

8 CONDUCTED RF OUPUT POWER

8.1	LTE Output Power
8.2	WIFI Output Power
8.3	Bluetooth
8.3.1	Bluetooth Output Power
8.3.2	Bluetooth Duty Cycle

8.1 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	22.75	22.56	23.00
1.4	QPSK	1	2	ANT0	Full	22.46	22.81	22.61	23.00
1.4	QPSK	1	5	ANT0	Full	22.56	22.63	22.29	23.00
1.4	QPSK	3	0	ANT0	Full	22.56	22.41	22.56	23.00
1.4	QPSK	3	1	ANT0	Full	22.43	22.42	22.40	23.00
1.4	QPSK	3	3	ANT0	Full	22.50	22.75	22.49	23.00
1.4	QPSK	6	0	ANT0	Full	21.43	21.30	21.41	22.00
1.4	16QAM	1	0	ANT0	Full	21.95	21.30	21.76	22.00
1.4	16QAM	1	2	ANT0	Full	21.43	21.16	21.86	22.00
1.4	16QAM	1	5	ANT0	Full	21.59	21.48	21.84	22.00
1.4	16QAM	3	0	ANT0	Full	21.80	21.77	21.35	22.00
1.4	16QAM	3	1	ANT0	Full	21.88	21.69	21.44	22.00
1.4	16QAM	3	3	ANT0	Full	21.58	21.31	21.58	22.00
1.4	16QAM	6	0	ANT0	Full	20.82	20.52	20.96	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	22.52	22.76	22.42	23.00
3	QPSK	1	7	ANT0	Full	22.43	22.66	22.44	23.00
3	QPSK	1	14	ANT0	Full	22.56	22.56	22.32	23.00
3	QPSK	8	0	ANT0	Full	21.47	21.49	21.58	22.00
3	QPSK	8	3	ANT0	Full	21.62	21.48	21.65	22.00
3	QPSK	8	7	ANT0	Full	21.37	21.61	21.36	22.00
3	QPSK	15	0	ANT0	Full	21.66	21.51	21.32	22.00
3	16QAM	1	0	ANT0	Full	21.89	21.45	21.82	22.00
3	16QAM	1	7	ANT0	Full	21.54	21.35	21.99	22.00
3	16QAM	1	14	ANT0	Full	21.74	21.32	21.77	22.00
3	16QAM	8	0	ANT0	Full	20.61	20.70	20.40	21.00
3	16QAM	8	3	ANT0	Full	20.68	20.67	20.52	21.00
3	16QAM	8	7	ANT0	Full	20.70	20.35	20.47	21.00
3	16QAM	15	0	ANT0	Full	20.73	20.58	20.94	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	22.52	22.80	22.59	23.00
5	QPSK	1	12	ANT0	Full	22.51	22.67	22.53	23.00
5	QPSK	1	24	ANT0	Full	22.45	22.68	22.42	23.00
5	QPSK	12	0	ANT0	Full	21.50	21.42	21.46	22.00
5	QPSK	12	6	ANT0	Full	21.43	21.35	21.46	22.00
5	QPSK	12	13	ANT0	Full	21.62	21.54	21.43	22.00
5	QPSK	25	0	ANT0	Full	21.44	21.32	21.40	22.00
5	16QAM	1	0	ANT0	Full	21.91	21.51	22.00	22.00
5	16QAM	1	12	ANT0	Full	21.61	21.33	21.87	22.00
5	16QAM	1	24	ANT0	Full	21.55	21.32	21.83	22.00
5	16QAM	12	0	ANT0	Full	20.53	20.58	20.64	21.00
5	16QAM	12	6	ANT0	Full	20.59	20.58	20.51	21.00
5	16QAM	12	13	ANT0	Full	20.57	20.42	20.59	21.00
5	16QAM	25	0	ANT0	Full	20.68	20.52	20.90	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	22.53	22.60	22.60	23.00
10	QPSK	1	24	ANT0	Full	22.46	22.54	22.30	23.00
10	QPSK	1	49	ANT0	Full	22.63	22.53	22.50	23.00
10	QPSK	25	0	ANT0	Full	21.63	21.49	21.47	22.00
10	QPSK	25	12	ANT0	Full	21.40	21.53	21.63	22.00
10	QPSK	25	25	ANT0	Full	21.49	21.53	21.38	22.00
10	QPSK	50	0	ANT0	Full	21.53	21.56	21.46	22.00
10	16QAM	1	0	ANT0	Full	21.79	21.42	21.97	22.00
10	16QAM	1	24	ANT0	Full	21.77	21.52	21.82	22.00
10	16QAM	1	49	ANT0	Full	21.75	21.33	21.89	22.00
10	16QAM	25	0	ANT0	Full	20.76	20.69	20.38	21.00
10	16QAM	25	12	ANT0	Full	20.80	20.54	20.55	21.00
10	16QAM	25	25	ANT0	Full	20.54	20.35	20.62	21.00
10	16QAM	50	0	ANT0	Full	20.50	20.48	20.88	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	22.74	22.71	22.43	23.00
15	QPSK	1	37	ANT0	Full	22.52	22.67	22.44	23.00
15	QPSK	1	74	ANT0	Full	22.51	22.52	22.27	23.00
15	QPSK	36	0	ANT0	Full	21.61	21.25	21.62	22.00
15	QPSK	36	19	ANT0	Full	21.46	21.42	21.59	22.00
15	QPSK	36	39	ANT0	Full	21.63	21.57	21.42	22.00
15	QPSK	75	0	ANT0	Full	21.56	21.48	21.44	22.00
15	16QAM	1	0	ANT0	Full	21.94	21.31	21.85	22.00
15	16QAM	1	37	ANT0	Full	21.73	21.49	21.87	22.00
15	16QAM	1	74	ANT0	Full	21.80	21.43	21.96	22.00
15	16QAM	36	0	ANT0	Full	20.67	20.51	20.47	21.00
15	16QAM	36	19	ANT0	Full	20.60	20.73	20.53	21.00
15	16QAM	36	39	ANT0	Full	20.60	20.31	20.48	21.00
15	16QAM	75	0	ANT0	Full	20.56	20.42	20.81	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	22.61	22.65	22.57	23.00
20	QPSK	1	49	ANT0	Full	22.45	22.60	22.45	23.00
20	QPSK	1	99	ANT0	Full	22.51	22.59	22.40	23.00
20	QPSK	50	0	ANT0	Full	21.54	21.59	21.53	22.00
20	QPSK	50	25	ANT0	Full	21.51	21.40	21.52	22.00
20	QPSK	50	50	ANT0	Full	21.48	21.50	21.41	22.00
20	QPSK	100	0	ANT0	Full	21.54	21.45	21.33	22.00
20	16QAM	1	0	ANT0	Full	21.81	21.38	21.94	22.00
20	16QAM	1	49	ANT0	Full	21.68	21.39	21.91	22.00
20	16QAM	1	99	ANT0	Full	21.65	21.43	21.92	22.00
20	16QAM	50	0	ANT0	Full	20.64	20.60	20.52	21.00
20	16QAM	50	25	ANT0	Full	20.66	20.62	20.52	21.00
