

8 CONDUCTED RF OUPUT POWER

8.1	GSM Output Power
8.2	WCDMA Output Power
8.3	LTE Output Power
8.4	WIFI Output Power
8.5	Bluetooth Output Power

GSM									
GSM850	Burst Average Power(dBm)			Tune-up	Division	Frame-Averaged power (dBm)			Tune-up
Channel	128	190	251	Power(dBm)	Factors	128	190	251	Power(dBm)
GPRS 1Slots	29.17	29.26	29.29	30.50	9.19	19.98	20.07	20.10	21.31
GPRS 2Slots	28.84	28.93	28.96	30.00	6.13	22.71	22.80	22.83	23.87
GPRS 3Slots	27.66	27.88	27.85	28.50	4.42	23.24	23.46	23.43	24.08
GPRS 4Slots	26.93	27.15	27.06	28.00	3.18	23.75	23.97	23.88	24.82

GSM									
GSM1900	Burst Average Power(dBm)			Tune-up	Division	Frame-Averaged power (dBm)			Tune-up
Channel	512	661	810	Power(dBm)	Factors	128	190	251	Power(dBm)
GPRS 1Slots	26.30	26.34	26.37	27.50	9.19	17.11	17.15	17.18	18.31
GPRS 2Slots	25.81	25.84	25.88	27.00	6.13	19.68	19.71	19.75	20.87
GPRS 3Slots	24.39	24.45	24.50	25.50	4.42	19.97	20.03	20.08	21.08
GPRS 4Slots	23.90	24.06	24.00	25.00	3.18	20.72	20.88	20.82	21.82

WCDMA				
WCDMA B2	Output power(dBm)			Tune-up Limit Power(dBm)
Channel	9262	9400	9538	
RMC	22.05	22.09	22.06	23.00
HSDPA Subtest-1	21.06	21.08	21.04	22.00
HSDPA Subtest-2	20.97	20.95	20.99	22.00
HSDPA Subtest-3	20.54	20.50	20.54	22.00
HSDPA Subtest-4	20.51	20.48	20.51	22.00
HSUPA Subtest-1	19.76	19.95	19.80	21.00
HSUPA Subtest-2	19.65	19.81	19.95	21.00
HSUPA Subtest-3	19.67	19.49	19.42	21.00
HSUPA Subtest-4	19.32	19.45	19.29	21.00
HSUPA Subtest-5	21.96	22.08	22.20	23.00

WCDMA				
WCDMA B4	Output power(dBm)			Tune-up Limit Power(dBm)
Channel	1312	1412	1513	
RMC	20.34	20.37	20.26	21.50
HSDPA Subtest-1	19.33	19.43	19.25	20.50
HSDPA Subtest-2	19.29	19.29	19.20	20.50
HSDPA Subtest-3	18.78	18.81	18.72	20.00
HSDPA Subtest-4	18.77	18.80	18.71	20.00
HSUPA Subtest-1	18.29	18.32	18.24	19.50
HSUPA Subtest-2	18.15	18.15	18.13	19.00
HSUPA Subtest-3	17.73	17.72	17.59	18.50
HSUPA Subtest-4	17.76	17.71	17.63	18.50
HSUPA Subtest-5	20.29	20.16	20.15	21.50

WCDMA				
WCDMA B5	Output power(dBm)			Tune-up Limit Power(dBm)
Channel	4132	4183	4233	
RMC	22.27	22.53	22.39	23.50
HSDPA Subtest-1	21.28	21.43	21.36	22.50
HSDPA Subtest-2	21.23	21.39	21.33	22.50
HSDPA Subtest-3	20.73	21.04	20.86	22.50
HSDPA Subtest-4	20.61	20.93	20.76	22.50
HSUPA Subtest-1	20.29	20.42	20.33	21.50
HSUPA Subtest-2	20.16	20.32	20.38	21.50
HSUPA Subtest-3	19.77	19.90	20.00	21.50
HSUPA Subtest-4	19.96	19.91	19.95	21.50
HSUPA Subtest-5	22.36	22.52	22.38	23.50

Band				LTE Band2			
Bandwidth (MHz)	Modulation	RB Size	RB offset	18607	18900	19185	Tune-up power(dBm)
1.4	QPSK	1	0	23.13	23.15	23.07	24.00
1.4	QPSK	1	2	23.07	23.11	23.05	24.00
1.4	QPSK	1	5	22.87	22.96	22.84	24.00
1.4	QPSK	3	0	23.11	23.12	23.09	24.00
1.4	QPSK	3	1	22.97	23.11	22.98	24.00
1.4	QPSK	3	3	22.95	23.06	23.01	24.00
1.4	QPSK	6	0	22.04	22.16	22.05	23.00
1.4	16QAM	1	0	22.19	22.21	22.08	23.00
1.4	16QAM	1	2	22.19	22.30	22.18	23.00
1.4	16QAM	1	5	22.07	22.19	22.08	23.00
1.4	16QAM	3	0	22.08	22.16	22.07	23.00
1.4	16QAM	3	1	22.19	22.24	22.20	23.00
1.4	16QAM	3	3	22.11	22.18	22.12	23.00
1.4	16QAM	6	0	21.23	21.30	21.22	22.00
1.4	64QAM	1	0	21.43	21.45	21.40	22.00
1.4	64QAM	1	2	21.63	21.64	21.56	22.00
1.4	64QAM	1	5	21.37	21.45	21.38	22.00
1.4	64QAM	3	0	21.39	21.46	21.40	22.00
1.4	64QAM	3	1	21.37	21.48	21.35	22.00
1.4	64QAM	3	3	21.42	21.43	21.34	22.00
1.4	64QAM	6	0	20.11	20.16	20.14	21.00

Band				LTE Band2			
Bandwidth (MHz)	Modulation	RB Size	RB offset	18615	18900	19175	Tune-up power(dBm)
3	QPSK	1	0	23.02	23.08	23.16	24.00
3	QPSK	1	7	22.96	23.00	23.00	24.00
3	QPSK	1	14	22.93	22.87	22.80	24.00
3	QPSK	8	0	21.98	22.09	22.05	23.00
3	QPSK	8	3	21.96	22.18	21.96	23.00
3	QPSK	8	7	22.02	22.01	21.95	23.00
3	QPSK	15	0	22.09	22.07	21.92	23.00
3	16QAM	1	0	22.28	22.34	22.26	23.00
3	16QAM	1	7	22.58	22.70	22.53	23.00
3	16QAM	1	14	22.15	22.30	22.24	23.00
3	16QAM	8	0	21.01	21.17	20.96	22.00
3	16QAM	8	3	21.04	21.08	21.09	22.00
3	16QAM	8	7	21.15	21.06	21.17	22.00
3	16QAM	15	0	20.94	21.17	20.95	22.00
3	64QAM	1	0	21.41	21.51	21.42	22.00
3	64QAM	1	7	21.66	21.79	21.74	22.00
3	64QAM	1	14	21.42	21.51	21.36	22.00
3	64QAM	8	0	19.96	20.19	20.06	21.00
3	64QAM	8	3	19.93	20.14	20.02	21.00
3	64QAM	8	7	19.96	20.04	19.98	21.00
3	64QAM	15	0	19.98	20.12	20.07	21.00

Band				LTE Band2			
Bandwidth (MHz)	Modulation	RB Size	RB offset	18625	18900	19175	Tune-up power(dBm)
5	QPSK	1	0	22.98	23.17	23.14	24.00
5	QPSK	1	12	23.05	23.08	22.92	24.00
5	QPSK	1	24	22.84	22.90	22.80	24.00
5	QPSK	12	0	21.91	22.18	22.05	23.00
5	QPSK	12	6	21.99	22.12	22.09	23.00
5	QPSK	12	13	21.98	22.13	21.97	23.00
5	QPSK	25	0	22.04	22.15	22.02	23.00
5	16QAM	1	0	22.26	22.35	22.15	23.00
5	16QAM	1	12	22.63	22.56	22.58	23.00
5	16QAM	1	24	22.24	22.40	22.24	23.00
5	16QAM	12	0	21.02	21.16	21.00	22.00
5	16QAM	12	6	21.12	21.12	21.13	22.00
5	16QAM	12	13	21.13	21.10	21.04	22.00
5	16QAM	25	0	21.01	21.15	20.99	22.00
5	64QAM	1	0	21.34	21.50	21.40	22.00
5	64QAM	1	12	21.66	21.80	21.70	22.00
5	64QAM	1	24	21.42	21.48	21.39	22.00
5	64QAM	12	0	19.98	20.09	20.02	21.00
5	64QAM	12	6	20.00	20.13	19.95	21.00
5	64QAM	12	13	20.06	20.10	19.96	21.00
5	64QAM	25	0	20.04	20.19	20.11	21.00

Band				LTE Band2			
Bandwidth (MHz)	Modulation	RB Size	RB offset	18650	18900	19150	Tune-up power(dBm)
10	QPSK	1	0	22.92	23.04	23.03	24.00
10	QPSK	1	24	23.04	22.99	22.97	24.00
10	QPSK	1	49	22.93	22.84	22.75	24.00
10	QPSK	25	0	21.91	22.16	22.11	23.00
10	QPSK	25	12	21.89	22.17	22.06	23.00
10	QPSK	25	25	22.01	22.03	21.97	23.00
10	QPSK	50	0	22.12	22.12	21.96	23.00
10	16QAM	1	0	22.25	22.26	22.24	23.00
10	16QAM	1	24	22.52	22.67	22.50	23.00
10	16QAM	1	49	22.26	22.38	22.24	23.00
10	16QAM	25	0	21.10	21.06	20.95	22.00
10	16QAM	25	12	21.00	21.14	21.02	22.00
10	16QAM	25	25	21.08	21.15	21.09	22.00
10	16QAM	50	0	20.95	21.10	20.92	22.00
10	64QAM	1	0	21.41	21.43	21.38	22.00
10	64QAM	1	24	21.63	21.68	21.67	22.00
10	64QAM	1	49	21.48	21.44	21.38	22.00
10	64QAM	25	0	20.07	20.12	20.10	21.00
10	64QAM	25	12	20.05	20.05	20.00	21.00
10	64QAM	25	25	19.93	20.02	20.04	21.00
10	64QAM	50	0	20.05	20.10	20.05	21.00

Band				LTE Band2			
Bandwidth (MHz)	Modulation	RB Size	RB offset	18675	18900	19125	Tune-up power(dBm)
15	QPSK	1	0	22.95	23.10	23.14	24.00
15	QPSK	1	37	23.01	23.00	23.01	24.00
15	QPSK	1	74	22.96	22.87	22.86	24.00
15	QPSK	36	0	22.03	22.16	22.13	23.00
15	QPSK	36	19	21.96	22.12	21.96	23.00
15	QPSK	36	39	21.98	22.12	22.01	23.00
15	QPSK	75	0	22.11	22.17	21.96	23.00
15	16QAM	1	0	22.18	22.27	22.13	23.00
15	16QAM	1	37	22.55	22.70	22.56	23.00
15	16QAM	1	74	22.23	22.32	22.25	23.00
15	16QAM	36	0	21.00	21.06	20.96	22.00
15	16QAM	36	19	21.06	21.10	21.01	22.00
15	16QAM	36	39	21.14	21.13	21.15	22.00
15	16QAM	75	0	20.96	21.04	20.98	22.00
15	64QAM	1	0	21.36	21.53	21.47	22.00
15	64QAM	1	37	21.62	21.80	21.65	22.00
15	64QAM	1	74	21.38	21.49	21.49	22.00
15	64QAM	36	0	20.00	20.16	20.12	21.00
15	64QAM	36	19	19.98	20.09	19.94	21.00
15	64QAM	36	39	20.01	20.10	19.95	21.00
15	64QAM	75	0	19.98	20.08	20.11	21.00

