Burst Average Power(dBm)			Tune-up Power(dBm)	Frame-Averaged power (dBm)			Tune-up Power(dBm)
Channel			512	661	810		128	190	251	
GSM	ANT0	Full	28.95	28.95	28.95	30.50	19.76	19.76	19.76	21.31
GPRS 1Slots	ANT0	Full	28.88	28.86	28.82	30.00	19.69	19.67	19.63	20.81
GPRS 2Slots	ANT0	Full	26.98	26.60	26.17	27.50	20.85	20.47	20.04	21.37
GPRS 3Slots	ANT0	Full	25.18	24.81	24.37	26.00	20.76	20.39	19.95	21.58
GPRS 4Slots	ANT0	Full	22.93	22.80	22.34	24.00	19.75	19.62	19.16	20.82
EGPRS 1Slots	ANT0	Full	28.87	28.46	28.39	30.00	19.68	19.27	19.20	20.81
EGPRS 2Slots	ANT0	Full	27.34	27.11	26.73	27.50	21.21	20.98	20.60	21.37
EGPRS 3Slots	ANT0	Full	25.46	25.14	24.79	26.00	21.04	20.72	20.37	21.58
EGPRS 4Slots	ANT0	Full	23.25	22.86	22.50	24.00	20.07	19.68	19.32	20.82

8.3 WCDMA Output Power

WCDMA						
WCDMA B2	ANT	DSI State	Output power(dBm)			Tune-up Limit Power(dBm)
Channel			9262	9400	9538	
AMR	ANT0	Full	22.33	22.36	22.48	23.00
RMC	ANT0	Full	22.46	22.51	22.50	23.00
HSDPA Subtest-1	ANT0	Full	21.85	21.67	21.69	22.50
HSDPA Subtest-2	ANT0	Full	21.43	21.24	21.18	22.00
HSDPA Subtest-3	ANT0	Full	21.16	21.30	21.45	22.00
HSDPA Subtest-4	ANT0	Full	20.77	20.91	20.85	21.50
HSUPA Subtest-1	ANT0	Full	19.38	19.33	19.30	20.00
HSUPA Subtest-2	ANT0	Full	19.27	19.23	19.39	20.00
HSUPA Subtest-3	ANT0	Full	19.47	19.67	19.61	20.50
HSUPA Subtest-4	ANT0	Full	19.84	19.73	19.87	20.50
HSUPA Subtest-5	ANT0	Full	21.90	21.77	21.65	22.50

WCDMA						
WCDMA B4	ANT	DSI State	Output power(dBm)			Tune-up Limit Power(dBm)
Channel			1312	1412	1513	
AMR	ANT0	Full	22.02	22.14	22.06	23.00
RMC	ANT0	Full	22.16	22.21	22.20	23.00
HSDPA Subtest-1	ANT0	Full	21.62	21.72	21.52	23.00
HSDPA Subtest-2	ANT0	Full	21.67	21.62	21.71	23.00
HSDPA Subtest-3	ANT0	Full	21.32	21.46	21.44	23.00
HSDPA Subtest-4	ANT0	Full	21.50	21.42	21.58	23.00
HSUPA Subtest-1	ANT0	Full	21.09	21.22	21.37	23.00
HSUPA Subtest-2	ANT0	Full	20.52	20.72	20.52	22.50
HSUPA Subtest-3	ANT0	Full	21.16	21.18	21.25	23.00
HSUPA Subtest-4	ANT0	Full	21.10	21.24	21.38	23.00
HSUPA Subtest-5	ANT0	Full	21.83	21.80	21.85	23.00

8.4 LTE Output Power

Band				LTE Band2					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	18607	18900	19185	Tune-up power(dBm)
1.4	QPSK	1	0	ANT0	Full	22.76	22.62	22.64	24.00
1.4	QPSK	1	2	ANT0	Full	22.76	22.56	22.45	24.00
1.4	QPSK	1	5	ANT0	Full	22.62	22.73	22.71	24.00
1.4	QPSK	3	0	ANT0	Full	22.62	22.61	22.75	24.00
1.4	QPSK	3	1	ANT0	Full	22.59	22.79	22.78	24.00
1.4	QPSK	3	3	ANT0	Full	22.58	22.51	22.78	24.00
1.4	QPSK	6	0	ANT0	Full	21.67	21.56	21.76	23.00
1.4	16QAM	1	0	ANT0	Full	21.47	21.10	21.72	23.00
1.4	16QAM	1	2	ANT0	Full	21.49	21.08	21.87	23.00
1.4	16QAM	1	5	ANT0	Full	21.63	21.27	21.92	23.00
1.4	16QAM	3	0	ANT0	Full	22.25	21.83	21.76	23.00
1.4	16QAM	3	1	ANT0	Full	22.15	22.09	22.17	23.00
1.4	16QAM	3	3	ANT0	Full	22.13	21.53	21.90	23.00
1.4	16QAM	6	0	ANT0	Full	21.03	21.06	21.16	22.00
1.4	64QAM	1	0	ANT0	Full	20.65	20.20	20.80	22.00
1.4	64QAM	1	2	ANT0	Full	20.41	20.26	20.97	22.00
1.4	64QAM	1	5	ANT0	Full	20.61	20.04	21.10	22.00
1.4	64QAM	3	0	ANT0	Full	21.12	20.70	20.59	22.00
1.4	64QAM	3	1	ANT0	Full	21.04	20.90	21.14	22.00
1.4	64QAM	3	3	ANT0	Full	20.95	20.55	21.01	22.00
1.4	64QAM	6	0	ANT0	Full	20.15	20.18	20.09	21.00