20	16QAM	50	50	ANT0	Full	20.56	20.46	20.51	21.00
20	16QAM	100	0	ANT0	Full	20.62	20.53	20.88	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	22.67	22.47	22.67	23.00
1.4	QPSK	1	2	ANT0	Full	22.65	22.66	22.33	23.00
1.4	QPSK	1	5	ANT0	Full	22.56	22.69	22.62	23.00
1.4	QPSK	3	0	ANT0	Full	22.49	22.54	22.57	23.00
1.4	QPSK	3	1	ANT0	Full	22.39	22.45	22.35	23.00
1.4	QPSK	3	3	ANT0	Full	22.54	22.57	22.44	23.00
1.4	QPSK	6	0	ANT0	Full	21.46	21.44	21.30	22.00
1.4	16QAM	1	0	ANT0	Full	21.49	21.59	21.42	22.00
1.4	16QAM	1	2	ANT0	Full	21.76	21.65	21.34	22.00
1.4	16QAM	1	5	ANT0	Full	21.89	21.53	21.88	22.00
1.4	16QAM	3	0	ANT0	Full	21.87	21.65	21.55	22.00
1.4	16QAM	3	1	ANT0	Full	21.87	21.83	21.54	22.00
1.4	16QAM	3	3	ANT0	Full	21.72	21.72	21.63	22.00
1.4	16QAM	6	0	ANT0	Full	20.80	20.94	20.81	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	22.54	22.65	22.63	23.00
3	QPSK	1	7	ANT0	Full	22.52	22.66	22.76	23.00
3	QPSK	1	14	ANT0	Full	22.54	22.53	22.48	23.00
3	QPSK	8	0	ANT0	Full	21.69	21.40	21.48	22.00
3	QPSK	8	3	ANT0	Full	21.47	21.40	21.72	22.00
3	QPSK	8	7	ANT0	Full	21.49	21.59	21.61	22.00
3	QPSK	15	0	ANT0	Full	21.53	21.68	21.38	22.00
3	16QAM	1	0	ANT0	Full	21.75	21.58	21.38	22.00
3	16QAM	1	7	ANT0	Full	21.64	21.70	21.41	22.00
3	16QAM	1	14	ANT0	Full	21.85	21.63	21.79	22.00
3	16QAM	8	0	ANT0	Full	20.87	20.75	20.81	21.00
3	16QAM	8	3	ANT0	Full	20.98	20.89	20.79	21.00
3	16QAM	8	7	ANT0	Full	20.62	20.74	20.74	21.00
3	16QAM	15	0	ANT0	Full	20.56	20.61	20.56	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	22.52	22.79	22.61	23.00
5	QPSK	1	12	ANT0	Full	22.67	22.81	22.61	23.00
5	QPSK	1	24	ANT0	Full	22.55	22.53	22.44	23.00
5	QPSK	12	0	ANT0	Full	21.72	21.43	21.56	22.00
5	QPSK	12	6	ANT0	Full	21.73	21.44	21.73	22.00
5	QPSK	12	13	ANT0	Full	21.36	21.54	21.66	22.00
5	QPSK	25	0	ANT0	Full	21.53	21.71	21.46	22.00
5	16QAM	1	0	ANT0	Full	21.50	21.52	21.55	22.00
5	16QAM	1	12	ANT0	Full	21.76	21.62	21.41	22.00
5	16QAM	1	24	ANT0	Full	21.85	21.58	21.91	22.00
5	16QAM	12	0	ANT0	Full	20.84	20.70	20.66	21.00
5	16QAM	12	6	ANT0	Full	20.79	20.84	20.74	21.00
5	16QAM	12	13	ANT0	Full	20.84	20.53	20.79	21.00
5	16QAM	25	0	ANT0	Full	20.73	20.77	20.68	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	22.59	22.70	22.48	23.00
10	QPSK	1	24	ANT0	Full	22.49	22.76	22.57	23.00
10	QPSK	1	49	ANT0	Full	22.57	22.66	22.43	23.00
10	QPSK	25	0	ANT0	Full	21.43	21.65	21.65	22.00
10	QPSK	25	12	ANT0	Full	21.66	21.63	21.75	22.00
10	QPSK	25	25	ANT0	Full	21.42	21.45	21.52	22.00
10	QPSK	50	0	ANT0	Full	21.60	21.51	21.53	22.00
10	16QAM	1	0	ANT0	Full	21.53	21.62	21.44	22.00
10	16QAM	1	24	ANT0	Full	21.67	21.51	21.49	22.00
10	16QAM	1	49	ANT0	Full	21.76	21.45	21.88	22.00
10	16QAM	25	0	ANT0	Full	20.91	20.59	20.62	21.00
10	16QAM	25	12	ANT0	Full	20.94	20.63	20.63	21.00
10	16QAM	25	25	ANT0	Full	20.73	20.73	20.72	21.00
10	16QAM	50	0	ANT0	Full	20.58	20.60	20.75	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	22.74	22.84	22.57	23.00
15	QPSK	1	37	ANT0	Full	22.69	22.69	22.68	23.00
15	QPSK	1	74	ANT0	Full	22.68	22.57	22.52	23.00
15	QPSK	36	0	ANT0	Full	21.70	21.50	21.57	22.00
15	QPSK	36	19	ANT0	Full	21.46	21.53	21.48	22.00
15	QPSK	36	39	ANT0	Full	21.49	21.62	21.53	22.00
15	QPSK	75	0	ANT0	Full	21.51	21.58	21.53	22.00
15	16QAM	1	0	ANT0	Full	21.58	21.75	21.55	22.00
15	16QAM	1	37	ANT0	Full	21.80	21.57	21.39	22.00
15	16QAM	1	74	ANT0	Full	21.66	21.65	21.96	22.00
15	16QAM	36	0	ANT0	Full	21.00	20.60	20.54	21.00
15	16QAM	36	19	ANT0	Full	21.00	20.84	20.82	21.00
15	16QAM	36	39	ANT0	Full	20.68	20.50	20.70	21.00
15	16QAM	75	0	ANT0	Full	20.64	20.61	20.63	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	22.63	22.71	22.63	23.00
20	QPSK	1	49	ANT0	Full	22.63	22.70	22.63	23.00
20	QPSK	1	99	ANT0	Full	22.58	22.63	22.52	23.00
20	QPSK	50	0	ANT0	Full	21.58	21.61	21.60	22.00
20	QPSK	50	25	ANT0	Full	21.55	21.51	21.59	22.00
20	QPSK	50	50	ANT0	Full	21.51	21.55	21.54	22.00
20	QPSK	100	0	ANT0	Full	21.45	21.60	21.51	22.00
20	16QAM	1	0	ANT0	Full	21.65	21.63	21.41	22.00
20	16QAM	1	49	ANT0	Full	21.76	21.60	21.43	22.00
20	16QAM	1	99	ANT0	Full	21.71	21.60	21.94	22.00
20	16QAM	50	0	ANT0	Full	20.93	20.74	20.69	21.00
20	16QAM	50	25	ANT0	Full	20.93	20.74	20.69	21.00
20	16QAM	50	50	ANT0	Full	20.69	20.60	20.81	21.00
20	16QAM	100	0	ANT0	Full	20.70	20.66	20.66	21.00