Band				LTE Band2			
Bandwidth (MHz)	Modulation	RB Size	RB offset	18700	18900	19100	Tune-up power(dBm)
20	QPSK	1	0	23.06	23.19	23.17	24.00
20	QPSK	1	49	23.08	23.11	23.05	24.00
20	QPSK	1	99	22.97	22.98	22.88	24.00
20	QPSK	50	0	22.06	22.21	22.16	23.00
20	QPSK	50	25	22.04	22.19	22.11	23.00
20	QPSK	50	50	22.07	22.14	22.07	23.00
20	QPSK	100	0	22.13	22.18	22.05	23.00
20	16QAM	1	0	22.32	22.37	22.27	23.00
20	16QAM	1	49	22.66	22.71	22.62	23.00
20	16QAM	1	99	22.29	22.43	22.37	23.00
20	16QAM	50	0	21.11	21.21	21.10	22.00
20	16QAM	50	25	21.15	21.21	21.16	22.00
20	16QAM	50	50	21.20	21.21	21.19	22.00
20	16QAM	100	0	21.04	21.19	21.06	22.00
20	64QAM	1	0	21.42	21.56	21.48	22.00
20	64QAM	1	49	21.76	21.83	21.77	22.00
20	64QAM	1	99	21.50	21.54	21.50	22.00
20	64QAM	50	0	20.11	20.24	20.17	21.00
20	64QAM	50	25	20.08	20.20	20.09	21.00
20	64QAM	50	50	20.07	20.17	20.06	21.00
20	64QAM	100	0	20.07	20.20	20.14	21.00

Band				LTE Band4			
Bandwidth (MHz)	Modulation	RB Size	RB offset	19957	20175	20393	Tune-up power(dBm)
1.4	QPSK	1	0	20.66	20.72	20.55	21.50
1.4	QPSK	1	2	20.49	20.61	20.52	21.50
1.4	QPSK	1	5	20.51	20.52	20.46	21.50
1.4	QPSK	3	0	19.68	19.85	19.74	21.50
1.4	QPSK	3	1	19.73	19.81	19.75	21.50
1.4	QPSK	3	3	19.64	19.69	19.62	21.50
1.4	QPSK	6	0	19.65	19.82	19.79	20.50
1.4	16QAM	1	0	19.94	20.16	20.04	20.50
1.4	16QAM	1	2	20.01	19.94	19.91	20.50
1.4	16QAM	1	5	19.87	19.89	19.99	20.50
1.4	16QAM	3	0	18.68	18.78	18.78	20.50
1.4	16QAM	3	1	18.83	18.88	18.74	20.50
1.4	16QAM	3	3	18.73	18.70	18.61	20.50
1.4	16QAM	6	0	18.75	18.79	18.72	19.50
1.4	64QAM	1	0	19.17	19.18	19.14	20.00
1.4	64QAM	1	2	19.39	19.59	19.38	20.00
1.4	64QAM	1	5	19.00	19.13	19.01	20.00
1.4	64QAM	3	0	17.76	17.87	17.82	18.50
1.4	64QAM	3	1	17.71	17.86	17.84	18.50
1.4	64QAM	3	3	17.48	17.63	17.50	18.50
1.4	64QAM	6	0	17.65	17.72	17.66	18.50

Band				LTE Band4			
Bandwidth (MHz)	Modulation	RB Size	RB offset	19965	20175	20385	Tune-up power(dBm)
3	QPSK	1	0	20.62	20.78	20.52	21.50
3	QPSK	1	7	20.53	20.56	20.40	21.50
3	QPSK	1	14	20.48	20.45	20.50	21.50
3	QPSK	8	0	19.65	19.88	19.68	20.50
3	QPSK	8	3	19.76	19.75	19.72	20.50
3	QPSK	8	7	19.70	19.66	19.68	20.50
3	QPSK	15	0	19.68	19.83	19.71	20.50
3	16QAM	1	0	19.94	20.11	19.96	20.50
3	16QAM	1	7	19.97	19.97	19.96	20.50
3	16QAM	1	14	19.78	20.02	20.02	20.50
3	16QAM	8	0	18.68	18.78	18.74	19.50
3	16QAM	8	3	18.84	18.80	18.69	19.50
3	16QAM	8	7	18.62	18.73	18.60	19.50
3	16QAM	15	0	18.77	18.84	18.74	19.50
3	64QAM	1	0	19.06	19.20	19.05	20.00
3	64QAM	1	7	19.36	19.49	19.41	20.00
3	64QAM	1	14	19.02	19.17	19.08	20.00
3	64QAM	8	0	17.82	17.79	17.85	18.50
3	64QAM	8	3	17.72	17.90	17.83	18.50
3	64QAM	8	7	17.53	17.62	17.62	18.50
3	64QAM	15	0	17.64	17.70	17.64	18.50

Band				LTE Band4			
Bandwidth (MHz)	Modulation	RB Size	RB offset	19975	20175	20375	Tune-up power(dBm)
5	QPSK	1	0	20.59	20.84	20.60	21.50
5	QPSK	1	12	20.45	20.61	20.49	21.50
5	QPSK	1	24	20.49	20.58	20.44	21.50
5	QPSK	12	0	19.72	19.86	19.78	20.50
5	QPSK	12	6	19.72	19.81	19.80	20.50
5	QPSK	12	13	19.66	19.66	19.67	20.50
5	QPSK	25	0	19.65	19.80	19.69	20.50
5	16QAM	1	0	20.03	20.08	20.01	20.50
5	16QAM	1	12	20.00	19.97	19.89	20.50
5	16QAM	1	24	19.74	20.03	19.97	20.50
5	16QAM	12	0	18.66	18.92	18.68	19.50
5	16QAM	12	6	18.86	18.82	18.77	19.50
5	16QAM	12	13	18.63	18.72	18.60	19.50
5	16QAM	25	0	18.75	18.72	18.70	19.50
5	64QAM	1	0	19.13	19.20	19.14	20.00
5	64QAM	1	12	19.44	19.54	19.38	20.00
5	64QAM	1	24	19.09	19.15	18.99	20.00
5	64QAM	12	0	17.85	17.87	17.89	18.50
5	64QAM	12	6	17.66	17.90	17.73	18.50
5	64QAM	12	13	17.56	17.59	17.57	18.50
5	64QAM	25	0	17.62	17.71	17.62	18.50

Band				LTE Band4			
Bandwidth (MHz)	Modulation	RB Size	RB offset	20000	20175	20350	Tune-up power(dBm)
10	QPSK	1	0	20.57	20.76	20.59	21.50
10	QPSK	1	24	20.46	20.66	20.43	21.50
10	QPSK	1	49	20.48	20.48	20.45	21.50
10	QPSK	25	0	19.75	19.81	19.76	20.50
10	QPSK	25	12	19.79	19.76	19.76	20.50
10	QPSK	25	25	19.67	19.61	19.57	20.50
10	QPSK	50	0	19.66	19.79	19.75	20.50
10	16QAM	1	0	19.93	20.07	19.99	20.50
10	16QAM	1	24	19.98	20.01	19.92	20.50
10	16QAM	1	49	19.88	19.99	19.92	20.50
10	16QAM	25	0	18.64	18.87	18.71	19.50
10	16QAM	25	12	18.81	18.85	18.82	19.50
10	16QAM	25	25	18.68	18.65	18.49	19.50
10	16QAM	50	0	18.77	18.73	18.78	19.50
10	64QAM	1	0	19.06	19.16	19.15	20.00
10	64QAM	1	24	19.44	19.59	19.34	20.00
10	64QAM	1	49	19.00	19.12	19.04	20.00
10	64QAM	25	0	17.82	17.89	17.85	18.50
10	64QAM	25	12	17.69	17.80	17.78	18.50
10	64QAM	25	25	17.57	17.70	17.53	18.50
10	64QAM	50	0	17.69	17.78	17.70	18.50

Band				LTE Band4			
Bandwidth (MHz)	Modulation	RB Size	RB offset	20025	20175	20325	Tune-up power(dBm)
15	QPSK	1	0	20.65	20.74	20.58	21.50
15	QPSK	1	37	20.54	20.61	20.45	21.50
15	QPSK	1	74	20.47	20.51	20.55	21.50
15	QPSK	36	0	19.77	19.82	19.79	20.50
15	QPSK	36	19	19.67	19.81	19.74	20.50
15	QPSK	36	39	19.69	19.61	19.61	20.50
15	QPSK	75	0	19.61	19.72	19.80	20.50
15	16QAM	1	0	20.01	20.05	20.06	20.50
15	16QAM	1	37	20.04	19.98	20.03	20.50
15	16QAM	1	74	19.80	19.90	19.97	20.50
15	16QAM	36	0	18.78	18.89	18.71	19.50
15	16QAM	36	19	18.82	18.89	18.72	19.50
15	16QAM	36	39	18.70	18.62	18.62	19.50
15	16QAM	75	0	18.77	18.77	18.66	19.50
15	64QAM	1	0	19.16	19.17	19.15	20.00
15	64QAM	1	37	19.44	19.50	19.38	20.00
15	64QAM	1	74	19.03	19.14	19.05	20.00
15	64QAM	36	0	17.76	17.87	17.80	18.50
15	64QAM	36	19	17.78	17.81	17.77	18.50
15	64QAM	36	39	17.56	17.70	17.54	18.50
15	64QAM	75	0	17.55	17.80	17.66	18.50

Band				LTE Band4			
Bandwidth (MHz)	Modulation	RB Size	RB offset	20050	20175	20300	Tune-up power(dBm)
20	QPSK	1	0	20.70	20.85	20.65	21.50
20	QPSK	1	49	20.58	20.69	20.54	21.50
20	QPSK	1	99	20.56	20.60	20.56	21.50
20	QPSK	50	0	19.78	19.92	19.80	20.50
20	QPSK	50	25	19.80	19.90	19.81	20.50
20	QPSK	50	50	19.74	19.75	19.69	20.50
20	QPSK	100	0	19.72	19.86	19.84	20.50
20	16QAM	1	0	20.05	20.18	20.09	20.50
20	16QAM	1	49	20.06	20.08	20.04	20.50
20	16QAM	1	99	19.89	20.04	20.03	20.50
20	16QAM	50	0	18.79	18.93	18.81	19.50
20	16QAM	50	25	18.90	18.92	18.84	19.50
20	16QAM	50	50	18.75	18.76	18.64	19.50
20	16QAM	100	0	18.78	18.85	18.81	19.50
20	64QAM	1	0	19.21	19.31	19.18	20.00
20	64QAM	1	49	19.50	19.60	19.48	20.00
20	64QAM	1	99	19.15	19.19	19.12	20.00
20	64QAM	50	0	17.90	17.93	17.90	18.50
20	64QAM	50	25	17.81	17.91	17.86	18.50
20	64QAM	50	50	17.62	17.74	17.64	18.50
20	64QAM	100	0	17.70	17.81	17.74	18.50

