

Appendix E:

Output Power Measurement

LTE Ant0:

LTE Band 2				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18607	18900	19193	
1.4MHz	QPSK	1	0	19.97	19.83	19.84	20.50
		1	2	19.90	19.93	19.95	20.50
		1	5	19.92	19.89	19.84	20.50
		3	0	19.86	19.92	19.95	20.50
		3	2	19.87	19.94	19.91	20.50
		3	3	19.91	19.88	19.89	20.50
		6	0	19.88	19.88	19.85	20.50
	16QAM	1	0	19.89	19.86	19.90	20.50
		1	2	19.80	19.78	19.91	20.50
		1	5	19.88	19.82	19.87	20.50
		3	0	19.94	19.94	19.93	20.50
		3	2	19.91	19.85	19.90	20.50
		3	3	19.88	19.91	19.75	20.50
		6	0	19.89	19.85	19.81	20.50
	64QAM	1	0	19.57	19.60	19.56	20.50
		1	2	19.42	19.41	19.45	20.50
		1	5	19.63	19.60	19.69	20.50
		3	0	19.34	19.41	19.35	20.50
		3	2	19.46	19.39	19.36	20.50
		3	3	19.35	19.30	19.24	20.50
		6	0	19.40	19.19	19.24	20.50
	256QAM	1	0	18.89	18.88	18.92	19.50
		1	2	18.92	18.89	18.92	19.50
		1	5	18.91	18.97	18.88	19.50
		3	0	18.84	18.84	18.79	19.50
		3	2	18.84	18.76	18.76	19.50
		3	3	18.71	18.70	18.65	19.50
		6	0	18.74	18.68	18.77	19.50
3MHz	QPSK	1	0	19.81	19.84	19.87	20.50
		1	7	19.89	19.91	19.89	20.50
		1	14	19.91	19.90	19.82	20.50
		8	0	19.89	19.92	19.88	20.50
		8	4	19.88	19.95	19.89	20.50
		8	7	19.93	19.93	19.94	20.50
		15	0	19.80	19.93	19.83	20.50
	16QAM	1	0	19.88	19.85	19.90	20.50
		1	7	19.90	19.82	19.93	20.50
		1	14	19.86	19.89	19.81	20.50
		8	0	19.92	19.90	19.87	20.50
		8	4	19.94	19.82	19.94	20.50
		8	7	19.91	19.88	19.74	20.50
		15	0	19.85	19.86	19.77	20.50
	64QAM	1	0	19.53	19.42	19.68	20.50
		1	7	19.55	19.39	19.48	20.50
		1	14	19.54	19.57	19.53	20.50
		8	0	19.40	19.25	19.33	20.50
		8	4	19.33	19.23	19.45	20.50
		8	7	19.26	19.27	19.22	20.50
		15	0	19.36	19.37	19.38	20.50
	256QAM	1	0	18.85	18.89	18.89	19.50
		1	7	18.93	18.83	18.93	19.50
		1	14	18.80	18.95	18.92	19.50
		8	0	18.93	18.80	18.77	19.50
		8	4	18.73	18.83	18.74	19.50
		8	7	18.72	18.71	18.72	19.50
		15	0	18.79	18.68	18.75	19.50
5MHz	QPSK	1	0	19.86	19.86	19.85	20.50
		1	13	19.88	19.90	19.92	20.50
		1	24	19.94	19.90	19.84	20.50
		12	0	19.93	19.90	19.88	20.50
		12	6	19.97	19.96	19.86	20.50
		12	13	19.93	19.89	19.91	20.50
		25	0	19.83	19.80	19.92	20.50