Band				LTE Band5					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	20407	20525	20643	Tune-up power(dBm)
1.4	QPSK	1	0	ANT0	Full	23.33	23.23	23.28	23.50
1.4	QPSK	1	2	ANT0	Full	23.30	23.36	22.85	23.50
1.4	QPSK	1	5	ANT0	Full	23.48	23.28	23.45	23.50
1.4	QPSK	3	0	ANT0	Full	23.06	23.19	23.36	23.50
1.4	QPSK	3	1	ANT0	Full	23.34	23.17	23.06	23.50
1.4	QPSK	3	3	ANT0	Full	23.11	23.07	23.21	23.50
1.4	QPSK	6	0	ANT0	Full	22.20	22.34	22.25	22.50
1.4	16QAM	1	0	ANT0	Full	22.44	22.46	22.39	22.50
1.4	16QAM	1	2	ANT0	Full	22.28	22.24	22.24	22.50
1.4	16QAM	1	5	ANT0	Full	22.49	22.37	22.34	22.50
1.4	16QAM	3	0	ANT0	Full	22.11	22.46	22.46	22.50
1.4	16QAM	3	1	ANT0	Full	22.39	22.27	22.08	22.50
1.4	16QAM	3	3	ANT0	Full	22.02	22.31	22.03	22.50
1.4	16QAM	6	0	ANT0	Full	21.23	21.21	21.33	21.50

Band				LTE Band5					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	20415	20525	20635	Tune-up power(dBm)
3	QPSK	1	0	ANT0	Full	23.44	23.38	23.16	23.50
3	QPSK	1	7	ANT0	Full	23.32	23.40	22.99	23.50
3	QPSK	1	14	ANT0	Full	23.42	23.32	23.39	23.50
3	QPSK	8	0	ANT0	Full	22.13	22.11	22.24	22.50
3	QPSK	8	3	ANT0	Full	22.42	22.29	22.20	22.50
3	QPSK	8	7	ANT0	Full	22.22	22.21	22.32	22.50
3	QPSK	15	0	ANT0	Full	22.18	22.19	22.35	22.50
3	16QAM	1	0	ANT0	Full	22.46	22.49	22.31	22.50
3	16QAM	1	7	ANT0	Full	22.42	22.39	22.09	22.50
3	16QAM	1	14	ANT0	Full	22.38	22.39	22.36	22.50
3	16QAM	8	0	ANT0	Full	21.11	21.43	21.39	21.50
3	16QAM	8	3	ANT0	Full	21.39	21.24	21.01	21.50
3	16QAM	8	7	ANT0	Full	21.09	21.19	20.97	21.50
3	16QAM	15	0	ANT0	Full	21.21	21.08	21.24	21.50

Band				LTE Band5					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	20425	20525	20625	Tune-up power(dBm)
5	QPSK	1	0	ANT0	Full	23.41	23.48	23.15	23.50
5	QPSK	1	12	ANT0	Full	23.45	23.45	23.06	23.50
5	QPSK	1	24	ANT0	Full	23.29	23.36	23.32	23.50
5	QPSK	12	0	ANT0	Full	22.28	22.36	22.15	22.50
5	QPSK	12	6	ANT0	Full	22.23	22.17	22.30	22.50
5	QPSK	12	13	ANT0	Full	22.27	22.14	22.14	22.50
5	QPSK	25	0	ANT0	Full	22.33	22.14	22.46	22.50
5	16QAM	1	0	ANT0	Full	22.46	22.41	22.31	22.50
5	16QAM	1	12	ANT0	Full	22.44	22.44	22.33	22.50
5	16QAM	1	24	ANT0	Full	22.31	22.41	22.45	22.50
5	16QAM	12	0	ANT0	Full	21.07	21.38	21.22	21.50
5	16QAM	12	6	ANT0	Full	21.30	21.09	21.20	21.50
5	16QAM	12	13	ANT0	Full	21.14	21.12	21.01	21.50
5	16QAM	25	0	ANT0	Full	21.03	21.27	21.20	21.50

Band				LTE Band5					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	20450	20525	20600	Tune-up power(dBm)
10	QPSK	1	0	ANT0	Full	23.48	23.49	23.39	23.50
10	QPSK	1	24	ANT0	Full	23.45	23.32	23.04	23.50
10	QPSK	1	49	ANT0	Full	23.28	23.24	23.35	23.50
10	QPSK	25	0	ANT0	Full	22.20	22.26	22.19	22.50
10	QPSK	25	12	ANT0	Full	22.27	22.29	22.28	22.50
10	QPSK	25	25	ANT0	Full	22.20	22.14	22.17	22.50
10	QPSK	50	0	ANT0	Full	22.29	22.05	22.39	22.50
10	16QAM	1	0	ANT0	Full	22.47	22.48	22.44	22.50
10	16QAM	1	24	ANT0	Full	22.42	22.44	22.23	22.50
10	16QAM	1	49	ANT0	Full	22.42	22.45	22.40	22.50
10	16QAM	25	0	ANT0	Full	21.14	21.46	21.37	21.50
10	16QAM	25	12	ANT0	Full	21.40	21.10	21.11	21.50
10	16QAM	25	25	ANT0	Full	21.21	21.24	21.07	21.50
10	16QAM	50	0	ANT0	Full	21.10	21.20	21.35	21.50

Band				LTE Band12					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	23017	23095	23173	Tune-up power(dBm)
1.4	QPSK	1	0	ANT0	Full	23.11	23.50	23.32	23.50
1.4	QPSK	1	2	ANT0	Full	23.34	23.33	22.93	23.50
1.4	QPSK	1	5	ANT0	Full	23.42	23.21	23.47	23.50
1.4	QPSK	3	0	ANT0	Full	23.50	23.30	22.98	23.50
1.4	QPSK	3	1	ANT0	Full	23.15	23.43	22.95	23.50
1.4	QPSK	3	3	ANT0	Full	23.18	23.03	23.40	23.50
1.4	QPSK	6	0	ANT0	Full	22.31	22.22	21.85	22.50
1.4	16QAM	1	0	ANT0	Full	22.30	22.38	22.35	22.50
1.4	16QAM	1	2	ANT0	Full	22.29	22.24	22.16	22.50
1.4	16QAM	1	5	ANT0	Full	22.36	22.36	22.36	22.50
1.4	16QAM	3	0	ANT0	Full	22.14	22.28	22.08	22.50
1.4	16QAM	3	1	ANT0	Full	22.44	22.37	22.35	22.50
1.4	16QAM	3	3	ANT0	Full	22.34	22.11	22.29	22.50
1.4	16QAM	6	0	ANT0	Full	21.47	21.11	21.31	21.50

Band				LTE Band12					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	23025	23095	23165	Tune-up power(dBm)
3	QPSK	1	0	ANT0	Full	23.04	23.45	23.13	23.50
3	QPSK	1	7	ANT0	Full	23.13	23.44	23.31	23.50
3	QPSK	1	14	ANT0	Full	23.33	23.49	23.32	23.50
3	QPSK	8	0	ANT0	Full	22.47	22.50	22.13	22.50
3	QPSK	8	3	ANT0	Full	22.14	22.40	22.14	22.50
3	QPSK	8	7	ANT0	Full	22.46	22.10	22.44	22.50
3	QPSK	15	0	ANT0	Full	22.41	22.41	22.08	22.50
3	16QAM	1	0	ANT0	Full	22.45	22.36	22.09	22.50
3	16QAM	1	7	ANT0	Full	22.43	22.47	22.24	22.50
3	16QAM	1	14	ANT0	Full	22.50	22.45	22.44	22.50
3	16QAM	8	0	ANT0	Full	21.30	21.45	21.15	21.50
3	16QAM	8	3	ANT0	Full	21.43	21.20	21.45	21.50
3	16QAM	8	7	ANT0	Full	21.44	21.37	21.30	21.50
3	16QAM	15	0	ANT0	Full	21.40	21.08	21.34	21.50