Band				LTE Band5			
Bandwidth (MHz)	Modulation	RB Size	RB offset	20407	20525	20643	Tune-up power(dBm)
1.4	QPSK	1	0	23.25	23.38	23.37	24.00
1.4	QPSK	1	2	23.34	23.35	23.32	24.00
1.4	QPSK	1	5	23.11	23.26	23.14	24.00
1.4	QPSK	3	0	23.26	23.34	23.19	24.00
1.4	QPSK	3	1	23.21	23.32	23.28	24.00
1.4	QPSK	3	3	23.24	23.31	23.24	24.00
1.4	QPSK	6	0	22.30	22.31	22.23	23.00
1.4	16QAM	1	0	22.45	22.60	22.56	23.00
1.4	16QAM	1	2	22.60	22.72	22.69	23.00
1.4	16QAM	1	5	22.57	22.62	22.59	23.00
1.4	16QAM	3	0	22.44	22.51	22.38	23.00
1.4	16QAM	3	1	22.42	22.55	22.48	23.00
1.4	16QAM	3	3	22.36	22.50	22.47	23.00
1.4	16QAM	6	0	21.16	21.23	21.12	22.00
1.4	64QAM	1	0	21.33	21.38	21.34	22.00
1.4	64QAM	1	2	21.39	21.51	21.36	22.00
1.4	64QAM	1	5	21.23	21.36	21.25	22.00
1.4	64QAM	3	0	21.45	21.47	21.45	22.00
1.4	64QAM	3	1	21.45	21.51	21.41	22.00
1.4	64QAM	3	3	21.45	21.49	21.41	22.00
1.4	64QAM	6	0	20.51	20.63	20.61	21.00

Band				LTE Band5			
Bandwidth (MHz)	Modulation	RB Size	RB offset	20415	20525	20635	Tune-up power(dBm)
3	QPSK	1	0	23.25	23.36	23.28	24.00
3	QPSK	1	7	23.26	23.35	23.35	24.00
3	QPSK	1	14	23.11	23.19	23.01	24.00
3	QPSK	8	0	22.22	22.24	22.26	23.00
3	QPSK	8	3	22.15	22.25	22.24	23.00
3	QPSK	8	7	22.18	22.18	22.16	23.00
3	QPSK	15	0	22.04	22.14	22.02	23.00
3	16QAM	1	0	22.54	22.57	22.59	23.00
3	16QAM	1	7	22.78	22.69	22.73	23.00
3	16QAM	1	14	22.36	22.47	22.50	23.00
3	16QAM	8	0	21.27	21.23	21.17	22.00
3	16QAM	8	3	21.27	21.21	21.20	22.00
3	16QAM	8	7	21.29	21.29	21.23	22.00
3	16QAM	15	0	21.31	21.26	21.23	22.00
3	64QAM	1	0	21.37	21.37	21.36	22.00
3	64QAM	1	7	21.38	21.46	21.39	22.00
3	64QAM	1	14	21.21	21.34	21.19	22.00
3	64QAM	8	0	20.16	20.34	20.16	21.00
3	64QAM	8	3	20.26	20.37	20.29	21.00
3	64QAM	8	7	20.15	20.32	20.24	21.00
3	64QAM	15	0	20.18	20.35	20.15	21.00

Band				LTE Band5			
Bandwidth (MHz)	Modulation	RB Size	RB offset	20425	20525	20625	Tune-up power(dBm)
5	QPSK	1	0	23.20	23.44	23.25	24.00
5	QPSK	1	12	23.26	23.34	23.30	24.00
5	QPSK	1	24	23.05	23.14	23.04	24.00
5	QPSK	12	0	22.26	22.26	22.30	23.00
5	QPSK	12	6	22.16	22.24	22.23	23.00
5	QPSK	12	13	22.15	22.19	22.16	23.00
5	QPSK	25	0	22.09	22.14	22.12	23.00
5	16QAM	1	0	22.60	22.48	22.54	23.00
5	16QAM	1	12	22.76	22.69	22.75	23.00
5	16QAM	1	24	22.47	22.50	22.54	23.00
5	16QAM	12	0	21.17	21.23	21.14	22.00
5	16QAM	12	6	21.26	21.31	21.17	22.00
5	16QAM	12	13	21.31	21.31	21.15	22.00
5	16QAM	25	0	21.30	21.23	21.30	22.00
5	64QAM	1	0	21.23	21.27	21.29	22.00
5	64QAM	1	12	21.34	21.44	21.46	22.00
5	64QAM	1	24	21.22	21.35	21.25	22.00
5	64QAM	12	0	20.20	20.23	20.26	21.00
5	64QAM	12	6	20.20	20.33	20.32	21.00
5	64QAM	12	13	20.16	20.26	20.25	21.00
5	64QAM	25	0	20.09	20.26	20.07	21.00

Band				LTE Band5			
Bandwidth (MHz)	Modulation	RB Size	RB offset	20450	20525	20600	Tune-up power(dBm)
10	QPSK	1	0	23.32	23.47	23.33	24.00
10	QPSK	1	24	23.41	23.42	23.39	24.00
10	QPSK	1	49	23.16	23.29	23.15	24.00
10	QPSK	25	0	22.36	22.39	22.32	23.00
10	QPSK	25	12	22.25	22.36	22.30	23.00
10	QPSK	25	25	22.24	22.30	22.21	23.00
10	QPSK	50	0	22.16	22.29	22.16	23.00
10	16QAM	1	0	22.61	22.63	22.60	23.00
10	16QAM	1	24	22.80	22.82	22.78	23.00
10	16QAM	1	49	22.51	22.61	22.60	23.00
10	16QAM	25	0	21.28	21.35	21.28	22.00
10	16QAM	25	12	21.31	21.33	21.31	22.00
10	16QAM	25	25	21.37	21.39	21.25	22.00
10	16QAM	50	0	21.34	21.36	21.31	22.00
10	64QAM	1	0	21.38	21.39	21.38	22.00
10	64QAM	1	24	21.45	21.55	21.50	22.00
10	64QAM	1	49	21.32	21.41	21.32	22.00
10	64QAM	25	0	20.31	20.38	20.28	21.00
10	64QAM	25	12	20.30	20.40	20.37	21.00
10	64QAM	25	25	20.29	20.40	20.30	21.00
10	64QAM	50	0	20.22	20.36	20.22	21.00

Band				LTE Band7			
Bandwidth (MHz)	Modulation	RB Size	RB offset	20775	21100	21425	Tune-up power(dBm)
5	QPSK	1	0	23.48	23.63	23.54	24.50
5	QPSK	1	12	23.34	23.49	23.43	24.50
5	QPSK	1	24	23.34	23.28	23.29	24.50
5	QPSK	12	0	22.53	22.69	22.65	23.50
5	QPSK	12	6	22.64	22.69	22.45	23.50
5	QPSK	12	13	22.52	22.58	22.42	23.50
5	QPSK	25	0	22.67	22.57	22.52	23.50
5	16QAM	1	0	22.68	22.78	22.67	23.50
5	16QAM	1	12	22.93	23.05	23.03	23.50
5	16QAM	1	24	22.58	22.65	22.56	23.50
5	16QAM	12	0	21.42	21.58	21.50	22.50
5	16QAM	12	6	21.45	21.61	21.60	22.50
5	16QAM	12	13	21.44	21.62	21.51	22.50
5	16QAM	25	0	21.59	21.54	21.63	22.50
5	64QAM	1	0	21.88	22.01	21.87	22.50
5	64QAM	1	12	22.26	22.34	22.21	22.50
5	64QAM	1	24	21.76	21.87	21.81	22.50
5	64QAM	12	0	20.64	20.62	20.55	21.50
5	64QAM	12	6	20.59	20.71	20.56	21.50
5	64QAM	12	13	20.48	20.65	20.45	21.50
5	64QAM	25	0	20.48	20.67	20.59	21.50

Band				LTE Band7			
Bandwidth (MHz)	Modulation	RB Size	RB offset	20800	21100	21400	Tune-up power(dBm)
10	QPSK	1	0	23.55	23.63	23.52	24.50
10	QPSK	1	24	23.33	23.53	23.51	24.50
10	QPSK	1	49	23.26	23.30	23.28	24.50
10	QPSK	25	0	22.53	22.64	22.57	23.50
10	QPSK	25	12	22.59	22.57	22.44	23.50
10	QPSK	25	25	22.52	22.66	22.44	23.50
10	QPSK	50	0	22.67	22.68	22.53	23.50
10	16QAM	1	0	22.64	22.77	22.70	23.50
10	16QAM	1	24	22.95	23.12	22.98	23.50
10	16QAM	1	49	22.54	22.62	22.48	23.50
10	16QAM	25	0	21.51	21.65	21.51	22.50
10	16QAM	25	12	21.50	21.63	21.58	22.50
10	16QAM	25	25	21.42	21.56	21.47	22.50
10	16QAM	50	0	21.58	21.55	21.64	22.50
10	64QAM	1	0	21.98	22.02	21.90	22.50
10	64QAM	1	24	22.24	22.31	22.25	22.50
10	64QAM	1	49	21.81	21.88	21.84	22.50
10	64QAM	25	0	20.66	20.68	20.49	21.50
10	64QAM	25	12	20.49	20.69	20.54	21.50
10	64QAM	25	25	20.55	20.57	20.51	21.50
10	64QAM	50	0	20.54	20.57	20.54	21.50

Band				LTE Band7			
Bandwidth (MHz)	Modulation	RB Size	RB offset	20825	21100	21375	Tune-up power(dBm)
15	QPSK	1	0	23.52	23.52	23.61	24.50
15	QPSK	1	37	23.26	23.46	23.47	24.50
15	QPSK	1	74	23.31	23.37	23.30	24.50
15	QPSK	36	0	22.61	22.64	22.66	23.50
15	QPSK	36	19	22.58	22.69	22.48	23.50
15	QPSK	36	39	22.60	22.66	22.48	23.50
15	QPSK	75	0	22.54	22.63	22.53	23.50
15	16QAM	1	0	22.69	22.71	22.74	23.50
15	16QAM	1	37	22.89	23.06	23.01	23.50
15	16QAM	1	74	22.47	22.65	22.53	23.50
15	16QAM	36	0	21.54	21.53	21.57	22.50
15	16QAM	36	19	21.48	21.62	21.51	22.50
15	16QAM	36	39	21.56	21.60	21.52	22.50
15	16QAM	75	0	21.55	21.65	21.57	22.50
15	64QAM	1	0	21.93	21.91	21.98	22.50
15	64QAM	1	37	22.28	22.37	22.17	22.50
15	64QAM	1	74	21.86	21.93	21.82	22.50
15	64QAM	36	0	20.56	20.66	20.58	21.50
15	64QAM	36	19	20.53	20.65	20.60	21.50
15	64QAM	36	39	20.58	20.57	20.56	21.50
15	64QAM	75	0	20.58	20.69	20.47	21.50