Band				LTE Band2					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	18615	18900	19175	Tune-up power(dBm)
3	QPSK	1	0	ANT0	Full	22.83	22.77	22.58	24.00
3	QPSK	1	7	ANT0	Full	22.59	22.76	22.49	24.00
3	QPSK	1	14	ANT0	Full	22.78	22.51	22.70	24.00
3	QPSK	8	0	ANT0	Full	21.39	21.72	21.78	23.00
3	QPSK	8	3	ANT0	Full	21.75	21.68	21.64	23.00
3	QPSK	8	7	ANT0	Full	21.70	21.50	21.88	23.00
3	QPSK	15	0	ANT0	Full	21.50	21.48	21.71	23.00
3	16QAM	1	0	ANT0	Full	21.50	21.05	21.57	23.00
3	16QAM	1	7	ANT0	Full	21.43	21.20	21.86	23.00
3	16QAM	1	14	ANT0	Full	21.70	21.13	21.90	23.00
3	16QAM	8	0	ANT0	Full	21.01	20.78	20.84	22.00
3	16QAM	8	3	ANT0	Full	21.18	21.03	21.25	22.00
3	16QAM	8	7	ANT0	Full	21.18	20.73	20.81	22.00
3	16QAM	15	0	ANT0	Full	21.02	21.14	21.13	22.00
3	64QAM	1	0	ANT0	Full	20.64	20.32	20.89	22.00
3	64QAM	1	7	ANT0	Full	20.52	20.20	20.87	22.00
3	64QAM	1	14	ANT0	Full	20.76	20.00	20.95	22.00
3	64QAM	8	0	ANT0	Full	20.12	19.84	19.49	21.00
3	64QAM	8	3	ANT0	Full	20.08	19.92	20.35	21.00
3	64QAM	8	7	ANT0	Full	20.04	19.44	19.79	21.00
3	64QAM	15	0	ANT0	Full	20.20	20.27	20.31	21.00

Band				LTE Band2					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	18625	18900	19175	Tune-up power(dBm)
5	QPSK	1	0	ANT0	Full	22.66	22.55	22.70	24.00
5	QPSK	1	12	ANT0	Full	22.77	22.76	22.39	24.00
5	QPSK	1	24	ANT0	Full	22.65	22.47	22.72	24.00
5	QPSK	12	0	ANT0	Full	21.52	21.66	21.77	23.00
5	QPSK	12	6	ANT0	Full	21.80	21.67	21.75	23.00
5	QPSK	12	13	ANT0	Full	21.63	21.65	21.69	23.00
5	QPSK	25	0	ANT0	Full	21.73	21.55	21.60	23.00
5	16QAM	1	0	ANT0	Full	21.57	21.14	21.57	23.00
5	16QAM	1	12	ANT0	Full	21.49	21.26	21.84	23.00
5	16QAM	1	24	ANT0	Full	21.50	21.16	21.95	23.00
5	16QAM	12	0	ANT0	Full	21.20	20.74	20.70	22.00
5	16QAM	12	6	ANT0	Full	21.19	21.20	21.19	22.00
5	16QAM	12	13	ANT0	Full	21.22	20.81	20.64	22.00
5	16QAM	25	0	ANT0	Full	21.07	21.05	20.93	22.00
5	64QAM	1	0	ANT0	Full	20.71	20.40	20.79	22.00
5	64QAM	1	12	ANT0	Full	20.67	20.13	20.92	22.00
5	64QAM	1	24	ANT0	Full	20.77	20.13	20.94	22.00
5	64QAM	12	0	ANT0	Full	19.90	19.70	19.64	21.00
5	64QAM	12	6	ANT0	Full	20.09	19.99	20.33	21.00
5	64QAM	12	13	ANT0	Full	20.16	19.56	20.03	21.00
5	64QAM	25	0	ANT0	Full	20.12	20.35	20.24	21.00

Band				LTE Band2					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	18650	18900	19150	Tune-up power(dBm)
10	QPSK	1	0	ANT0	Full	22.73	22.66	22.50	24.00
10	QPSK	1	24	ANT0	Full	22.78	22.75	22.50	24.00
10	QPSK	1	49	ANT0	Full	22.61	22.69	22.68	24.00
10	QPSK	25	0	ANT0	Full	21.41	21.79	21.59	23.00
10	QPSK	25	12	ANT0	Full	21.67	21.77	21.59	23.00
10	QPSK	25	25	ANT0	Full	21.54	21.68	21.88	23.00
10	QPSK	50	0	ANT0	Full	21.66	21.68	21.55	23.00
10	16QAM	1	0	ANT0	Full	21.49	21.24	21.85	23.00
10	16QAM	1	24	ANT0	Full	21.47	21.18	21.90	23.00
10	16QAM	1	49	ANT0	Full	21.45	21.18	21.88	23.00
10	16QAM	25	0	ANT0	Full	21.03	20.72	20.69	22.00
10	16QAM	25	12	ANT0	Full	21.23	21.10	21.01	22.00
10	16QAM	25	25	ANT0	Full	21.11	20.63	20.69	22.00
10	16QAM	50	0	ANT0	Full	21.09	21.27	21.20	22.00
10	64QAM	1	0	ANT0	Full	20.52	20.19	20.84	22.00
10	64QAM	1	24	ANT0	Full	20.41	20.35	20.83	22.00
10	64QAM	1	49	ANT0	Full	20.66	20.02	21.11	22.00
10	64QAM	25	0	ANT0	Full	20.12	19.71	19.60	21.00
10	64QAM	25	12	ANT0	Full	20.05	20.14	20.33	21.00
10	64QAM	25	25	ANT0	Full	19.98	19.59	19.80	21.00
10	64QAM	50	0	ANT0	Full	20.16	20.36	20.14	21.00