	16QAM	1	0	19.94	19.87	19.96	20.50
		1	13	19.85	19.92	19.93	20.50
		1	24	19.94	19.93	19.86	20.50
		12	0	19.95	19.97	19.94	20.50
		12	6	19.82	19.87	19.88	20.50
		12	13	19.88	19.81	19.76	20.50
		25	0	19.96	19.93	19.92	20.50
	64QAM	1	0	19.42	19.43	19.55	20.50
		1	13	19.49	19.54	19.43	20.50
		1	24	19.59	19.58	19.60	20.50
		12	0	19.37	19.26	19.37	20.50
		12	6	19.50	19.30	19.48	20.50
		12	13	19.32	19.31	19.22	20.50
		25	0	19.43	19.32	19.27	20.50
	256QAM	1	0	18.89	18.79	18.79	19.50
		1	13	18.91	18.94	18.82	19.50
		1	24	18.93	18.98	18.88	19.50
		12	0	18.93	18.75	18.82	19.50
		12	6	18.69	18.72	18.72	19.50
		12	13	18.62	18.70	18.58	19.50
		25	0	18.72	18.77	18.76	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18650	18900	19150	
10MHz	QPSK	1	0	19.84	19.80	19.91	20.50
		1	25	19.93	19.95	19.96	20.50
		1	49	19.96	19.92	19.88	20.50
		25	0	19.97	19.96	19.92	20.50
		25	13	19.96	19.92	19.86	20.50
		25	25	19.95	19.92	19.94	20.50
		50	0	19.77	19.88	19.91	20.50
	16QAM	1	0	19.87	19.85	19.84	20.50
		1	25	19.90	19.75	19.95	20.50
		1	49	19.93	19.84	19.81	20.50
		25	0	19.91	19.92	19.92	20.50
		25	13	19.95	19.92	19.93	20.50
		25	25	19.93	19.79	19.84	20.50
		50	0	19.86	19.94	19.75	20.50
	64QAM	1	0	19.54	19.53	19.58	20.50
		1	25	19.44	19.42	19.41	20.50
		1	49	19.62	19.50	19.52	20.50
		25	0	19.47	19.27	19.38	20.50
		25	13	19.45	19.39	19.46	20.50
		25	25	19.27	19.21	19.38	20.50
		50	0	19.34	19.23	19.25	20.50
	256QAM	1	0	18.93	18.88	18.79	19.50
		1	25	18.91	18.96	18.82	19.50
		1	49	18.80	18.91	18.92	19.50
		25	0	18.80	18.86	18.73	19.50
		25	13	18.80	18.74	18.82	19.50
		25	25	18.61	18.59	18.69	19.50
		50	0	18.79	18.72	18.74	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18675	18900	19125	
15MHz	QPSK	1	0	19.88	19.74	19.89	20.50
		1	38	19.93	19.96	19.89	20.50
		1	74	19.84	19.95	19.95	20.50
		36	0	19.91	19.92	19.94	20.50
		36	18	19.95	19.97	19.93	20.50
		36	39	19.94	19.88	19.92	20.50
		75	0	19.92	19.90	19.95	20.50
	16QAM	1	0	19.85	19.87	19.88	20.50
		1	38	19.89	19.76	19.94	20.50
		1	74	19.91	19.86	19.90	20.50
		36	0	19.89	19.88	19.92	20.50
		36	18	19.82	19.95	19.97	20.50
		36	39	19.94	19.80	19.88	20.50
		75	0	19.92	19.97	19.88	20.50
	64QAM	1	0	19.48	19.61	19.65	20.50
		1	38	19.47	19.55	19.50	20.50
		1	74	19.56	19.49	19.58	20.50
		36	0	19.37	19.39	19.42	20.50
		36	18	19.45	19.41	19.48	20.50
		36	39	19.34	19.27	19.31	20.50
		75	0	19.39	19.19	19.31	20.50
	256QAM	1	0	18.94	18.88	18.87	19.50
		1	38	18.87	18.95	18.89	19.50
		1	74	18.82	18.94	18.88	19.50