Band				LTE Band7			
Bandwidth (MHz)	Modulation	RB Size	RB offset	20850	21100	21350	Tune-up power(dBm)
20	QPSK	1	0	23.57	23.67	23.63	24.50
20	QPSK	1	49	23.41	23.55	23.53	24.50
20	QPSK	1	99	23.35	23.38	23.33	24.50
20	QPSK	50	0	22.66	22.78	22.69	23.50
20	QPSK	50	25	22.65	22.70	22.56	23.50
20	QPSK	50	50	22.66	22.68	22.55	23.50
20	QPSK	100	0	22.69	22.70	22.62	23.50
20	16QAM	1	0	22.71	22.84	22.78	23.50
20	16QAM	1	49	23.01	23.13	23.08	23.50
20	16QAM	1	99	22.61	22.71	22.60	23.50
20	16QAM	50	0	21.55	21.68	21.63	22.50
20	16QAM	50	25	21.59	21.72	21.64	22.50
20	16QAM	50	50	21.57	21.67	21.60	22.50
20	16QAM	100	0	21.66	21.69	21.65	22.50
20	64QAM	1	0	22.02	22.05	22.01	22.50
20	64QAM	1	49	22.35	22.38	22.32	22.50
20	64QAM	1	99	21.90	21.94	21.91	22.50
20	64QAM	50	0	20.67	20.71	20.61	21.50
20	64QAM	50	25	20.61	20.72	20.69	21.50
20	64QAM	50	50	20.59	20.67	20.60	21.50
20	64QAM	100	0	20.60	20.71	20.62	21.50

Band				LTE Band12			
Bandwidth (MHz)	Modulation	RB Size	RB offset	23017	23095	23173	Tune-up power(dBm)
1.4	QPSK	1	0	23.12	23.15	23.06	24.00
1.4	QPSK	1	2	23.01	23.07	23.00	24.00
1.4	QPSK	1	5	22.93	22.96	22.90	24.00
1.4	QPSK	3	0	22.95	23.08	22.98	24.00
1.4	QPSK	3	1	22.98	23.05	22.91	24.00
1.4	QPSK	3	3	23.06	23.07	22.94	24.00
1.4	QPSK	6	0	21.95	22.03	22.02	23.00
1.4	16QAM	1	0	22.26	22.32	22.18	23.00
1.4	16QAM	1	2	22.32	22.44	22.38	23.00
1.4	16QAM	1	5	22.21	22.30	22.26	23.00
1.4	16QAM	3	0	22.10	22.25	22.17	23.00
1.4	16QAM	3	1	22.21	22.26	22.16	23.00
1.4	16QAM	3	3	22.15	22.22	22.07	23.00
1.4	16QAM	6	0	20.89	20.95	20.93	22.00
1.4	64QAM	1	0	21.14	21.15	21.13	22.00
1.4	64QAM	1	2	21.27	21.28	21.26	22.00
1.4	64QAM	1	5	21.11	21.14	21.12	22.00
1.4	64QAM	3	0	21.15	21.23	21.21	22.00
1.4	64QAM	3	1	21.29	21.30	21.25	22.00
1.4	64QAM	3	3	21.19	21.24	21.17	22.00
1.4	64QAM	6	0	20.23	20.37	20.27	21.00

Band				LTE Band12			
Bandwidth (MHz)	Modulation	RB Size	RB offset	23025	23095	23165	Tune-up power(dBm)
3	QPSK	1	0	23.08	23.10	22.88	24.00
3	QPSK	1	7	22.97	22.97	22.93	24.00
3	QPSK	1	14	22.95	22.99	22.99	24.00
3	QPSK	8	0	22.04	22.05	21.94	23.00
3	QPSK	8	3	21.86	21.94	21.91	23.00
3	QPSK	8	7	21.96	22.00	21.97	23.00
3	QPSK	15	0	21.92	22.00	22.01	23.00
3	16QAM	1	0	22.23	22.36	22.24	23.00
3	16QAM	1	7	22.19	22.33	22.32	23.00
3	16QAM	1	14	22.29	22.24	22.31	23.00
3	16QAM	8	0	20.91	21.02	21.03	22.00
3	16QAM	8	3	21.04	21.09	21.06	22.00
3	16QAM	8	7	21.11	21.08	21.16	22.00
3	16QAM	15	0	20.98	21.02	21.07	22.00
3	64QAM	1	0	21.01	21.16	20.93	22.00
3	64QAM	1	7	21.25	21.14	21.07	22.00
3	64QAM	1	14	21.09	21.09	21.04	22.00
3	64QAM	8	0	20.11	20.17	20.03	21.00
3	64QAM	8	3	20.11	20.06	19.95	21.00
3	64QAM	8	7	19.98	20.17	20.08	21.00
3	64QAM	15	0	20.00	20.15	20.06	21.00

Band				LTE Band12			
Bandwidth (MHz)	Modulation	RB Size	RB offset	23035	23095	23155	Tune-up power(dBm)
5	QPSK	1	0	23.03	23.04	22.99	24.00
5	QPSK	1	12	22.87	23.00	23.01	24.00
5	QPSK	1	24	22.88	22.90	22.95	24.00
5	QPSK	12	0	22.00	22.06	21.94	23.00
5	QPSK	12	6	21.78	21.94	21.96	23.00
5	QPSK	12	13	22.00	22.05	21.90	23.00
5	QPSK	25	0	21.92	22.02	21.91	23.00
5	16QAM	1	0	22.22	22.31	22.27	23.00
5	16QAM	1	12	22.25	22.36	22.34	23.00
5	16QAM	1	24	22.33	22.27	22.36	23.00
5	16QAM	12	0	21.01	21.07	20.98	22.00
5	16QAM	12	6	21.00	21.14	21.05	22.00
5	16QAM	12	13	21.17	21.13	21.11	22.00
5	16QAM	25	0	21.06	21.11	21.01	22.00
5	64QAM	1	0	20.97	21.16	20.92	22.00
5	64QAM	1	12	21.20	21.23	21.11	22.00
5	64QAM	1	24	21.16	21.10	21.06	22.00
5	64QAM	12	0	20.14	20.21	20.08	21.00
5	64QAM	12	6	20.10	20.16	20.03	21.00
5	64QAM	12	13	19.97	20.20	20.10	21.00
5	64QAM	25	0	19.91	20.10	19.99	21.00

Band				LTE Band12			
Bandwidth (MHz)	Modulation	RB Size	RB offset	23060	23095	23130	Tune-up power(dBm)
10	QPSK	1	0	23.09	23.17	23.02	24.00
10	QPSK	1	24	22.98	23.10	23.08	24.00
10	QPSK	1	49	22.96	23.04	23.01	24.00
10	QPSK	25	0	22.08	22.13	22.08	23.00
10	QPSK	25	12	21.92	22.05	22.02	23.00
10	QPSK	25	25	22.06	22.07	22.00	23.00
10	QPSK	50	0	22.00	22.09	22.03	23.00
10	16QAM	1	0	22.34	22.38	22.31	23.00
10	16QAM	1	24	22.32	22.47	22.37	23.00
10	16QAM	1	49	22.37	22.39	22.38	23.00
10	16QAM	25	0	21.06	21.17	21.04	22.00
10	16QAM	25	12	21.08	21.17	21.09	22.00
10	16QAM	25	25	21.20	21.21	21.17	22.00
10	16QAM	50	0	21.08	21.16	21.14	22.00
10	64QAM	1	0	21.08	21.19	21.06	22.00
10	64QAM	1	24	21.27	21.28	21.20	22.00
10	64QAM	1	49	21.20	21.22	21.07	22.00
10	64QAM	25	0	20.17	20.23	20.11	21.00
10	64QAM	25	12	20.15	20.21	20.06	21.00
10	64QAM	25	25	20.11	20.24	20.21	21.00
10	64QAM	50	0	20.05	20.19	20.12	21.00

Band				LTE Band17			
Bandwidth (MHz)	Modulation	RB Size	RB offset	23755	23790	23825	Tune-up power(dBm)
5	QPSK	1	0	22.99	23.15	22.99	24.00
5	QPSK	1	12	22.92	22.98	23.05	24.00
5	QPSK	1	24	22.89	22.95	22.98	24.00
5	QPSK	12	0	21.90	22.04	22.06	23.00
5	QPSK	12	6	21.85	22.05	22.01	23.00
5	QPSK	12	13	21.87	21.89	21.86	23.00
5	QPSK	25	0	21.90	22.04	21.86	23.00
5	16QAM	1	0	22.32	22.26	22.22	23.00
5	16QAM	1	12	22.41	22.40	22.33	23.00
5	16QAM	1	24	22.18	22.24	22.11	23.00
5	16QAM	12	0	21.14	21.08	21.16	22.00
5	16QAM	12	6	21.01	21.07	20.90	22.00
5	16QAM	12	13	20.90	21.04	20.88	22.00
5	16QAM	25	0	21.04	21.16	21.15	22.00
5	64QAM	1	0	21.01	21.08	21.03	22.00
5	64QAM	1	12	21.11	21.28	21.09	22.00
5	64QAM	1	24	20.92	21.09	20.98	22.00
5	64QAM	12	0	20.09	20.12	20.05	21.00
5	64QAM	12	6	20.17	20.21	20.08	21.00
5	64QAM	12	13	20.08	20.15	20.17	21.00
5	64QAM	25	0	20.10	20.15	20.05	21.00

Band				LTE Band17			
Bandwidth (MHz)	Modulation	RB Size	RB offset	23780	23790	23800	Tune-up power(dBm)
10	QPSK	1	0	23.12	23.19	23.04	24.00
10	QPSK	1	24	23.03	23.13	23.10	24.00
10	QPSK	1	49	22.93	23.03	23.00	24.00
10	QPSK	25	0	22.02	22.10	22.08	23.00
10	QPSK	25	12	21.99	22.06	22.05	23.00
10	QPSK	25	25	21.95	22.01	21.95	23.00
10	QPSK	50	0	21.94	22.09	22.00	23.00
10	16QAM	1	0	22.35	22.36	22.26	23.00
10	16QAM	1	24	22.47	22.49	22.46	23.00
10	16QAM	1	49	22.27	22.35	22.26	23.00
10	16QAM	25	0	21.18	21.22	21.18	22.00
10	16QAM	25	12	21.10	21.18	21.05	22.00
10	16QAM	25	25	21.05	21.13	21.02	22.00
10	16QAM	50	0	21.06	21.20	21.16	22.00
10	64QAM	1	0	21.10	21.16	21.05	22.00
10	64QAM	1	24	21.18	21.30	21.24	22.00
10	64QAM	1	49	21.05	21.20	21.13	22.00
10	64QAM	25	0	20.18	20.26	20.12	21.00
10	64QAM	25	12	20.22	20.23	20.15	21.00
10	64QAM	25	25	20.18	20.22	20.19	21.00
10	64QAM	50	0	20.14	20.22	20.19	21.00