Band				LTE Band2					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	18675	18900	19125	Tune-up power(dBm)
15	QPSK	1	0	ANT0	Full	22.78	22.56	22.48	24.00
15	QPSK	1	37	ANT0	Full	22.51	22.53	22.55	24.00
15	QPSK	1	74	ANT0	Full	22.73	22.46	22.77	24.00
15	QPSK	36	0	ANT0	Full	21.39	21.77	21.81	23.00
15	QPSK	36	19	ANT0	Full	21.74	21.54	21.62	23.00
15	QPSK	36	39	ANT0	Full	21.75	21.59	21.66	23.00
15	QPSK	75	0	ANT0	Full	21.67	21.56	21.70	23.00
15	16QAM	1	0	ANT0	Full	21.44	21.03	21.65	23.00
15	16QAM	1	37	ANT0	Full	21.53	21.16	21.95	23.00
15	16QAM	1	74	ANT0	Full	21.45	21.06	21.95	23.00
15	16QAM	36	0	ANT0	Full	21.09	20.62	20.63	22.00
15	16QAM	36	19	ANT0	Full	21.00	21.09	21.17	22.00
15	16QAM	36	39	ANT0	Full	21.27	20.73	20.75	22.00
15	16QAM	75	0	ANT0	Full	21.24	21.16	21.16	22.00
15	64QAM	1	0	ANT0	Full	20.65	20.34	20.77	22.00
15	64QAM	1	37	ANT0	Full	20.40	20.26	20.86	22.00
15	64QAM	1	74	ANT0	Full	20.64	20.05	21.14	22.00
15	64QAM	36	0	ANT0	Full	20.04	19.84	19.48	21.00
15	64QAM	36	19	ANT0	Full	20.02	19.94	20.15	21.00
15	64QAM	36	39	ANT0	Full	20.16	19.56	19.90	21.00
15	64QAM	75	0	ANT0	Full	20.17	20.18	20.33	21.00

Band				LTE Band2					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	18700	18900	19100	Tune-up power(dBm)
20	QPSK	1	0	ANT0	Full	23.04	23.15	22.97	24.00
20	QPSK	1	49	ANT0	Full	23.03	23.05	22.94	24.00
20	QPSK	1	99	ANT0	Full	23.01	23.14	23.12	24.00
20	QPSK	50	0	ANT0	Full	21.93	22.14	22.07	23.00
20	QPSK	50	25	ANT0	Full	22.10	22.05	22.10	23.00
20	QPSK	50	50	ANT0	Full	22.07	22.03	22.14	23.00
20	QPSK	100	0	ANT0	Full	22.04	22.09	22.05	23.00
20	16QAM	1	0	ANT0	Full	21.89	21.54	22.11	23.00
20	16QAM	1	49	ANT0	Full	21.95	21.53	22.29	23.00
20	16QAM	1	99	ANT0	Full	21.97	21.58	22.34	23.00
20	16QAM	50	0	ANT0	Full	21.54	21.08	21.09	22.00
20	16QAM	50	25	ANT0	Full	21.52	21.50	21.51	22.00
20	16QAM	50	50	ANT0	Full	21.57	21.07	21.17	22.00
20	16QAM	100	0	ANT0	Full	21.52	21.55	21.48	22.00
20	64QAM	1	0	ANT0	Full	21.00	20.68	21.15	22.00
20	64QAM	1	49	ANT0	Full	20.93	20.66	21.37	22.00
20	64QAM	1	99	ANT0	Full	21.06	20.47	21.46	22.00
20	64QAM	50	0	ANT0	Full	20.41	20.12	20.01	21.00
20	64QAM	50	25	ANT0	Full	20.38	20.40	20.66	21.00
20	64QAM	50	50	ANT0	Full	20.44	19.93	20.29	21.00
20	64QAM	100	0	ANT0	Full	20.47	20.63	20.61	21.00

Band				LTE Band4					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	19957	20175	20393	Tune-up power(dBm)
1.4	QPSK	1	0	ANT0	Full	22.51	22.56	22.26	24.00
1.4	QPSK	1	2	ANT0	Full	22.33	22.48	22.29	24.00
1.4	QPSK	1	5	ANT0	Full	22.46	22.68	22.33	24.00
1.4	QPSK	3	0	ANT0	Full	22.53	22.77	22.75	24.00
1.4	QPSK	3	1	ANT0	Full	22.52	22.57	22.70	24.00
1.4	QPSK	3	3	ANT0	Full	22.43	22.61	22.72	24.00
1.4	QPSK	6	0	ANT0	Full	21.32	21.69	21.45	23.00
1.4	16QAM	1	0	ANT0	Full	21.19	21.73	21.61	23.00
1.4	16QAM	1	2	ANT0	Full	21.07	21.85	21.66	23.00
1.4	16QAM	1	5	ANT0	Full	21.34	22.07	21.71	23.00
1.4	16QAM	3	0	ANT0	Full	21.49	21.90	21.97	23.00
1.4	16QAM	3	1	ANT0	Full	21.75	21.51	22.04	23.00
1.4	16QAM	3	3	ANT0	Full	21.67	21.99	21.79	23.00
1.4	16QAM	6	0	ANT0	Full	20.77	20.72	21.14	22.00
1.4	64QAM	1	0	ANT0	Full	20.49	20.82	20.73	22.00
1.4	64QAM	1	2	ANT0	Full	20.22	20.83	20.43	22.00
1.4	64QAM	1	5	ANT0	Full	20.18	21.21	21.07	22.00
1.4	64QAM	3	0	ANT0	Full	20.52	20.96	20.86	22.00
1.4	64QAM	3	1	ANT0	Full	20.73	20.63	21.15	22.00
1.4	64QAM	3	3	ANT0	Full	20.54	20.92	20.95	22.00
1.4	64QAM	6	0	ANT0	Full	19.92	19.71	20.05	21.00