Band				LTE Band12					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	23035	23095	23155	Tune-up power(dBm)
5	QPSK	1	0	ANT0	Full	23.18	23.49	23.17	23.50
5	QPSK	1	12	ANT0	Full	23.22	23.26	23.03	23.50
5	QPSK	1	24	ANT0	Full	23.49	23.30	23.43	23.50
5	QPSK	12	0	ANT0	Full	22.45	22.32	21.88	22.50
5	QPSK	12	6	ANT0	Full	22.00	22.37	22.02	22.50
5	QPSK	12	13	ANT0	Full	22.25	22.13	22.32	22.50
5	QPSK	25	0	ANT0	Full	22.35	22.32	21.93	22.50
5	16QAM	1	0	ANT0	Full	22.40	22.41	22.38	22.50
5	16QAM	1	12	ANT0	Full	22.39	22.36	22.25	22.50
5	16QAM	1	24	ANT0	Full	22.47	22.48	22.32	22.50
5	16QAM	12	0	ANT0	Full	21.21	21.41	21.16	21.50
5	16QAM	12	6	ANT0	Full	21.47	21.28	21.45	21.50
5	16QAM	12	13	ANT0	Full	21.49	21.21	21.32	21.50
5	16QAM	25	0	ANT0	Full	21.38	20.96	21.41	21.50

Band				LTE Band12					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	23060	23095	23130	Tune-up power(dBm)
10	QPSK	1	0	ANT0	Full	23.14	23.34	23.22	23.50
10	QPSK	1	24	ANT0	Full	23.22	23.37	23.17	23.50
10	QPSK	1	49	ANT0	Full	23.45	23.46	23.41	23.50
10	QPSK	25	0	ANT0	Full	22.36	22.38	22.00	22.50
10	QPSK	25	12	ANT0	Full	22.07	22.39	22.08	22.50
10	QPSK	25	25	ANT0	Full	22.40	22.41	22.40	22.50
10	QPSK	50	0	ANT0	Full	22.34	22.45	22.04	22.50
10	16QAM	1	0	ANT0	Full	22.45	22.49	22.23	22.50
10	16QAM	1	24	ANT0	Full	22.45	22.49	22.31	22.50
10	16QAM	1	49	ANT0	Full	22.48	22.41	22.46	22.50
10	16QAM	25	0	ANT0	Full	21.19	21.48	21.24	21.50
10	16QAM	25	12	ANT0	Full	21.43	21.19	21.40	21.50
10	16QAM	25	25	ANT0	Full	21.48	21.28	21.26	21.50
10	16QAM	50	0	ANT0	Full	21.45	21.09	21.45	21.50

Band				LTE Band13					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	23205	23230	23255	Tune-up power(dBm)
5	QPSK	1	0	ANT0	Full	22.84	22.79	22.82	23.00
5	QPSK	1	12	ANT0	Full	22.87	22.89	22.97	23.00
5	QPSK	1	24	ANT0	Full	22.95	22.83	22.93	23.00
5	QPSK	12	0	ANT0	Full	21.95	21.74	21.97	22.00
5	QPSK	12	6	ANT0	Full	21.67	21.90	21.87	22.00
5	QPSK	12	13	ANT0	Full	21.87	21.77	21.92	22.00
5	QPSK	25	0	ANT0	Full	21.91	21.95	21.87	22.00
5	16QAM	1	0	ANT0	Full	21.82	21.99	21.87	22.00
5	16QAM	1	12	ANT0	Full	21.82	21.96	21.74	22.00
5	16QAM	1	24	ANT0	Full	21.89	21.75	21.71	22.00
5	16QAM	12	0	ANT0	Full	20.92	20.84	21.00	21.00
5	16QAM	12	6	ANT0	Full	20.94	20.99	20.96	21.00
5	16QAM	12	13	ANT0	Full	20.78	20.84	20.88	21.00
5	16QAM	25	0	ANT0	Full	20.89	20.93	20.98	21.00

Band				LTE Band13					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	/	23230	/	Tune-up power(dBm)
10	QPSK	1	0	ANT0	Full	/	22.84	/	23.00
10	QPSK	1	24	ANT0	Full	/	22.85	/	23.00
10	QPSK	1	49	ANT0	Full	/	22.95	/	23.00
10	QPSK	25	0	ANT0	Full	/	21.86	/	22.00
10	QPSK	25	12	ANT0	Full	/	21.85	/	22.00
10	QPSK	25	25	ANT0	Full	/	21.92	/	22.00
10	QPSK	50	0	ANT0	Full	/	21.83	/	22.00
10	16QAM	1	0	ANT0	Full	/	21.92	/	22.00
10	16QAM	1	24	ANT0	Full	/	21.86	/	22.00
10	16QAM	1	49	ANT0	Full	/	21.85	/	22.00
10	16QAM	25	0	ANT0	Full	/	20.93	/	21.00
10	16QAM	25	12	ANT0	Full	/	20.94	/	21.00
10	16QAM	25	25	ANT0	Full	/	20.98	/	21.00
10	16QAM	50	0	ANT0	Full	/	20.96	/	21.00

Band				LTE Band17					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	23755	23790	23825	Tune-up power(dBm)
5	QPSK	1	0	ANT0	Full	23.18	23.49	23.17	23.50
5	QPSK	1	12	ANT0	Full	23.22	23.26	23.03	23.50
5	QPSK	1	24	ANT0	Full	23.49	23.30	23.43	23.50
5	QPSK	12	0	ANT0	Full	22.45	22.32	21.88	22.50
5	QPSK	12	6	ANT0	Full	22.00	22.37	22.02	22.50
5	QPSK	12	13	ANT0	Full	22.25	22.13	22.32	22.50
5	QPSK	25	0	ANT0	Full	22.35	22.32	21.93	22.50
5	16QAM	1	0	ANT0	Full	22.40	22.41	22.38	22.50
5	16QAM	1	12	ANT0	Full	22.39	22.36	22.25	22.50
5	16QAM	1	24	ANT0	Full	22.47	22.48	22.32	22.50
5	16QAM	12	0	ANT0	Full	21.21	21.41	21.16	21.50
5	16QAM	12	6	ANT0	Full	21.47	21.28	21.45	21.50
5	16QAM	12	13	ANT0	Full	21.49	21.21	21.32	21.50
5	16QAM	25	0	ANT0	Full	21.38	20.96	21.41	21.50