Band				LTE Band25			
Bandwidth (MHz)	Modulation	RB Size	RB offset	26047	26365	26683	Tune-up power(dBm)
1.4	QPSK	1	0	23.16	23.28	23.15	24.00
1.4	QPSK	1	2	23.11	23.19	23.17	24.00
1.4	QPSK	1	5	23.04	23.16	23.02	24.00
1.4	QPSK	3	0	23.20	23.25	23.18	24.00
1.4	QPSK	3	1	23.12	23.16	23.15	24.00
1.4	QPSK	3	3	23.02	23.12	22.98	24.00
1.4	QPSK	6	0	22.19	22.20	22.11	23.00
1.4	16QAM	1	0	22.37	22.51	22.42	23.00
1.4	16QAM	1	2	22.53	22.61	22.59	23.00
1.4	16QAM	1	5	22.44	22.49	22.36	23.00
1.4	16QAM	3	0	22.41	22.43	22.40	23.00
1.4	16QAM	3	1	22.34	22.46	22.45	23.00
1.4	16QAM	3	3	22.35	22.43	22.30	23.00
1.4	16QAM	6	0	21.13	21.14	21.11	22.00
1.4	64QAM	1	0	21.22	21.29	21.22	22.00
1.4	64QAM	1	2	21.34	21.42	21.33	22.00
1.4	64QAM	1	5	21.18	21.30	21.17	22.00
1.4	64QAM	3	0	21.36	21.38	21.31	22.00
1.4	64QAM	3	1	21.39	21.42	21.27	22.00
1.4	64QAM	3	3	21.35	21.37	21.30	22.00
1.4	64QAM	6	0	20.40	20.52	20.45	21.00

Band				LTE Band25			
Bandwidth (MHz)	Modulation	RB Size	RB offset	26055	26365	26675	Tune-up power(dBm)
3	QPSK	1	0	23.13	23.21	23.18	24.00
3	QPSK	1	7	23.03	23.09	23.07	24.00
3	QPSK	1	14	22.86	22.87	22.69	24.00
3	QPSK	8	0	22.11	22.28	22.25	23.00
3	QPSK	8	3	21.99	22.11	22.03	23.00
3	QPSK	8	7	21.95	22.23	22.02	23.00
3	QPSK	15	0	22.10	22.26	22.12	23.00
3	16QAM	1	0	22.22	22.32	22.27	23.00
3	16QAM	1	7	22.64	22.78	22.57	23.00
3	16QAM	1	14	22.30	22.42	22.25	23.00
3	16QAM	8	0	21.25	21.27	21.20	22.00
3	16QAM	8	3	21.20	21.14	21.16	22.00
3	16QAM	8	7	21.24	21.18	21.21	22.00
3	16QAM	15	0	21.17	21.25	21.18	22.00
3	64QAM	1	0	21.42	21.46	21.56	22.00
3	64QAM	1	7	21.88	21.89	21.77	22.00
3	64QAM	1	14	21.48	21.50	21.38	22.00
3	64QAM	8	0	20.23	20.33	20.15	21.00
3	64QAM	8	3	20.11	20.21	20.14	21.00
3	64QAM	8	7	20.19	20.25	20.09	21.00
3	64QAM	15	0	20.10	20.25	20.10	21.00

Band				LTE Band25			
Bandwidth (MHz)	Modulation	RB Size	RB offset	26065	26365	26665	Tune-up power(dBm)
5	QPSK	1	0	23.15	23.25	23.16	24.00
5	QPSK	1	12	23.09	23.17	23.14	24.00
5	QPSK	1	24	22.76	22.85	22.79	24.00
5	QPSK	12	0	22.10	22.26	22.34	23.00
5	QPSK	12	6	21.98	22.14	22.02	23.00
5	QPSK	12	13	22.09	22.19	22.05	23.00
5	QPSK	25	0	22.09	22.15	22.12	23.00
5	16QAM	1	0	22.16	22.39	22.25	23.00
5	16QAM	1	12	22.55	22.80	22.60	23.00
5	16QAM	1	24	22.37	22.29	22.28	23.00
5	16QAM	12	0	21.27	21.26	21.16	22.00
5	16QAM	12	6	21.12	21.17	21.23	22.00
5	16QAM	12	13	21.22	21.29	21.23	22.00
5	16QAM	25	0	21.13	21.19	21.28	22.00
5	64QAM	1	0	21.47	21.56	21.42	22.00
5	64QAM	1	12	21.91	21.83	21.78	22.00
5	64QAM	1	24	21.41	21.49	21.43	22.00
5	64QAM	12	0	20.22	20.27	20.18	21.00
5	64QAM	12	6	20.09	20.21	20.10	21.00
5	64QAM	12	13	20.15	20.22	20.20	21.00
5	64QAM	25	0	20.23	20.16	20.08	21.00

Band				LTE Band25			
Bandwidth (MHz)	Modulation	RB Size	RB offset	26090	26365	26640	Tune-up power(dBm)
10	QPSK	1	0	23.24	23.29	23.17	24.00
10	QPSK	1	24	23.04	23.17	23.06	24.00
10	QPSK	1	49	22.87	22.80	22.70	24.00
10	QPSK	25	0	22.20	22.25	22.34	23.00
10	QPSK	25	12	21.96	22.15	21.98	23.00
10	QPSK	25	25	22.08	22.10	22.00	23.00
10	QPSK	50	0	22.06	22.26	22.04	23.00
10	16QAM	1	0	22.19	22.41	22.34	23.00
10	16QAM	1	24	22.67	22.76	22.60	23.00
10	16QAM	1	49	22.26	22.40	22.26	23.00
10	16QAM	25	0	21.25	21.29	21.16	22.00
10	16QAM	25	12	21.15	21.19	21.13	22.00
10	16QAM	25	25	21.23	21.17	21.17	22.00
10	16QAM	50	0	21.17	21.29	21.14	22.00
10	64QAM	1	0	21.34	21.49	21.51	22.00
10	64QAM	1	24	21.82	21.87	21.78	22.00
10	64QAM	1	49	21.38	21.46	21.50	22.00
10	64QAM	25	0	20.12	20.29	20.20	21.00
10	64QAM	25	12	20.12	20.19	20.11	21.00
10	64QAM	25	25	20.23	20.22	20.18	21.00
10	64QAM	50	0	20.10	20.18	20.05	21.00

Band				LTE Band25			
Bandwidth (MHz)	Modulation	RB Size	RB offset	26115	26365	26615	Tune-up power(dBm)
15	QPSK	1	0	23.17	23.29	23.19	24.00
15	QPSK	1	37	23.13	23.21	23.07	24.00
15	QPSK	1	74	22.79	22.89	22.75	24.00
15	QPSK	36	0	22.17	22.24	22.24	23.00
15	QPSK	36	19	22.07	22.19	21.96	23.00
15	QPSK	36	39	22.02	22.23	22.09	23.00
15	QPSK	75	0	22.04	22.20	22.06	23.00
15	16QAM	1	0	22.16	22.28	22.21	23.00
15	16QAM	1	37	22.59	22.79	22.61	23.00
15	16QAM	1	74	22.30	22.30	22.22	23.00
15	16QAM	36	0	21.21	21.28	21.20	22.00
15	16QAM	36	19	21.23	21.25	21.21	22.00
15	16QAM	36	39	21.19	21.24	21.13	22.00
15	16QAM	75	0	21.10	21.16	21.17	22.00
15	64QAM	1	0	21.43	21.57	21.48	22.00
15	64QAM	1	37	21.82	21.89	21.81	22.00
15	64QAM	1	74	21.43	21.50	21.45	22.00
15	64QAM	36	0	20.23	20.31	20.13	21.00
15	64QAM	36	19	20.02	20.26	20.10	21.00
15	64QAM	36	39	20.21	20.21	20.14	21.00
15	64QAM	75	0	20.20	20.24	20.06	21.00

Band				LTE Band25			
Bandwidth (MHz)	Modulation	RB Size	RB offset	26140	26365	26590	Tune-up power(dBm)
20	QPSK	1	0	23.27	23.38	23.23	24.00
20	QPSK	1	49	23.16	23.22	23.16	24.00
20	QPSK	1	99	22.90	22.92	22.80	24.00
20	QPSK	50	0	22.24	22.37	22.36	23.00
20	QPSK	50	25	22.09	22.22	22.10	23.00
20	QPSK	50	50	22.10	22.25	22.11	23.00
20	QPSK	100	0	22.17	22.28	22.13	23.00
20	16QAM	1	0	22.27	22.42	22.36	23.00
20	16QAM	1	49	22.68	22.81	22.72	23.00
20	16QAM	1	99	22.38	22.43	22.34	23.00
20	16QAM	50	0	21.30	21.35	21.22	22.00
20	16QAM	50	25	21.24	21.28	21.25	22.00
20	16QAM	50	50	21.26	21.30	21.25	22.00
20	16QAM	100	0	21.24	21.30	21.29	22.00
20	64QAM	1	0	21.49	21.59	21.57	22.00
20	64QAM	1	49	21.94	21.96	21.92	22.00
20	64QAM	1	99	21.49	21.57	21.52	22.00
20	64QAM	50	0	20.26	20.34	20.26	21.00
20	64QAM	50	25	20.17	20.29	20.22	21.00
20	64QAM	50	50	20.26	20.30	20.24	21.00
20	64QAM	100	0	20.25	20.26	20.14	21.00

Band				LTE Band26			
Bandwidth (MHz)	Modulation	RB Size	RB offset	26697	26865	27033	Tune-up power(dBm)
1.4	QPSK	1	0	23.37	23.39	23.35	24.00
1.4	QPSK	1	2	23.22	23.34	23.25	24.00
1.4	QPSK	1	5	23.19	23.27	23.13	24.00
1.4	QPSK	3	0	23.24	23.35	23.23	24.00
1.4	QPSK	3	1	23.21	23.31	23.17	24.00
1.4	QPSK	3	3	23.20	23.33	23.26	24.00
1.4	QPSK	6	0	22.14	22.29	22.24	23.00
1.4	16QAM	1	0	22.48	22.60	22.57	23.00
1.4	16QAM	1	2	22.64	22.69	22.61	23.00
1.4	16QAM	1	5	22.43	22.58	22.50	23.00
1.4	16QAM	3	0	22.40	22.47	22.34	23.00
1.4	16QAM	3	1	22.45	22.51	22.41	23.00
1.4	16QAM	3	3	22.42	22.56	22.42	23.00
1.4	16QAM	6	0	21.12	21.22	21.09	22.00
1.4	64QAM	1	0	21.32	21.37	21.25	22.00
1.4	64QAM	1	2	21.42	21.53	21.50	22.00
1.4	64QAM	1	5	21.24	21.36	21.30	22.00
1.4	64QAM	3	0	21.40	21.46	21.44	22.00
1.4	64QAM	3	1	21.38	21.49	21.46	22.00
1.4	64QAM	3	3	21.50	21.52	21.47	22.00
1.4	64QAM	6	0	20.59	20.61	20.50	21.00