Band				LTE Band4					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	19965	20175	20385	Tune-up power(dBm)
3	QPSK	1	0	ANT0	Full	22.37	22.44	22.17	24.00
3	QPSK	1	7	ANT0	Full	22.54	22.37	22.44	24.00
3	QPSK	1	14	ANT0	Full	22.29	22.62	22.37	24.00
3	QPSK	8	0	ANT0	Full	21.40	22.04	21.72	23.00
3	QPSK	8	3	ANT0	Full	21.31	21.63	21.55	23.00
3	QPSK	8	7	ANT0	Full	21.60	21.57	21.50	23.00
3	QPSK	15	0	ANT0	Full	21.47	21.53	21.34	23.00
3	16QAM	1	0	ANT0	Full	21.44	21.55	21.63	23.00
3	16QAM	1	7	ANT0	Full	21.28	21.76	21.53	23.00
3	16QAM	1	14	ANT0	Full	21.16	22.21	21.92	23.00
3	16QAM	8	0	ANT0	Full	20.55	20.86	20.94	22.00
3	16QAM	8	3	ANT0	Full	20.71	20.57	20.78	22.00
3	16QAM	8	7	ANT0	Full	20.62	21.05	20.94	22.00
3	16QAM	15	0	ANT0	Full	20.77	20.44	21.02	22.00
3	64QAM	1	0	ANT0	Full	20.54	20.70	20.81	22.00
3	64QAM	1	7	ANT0	Full	20.23	20.68	20.62	22.00
3	64QAM	1	14	ANT0	Full	20.15	21.28	21.07	22.00
3	64QAM	8	0	ANT0	Full	19.71	20.07	19.90	21.00
3	64QAM	8	3	ANT0	Full	19.85	19.55	19.91	21.00
3	64QAM	8	7	ANT0	Full	19.73	19.92	19.93	21.00
3	64QAM	15	0	ANT0	Full	19.90	19.72	19.84	21.00

Band				LTE Band4					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	19975	20175	20375	Tune-up power(dBm)
5	QPSK	1	0	ANT0	Full	22.58	22.62	22.32	24.00
5	QPSK	1	12	ANT0	Full	22.47	22.51	22.29	24.00
5	QPSK	1	24	ANT0	Full	22.57	22.67	22.43	24.00
5	QPSK	12	0	ANT0	Full	21.28	21.76	21.73	23.00
5	QPSK	12	6	ANT0	Full	21.40	21.55	21.62	23.00
5	QPSK	12	13	ANT0	Full	21.37	21.58	21.52	23.00
5	QPSK	25	0	ANT0	Full	21.36	21.69	21.48	23.00
5	16QAM	1	0	ANT0	Full	21.22	21.50	21.59	23.00
5	16QAM	1	12	ANT0	Full	21.19	21.87	21.55	23.00
5	16QAM	1	24	ANT0	Full	21.28	22.17	21.71	23.00
5	16QAM	12	0	ANT0	Full	20.47	20.87	20.80	22.00
5	16QAM	12	6	ANT0	Full	20.73	20.51	21.01	22.00
5	16QAM	12	13	ANT0	Full	20.48	21.12	20.94	22.00
5	16QAM	25	0	ANT0	Full	20.62	20.57	20.89	22.00
5	64QAM	1	0	ANT0	Full	20.40	20.75	20.64	22.00
5	64QAM	1	12	ANT0	Full	20.05	20.60	20.60	22.00
5	64QAM	1	24	ANT0	Full	20.33	21.14	20.96	22.00
5	64QAM	12	0	ANT0	Full	19.73	20.15	19.90	21.00
5	64QAM	12	6	ANT0	Full	19.78	19.66	20.13	21.00
5	64QAM	12	13	ANT0	Full	19.62	19.94	19.95	21.00
5	64QAM	25	0	ANT0	Full	20.03	19.58	19.94	21.00

Band				LTE Band4					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	20000	20175	20350	Tune-up power(dBm)
10	QPSK	1	0	ANT0	Full	22.48	22.51	22.25	24.00
10	QPSK	1	24	ANT0	Full	22.33	22.60	22.41	24.00
10	QPSK	1	49	ANT0	Full	22.58	22.65	22.48	24.00
10	QPSK	25	0	ANT0	Full	21.54	21.79	21.70	23.00
10	QPSK	25	12	ANT0	Full	21.46	21.45	21.41	23.00
10	QPSK	25	25	ANT0	Full	21.50	21.56	21.68	23.00
10	QPSK	50	0	ANT0	Full	21.36	21.43	21.42	23.00
10	16QAM	1	0	ANT0	Full	21.18	21.80	21.63	23.00
10	16QAM	1	24	ANT0	Full	21.17	21.83	21.74	23.00
10	16QAM	1	49	ANT0	Full	21.31	22.22	21.64	23.00
10	16QAM	25	0	ANT0	Full	20.60	20.95	21.02	22.00
10	16QAM	25	12	ANT0	Full	20.73	20.56	20.77	22.00
10	16QAM	25	25	ANT0	Full	20.56	21.10	20.91	22.00
10	16QAM	50	0	ANT0	Full	20.78	20.70	21.13	22.00
10	64QAM	1	0	ANT0	Full	20.59	20.81	20.65	22.00
10	64QAM	1	24	ANT0	Full	20.10	20.81	20.63	22.00
10	64QAM	1	49	ANT0	Full	20.14	21.15	21.08	22.00
10	64QAM	25	0	ANT0	Full	19.77	20.20	19.79	21.00
10	64QAM	25	12	ANT0	Full	19.94	19.61	20.03	21.00
10	64QAM	25	25	ANT0	Full	19.51	20.12	19.79	21.00
10	64QAM	50	0	ANT0	Full	19.96	19.56	19.86	21.00