Band				LTE Band17					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	23780	23790	23800	Tune-up power(dBm)
10	QPSK	1	0	ANT0	Full	23.47	23.48	23.47	23.50
10	QPSK	1	24	ANT0	Full	23.09	23.46	23.19	23.50
10	QPSK	1	49	ANT0	Full	23.14	23.42	23.44	23.50
10	QPSK	25	0	ANT0	Full	22.32	22.44	22.44	22.50
10	QPSK	25	12	ANT0	Full	22.29	22.23	22.03	22.50
10	QPSK	25	25	ANT0	Full	22.25	22.33	22.05	22.50
10	QPSK	50	0	ANT0	Full	22.32	22.03	22.41	22.50
10	16QAM	1	0	ANT0	Full	22.46	22.48	22.20	22.50
10	16QAM	1	24	ANT0	Full	22.41	22.41	22.22	22.50
10	16QAM	1	49	ANT0	Full	22.48	22.43	22.45	22.50
10	16QAM	25	0	ANT0	Full	21.49	21.09	21.30	21.50
10	16QAM	25	12	ANT0	Full	21.42	21.06	21.22	21.50
10	16QAM	25	25	ANT0	Full	21.50	21.18	21.12	21.50
10	16QAM	50	0	ANT0	Full	21.25	21.39	21.17	21.50

Band				LTE Band25					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	26047	26365	26683	Tune-up power(dBm)
1.4	QPSK	1	0	ANT0	Full	22.98	22.90	22.70	23.00
1.4	QPSK	1	2	ANT0	Full	22.65	22.97	22.36	23.00
1.4	QPSK	1	5	ANT0	Full	22.75	22.71	22.72	23.00
1.4	QPSK	3	0	ANT0	Full	22.80	22.50	22.53	23.00
1.4	QPSK	3	1	ANT0	Full	22.45	22.56	22.45	23.00
1.4	QPSK	3	3	ANT0	Full	22.35	22.60	22.42	23.00
1.4	QPSK	6	0	ANT0	Full	21.47	21.56	21.70	22.00
1.4	16QAM	1	0	ANT0	Full	21.91	21.33	21.91	22.00
1.4	16QAM	1	2	ANT0	Full	21.98	21.40	21.88	22.00
1.4	16QAM	1	5	ANT0	Full	21.88	21.72	21.75	22.00
1.4	16QAM	3	0	ANT0	Full	21.75	21.74	21.56	22.00
1.4	16QAM	3	1	ANT0	Full	21.66	21.67	21.66	22.00
1.4	16QAM	3	3	ANT0	Full	21.70	21.82	21.56	22.00
1.4	16QAM	6	0	ANT0	Full	20.70	20.81	20.90	21.00

Band				LTE Band25					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	26055	26365	26675	Tune-up power(dBm)
3	QPSK	1	0	ANT0	Full	22.92	22.85	22.59	23.00
3	QPSK	1	7	ANT0	Full	22.53	22.80	22.71	23.00
3	QPSK	1	14	ANT0	Full	22.62	22.66	22.72	23.00
3	QPSK	8	0	ANT0	Full	21.63	21.42	21.52	22.00
3	QPSK	8	3	ANT0	Full	21.61	21.49	21.45	22.00
3	QPSK	8	7	ANT0	Full	21.45	21.52	21.34	22.00
3	QPSK	15	0	ANT0	Full	21.35	21.62	21.51	22.00
3	16QAM	1	0	ANT0	Full	21.97	21.47	21.89	22.00
3	16QAM	1	7	ANT0	Full	21.99	21.43	21.82	22.00
3	16QAM	1	14	ANT0	Full	21.82	21.40	21.69	22.00
3	16QAM	8	0	ANT0	Full	20.64	20.52	20.71	21.00
3	16QAM	8	3	ANT0	Full	20.73	20.77	20.66	21.00
3	16QAM	8	7	ANT0	Full	20.64	20.96	20.63	21.00
3	16QAM	15	0	ANT0	Full	20.64	20.62	20.71	21.00

Band				LTE Band25					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	26065	26365	26665	Tune-up power(dBm)
5	QPSK	1	0	ANT0	Full	22.72	22.89	22.61	23.00
5	QPSK	1	12	ANT0	Full	22.69	22.82	22.61	23.00
5	QPSK	1	24	ANT0	Full	22.73	22.80	22.52	23.00
5	QPSK	12	0	ANT0	Full	21.51	21.61	21.44	22.00
5	QPSK	12	6	ANT0	Full	21.52	21.52	21.44	22.00
5	QPSK	12	13	ANT0	Full	21.39	21.51	21.54	22.00
5	QPSK	25	0	ANT0	Full	21.37	21.70	21.45	22.00
5	16QAM	1	0	ANT0	Full	21.99	21.34	21.96	22.00
5	16QAM	1	12	ANT0	Full	21.81	21.50	21.81	22.00
5	16QAM	1	24	ANT0	Full	21.84	21.49	21.93	22.00
5	16QAM	12	0	ANT0	Full	20.76	20.55	20.71	21.00
5	16QAM	12	6	ANT0	Full	20.88	20.71	20.67	21.00
5	16QAM	12	13	ANT0	Full	20.78	20.80	20.65	21.00
5	16QAM	25	0	ANT0	Full	20.77	20.54	20.72	21.00

Band				LTE Band25					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	26090	26365	26640	Tune-up power(dBm)
10	QPSK	1	0	ANT0	Full	22.82	22.80	22.62	23.00
10	QPSK	1	24	ANT0	Full	22.74	22.63	22.61	23.00
10	QPSK	1	49	ANT0	Full	22.45	22.78	22.43	23.00
10	QPSK	25	0	ANT0	Full	21.61	21.65	21.67	22.00
10	QPSK	25	12	ANT0	Full	21.69	21.51	21.46	22.00
10	QPSK	25	25	ANT0	Full	21.60	21.60	21.59	22.00
10	QPSK	50	0	ANT0	Full	21.33	21.60	21.40	22.00
10	16QAM	1	0	ANT0	Full	21.82	21.42	21.86	22.00
10	16QAM	1	24	ANT0	Full	21.87	21.54	21.80	22.00
10	16QAM	1	49	ANT0	Full	21.96	21.64	21.90	22.00
10	16QAM	25	0	ANT0	Full	20.72	20.81	20.55	21.00
10	16QAM	25	12	ANT0	Full	20.77	20.77	20.79	21.00
10	16QAM	25	25	ANT0	Full	20.79	20.73	20.75	21.00
10	16QAM	50	0	ANT0	Full	20.63	20.70	20.83	21.00

Band				LTE Band25					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	26115	26365	26615	Tune-up power(dBm)
15	QPSK	1	0	ANT0	Full	22.86	22.89	22.66	23.00
15	QPSK	1	37	ANT0	Full	22.79	22.88	22.49	23.00
15	QPSK	1	74	ANT0	Full	22.67	22.77	22.68	23.00
15	QPSK	36	0	ANT0	Full	21.78	21.47	21.57	22.00
15	QPSK	36	19	ANT0	Full	21.51	21.50	21.41	22.00
15	QPSK	36	39	ANT0	Full	21.31	21.47	21.37	22.00
15	QPSK	75	0	ANT0	Full	21.44	21.65	21.67	22.00
15	16QAM	1	0	ANT0	Full	21.92	21.34	21.80	22.00
15	16QAM	1	37	ANT0	Full	21.87	21.54	21.97	22.00
15	16QAM	1	74	ANT0	Full	21.86	21.62	21.83	22.00
15	16QAM	36	0	ANT0	Full	20.74	20.56	20.76	21.00
15	16QAM	36	19	ANT0	Full	20.73	20.71	20.70	21.00
15	16QAM	36	39	ANT0	Full	20.82	20.69	20.58	21.00
15	16QAM	75	0	ANT0	Full	20.80	20.54	20.82	21.00