Band				LTE Band26			
Bandwidth (MHz)	Modulation	RB Size	RB offset	26705	26865	27025	Tune-up power(dBm)
3	QPSK	1	0	23.40	23.32	23.21	24.00
3	QPSK	1	7	23.33	23.36	23.30	24.00
3	QPSK	1	14	23.17	23.26	23.16	24.00
3	QPSK	8	0	22.17	22.32	22.17	23.00
3	QPSK	8	3	22.18	22.21	22.13	23.00
3	QPSK	8	7	22.13	22.17	22.16	23.00
3	QPSK	15	0	22.14	22.32	22.18	23.00
3	16QAM	1	0	22.39	22.39	22.46	23.00
3	16QAM	1	7	22.56	22.63	22.63	23.00
3	16QAM	1	14	22.47	22.62	22.48	23.00
3	16QAM	8	0	21.13	21.28	21.09	22.00
3	16QAM	8	3	21.19	21.27	21.17	22.00
3	16QAM	8	7	21.26	21.32	21.17	22.00
3	16QAM	15	0	21.24	21.26	21.25	22.00
3	64QAM	1	0	21.06	21.27	21.14	22.00
3	64QAM	1	7	21.31	21.44	21.49	22.00
3	64QAM	1	14	21.18	21.29	21.17	22.00
3	64QAM	8	0	20.23	20.23	20.10	21.00
3	64QAM	8	3	20.25	20.25	20.19	21.00
3	64QAM	8	7	20.20	20.32	20.32	21.00
3	64QAM	15	0	20.17	20.31	20.17	21.00

Band				LTE Band26			
Bandwidth (MHz)	Modulation	RB Size	RB offset	26715	26865	27015	Tune-up power(dBm)
5	QPSK	1	0	23.31	23.34	23.31	24.00
5	QPSK	1	12	23.33	23.38	23.21	24.00
5	QPSK	1	24	23.10	23.22	23.06	24.00
5	QPSK	12	0	22.15	22.22	22.24	23.00
5	QPSK	12	6	22.28	22.30	22.21	23.00
5	QPSK	12	13	22.21	22.18	22.16	23.00
5	QPSK	25	0	22.27	22.29	22.21	23.00
5	16QAM	1	0	22.39	22.42	22.47	23.00
5	16QAM	1	12	22.56	22.73	22.55	23.00
5	16QAM	1	24	22.53	22.54	22.37	23.00
5	16QAM	12	0	21.19	21.22	21.12	22.00
5	16QAM	12	6	21.09	21.25	21.14	22.00
5	16QAM	12	13	21.25	21.34	21.27	22.00
5	16QAM	25	0	21.18	21.36	21.19	22.00
5	64QAM	1	0	21.15	21.23	21.15	22.00
5	64QAM	1	12	21.39	21.42	21.37	22.00
5	64QAM	1	24	21.28	21.25	21.15	22.00
5	64QAM	12	0	20.18	20.28	20.22	21.00
5	64QAM	12	6	20.16	20.29	20.10	21.00
5	64QAM	12	13	20.19	20.35	20.21	21.00
5	64QAM	25	0	20.15	20.23	20.24	21.00

Band				LTE Band26			
Bandwidth (MHz)	Modulation	RB Size	RB offset	26740	26865	26990	Tune-up power(dBm)
10	QPSK	1	0	23.35	23.38	23.20	24.00
10	QPSK	1	24	23.33	23.32	23.32	24.00
10	QPSK	1	49	23.08	23.14	23.08	24.00
10	QPSK	25	0	22.28	22.29	22.26	23.00
10	QPSK	25	12	22.21	22.24	22.12	23.00
10	QPSK	25	25	22.11	22.18	22.22	23.00
10	QPSK	50	0	22.22	22.34	22.27	23.00
10	16QAM	1	0	22.38	22.50	22.47	23.00
10	16QAM	1	24	22.54	22.62	22.63	23.00
10	16QAM	1	49	22.52	22.53	22.49	23.00
10	16QAM	25	0	21.13	21.23	21.09	22.00
10	16QAM	25	12	21.08	21.26	21.25	22.00
10	16QAM	25	25	21.27	21.37	21.24	22.00
10	16QAM	50	0	21.22	21.30	21.20	22.00
10	64QAM	1	0	21.17	21.26	21.15	22.00
10	64QAM	1	24	21.34	21.44	21.47	22.00
10	64QAM	1	49	21.17	21.32	21.25	22.00
10	64QAM	25	0	20.21	20.26	20.14	21.00
10	64QAM	25	12	20.18	20.38	20.14	21.00
10	64QAM	25	25	20.22	20.33	20.21	21.00
10	64QAM	50	0	20.21	20.36	20.14	21.00

Band				LTE Band26			
Bandwidth (MHz)	Modulation	RB Size	RB offset	26765	26865	26965	Tune-up power(dBm)
15	QPSK	1	0	23.42	23.45	23.34	24.00
15	QPSK	1	37	23.38	23.40	23.33	24.00
15	QPSK	1	74	23.21	23.29	23.17	24.00
15	QPSK	36	0	22.29	22.36	22.32	23.00
15	QPSK	36	19	22.30	22.33	22.27	23.00
15	QPSK	36	39	22.24	22.28	22.25	23.00
15	QPSK	75	0	22.29	22.36	22.33	23.00
15	16QAM	1	0	22.44	22.52	22.50	23.00
15	16QAM	1	37	22.60	22.75	22.70	23.00
15	16QAM	1	74	22.62	22.63	22.50	23.00
15	16QAM	36	0	21.20	21.35	21.21	22.00
15	16QAM	36	19	21.20	21.35	21.27	22.00
15	16QAM	36	39	21.32	21.42	21.31	22.00
15	16QAM	75	0	21.25	21.39	21.27	22.00
15	64QAM	1	0	21.20	21.31	21.17	22.00
15	64QAM	1	37	21.46	21.57	21.52	22.00
15	64QAM	1	74	21.30	21.39	21.28	22.00
15	64QAM	36	0	20.28	20.34	20.23	21.00
15	64QAM	36	19	20.28	20.39	20.24	21.00
15	64QAM	36	39	20.33	20.39	20.35	21.00
15	64QAM	75	0	20.22	20.37	20.27	21.00

Band				LTE Band66			
Bandwidth (MHz)	Modulation	RB Size	RB offset	131979	132322	132665	Tune-up power(dBm)
1.4	QPSK	1	0	20.49	20.61	20.53	21.50
1.4	QPSK	1	2	20.38	20.55	20.29	21.50
1.4	QPSK	1	5	20.25	20.39	20.24	21.50
1.4	QPSK	3	0	19.74	19.79	19.66	21.50
1.4	QPSK	3	1	19.57	19.54	19.50	21.50
1.4	QPSK	3	3	19.69	19.60	19.61	21.50
1.4	QPSK	6	0	19.59	19.55	19.46	20.50
1.4	16QAM	1	0	19.62	19.72	19.71	20.50
1.4	16QAM	1	2	20.01	20.13	19.99	20.50
1.4	16QAM	1	5	19.73	19.82	19.70	20.50
1.4	16QAM	3	0	18.59	18.83	18.59	20.50
1.4	16QAM	3	1	18.60	18.63	18.62	20.50
1.4	16QAM	3	3	18.54	18.68	18.55	20.50
1.4	16QAM	6	0	18.62	18.70	18.47	19.50
1.4	64QAM	1	0	18.99	18.86	18.83	19.50
1.4	64QAM	1	2	19.17	19.22	19.04	19.50
1.4	64QAM	1	5	18.85	19.01	18.99	19.50
1.4	64QAM	3	0	17.65	17.72	17.72	19.50
1.4	64QAM	3	1	17.59	17.60	17.62	19.50
1.4	64QAM	3	3	17.65	17.67	17.61	19.50
1.4	64QAM	6	0	17.56	17.59	17.48	18.50

Band				LTE Band66			
Bandwidth (MHz)	Modulation	RB Size	RB offset	131987	132322	132657	Tune-up power(dBm)
3	QPSK	1	0	20.48	20.62	20.48	21.50
3	QPSK	1	7	20.44	20.56	20.38	21.50
3	QPSK	1	14	20.16	20.32	20.25	21.50
3	QPSK	8	0	19.69	19.78	19.71	20.50
3	QPSK	8	3	19.60	19.55	19.45	20.50
3	QPSK	8	7	19.44	19.40	19.49	20.50
3	QPSK	15	0	19.55	19.58	19.50	20.50
3	16QAM	1	0	19.63	19.79	19.64	20.50
3	16QAM	1	7	19.99	20.11	20.00	20.50
3	16QAM	1	14	19.80	19.77	19.80	20.50
3	16QAM	8	0	18.59	18.84	18.63	19.50
3	16QAM	8	3	18.62	18.60	18.60	19.50
3	16QAM	8	7	18.31	18.55	18.32	19.50
3	16QAM	15	0	18.52	18.61	18.59	19.50
3	64QAM	1	0	18.88	18.87	18.75	19.50
3	64QAM	1	7	19.26	19.28	19.14	19.50
3	64QAM	1	14	18.86	18.90	18.98	19.50
3	64QAM	8	0	17.75	17.70	17.75	18.50
3	64QAM	8	3	17.55	17.69	17.60	18.50
3	64QAM	8	7	17.44	17.51	17.35	18.50
3	64QAM	15	0	17.61	17.58	17.51	18.50

Band				LTE Band66			
Bandwidth (MHz)	Modulation	RB Size	RB offset	131997	132322	132647	Tune-up power(dBm)
5	QPSK	1	0	20.56	20.64	20.47	21.50
5	QPSK	1	12	20.45	20.44	20.39	21.50
5	QPSK	1	24	20.22	20.36	20.24	21.50
5	QPSK	12	0	19.64	19.77	19.70	20.50
5	QPSK	12	6	19.61	19.66	19.43	20.50
5	QPSK	12	13	19.43	19.47	19.44	20.50
5	QPSK	25	0	19.51	19.58	19.56	20.50
5	16QAM	1	0	19.64	19.81	19.73	20.50
5	16QAM	1	12	20.09	20.13	20.08	20.50
5	16QAM	1	24	19.78	19.87	19.73	20.50
5	16QAM	12	0	18.65	18.73	18.61	19.50
5	16QAM	12	6	18.52	18.59	18.56	19.50
5	16QAM	12	13	18.35	18.49	18.38	19.50
5	16QAM	25	0	18.59	18.67	18.55	19.50
5	64QAM	1	0	18.99	18.99	18.78	19.50
5	64QAM	1	12	19.23	19.25	19.13	19.50
5	64QAM	1	24	18.82	18.97	18.97	19.50
5	64QAM	12	0	17.72	17.80	17.70	18.50
5	64QAM	12	6	17.56	17.68	17.64	18.50
5	64QAM	12	13	17.37	17.49	17.36	18.50
5	64QAM	25	0	17.60	17.63	17.48	18.50