Band				LTE Band4					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	20025	20175	20325	Tune-up power(dBm)
15	QPSK	1	0	ANT0	Full	22.30	22.60	22.28	24.00
15	QPSK	1	37	ANT0	Full	22.36	22.45	22.51	24.00
15	QPSK	1	74	ANT0	Full	22.44	22.54	22.58	24.00
15	QPSK	36	0	ANT0	Full	21.38	22.02	21.84	23.00
15	QPSK	36	19	ANT0	Full	21.49	21.51	21.64	23.00
15	QPSK	36	39	ANT0	Full	21.55	21.56	21.52	23.00
15	QPSK	75	0	ANT0	Full	21.24	21.51	21.39	23.00
15	16QAM	1	0	ANT0	Full	21.30	21.65	21.84	23.00
15	16QAM	1	37	ANT0	Full	21.15	21.69	21.62	23.00
15	16QAM	1	74	ANT0	Full	21.28	22.08	21.91	23.00
15	16QAM	36	0	ANT0	Full	20.39	21.02	20.79	22.00
15	16QAM	36	19	ANT0	Full	20.91	20.57	20.82	22.00
15	16QAM	36	39	ANT0	Full	20.49	21.12	20.83	22.00
15	16QAM	75	0	ANT0	Full	20.83	20.57	20.98	22.00
15	64QAM	1	0	ANT0	Full	20.48	20.56	20.56	22.00
15	64QAM	1	37	ANT0	Full	20.17	20.78	20.63	22.00
15	64QAM	1	74	ANT0	Full	20.14	21.13	20.99	22.00
15	64QAM	36	0	ANT0	Full	19.68	20.18	19.93	21.00
15	64QAM	36	19	ANT0	Full	19.71	19.60	19.97	21.00
15	64QAM	36	39	ANT0	Full	19.62	20.17	19.78	21.00
15	64QAM	75	0	ANT0	Full	19.88	19.45	19.90	21.00

Band				LTE Band4					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	20050	20175	20300	Tune-up power(dBm)
20	QPSK	1	0	ANT0	Full	22.93	23.04	22.80	24.00
20	QPSK	1	49	ANT0	Full	22.91	22.99	22.89	24.00
20	QPSK	1	99	ANT0	Full	22.94	22.99	22.95	24.00
20	QPSK	50	0	ANT0	Full	21.92	22.40	22.34	23.00
20	QPSK	50	25	ANT0	Full	21.91	22.06	22.05	23.00
20	QPSK	50	50	ANT0	Full	22.00	22.13	22.07	23.00
20	QPSK	100	0	ANT0	Full	21.84	22.06	21.94	23.00
20	16QAM	1	0	ANT0	Full	21.81	22.15	22.20	23.00
20	16QAM	1	49	ANT0	Full	21.70	22.24	22.13	23.00
20	16QAM	1	99	ANT0	Full	21.78	22.67	22.29	23.00
20	16QAM	50	0	ANT0	Full	21.01	21.48	21.42	22.00
20	16QAM	50	25	ANT0	Full	21.33	21.06	21.40	22.00
20	16QAM	50	50	ANT0	Full	21.04	21.52	21.43	22.00
20	16QAM	100	0	ANT0	Full	21.26	21.08	21.50	22.00
20	64QAM	1	0	ANT0	Full	20.96	21.19	21.18	22.00
20	64QAM	1	49	ANT0	Full	20.62	21.21	21.04	22.00
20	64QAM	1	99	ANT0	Full	20.70	21.72	21.44	22.00
20	64QAM	50	0	ANT0	Full	20.14	20.56	20.29	21.00
20	64QAM	50	25	ANT0	Full	20.34	20.08	20.51	21.00
20	64QAM	50	50	ANT0	Full	20.14	20.52	20.42	21.00
20	64QAM	100	0	ANT0	Full	20.40	20.10	20.46	21.00

Band				LTE Band7					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	20775	21100	21425	Tune-up power(dBm)
5	QPSK	1	0	ANT0	Full	22.68	22.86	22.86	24.00
5	QPSK	1	12	ANT0	Full	22.55	22.90	22.94	24.00
5	QPSK	1	24	ANT0	Full	22.78	22.98	23.03	24.00
5	QPSK	12	0	ANT0	Full	21.54	21.73	21.79	23.00
5	QPSK	12	6	ANT0	Full	21.56	21.88	21.83	23.00
5	QPSK	12	13	ANT0	Full	21.88	21.58	21.98	23.00
5	QPSK	25	0	ANT0	Full	21.77	21.89	21.88	23.00
5	16QAM	1	0	ANT0	Full	22.03	22.03	21.92	23.00
5	16QAM	1	12	ANT0	Full	21.90	21.91	21.94	23.00
5	16QAM	1	24	ANT0	Full	22.35	22.12	21.91	23.00
5	16QAM	12	0	ANT0	Full	20.70	20.93	20.91	22.00
5	16QAM	12	6	ANT0	Full	20.68	20.90	20.89	22.00
5	16QAM	12	13	ANT0	Full	20.76	20.82	20.79	22.00
5	16QAM	25	0	ANT0	Full	20.76	20.98	20.81	22.00
5	64QAM	1	0	ANT0	Full	21.10	20.85	20.91	22.00
5	64QAM	1	12	ANT0	Full	20.89	20.99	20.72	22.00
5	64QAM	1	24	ANT0	Full	21.23	21.06	21.03	22.00
5	64QAM	12	0	ANT0	Full	19.95	20.04	19.89	21.00
5	64QAM	12	6	ANT0	Full	19.76	19.95	19.75	21.00
5	64QAM	12	13	ANT0	Full	19.63	19.63	19.73	21.00
5	64QAM	25	0	ANT0	Full	19.63	20.07	19.70	21.00

Band				LTE Band7					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	20800	21100	21400	Tune-up power(dBm)
10	QPSK	1	0	ANT0	Full	22.87	22.89	22.67	24.00
10	QPSK	1	24	ANT0	Full	22.62	22.72	22.90	24.00
10	QPSK	1	49	ANT0	Full	22.75	22.79	22.87	24.00
10	QPSK	25	0	ANT0	Full	21.72	21.81	21.86	23.00
10	QPSK	25	12	ANT0	Full	21.57	21.74	21.69	23.00
10	QPSK	25	25	ANT0	Full	21.82	21.75	22.02	23.00
10	QPSK	50	0	ANT0	Full	21.67	21.86	21.82	23.00
10	16QAM	1	0	ANT0	Full	22.12	22.02	21.96	23.00
10	16QAM	1	24	ANT0	Full	21.99	22.09	21.84	23.00
10	16QAM	1	49	ANT0	Full	22.26	21.95	21.93	23.00
10	16QAM	25	0	ANT0	Full	20.61	20.70	20.89	22.00
10	16QAM	25	12	ANT0	Full	20.81	20.85	20.69	22.00
10	16QAM	25	25	ANT0	Full	20.73	20.81	20.93	22.00
10	16QAM	50	0	ANT0	Full	20.78	20.85	20.70	22.00
10	64QAM	1	0	ANT0	Full	21.11	21.04	21.02	22.00
10	64QAM	1	24	ANT0	Full	20.89	20.82	20.79	22.00
10	64QAM	1	49	ANT0	Full	21.06	21.24	21.15	22.00
10	64QAM	25	0	ANT0	Full	19.85	20.03	19.93	21.00
10	64QAM	25	12	ANT0	Full	19.98	19.75	19.79	21.00
10	64QAM	25	25	ANT0	Full	19.70	19.91	19.67	21.00
10	64QAM	50	0	ANT0	Full	19.68	19.83	19.67	21.00