Band				LTE Band25					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	26140	26365	26590	Tune-up power(dBm)
20	QPSK	1	0	ANT0	Full	22.78	22.79	22.67	23.00
20	QPSK	1	49	ANT0	Full	22.64	22.74	22.57	23.00
20	QPSK	1	99	ANT0	Full	22.59	22.73	22.58	23.00
20	QPSK	50	0	ANT0	Full	21.63	21.64	21.55	22.00
20	QPSK	50	25	ANT0	Full	21.63	21.56	21.54	22.00
20	QPSK	50	50	ANT0	Full	21.46	21.59	21.47	22.00
20	QPSK	100	0	ANT0	Full	21.48	21.60	21.54	22.00
20	16QAM	1	0	ANT0	Full	21.93	21.49	21.95	22.00
20	16QAM	1	49	ANT0	Full	21.91	21.56	21.89	22.00
20	16QAM	1	99	ANT0	Full	21.94	21.54	21.83	22.00
20	16QAM	50	0	ANT0	Full	20.75	20.67	20.67	21.00
20	16QAM	50	25	ANT0	Full	20.76	20.65	20.71	21.00
20	16QAM	50	50	ANT0	Full	20.67	20.84	20.60	21.00
20	16QAM	100	0	ANT0	Full	20.71	20.64	20.74	21.00

Band				LTE Band26					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	26697	26865	27033	Tune-up power(dBm)
1.4	QPSK	1	0	ANT0	Full	23.34	23.32	23.34	23.50
1.4	QPSK	1	2	ANT0	Full	23.26	23.12	23.41	23.50
1.4	QPSK	1	5	ANT0	Full	23.22	23.45	23.29	23.50
1.4	QPSK	3	0	ANT0	Full	23.29	23.24	23.37	23.50
1.4	QPSK	3	1	ANT0	Full	22.93	22.88	23.47	23.50
1.4	QPSK	3	3	ANT0	Full	23.31	23.10	23.31	23.50
1.4	QPSK	6	0	ANT0	Full	22.25	22.20	22.13	22.50
1.4	16QAM	1	0	ANT0	Full	22.46	22.33	22.31	22.50
1.4	16QAM	1	2	ANT0	Full	22.42	22.32	22.27	22.50
1.4	16QAM	1	5	ANT0	Full	22.50	22.43	22.30	22.50
1.4	16QAM	3	0	ANT0	Full	21.95	22.33	22.34	22.50
1.4	16QAM	3	1	ANT0	Full	22.26	22.23	22.37	22.50
1.4	16QAM	3	3	ANT0	Full	22.20	22.09	22.23	22.50
1.4	16QAM	6	0	ANT0	Full	21.49	21.28	21.37	21.50

Band				LTE Band26					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	26715	26865	27015	Tune-up power(dBm)
3	QPSK	1	0	ANT0	Full	23.24	23.44	23.22	23.50
3	QPSK	1	7	ANT0	Full	23.35	23.15	23.48	23.50
3	QPSK	1	14	ANT0	Full	22.92	23.36	23.34	23.50
3	QPSK	8	0	ANT0	Full	22.08	22.37	22.38	22.50
3	QPSK	8	3	ANT0	Full	22.02	22.16	22.20	22.50
3	QPSK	8	7	ANT0	Full	22.26	22.01	22.14	22.50
3	QPSK	15	0	ANT0	Full	22.39	22.27	22.14	22.50
3	16QAM	1	0	ANT0	Full	22.48	22.31	22.43	22.50
3	16QAM	1	7	ANT0	Full	22.36	22.45	22.42	22.50
3	16QAM	1	14	ANT0	Full	22.38	22.41	22.37	22.50
3	16QAM	8	0	ANT0	Full	20.98	21.37	21.20	21.50
3	16QAM	8	3	ANT0	Full	21.48	21.06	21.34	21.50
3	16QAM	8	7	ANT0	Full	20.96	21.08	21.33	21.50
3	16QAM	15	0	ANT0	Full	21.41	21.38	21.27	21.50

Band				LTE Band26					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	26715	26865	27015	Tune-up power(dBm)
5	QPSK	1	0	ANT0	Full	23.17	23.47	23.13	23.50
5	QPSK	1	12	ANT0	Full	23.43	23.24	23.48	23.50
5	QPSK	1	24	ANT0	Full	22.97	23.41	23.33	23.50
5	QPSK	12	0	ANT0	Full	22.13	22.27	22.50	22.50
5	QPSK	12	6	ANT0	Full	22.11	21.95	22.13	22.50
5	QPSK	12	13	ANT0	Full	22.08	22.09	22.22	22.50
5	QPSK	25	0	ANT0	Full	22.32	22.43	22.15	22.50
5	16QAM	1	0	ANT0	Full	22.39	22.43	22.48	22.50
5	16QAM	1	12	ANT0	Full	22.46	22.40	22.37	22.50
5	16QAM	1	24	ANT0	Full	22.35	22.31	22.50	22.50
5	16QAM	12	0	ANT0	Full	21.02	21.46	21.15	21.50
5	16QAM	12	6	ANT0	Full	21.35	20.96	21.31	21.50
5	16QAM	12	13	ANT0	Full	21.07	21.23	21.32	21.50
5	16QAM	25	0	ANT0	Full	21.40	21.35	21.48	21.50

Band				LTE Band26					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	26740	26865	26990	Tune-up power(dBm)
10	QPSK	1	0	ANT0	Full	23.24	23.38	23.22	23.50
10	QPSK	1	24	ANT0	Full	23.16	23.17	23.44	23.50
10	QPSK	1	49	ANT0	Full	23.19	23.48	23.34	23.50
10	QPSK	25	0	ANT0	Full	22.14	22.36	22.37	22.50
10	QPSK	25	12	ANT0	Full	21.98	21.97	22.36	22.50
10	QPSK	25	25	ANT0	Full	22.35	22.04	22.41	22.50
10	QPSK	50	0	ANT0	Full	22.22	22.34	22.13	22.50
10	16QAM	1	0	ANT0	Full	22.48	22.45	22.43	22.50
10	16QAM	1	24	ANT0	Full	22.42	22.35	22.41	22.50
10	16QAM	1	49	ANT0	Full	22.49	22.34	22.40	22.50
10	16QAM	25	0	ANT0	Full	20.97	21.41	21.40	21.50
10	16QAM	25	12	ANT0	Full	21.37	21.08	21.38	21.50
10	16QAM	25	25	ANT0	Full	21.13	21.15	21.26	21.50
10	16QAM	50	0	ANT0	Full	21.44	21.34	21.34	21.50