Band				LTE Band66			
Bandwidth (MHz)	Modulation	RB Size	RB offset	132022	132322	132622	Tune-up power(dBm)
10	QPSK	1	0	20.50	20.66	20.42	21.50
10	QPSK	1	24	20.42	20.57	20.35	21.50
10	QPSK	1	49	20.24	20.37	20.27	21.50
10	QPSK	25	0	19.74	19.77	19.70	20.50
10	QPSK	25	12	19.64	19.54	19.51	20.50
10	QPSK	25	25	19.50	19.54	19.46	20.50
10	QPSK	50	0	19.53	19.64	19.58	20.50
10	16QAM	1	0	19.68	19.84	19.74	20.50
10	16QAM	1	24	20.00	20.19	19.97	20.50
10	16QAM	1	49	19.83	19.84	19.67	20.50
10	16QAM	25	0	18.64	18.84	18.70	19.50
10	16QAM	25	12	18.55	18.67	18.49	19.50
10	16QAM	25	25	18.27	18.49	18.30	19.50
10	16QAM	50	0	18.62	18.72	18.48	19.50
10	64QAM	1	0	18.91	18.86	18.78	19.50
10	64QAM	1	24	19.22	19.17	19.14	19.50
10	64QAM	1	49	18.86	18.90	19.00	19.50
10	64QAM	25	0	17.69	17.78	17.67	18.50
10	64QAM	25	12	17.67	17.61	17.58	18.50
10	64QAM	25	25	17.31	17.44	17.36	18.50
10	64QAM	50	0	17.48	17.56	17.51	18.50

Band				LTE Band66			
Bandwidth (MHz)	Modulation	RB Size	RB offset	132047	132322	132597	Tune-up power(dBm)
15	QPSK	1	0	20.50	20.57	20.53	21.50
15	QPSK	1	37	20.40	20.56	20.35	21.50
15	QPSK	1	74	20.25	20.32	20.29	21.50
15	QPSK	36	0	19.66	19.68	19.67	20.50
15	QPSK	36	19	19.58	19.55	19.48	20.50
15	QPSK	36	39	19.48	19.51	19.42	20.50
15	QPSK	75	0	19.47	19.69	19.58	20.50
15	16QAM	1	0	19.59	19.74	19.64	20.50
15	16QAM	1	37	20.00	20.07	20.05	20.50
15	16QAM	1	74	19.78	19.89	19.68	20.50
15	16QAM	36	0	18.66	18.84	18.65	19.50
15	16QAM	36	19	18.63	18.71	18.61	19.50
15	16QAM	36	39	18.29	18.46	18.28	19.50
15	16QAM	75	0	18.60	18.65	18.49	19.50
15	64QAM	1	0	18.97	18.92	18.74	19.50
15	64QAM	1	37	19.23	19.24	19.10	19.50
15	64QAM	1	74	18.84	19.02	18.87	19.50
15	64QAM	36	0	17.78	17.74	17.69	18.50
15	64QAM	36	19	17.67	17.59	17.60	18.50
15	64QAM	36	39	17.37	17.49	17.44	18.50
15	64QAM	75	0	17.49	17.56	17.44	18.50

Band				LTE Band66			
Bandwidth (MHz)	Modulation	RB Size	RB offset	132072	132322	132572	Tune-up power(dBm)
20	QPSK	1	0	20.63	20.67	20.56	21.50
20	QPSK	1	49	20.49	20.58	20.43	21.50
20	QPSK	1	99	20.29	20.44	20.35	21.50
20	QPSK	50	0	19.78	19.81	19.74	20.50
20	QPSK	50	25	19.67	19.68	19.54	20.50
20	QPSK	50	50	19.52	19.55	19.50	20.50
20	QPSK	100	0	19.61	19.70	19.61	20.50
20	16QAM	1	0	19.74	19.87	19.79	20.50
20	16QAM	1	49	20.11	20.20	20.10	20.50
20	16QAM	1	99	19.88	19.91	19.82	20.50
20	16QAM	50	0	18.71	18.85	18.72	19.50
20	16QAM	50	25	18.65	18.73	18.63	19.50
20	16QAM	50	50	18.41	18.56	18.41	19.50
20	16QAM	100	0	18.66	18.73	18.60	19.50
20	64QAM	1	0	19.00	19.01	18.88	19.50
20	64QAM	1	49	19.27	19.32	19.17	19.50
20	64QAM	1	99	18.95	19.04	19.02	19.50
20	64QAM	50	0	17.80	17.85	17.80	18.50
20	64QAM	50	25	17.68	17.72	17.70	18.50
20	64QAM	50	50	17.46	17.57	17.46	18.50
20	64QAM	100	0	17.62	17.70	17.57	18.50

Band				LTE Band38			
Bandwidth (MHz)	Modulation	RB Size	RB offset	37775	38000	38225	Tune-up power(dBm)
5	QPSK	1	0	23.45	23.54	23.45	24.50
5	QPSK	1	12	23.38	23.49	23.47	24.50
5	QPSK	1	24	23.02	23.12	23.07	24.50
5	QPSK	12	0	22.85	22.80	22.88	23.50
5	QPSK	12	6	22.51	22.62	22.63	23.50
5	QPSK	12	13	22.46	22.52	22.29	23.50
5	QPSK	25	0	22.35	22.45	22.37	23.50
5	16QAM	1	0	22.22	22.39	22.28	23.50
5	16QAM	1	12	22.56	22.60	22.53	23.50
5	16QAM	1	24	22.19	22.39	22.34	23.50
5	16QAM	12	0	21.40	21.51	21.46	22.50
5	16QAM	12	6	21.25	21.43	21.43	22.50
5	16QAM	12	13	21.21	21.35	21.35	22.50
5	16QAM	25	0	21.42	21.48	21.41	22.50
5	64QAM	1	0	21.35	21.39	21.29	22.50
5	64QAM	1	12	21.61	21.57	21.56	22.50
5	64QAM	1	24	21.14	21.31	21.19	22.50
5	64QAM	12	0	20.50	20.58	20.47	21.50
5	64QAM	12	6	20.39	20.43	20.33	21.50
5	64QAM	12	13	20.34	20.38	20.46	21.50
5	64QAM	25	0	20.41	20.43	20.32	21.50

Band				LTE Band38			
Bandwidth (MHz)	Modulation	RB Size	RB offset	37800	38000	38200	Tune-up power(dBm)
10	QPSK	1	0	23.35	23.55	23.46	24.50
10	QPSK	1	24	23.39	23.50	23.42	24.50
10	QPSK	1	49	23.08	23.21	23.08	24.50
10	QPSK	25	0	22.75	22.81	22.85	23.50
10	QPSK	25	12	22.49	22.71	22.65	23.50
10	QPSK	25	25	22.55	22.51	22.36	23.50
10	QPSK	50	0	22.43	22.37	22.37	23.50
10	16QAM	1	0	22.18	22.34	22.28	23.50
10	16QAM	1	24	22.55	22.67	22.47	23.50
10	16QAM	1	49	22.12	22.27	22.31	23.50
10	16QAM	25	0	21.34	21.49	21.43	22.50
10	16QAM	25	12	21.27	21.40	21.36	22.50
10	16QAM	25	25	21.28	21.43	21.28	22.50
10	16QAM	50	0	21.40	21.47	21.41	22.50
10	64QAM	1	0	21.25	21.42	21.35	22.50
10	64QAM	1	24	21.54	21.62	21.53	22.50
10	64QAM	1	49	21.20	21.35	21.18	22.50
10	64QAM	25	0	20.54	20.57	20.43	21.50
10	64QAM	25	12	20.44	20.50	20.35	21.50
10	64QAM	25	25	20.37	20.35	20.42	21.50
10	64QAM	50	0	20.40	20.43	20.33	21.50

Band				LTE Band38			
Bandwidth (MHz)	Modulation	RB Size	RB offset	37825	38000	38175	Tune-up power(dBm)
15	QPSK	1	0	23.38	23.57	23.40	24.50
15	QPSK	1	37	23.34	23.37	23.42	24.50
15	QPSK	1	74	23.06	23.13	23.06	24.50
15	QPSK	36	0	22.82	22.91	22.83	23.50
15	QPSK	36	19	22.62	22.66	22.55	23.50
15	QPSK	36	39	22.42	22.51	22.42	23.50
15	QPSK	75	0	22.31	22.42	22.37	23.50
15	16QAM	1	0	22.14	22.29	22.34	23.50
15	16QAM	1	37	22.53	22.60	22.43	23.50
15	16QAM	1	74	22.21	22.31	22.25	23.50
15	16QAM	36	0	21.39	21.45	21.48	22.50
15	16QAM	36	19	21.32	21.48	21.44	22.50
15	16QAM	36	39	21.25	21.47	21.40	22.50
15	16QAM	75	0	21.41	21.47	21.40	22.50
15	64QAM	1	0	21.35	21.36	21.32	22.50
15	64QAM	1	37	21.52	21.59	21.44	22.50
15	64QAM	1	74	21.14	21.30	21.15	22.50
15	64QAM	36	0	20.56	20.50	20.49	21.50
15	64QAM	36	19	20.34	20.52	20.45	21.50
15	64QAM	36	39	20.38	20.38	20.40	21.50
15	64QAM	75	0	20.31	20.52	20.27	21.50

Band				LTE Band38			
Bandwidth (MHz)	Modulation	RB Size	RB offset	37850	38000	38150	Tune-up power(dBm)
20	QPSK	1	0	23.49	23.58	23.50	24.50
20	QPSK	1	49	23.44	23.51	23.49	24.50
20	QPSK	1	99	23.12	23.27	23.20	24.50
20	QPSK	50	0	22.87	22.93	22.89	23.50
20	QPSK	50	25	22.64	22.76	22.69	23.50
20	QPSK	50	50	22.56	22.57	22.43	23.50
20	QPSK	100	0	22.44	22.52	22.48	23.50
20	16QAM	1	0	22.27	22.41	22.35	23.50
20	16QAM	1	49	22.62	22.68	22.54	23.50
20	16QAM	1	99	22.26	22.40	22.37	23.50
20	16QAM	50	0	21.47	21.58	21.55	22.50
20	16QAM	50	25	21.39	21.53	21.51	22.50
20	16QAM	50	50	21.33	21.48	21.42	22.50
20	16QAM	100	0	21.49	21.55	21.50	22.50
20	64QAM	1	0	21.37	21.43	21.41	22.50
20	64QAM	1	49	21.62	21.70	21.58	22.50
20	64QAM	1	99	21.29	21.44	21.30	22.50
20	64QAM	50	0	20.57	20.59	20.53	21.50
20	64QAM	50	25	20.46	20.55	20.46	21.50
20	64QAM	50	50	20.42	20.48	20.47	21.50
20	64QAM	100	0	20.45	20.55	20.40	21.50