		36	0	18.83	18.83	18.66	19.50
		36	18	18.78	18.82	18.74	19.50
		36	39	18.65	18.62	18.71	19.50
		75	0	18.74	18.82	18.75	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	QPSK	1	0	19.90	19.92	19.92	20.50
		1	50	19.95	19.98	19.95	20.50
		1	99	19.94	19.96	19.93	20.50
		50	0	19.94	19.97	19.93	20.50
		50	25	19.97	19.96	19.95	20.50
		50	50	19.97	19.95	19.96	20.50
		100	0	19.93	19.97	19.91	20.50
		1	0	19.95	19.89	19.97	20.50
	16QAM	1	50	19.93	19.93	19.96	20.50
		1	99	19.94	19.96	19.90	20.50
		50	0	19.94	19.95	19.94	20.50
		50	25	19.93	19.92	19.97	20.50
		50	50	19.93	19.91	19.84	20.50
		100	0	19.90	19.94	19.92	20.50
		1	0	19.49	19.52	19.60	20.50
		1	50	19.48	19.45	19.47	20.50
	64QAM	1	99	19.62	19.56	19.62	20.50
		50	0	19.41	19.35	19.43	20.50
		50	25	19.41	19.33	19.40	20.50
		50	50	19.33	19.31	19.31	20.50
		100	0	19.37	19.29	19.30	20.50
		1	0	18.91	18.87	18.87	19.50
		1	50	18.92	18.93	18.90	19.50
		1	99	18.90	18.92	18.91	19.50
	256QAM	50	0	18.87	18.80	18.76	19.50
		50	25	18.79	18.77	18.79	19.50
		50	50	18.70	18.69	18.66	19.50
		100	0	18.75	18.76	18.75	19.50

LTE Band 4				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
1.4MHz	QPSK	1	0	19.96	19.95	19.89	20.50
		1	2	19.97	19.93	19.92	20.50
		1	5	19.98	19.94	19.93	20.50
		3	0	19.91	19.89	19.93	20.50
		3	2	19.87	19.96	19.94	20.50
		3	3	19.95	19.94	19.93	20.50
		6	0	19.98	19.99	19.94	20.50
		1	0	19.96	19.97	19.90	20.50
	16QAM	1	2	19.95	19.91	19.95	20.50
		1	5	19.86	19.95	19.99	20.50
		3	0	19.99	19.91	19.93	20.50
		3	2	19.95	19.89	19.96	20.50
		3	3	19.90	19.97	19.95	20.50
		6	0	19.86	19.93	19.80	20.50
		1	0	19.84	19.85	19.81	20.50
		1	2	19.75	19.88	19.97	20.50
	64QAM	1	5	19.87	19.76	19.93	20.50
		3	0	19.43	19.61	19.68	20.50
		3	2	19.49	19.51	19.57	20.50
		3	3	19.66	19.47	19.55	20.50
		6	0	19.44	19.57	19.42	20.50
		1	0	19.08	19.11	19.04	19.50
		1	2	19.05	19.19	19.12	19.50
		1	5	19.18	19.16	19.08	19.50
	256QAM	3	0	19.03	19.03	19.05	19.50
		3	2	19.02	19.04	19.01	19.50
		3	3	19.02	19.06	19.03	19.50
		6	0	19.08	19.07	19.05	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
3MHz	QPSK	1	0	19.98	19.93	19.92	20.50
		1	7	19.93	19.87	19.96	20.50
		1	14	19.95	19.96	19.98	20.50
		8	0	19.91	19.82	19.79	20.50
		8	4	19.90	19.99	19.88	20.50
		8	7	19.89	19.96	19.89	20.50
		15	0	19.89	19.95	19.97	20.50
	16QAM	1	0	19.96	19.94	19.91	20.50