Band				LTE Band26					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	26765	26865	26965	Tune-up power(dBm)
15	QPSK	1	0	ANT0	Full	23.29	23.49	23.45	23.50
15	QPSK	1	37	ANT0	Full	23.28	23.16	23.44	23.50
15	QPSK	1	74	ANT0	Full	23.06	23.46	23.43	23.50
15	QPSK	36	0	ANT0	Full	22.21	22.44	22.44	22.50
15	QPSK	36	19	ANT0	Full	22.05	22.05	22.22	22.50
15	QPSK	36	39	ANT0	Full	22.20	22.11	22.26	22.50
15	QPSK	75	0	ANT0	Full	22.27	22.39	22.21	22.50
15	16QAM	1	0	ANT0	Full	22.46	22.46	22.49	22.50
15	16QAM	1	37	ANT0	Full	22.48	22.46	22.47	22.50
15	16QAM	1	74	ANT0	Full	22.42	22.45	22.47	22.50
15	16QAM	36	0	ANT0	Full	21.06	21.42	21.30	21.50
15	16QAM	36	19	ANT0	Full	21.46	21.03	21.44	21.50
15	16QAM	36	39	ANT0	Full	21.07	21.22	21.37	21.50
15	16QAM	75	0	ANT0	Full	21.50	21.41	21.42	21.50

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	22.72	22.69	22.70	23.00
1.4	QPSK	1	2	ANT0	Full	22.83	22.89	22.72	23.00
1.4	QPSK	1	5	ANT0	Full	22.81	22.84	22.72	23.00
1.4	QPSK	3	0	ANT0	Full	22.61	22.74	22.68	23.00
1.4	QPSK	3	1	ANT0	Full	22.70	22.78	22.84	23.00
1.4	QPSK	3	3	ANT0	Full	22.78	22.47	22.82	23.00
1.4	QPSK	6	0	ANT0	Full	21.70	21.95	22.00	22.00
1.4	16QAM	1	0	ANT0	Full	21.49	21.69	21.93	22.00
1.4	16QAM	1	2	ANT0	Full	21.61	21.79	21.93	22.00
1.4	16QAM	1	5	ANT0	Full	21.50	21.88	21.92	22.00
1.4	16QAM	3	0	ANT0	Full	21.87	21.87	21.81	22.00
1.4	16QAM	3	1	ANT0	Full	21.93	21.83	21.79	22.00
1.4	16QAM	3	3	ANT0	Full	21.68	21.81	21.77	22.00
1.4	16QAM	6	0	ANT0	Full	20.88	20.87	20.73	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	22.82	22.78	22.44	23.00
3	QPSK	1	7	ANT0	Full	22.78	22.58	22.72	23.00
3	QPSK	1	14	ANT0	Full	22.97	22.74	22.50	23.00
3	QPSK	8	0	ANT0	Full	21.48	21.86	21.80	22.00
3	QPSK	8	3	ANT0	Full	21.65	21.51	21.65	22.00
3	QPSK	8	7	ANT0	Full	21.61	21.56	21.82	22.00
3	QPSK	15	0	ANT0	Full	21.69	21.83	21.83	22.00
3	16QAM	1	0	ANT0	Full	21.75	21.82	21.92	22.00
3	16QAM	1	7	ANT0	Full	21.82	21.93	21.79	22.00
3	16QAM	1	14	ANT0	Full	21.76	21.86	21.87	22.00
3	16QAM	8	0	ANT0	Full	20.97	20.70	20.78	21.00
3	16QAM	8	3	ANT0	Full	20.97	20.91	20.90	21.00
3	16QAM	8	7	ANT0	Full	20.56	20.74	20.82	21.00
3	16QAM	15	0	ANT0	Full	20.93	20.64	20.64	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	22.62	22.89	22.44	23.00
5	QPSK	1	12	ANT0	Full	22.88	22.78	22.61	23.00
5	QPSK	1	24	ANT0	Full	22.97	22.91	22.50	23.00
5	QPSK	12	0	ANT0	Full	21.42	21.67	21.68	22.00
5	QPSK	12	6	ANT0	Full	21.74	21.77	21.64	22.00
5	QPSK	12	13	ANT0	Full	21.74	21.75	21.87	22.00
5	QPSK	25	0	ANT0	Full	21.68	21.54	21.73	22.00
5	16QAM	1	0	ANT0	Full	21.54	21.73	21.77	22.00
5	16QAM	1	12	ANT0	Full	21.79	21.83	21.92	22.00
5	16QAM	1	24	ANT0	Full	21.76	21.98	21.86	22.00
5	16QAM	12	0	ANT0	Full	20.87	20.67	20.97	21.00
5	16QAM	12	6	ANT0	Full	20.84	20.80	20.79	21.00
5	16QAM	12	13	ANT0	Full	20.60	20.94	20.65	21.00
5	16QAM	25	0	ANT0	Full	20.97	20.89	20.94	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	22.69	22.98	22.64	23.00
10	QPSK	1	24	ANT0	Full	22.90	22.60	22.53	23.00
10	QPSK	1	49	ANT0	Full	22.70	22.70	22.43	23.00
10	QPSK	25	0	ANT0	Full	21.61	21.59	21.55	22.00
10	QPSK	25	12	ANT0	Full	21.74	21.59	21.86	22.00
10	QPSK	25	25	ANT0	Full	21.72	21.75	21.80	22.00
10	QPSK	50	0	ANT0	Full	21.64	21.66	21.74	22.00
10	16QAM	1	0	ANT0	Full	21.63	21.79	21.95	22.00
10	16QAM	1	24	ANT0	Full	21.53	21.94	21.77	22.00
10	16QAM	1	49	ANT0	Full	21.72	21.96	21.91	22.00
10	16QAM	25	0	ANT0	Full	20.93	20.69	20.82	21.00
10	16QAM	25	12	ANT0	Full	20.95	20.78	20.97	21.00
10	16QAM	25	25	ANT0	Full	20.64	20.97	20.76	21.00
10	16QAM	50	0	ANT0	Full	20.90	20.92	20.78	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	22.82	22.96	22.53	23.00
15	QPSK	1	37	ANT0	Full	22.72	22.73	22.43	23.00
15	QPSK	1	74	ANT0	Full	22.92	22.89	22.50	23.00
15	QPSK	36	0	ANT0	Full	21.46	21.84	21.82	22.00
15	QPSK	36	19	ANT0	Full	21.78	21.62	21.90	22.00
15	QPSK	36	39	ANT0	Full	21.72	21.84	21.73	22.00
15	QPSK	75	0	ANT0	Full	21.57	21.72	21.90	22.00
15	16QAM	1	0	ANT0	Full	21.65	21.74	21.78	22.00
15	16QAM	1	37	ANT0	Full	21.82	21.80	21.91	22.00
15	16QAM	1	74	ANT0	Full	21.63	21.86	21.85	22.00
15	16QAM	36	0	ANT0	Full	20.85	20.96	20.82	21.00
15	16QAM	36	19	ANT0	Full	20.91	20.74	20.82	21.00
15	16QAM	36	39	ANT0	Full	20.62	20.95	20.81	21.00
15	16QAM	75	0	ANT0	Full	21.00	20.88	20.87	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	22.72	22.82	22.56	23.00
20	QPSK	1	49	ANT0	Full	22.79	22.71	22.57	23.00
20	QPSK	1	99	ANT0	Full	22.83	22.85	22.58	23.00
20	QPSK	50	0	ANT0	Full	21.57	21.69	21.69	22.00
20	QPSK	50	25	ANT0	Full	21.63	21.65	21.78	22.00
20	QPSK	50	50	ANT0	Full	21.64	21.84	21.84	22.00
20	QPSK	100	0	ANT0	Full	21.72	21.69	21.75	22.00
20	16QAM	1	0	ANT0	Full	21.60	21.87	21.86	22.00
20	16QAM	1	49	ANT0	Full	21.67	21.94	21.90	22.00
20	16QAM	1	99	ANT0	Full	21.74	21.95	21.95	22.00
20	16QAM	50	0	ANT0	Full	20.98	20.82	20.92	21.00
20	16QAM	50	25	ANT0	Full	20.97	20.89	20.92	21.00
20	16QAM	50	50	ANT0	Full	20.66	20.88	20.77	21.00
20	16QAM	100	0	ANT0	Full	20.98	20.77	20.79	21.00