Band				LTE B41			
Bandwidth (MHz)	Modulation	RB Size	RB offset	40065	40640	41215	Tune-up power(dBm)
5	QPSK	1	0	23.35	23.44	23.34	24.50
5	QPSK	1	12	23.29	23.40	23.31	24.50
5	QPSK	1	24	23.16	23.24	23.28	24.50
5	QPSK	12	0	22.76	22.94	22.79	23.50
5	QPSK	12	6	22.52	22.64	22.65	23.50
5	QPSK	12	13	22.29	22.28	22.20	23.50
5	QPSK	25	0	22.30	22.30	22.30	23.50
5	16QAM	1	0	22.13	22.31	22.20	23.50
5	16QAM	1	12	22.46	22.50	22.41	23.50
5	16QAM	1	24	22.15	22.24	22.02	23.50
5	16QAM	12	0	21.42	21.41	21.44	22.50
5	16QAM	12	6	21.28	21.34	21.31	22.50
5	16QAM	12	13	21.23	21.41	21.24	22.50
5	16QAM	25	0	21.35	21.32	21.21	22.50
5	64QAM	1	0	21.16	21.33	21.24	22.50
5	64QAM	1	12	21.35	21.59	21.51	22.50
5	64QAM	1	24	21.10	21.17	21.20	22.50
5	64QAM	12	0	20.30	20.45	20.36	21.50
5	64QAM	12	6	20.33	20.36	20.23	21.50
5	64QAM	12	13	20.34	20.34	20.22	21.50
5	64QAM	25	0	20.32	20.34	20.19	21.50

Band				LTE B41			
Bandwidth (MHz)	Modulation	RB Size	RB offset	40090	40640	41190	Tune-up power(dBm)
10	QPSK	1	0	23.34	23.42	23.47	24.50
10	QPSK	1	24	23.21	23.40	23.26	24.50
10	QPSK	1	49	23.13	23.31	23.21	24.50
10	QPSK	25	0	22.76	22.92	22.90	23.50
10	QPSK	25	12	22.57	22.67	22.70	23.50
10	QPSK	25	25	22.30	22.35	22.22	23.50
10	QPSK	50	0	22.30	22.41	22.31	23.50
10	16QAM	1	0	22.10	22.29	22.16	23.50
10	16QAM	1	24	22.43	22.51	22.43	23.50
10	16QAM	1	49	22.18	22.23	22.03	23.50
10	16QAM	25	0	21.33	21.42	21.40	22.50
10	16QAM	25	12	21.26	21.31	21.30	22.50
10	16QAM	25	25	21.25	21.29	21.28	22.50
10	16QAM	50	0	21.43	21.32	21.21	22.50
10	64QAM	1	0	21.24	21.26	21.20	22.50
10	64QAM	1	24	21.45	21.52	21.40	22.50
10	64QAM	1	49	21.17	21.20	21.13	22.50
10	64QAM	25	0	20.32	20.40	20.27	21.50
10	64QAM	25	12	20.31	20.39	20.35	21.50
10	64QAM	25	25	20.32	20.30	20.32	21.50
10	64QAM	50	0	20.39	20.34	20.17	21.50

Band				LTE B41			
Bandwidth (MHz)	Modulation	RB Size	RB offset	40115	40640	41165	Tune-up power(dBm)
15	QPSK	1	0	23.30	23.45	23.41	24.50
15	QPSK	1	37	23.20	23.40	23.21	24.50
15	QPSK	1	74	23.20	23.23	23.23	24.50
15	QPSK	36	0	22.78	22.87	22.87	23.50
15	QPSK	36	19	22.52	22.69	22.65	23.50
15	QPSK	36	39	22.34	22.35	22.12	23.50
15	QPSK	75	0	22.34	22.32	22.22	23.50
15	16QAM	1	0	22.14	22.17	22.20	23.50
15	16QAM	1	37	22.43	22.49	22.46	23.50
15	16QAM	1	74	22.22	22.18	22.02	23.50
15	16QAM	36	0	21.30	21.41	21.31	22.50
15	16QAM	36	19	21.31	21.35	21.25	22.50
15	16QAM	36	39	21.21	21.28	21.22	22.50
15	16QAM	75	0	21.32	21.43	21.21	22.50
15	64QAM	1	0	21.28	21.21	21.25	22.50
15	64QAM	1	37	21.35	21.49	21.42	22.50
15	64QAM	1	74	21.09	21.27	21.11	22.50
15	64QAM	36	0	20.29	20.42	20.27	21.50
15	64QAM	36	19	20.35	20.39	20.28	21.50
15	64QAM	36	39	20.36	20.29	20.32	21.50
15	64QAM	75	0	20.37	20.31	20.23	21.50

Band				LTE B41			
Bandwidth (MHz)	Modulation	RB Size	RB offset	40140	40640	41140	Tune-up power(dBm)
20	QPSK	1	0	23.39	23.51	23.48	24.50
20	QPSK	1	49	23.35	23.48	23.33	24.50
20	QPSK	1	99	23.25	23.33	23.31	24.50
20	QPSK	50	0	22.83	22.97	22.91	23.50
20	QPSK	50	25	22.61	22.73	22.72	23.50
20	QPSK	50	50	22.36	22.38	22.26	23.50
20	QPSK	100	0	22.41	22.42	22.37	23.50
20	16QAM	1	0	22.17	22.32	22.26	23.50
20	16QAM	1	49	22.55	22.59	22.48	23.50
20	16QAM	1	99	22.23	22.29	22.14	23.50
20	16QAM	50	0	21.43	21.51	21.45	22.50
20	16QAM	50	25	21.35	21.46	21.35	22.50
20	16QAM	50	50	21.30	21.42	21.33	22.50
20	16QAM	100	0	21.45	21.46	21.31	22.50
20	64QAM	1	0	21.29	21.34	21.26	22.50
20	64QAM	1	49	21.49	21.64	21.52	22.50
20	64QAM	1	99	21.24	21.32	21.26	22.50
20	64QAM	50	0	20.44	20.50	20.41	21.50
20	64QAM	50	25	20.39	20.47	20.36	21.50
20	64QAM	50	50	20.39	20.41	20.35	21.50
20	64QAM	100	0	20.42	20.45	20.30	21.50

8.4 WIFI Output Power

8.4.1 WIFI2.4G Output Power

WIFI2.4G-Full Power						
2.4G	Mode	Channel	Frequency (MHz)	AV power (dBm)	Tune up (dBm)	SAR Test
	11b	1	2412	19.82	20.50	Yes
		6	2437	18.46	19.50	No
		11	2462	19.67	20.50	No
	11g	1	2412	18.29	19.50	No
		6	2437	19.62	20.50	No
		11	2462	18.37	19.50	No
	11n-HT20	1	2412	19.02	20.00	No
		6	2437	18.75	20.00	No
		11	2462	16.83	18.00	No
	11n-HT40	3	2422	16.75	17.50	No
		6	2437	18.89	19.50	No
		9	2452	15.27	16.00	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 = $0.437 * (112.2\text{mW}/112.2\text{mW}) = 0.437$ W/Kg, so 2.4G OFDM SAR test is not required.

8.4.2 WIFI5G Output Power

WIFI5G-Full Power						
	Mode	Channel	Frequency (MHz)	AV power (dBm)	Tune up (dBm)	SAR Test
5.2G	11a	36	5180	14.16	15.00	No
		44	5220	14.07	15.00	No
		48	5240	14.19	15.00	No
	11n20	36	5180	14.57	15.50	Yes
		44	5220	13.97	15.00	No
		48	5240	14.05	15.00	No
	11n40	38	5190	14.06	15.00	No
		46	5230	14.12	15.00	No
	11ac20	36	5180	13.97	15.00	No
		44	5220	13.91	15.00	No
		48	5240	13.98	15.00	No
	11ac40	38	5190	14.03	15.00	No
		46	5230	14.11	15.00	No
	11ac80	42	5210	14.09	15.00	No
5.3G	11a	52	5260	14.70	15.50	Yes
		60	5300	14.17	15.00	No
		64	5320	14.16	15.00	No
	11n20	52	5260	14.04	15.00	No
		60	5300	14.02	15.00	No
		64	5320	14.06	15.00	No
	11n40	54	5270	14.07	15.00	No
		62	5310	14.08	15.00	No
	11ac20	52	5260	14.03	15.00	No
		60	5300	14.01	15.00	No
		64	5320	14.03	15.00	No
	11ac40	54	5270	14.04	15.00	No
		62	5310	14.09	15.00	No
	11ac80	58	5290	14.05	15.00	No
5.6G	11a	100	5500	17.84	19.00	No
		116	5580	19.81	21.00	Yes
		140	5700	15.98	17.00	No
	11n20	100	5500	17.60	18.50	No
		116	5580	19.66	20.50	No
		140	5700	15.76	16.50	No
	11n40	102	5510	15.33	16.50	No
		118	5590	19.12	20.00	No
		134	5670	19.24	20.00	No
	11ac20	100	5500	17.76	18.50	No
		116	5580	19.15	20.00	No
		140	5700	15.80	16.50	No
	11ac40	102	5510	15.23	16.00	No
		118	5590	19.02	20.00	No
		134	5670	19.10	20.00	No
	11ac80	106	5530	15.31	16.50	No
		122	5610	18.56	19.50	No
5.8G	11a	149	5745	19.62	20.50	Yes
		157	5785	19.50	20.50	No
		165	5825	19.39	20.50	No
	11n20	149	5745	19.47	20.50	No
		157	5785	19.27	20.50	No
		165	5825	19.24	20.50	No
	11n40	151	5755	18.80	20.00	No
		159	5795	18.76	20.00	No
	11ac20	149	5745	19.03	20.00	No
		157	5785	18.83	20.00	No
		165	5825	18.69	19.50	No
	11ac40	151	5755	18.78	19.50	No
		159	5795	18.84	20.00	No
	11ac80	155	5775	18.31	19.50	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 among the multiple configurations in a frequency band with the same maximum tune-up output power. 2) When multiple transmission modes (802.11a/g/n/ac/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac.						

8.5 Bluetooth

8.5.1 Bluetooth Output Power

Bluetooth-Full Power						
Test Mode	Modulation	Channel number	Frequency(MHz)	Meas. power (dBm)	Tune up (dBm)	SAR Test
BT	DH5	0	2402	13.47	14.50	Yes
		39	2441	10.78	11.50	No
		78	2480	7.07	8.00	No
	2DH5	0	2402	11.68	12.50	No
		39	2441	10.90	12.00	No
		78	2480	6.99	8.00	No
	3DH5	0	2402	12.00	13.00	No
		39	2441	10.85	11.50	No
		78	2480	7.51	8.50	No
	BLE-1M	0	2402	-0.38	1.00	No
		19	2440	-0.10	1.00	No
		39	2480	-0.30	1.00	No
	BLE-2M	1	2404	-0.27	1.00	No
		19	2440	-0.07	1.00	No
		38	2478	-0.25	1.00	No

8.5.2 Bluetooth Duty Cycle

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

Duty Cycle