		1	7	19.91	19.99	19.96	20.50
		1	14	19.86	19.85	19.91	20.50
		8	0	19.91	19.85	19.97	20.50
		8	4	19.88	19.91	19.85	20.50
		8	7	19.96	19.99	19.99	20.50
		15	0	19.93	19.89	19.88	20.50
	64QAM	1	0	19.89	19.76	19.71	20.50
		1	7	19.89	19.74	19.90	20.50
		1	14	19.74	19.89	19.84	20.50
		8	0	19.42	19.43	19.68	20.50
		8	4	19.56	19.52	19.51	20.50
		8	7	19.49	19.50	19.54	20.50
		15	0	19.64	19.44	19.49	20.50
		1	0	19.07	19.11	18.98	19.50
	256QAM	1	7	19.10	19.12	19.16	19.50
		1	14	19.21	19.25	19.12	19.50
		8	0	18.99	19.00	19.07	19.50
		8	4	19.14	19.11	18.94	19.50
		8	7	19.01	19.08	19.02	19.50
		15	0	19.03	19.15	19.13	19.50
Bandwidth	Modulation	RB size	RB offset	Channel 19975	Channel 20175	Channel 20375	Tune up
5MHz	QPSK	1	0	19.95	19.93	19.93	20.50
		1	13	19.98	19.94	19.95	20.50
		1	24	19.94	19.92	19.94	20.50
		12	0	19.96	19.86	19.85	20.50
		12	6	19.95	19.96	19.92	20.50
		12	13	19.94	19.85	19.89	20.50
		25	0	19.93	19.98	19.96	20.50
		1	0	19.93	19.90	19.91	20.50
	16QAM	1	13	19.97	19.91	19.88	20.50
		1	24	19.92	19.93	19.94	20.50
		12	0	19.94	19.87	19.88	20.50
		12	6	19.99	19.93	19.93	20.50
		12	13	19.85	19.94	19.95	20.50
		25	0	19.84	19.92	19.90	20.50
		1	0	19.93	19.84	19.70	20.50
		1	13	19.76	19.88	19.85	20.50
	64QAM	1	24	19.78	19.85	19.86	20.50
		12	0	19.54	19.50	19.59	20.50
		12	6	19.55	19.49	19.56	20.50
		12	13	19.56	19.47	19.57	20.50
		25	0	19.61	19.48	19.51	20.50
		1	0	19.10	19.14	19.00	19.50
		1	13	19.13	19.08	19.07	19.50
		1	24	19.22	19.24	19.18	19.50
	256QAM	12	0	18.93	19.06	18.93	19.50
		12	6	19.07	19.10	19.00	19.50
		12	13	18.95	19.09	18.91	19.50
		25	0	19.11	19.06	19.12	19.50
Bandwidth	Modulation	RB size	RB offset	Channel 20000	Channel 20175	Channel 20350	Tune up
10MHz	QPSK	1	0	19.88	19.88	19.96	20.50
		1	25	19.90	19.99	19.90	20.50
		1	49	19.96	19.95	19.94	20.50
		25	0	19.92	19.88	19.82	20.50
		25	13	19.96	19.94	19.91	20.50
		25	25	19.99	19.93	19.84	20.50
		50	0	19.89	19.95	19.94	20.50
		1	0	19.92	19.98	19.97	20.50
	16QAM	1	25	19.96	19.87	19.96	20.50
		1	49	19.96	19.98	19.95	20.50
		25	0	19.91	19.89	19.94	20.50
		25	13	19.96	19.91	19.93	20.50
		25	25	19.98	19.88	19.90	20.50
		50	0	19.96	19.85	19.79	20.50
		1	0	19.95	19.73	19.79	20.50
		1	25	19.82	19.89	19.97	20.50
	64QAM	1	49	19.84	19.82	19.84	20.50
		25	0	19.51	19.47	19.66	20.50
		25	13	19.66	19.57	19.51	20.50
		25	25	19.56	19.44	19.53	20.50
		50	0	19.54	19.50	19.52	20.50
		1	0	19.05	19.06	19.08	19.50
		1	25	19.03	19.11	19.15	19.50
		1	49	19.16	19.21	19.19	19.50
	256QAM	25	0	18.89	18.99	19.04	19.50