Band				LTE Band71					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	133147	133297	133447	Tune-up power(dBm)
5	QPSK	1	0	ANT0	Full	23.50	23.43	23.35	23.50
5	QPSK	1	12	ANT0	Full	23.43	23.49	23.31	23.50
5	QPSK	1	24	ANT0	Full	23.49	23.11	23.30	23.50
5	QPSK	12	0	ANT0	Full	22.46	22.40	22.45	22.50
5	QPSK	12	6	ANT0	Full	22.48	22.40	22.31	22.50
5	QPSK	12	13	ANT0	Full	22.45	22.27	22.28	22.50
5	QPSK	25	0	ANT0	Full	22.45	22.33	22.28	22.50
5	16QAM	1	0	ANT0	Full	22.48	22.40	22.43	22.50
5	16QAM	1	12	ANT0	Full	22.34	22.38	22.28	22.50
5	16QAM	1	24	ANT0	Full	22.41	22.50	22.49	22.50
5	16QAM	12	0	ANT0	Full	21.35	21.35	21.34	21.50
5	16QAM	12	6	ANT0	Full	21.49	21.30	21.25	21.50
5	16QAM	12	13	ANT0	Full	21.34	21.44	21.35	21.50
5	16QAM	25	0	ANT0	Full	21.37	21.48	21.33	21.50

Band				LTE Band71					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	133172	133297	133422	Tune-up power(dBm)
10	QPSK	1	0	ANT0	Full	23.37	23.44	23.48	23.50
10	QPSK	1	24	ANT0	Full	23.38	23.45	23.31	23.50
10	QPSK	1	49	ANT0	Full	23.28	23.29	23.32	23.50
10	QPSK	25	0	ANT0	Full	22.42	22.43	22.35	22.50
10	QPSK	25	12	ANT0	Full	22.37	22.47	22.43	22.50
10	QPSK	25	25	ANT0	Full	22.49	22.43	22.49	22.50
10	QPSK	50	0	ANT0	Full	22.37	22.40	22.37	22.50
10	16QAM	1	0	ANT0	Full	22.49	22.50	22.42	22.50
10	16QAM	1	24	ANT0	Full	22.50	22.38	22.34	22.50
10	16QAM	1	49	ANT0	Full	22.36	22.49	22.37	22.50
10	16QAM	25	0	ANT0	Full	21.31	21.41	21.29	21.50
10	16QAM	25	12	ANT0	Full	21.37	21.29	21.46	21.50
10	16QAM	25	25	ANT0	Full	21.36	21.41	21.39	21.50
10	16QAM	50	0	ANT0	Full	21.40	21.34	21.28	21.50

Band				LTE Band71					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	133197	133297	133397	Tune-up power(dBm)
15	QPSK	1	0	ANT0	Full	23.47	23.40	23.50	23.50
15	QPSK	1	37	ANT0	Full	23.49	23.38	23.46	23.50
15	QPSK	1	74	ANT0	Full	23.50	23.07	23.47	23.50
15	QPSK	36	0	ANT0	Full	22.35	22.45	22.38	22.50
15	QPSK	36	19	ANT0	Full	22.37	22.44	22.38	22.50
15	QPSK	36	39	ANT0	Full	22.33	22.38	22.26	22.50
15	QPSK	75	0	ANT0	Full	22.49	22.48	22.50	22.50
15	16QAM	1	0	ANT0	Full	22.47	22.35	22.42	22.50
15	16QAM	1	37	ANT0	Full	22.41	22.34	22.31	22.50
15	16QAM	1	74	ANT0	Full	22.41	22.30	22.48	22.50
15	16QAM	36	0	ANT0	Full	21.42	21.43	21.38	21.50
15	16QAM	36	19	ANT0	Full	21.39	21.47	21.39	21.50
15	16QAM	36	39	ANT0	Full	21.50	21.34	21.33	21.50
15	16QAM	75	0	ANT0	Full	21.42	21.39	21.50	21.50

Band				LTE Band71					
Bandwidth (MHz)	Modulation	RB Size	RB offset	ANT	DSI State	133222	133322	133372	Tune-up power(dBm)
20	QPSK	1	0	ANT0	Full	23.49	23.49	23.47	23.50
20	QPSK	1	49	ANT0	Full	23.44	23.42	23.41	23.50
20	QPSK	1	99	ANT0	Full	23.43	23.22	23.43	23.50
20	QPSK	50	0	ANT0	Full	22.41	22.44	22.44	22.50
20	QPSK	50	25	ANT0	Full	22.44	22.45	22.45	22.50
20	QPSK	50	50	ANT0	Full	22.42	22.42	22.37	22.50
20	QPSK	100	0	ANT0	Full	22.44	22.46	22.43	22.50
20	16QAM	1	0	ANT0	Full	22.46	22.42	22.46	22.50
20	16QAM	1	49	ANT0	Full	22.48	22.48	22.41	22.50
20	16QAM	1	99	ANT0	Full	22.49	22.41	22.46	22.50
20	16QAM	50	0	ANT0	Full	21.46	21.50	21.43	21.50
20	16QAM	50	25	ANT0	Full	21.46	21.44	21.40	21.50
20	16QAM	50	50	ANT0	Full	21.42	21.48	21.45	21.50
20	16QAM	100	0	ANT0	Full	21.44	21.45	21.42	21.50

8.2 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	12.98	14.00	Yes
		6	2437	13.55	14.50	Yes
		11	2462	14.95	16.00	Yes
	11g	1	2412	13.09	14.50	No
		6	2437	13.41	14.50	No
		11	2462	14.53	15.00	No
	11n-HT20	1	2412	12.55	14.50	No
		6	2437	13.14	14.50	No
		11	2462	14.28	15.00	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 = $0.278 * (31.62\text{mW}/25.12\text{mW}) = 0.361$ W/Kg, so 2.4G OFDM SAR test is not required.

8.3 Bluetooth

8.3.1 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	3.67	5.50	Yes
		39	2441	3.77	5.50	Yes
		78	2480	4.05	5.50	Yes
	2DH5	0	2402	1.52	3.00	No
		39	2441	1.24	3.00	No
		78	2480	1.56	3.00	No
	3DH5	0	2402	1.50	3.00	No
		39	2441	1.29	3.00	No
		78	2480	1.57	3.00	No
	BLE-1M	0	2402	-2.45	-1.00	No
		19	2440	-2.77	-1.00	No
		39	2480	-1.91	-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.

8.3.2 Bluetooth Duty Cycle

The Bluetooth duty cycle is 77.14% 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