Band				LTE Band7					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	20825	21100	21375	Tune-up power(dBm)
15	QPSK	1	0	ANT0	Full	22.78	22.90	22.75	24.00
15	QPSK	1	37	ANT0	Full	22.56	22.93	22.75	24.00
15	QPSK	1	74	ANT0	Full	22.81	22.99	22.88	24.00
15	QPSK	36	0	ANT0	Full	21.63	21.78	21.67	23.00
15	QPSK	36	19	ANT0	Full	21.79	21.94	21.61	23.00
15	QPSK	36	39	ANT0	Full	21.91	21.66	21.97	23.00
15	QPSK	75	0	ANT0	Full	21.53	21.92	21.73	23.00
15	16QAM	1	0	ANT0	Full	22.06	22.02	22.06	23.00
15	16QAM	1	37	ANT0	Full	21.94	21.97	21.87	23.00
15	16QAM	1	74	ANT0	Full	22.19	22.10	21.82	23.00
15	16QAM	36	0	ANT0	Full	20.79	20.92	20.88	22.00
15	16QAM	36	19	ANT0	Full	20.83	20.76	20.95	22.00
15	16QAM	36	39	ANT0	Full	20.66	20.96	20.91	22.00
15	16QAM	75	0	ANT0	Full	20.53	20.85	20.77	22.00
15	64QAM	1	0	ANT0	Full	20.99	21.04	20.94	22.00
15	64QAM	1	37	ANT0	Full	20.88	20.95	20.67	22.00
15	64QAM	1	74	ANT0	Full	21.24	21.08	21.03	22.00
15	64QAM	36	0	ANT0	Full	19.95	20.01	19.95	21.00
15	64QAM	36	19	ANT0	Full	19.72	19.72	19.81	21.00
15	64QAM	36	39	ANT0	Full	19.68	19.90	19.70	21.00
15	64QAM	75	0	ANT0	Full	19.81	19.95	19.73	21.00

Band				LTE Band7					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	20850	21100	21350	Tune-up power(dBm)
20	QPSK	1	0	ANT0	Full	22.96	23.13	22.99	24.00
20	QPSK	1	49	ANT0	Full	22.87	23.04	23.01	24.00
20	QPSK	1	99	ANT0	Full	22.86	23.07	23.11	24.00
20	QPSK	50	0	ANT0	Full	21.85	22.11	22.01	23.00
20	QPSK	50	25	ANT0	Full	21.86	22.07	21.94	23.00
20	QPSK	50	50	ANT0	Full	21.97	21.86	22.09	23.00
20	QPSK	100	0	ANT0	Full	21.82	22.02	21.97	23.00
20	16QAM	1	0	ANT0	Full	22.31	22.24	22.14	23.00
20	16QAM	1	49	ANT0	Full	22.23	22.21	22.09	23.00
20	16QAM	1	99	ANT0	Full	22.43	22.29	22.16	23.00
20	16QAM	50	0	ANT0	Full	20.92	21.05	21.02	22.00
20	16QAM	50	25	ANT0	Full	20.95	21.01	21.00	22.00
20	16QAM	50	50	ANT0	Full	20.95	21.07	21.05	22.00
20	16QAM	100	0	ANT0	Full	20.85	21.13	21.02	22.00
20	64QAM	1	0	ANT0	Full	21.28	21.19	21.21	22.00
20	64QAM	1	49	ANT0	Full	21.11	21.11	20.96	22.00
20	64QAM	1	99	ANT0	Full	21.39	21.41	21.25	22.00
20	64QAM	50	0	ANT0	Full	20.04	20.19	20.10	21.00
20	64QAM	50	25	ANT0	Full	20.06	20.00	20.10	21.00
20	64QAM	50	50	ANT0	Full	19.89	19.97	19.92	21.00
20	64QAM	100	0	ANT0	Full	19.89	20.12	19.97	21.00

Band				LTE Band66					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	131979	132322	132665	Tune-up power(dBm)
1.4	QPSK	1	0	ANT0	Full	22.74	22.37	22.53	24.00
1.4	QPSK	1	2	ANT0	Full	22.72	22.44	22.67	24.00
1.4	QPSK	1	5	ANT0	Full	22.68	22.33	22.51	24.00
1.4	QPSK	3	0	ANT0	Full	22.56	22.53	22.51	24.00
1.4	QPSK	3	1	ANT0	Full	22.62	22.65	22.71	24.00
1.4	QPSK	3	3	ANT0	Full	22.55	22.49	22.57	24.00
1.4	QPSK	6	0	ANT0	Full	21.70	21.69	21.80	23.00
1.4	16QAM	1	0	ANT0	Full	21.66	21.85	21.66	23.00
1.4	16QAM	1	2	ANT0	Full	21.57	21.88	21.87	23.00
1.4	16QAM	1	5	ANT0	Full	21.62	22.17	21.74	23.00
1.4	16QAM	3	0	ANT0	Full	21.55	21.56	21.44	23.00
1.4	16QAM	3	1	ANT0	Full	21.70	21.53	21.59	23.00
1.4	16QAM	3	3	ANT0	Full	21.73	21.70	21.70	23.00
1.4	16QAM	6	0	ANT0	Full	20.56	20.47	20.51	22.00
1.4	64QAM	1	0	ANT0	Full	20.57	20.90	20.58	22.00
1.4	64QAM	1	2	ANT0	Full	20.47	20.77	20.58	22.00
1.4	64QAM	1	5	ANT0	Full	20.81	20.79	20.84	22.00
1.4	64QAM	3	0	ANT0	Full	20.55	20.45	20.64	22.00
1.4	64QAM	3	1	ANT0	Full	20.66	20.67	20.61	22.00
1.4	64QAM	3	3	ANT0	Full	20.43	20.54	20.62	22.00
1.4	64QAM	6	0	ANT0	Full	19.69	19.55	19.53	21.00

Band				LTE Band66					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	131987	132322	132657	Tune-up power(dBm)
3	QPSK	1	0	ANT0	Full	22.62	22.45	22.69	24.00
3	QPSK	1	7	ANT0	Full	22.60	22.41	22.68	24.00
3	QPSK	1	14	ANT0	Full	22.67	22.49	22.59	24.00
3	QPSK	8	0	ANT0	Full	21.51	21.42	21.71	23.00
3	QPSK	8	3	ANT0	Full	21.45	21.60	21.49	23.00
3	QPSK	8	7	ANT0	Full	21.58	21.48	21.63	23.00
3	QPSK	15	0	ANT0	Full	21.62	21.55	21.68	23.00
3	16QAM	1	0	ANT0	Full	21.59	21.94	21.87	23.00
3	16QAM	1	7	ANT0	Full	21.55	22.06	21.89	23.00
3	16QAM	1	14	ANT0	Full	21.62	21.95	21.88	23.00
3	16QAM	8	0	ANT0	Full	20.50	20.54	20.42	22.00
3	16QAM	8	3	ANT0	Full	20.47	20.60	20.53	22.00
3	16QAM	8	7	ANT0	Full	20.69	20.73	20.54	22.00
3	16QAM	15	0	ANT0	Full	20.76	20.46	20.76	22.00
3	64QAM	1	0	ANT0	Full	20.71	20.93	20.76	22.00
3	64QAM	1	7	ANT0	Full	20.64	21.01	20.62	22.00
3	64QAM	1	14	ANT0	Full	20.76	20.96	20.56	22.00
3	64QAM	8	0	ANT0	Full	19.46	19.48	19.45	21.00
3	64QAM	8	3	ANT0	Full	19.56	19.91	19.60	21.00
3	64QAM	8	7	ANT0	Full	19.37	19.74	19.71	21.00
3	64QAM	15	0	ANT0	Full	19.67	19.55	19.62	21.00

Band				LTE Band66					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	131997	132322	132647	Tune-up power(dBm)
5	QPSK	1	0	ANT0	Full	22.74	22.50	22.64	24.00
5	QPSK	1	12	ANT0	Full	22.77	22.57	22.49	24.00
5	QPSK	1	24	ANT0	Full	22.91	22.52	22.72	24.00
5	QPSK	12	0	ANT0	Full	21.56	21.64	21.70	23.00
5	QPSK	12	6	ANT0	Full	21.60	21.49	21.52	23.00
5	QPSK	12	13	ANT0	Full	21.55	21.45	21.51	23.00
5	QPSK	25	0	ANT0	Full	21.47	21.64	21.77	23.00
5	16QAM	1	0	ANT0	Full	21.65	21.93	21.87	23.00
5	16QAM	1	12	ANT0	Full	21.50	22.03	21.74	23.00
5	16QAM	1	24	ANT0	Full	21.55	22.15	21.67	23.00
5	16QAM	12	0	ANT0	Full	20.64	20.54	20.67	22.00
5	16QAM	12	6	ANT0	Full	20.65	20.73	20.48	22.00
5	16QAM	12	13	ANT0	Full	20.64	20.77	20.74	22.00
5	16QAM	25	0	ANT0	Full	20.53	20.38	20.50	22.00
5	64QAM	1	0	ANT0	Full	20.54	21.10	20.57	22.00
5	64QAM	1	12	ANT0	Full	20.51	20.79	20.52	22.00
5	64QAM	1	24	ANT0	Full	20.80	21.03	20.69	22.00
5	64QAM	12	0	ANT0	Full	19.53	19.32	19.41	21.00
5	64QAM	12	6	ANT0	Full	19.68	19.67	19.66	21.00
5	64QAM	12	13	ANT0	Full	19.62	19.66	19.60	21.00
5	64QAM	25	0	ANT0	Full	19.94	19.56	19.74	21.00

Band				LTE Band66					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	132022	132322	132622	Tune-up power(dBm)
10	QPSK	1	0	ANT0	Full	22.70	22.27	22.51	24.00
10	QPSK	1	24	ANT0	Full	22.76	22.34	22.57	24.00
10	QPSK	1	49	ANT0	Full	22.81	22.51	22.54	24.00
10	QPSK	25	0	ANT0	Full	21.57	21.44	21.61	23.00
10	QPSK	25	12	ANT0	Full	21.52	21.59	21.48	23.00
10	QPSK	25	25	ANT0	Full	21.74	21.56	21.62	23.00
10	QPSK	50	0	ANT0	Full	21.62	21.61	21.52	23.00
10	16QAM	1	0	ANT0	Full	21.55	22.01	21.64	23.00
10	16QAM	1	24	ANT0	Full	21.57	22.10	21.87	23.00
10	16QAM	1	49	ANT0	Full	21.49	21.90	21.80	23.00
10	16QAM	25	0	ANT0	Full	20.64	20.57	20.49	22.00
10	16QAM	25	12	ANT0	Full	20.64	20.50	20.62	22.00
10	16QAM	25	25	ANT0	Full	20.70	20.53	20.64	22.00
10	16QAM	50	0	ANT0	Full	20.81	20.55	20.52	22.00
10	64QAM	1	0	ANT0	Full	20.65	21.06	20.84	22.00
10	64QAM	1	24	ANT0	Full	20.49	20.92	20.64	22.00
10	64QAM	1	49	ANT0	Full	20.67	21.03	20.67	22.00
10	64QAM	25	0	ANT0	Full	19.30	19.41	19.63	21.00
10	64QAM	25	12	ANT0	Full	19.76	19.73	19.65	21.00
10	64QAM	25	25	ANT0	Full	19.42	19.58	19.60	21.00
10	64QAM	50	0	ANT0	Full	19.88	19.51	19.68	21.00

Band				LTE Band66					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	132047	132322	132597	Tune-up power(dBm)
15	QPSK	1	0	ANT0	Full	22.55	22.49	22.44	24.00
15	QPSK	1	37	ANT0	Full	22.65	22.55	22.58	24.00
15	QPSK	1	74	ANT0	Full	22.66	22.46	22.68	24.00
15	QPSK	36	0	ANT0	Full	21.47	21.49	21.53	23.00
15	QPSK	36	19	ANT0	Full	21.60	21.41	21.43	23.00
15	QPSK	36	39	ANT0	Full	21.63	21.46	21.52	23.00
15	QPSK	75	0	ANT0	Full	21.71	21.66	21.69	23.00
15	16QAM	1	0	ANT0	Full	21.48	21.88	21.86	23.00
15	16QAM	1	37	ANT0	Full	21.71	21.85	21.83	23.00
15	16QAM	1	74	ANT0	Full	21.66	21.91	21.65	23.00
15	16QAM	36	0	ANT0	Full	20.40	20.49	20.66	22.00
15	16QAM	36	19	ANT0	Full	20.53	20.64	20.71	22.00
15	16QAM	36	39	ANT0	Full	20.55	20.72	20.66	22.00
15	16QAM	75	0	ANT0	Full	20.53	20.51	20.71	22.00
15	64QAM	1	0	ANT0	Full	20.56	21.07	20.66	22.00
15	64QAM	1	37	ANT0	Full	20.65	20.87	20.62	22.00
15	64QAM	1	74	ANT0	Full	20.83	20.93	20.55	22.00
15	64QAM	36	0	ANT0	Full	19.34	19.34	19.66	21.00
15	64QAM	36	19	ANT0	Full	19.64	19.65	19.70	21.00
15	64QAM	36	39	ANT0	Full	19.42	19.64	19.76	21.00
15	64QAM	75	0	ANT0	Full	19.93	19.50	19.62	21.00

Band				LTE Band66					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	132072	132322	132572	Tune-up power(dBm)
20	QPSK	1	0	ANT0	Full	22.94	23.11	22.90	24.00
20	QPSK	1	49	ANT0	Full	22.94	23.09	22.94	24.00
20	QPSK	1	99	ANT0	Full	22.98	23.03	22.97	24.00
20	QPSK	50	0	ANT0	Full	21.96	22.04	21.96	23.00
20	QPSK	50	25	ANT0	Full	21.99	21.98	21.94	23.00
20	QPSK	50	50	ANT0	Full	22.00	22.04	21.98	23.00
20	QPSK	100	0	ANT0	Full	21.98	22.05	22.02	23.00
20	16QAM	1	0	ANT0	Full	21.99	22.39	22.14	23.00
20	16QAM	1	49	ANT0	Full	21.99	22.40	22.16	23.00
20	16QAM	1	99	ANT0	Full	22.03	22.44	22.15	23.00
20	16QAM	50	0	ANT0	Full	20.93	20.90	20.97	22.00
20	16QAM	50	25	ANT0	Full	20.95	21.05	21.00	22.00
20	16QAM	50	50	ANT0	Full	21.03	21.04	21.03	22.00
20	16QAM	100	0	ANT0	Full	21.07	20.91	21.03	22.00
20	64QAM	1	0	ANT0	Full	20.97	21.41	21.09	22.00
20	64QAM	1	49	ANT0	Full	20.96	21.30	21.01	22.00
20	64QAM	1	99	ANT0	Full	21.11	21.32	21.09	22.00
20	64QAM	50	0	ANT0	Full	19.84	19.79	19.93	21.00
20	64QAM	50	25	ANT0	Full	20.03	20.17	20.05	21.00
20	64QAM	50	50	ANT0	Full	19.90	20.04	20.05	21.00
20	64QAM	100	0	ANT0	Full	20.21	19.91	20.05	21.00

8.4 WIFI2.4G Output Power

WIFI2.4G-ANT1-Full Power						
2.4G	Mode	Channal	Frequency (MHz)	AV power (dBm)	Tune up (dBm)	SAR Test
	11b	1	2412	15.12	16.00	Yes
		6	2437	14.60	15.50	Yes
		11	2462	13.77	14.50	Yes
	11g	1	2412	14.35	15.50	No
		6	2437	14.53	15.50	No
		11	2462	13.12	14.00	No
	11n-HT20	1	2412	12.34	13.50	No
		6	2437	12.29	13.50	No
		11	2462	13.11	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) 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 = $0.425 * (35.48\text{mW}/39.81\text{mW}) = 0.379$ W/Kg, so 2.4G OFDM SAR test is not required.

8.5 Bluetooth

8.5.1 Bluetooth Output Power

Bluetooth-Ant.1-Full Power						
Test Mode	Modulation	Channel number	Frequency(MHz)	AV power (dBm)	Tune up (dBm))	SAR Test
BT	DH5	0	2402	6.73	7.50	Yes
		39	2441	5.94	7.00	Yes
		78	2480	5.03	6.00	Yes
	2DH5	0	2402	5.60	6.50	No
		39	2441	4.81	6.00	No
		78	2480	3.96	5.00	No
	3DH5	0	2402	5.59	6.50	No
		39	2441	4.83	6.00	No
		78	2480	3.93	5.00	No
	BLE-1M	0	2402	1.25	2.00	No
		19	2440	1.13	2.00	No
		39	2480	-0.09	1.00	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 77.18% 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.