		25	13	19.01	19.16	18.96	19.50
		25	25	18.95	19.06	18.92	19.50
		50	0	19.07	19.08	19.16	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20025	20175	20325	
15MHz	QPSK	1	0	19.92	19.97	19.97	20.50
		1	38	19.96	19.95	19.96	20.50
		1	74	19.95	19.92	19.96	20.50
		36	0	19.91	19.83	19.82	20.50
		36	18	19.89	19.88	19.91	20.50
		36	39	19.86	19.97	19.87	20.50
		75	0	19.85	19.91	19.94	20.50
	16QAM	1	0	19.89	19.93	19.97	20.50
		1	38	19.92	19.92	19.94	20.50
		1	74	19.97	19.88	19.90	20.50
		36	0	19.91	19.86	19.95	20.50
		36	18	19.91	19.90	19.96	20.50
		36	39	19.88	19.94	19.98	20.50
		75	0	19.87	19.86	19.95	20.50
	64QAM	1	0	19.80	19.68	19.74	20.50
		1	38	19.91	19.78	19.90	20.50
		1	74	19.87	19.84	19.78	20.50
		36	0	19.44	19.54	19.65	20.50
		36	18	19.61	19.57	19.57	20.50
		36	39	19.63	19.56	19.45	20.50
		75	0	19.57	19.51	19.53	20.50
	256QAM	1	0	19.00	19.17	19.07	19.50
		1	38	19.14	19.10	19.08	19.50
		1	74	19.14	19.21	19.14	19.50
		36	0	18.90	18.99	18.99	19.50
		36	18	19.02	19.06	18.94	19.50
		36	39	18.96	18.98	19.02	19.50
		75	0	19.01	19.09	19.13	19.50
20MHz	QPSK	1	0	19.93	19.96	19.97	20.50
		1	50	19.95	20.01	20.00	20.50
		1	99	19.97	19.99	19.97	20.50
		50	0	19.93	19.91	19.89	20.50
		50	25	19.96	19.97	19.95	20.50
		50	50	19.95	19.94	19.94	20.50
		100	0	19.93	19.96	19.96	20.50
	16QAM	1	0	19.99	19.98	20.00	20.50
		1	50	19.99	19.97	19.98	20.50
		1	99	19.96	19.93	19.93	20.50
		50	0	19.91	19.94	19.95	20.50
		50	25	20.01	19.95	19.96	20.50
		50	50	19.94	19.92	19.99	20.50
		100	0	19.89	19.85	19.89	20.50
	64QAM	1	0	19.88	19.78	19.80	20.50
		1	50	19.83	19.79	19.87	20.50
		1	99	19.82	19.82	19.86	20.50
		50	0	19.47	19.52	19.58	20.50
		50	25	19.59	19.51	19.50	20.50
		50	50	19.57	19.50	19.47	20.50
		100	0	19.54	19.47	19.46	20.50
	256QAM	1	0	19.10	19.11	19.08	19.50
		1	50	19.13	19.18	19.15	19.50
		1	99	19.20	19.21	19.16	19.50
		50	0	18.97	19.06	19.01	19.50
		50	25	19.11	19.14	19.03	19.50
		50	50	19.03	19.08	19.00	19.50
		100	0	19.08	19.11	19.10	19.50

LTE Band 30				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				27685	27710	27735	
5MHz	QPSK	1	0	15.27	15.29	15.27	16.00
		1	13	15.35	15.39	15.40	16.00
		1	24	15.27	15.26	15.22	16.00
		12	0	15.35	15.23	15.25	16.00
		12	6	15.38	15.40	15.34	16.00
		12	13	15.31	15.31	15.28	16.00
		25	0	15.19	15.22	15.17	16.00
16QAM		1	0	15.21	15.23	15.22	16.00
		1	13	15.31	15.18	15.21	16.00

		1	24	15.31	15.25	15.22	16.00
		12	0	15.15	15.24	15.23	16.00
		12	6	15.19	15.12	15.10	16.00
		12	13	15.22	15.20	15.17	16.00
		25	0	15.17	15.21	15.15	16.00
		1	0	14.63	14.65	14.70	15.50
		1	13	14.78	14.80	14.77	15.50
		1	24	14.54	14.65	14.58	15.50
		12	0	14.38	14.39	14.38	15.50
		12	6	14.37	14.32	14.40	15.50
		12	13	14.40	14.27	14.41	15.50
		25	0	14.38	14.41	14.32	15.50
		1	0	14.96	14.97	14.93	15.50
		1	13	15.25	15.17	15.27	15.50
		1	24	14.91	14.92	15.07	15.50
		12	0	15.01	15.04	14.99	15.50
		12	6	15.07	14.94	14.89	15.50
		12	13	15.03	14.98	14.98	15.50
		25	0	14.94	15.01	14.85	15.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	27710	/	
10MHz	QPSK	1	0	/	15.39	/	16.00
		1	25	/	15.41	/	16.00
		1	49	/	15.36	/	16.00
		25	0	/	15.37	/	16.00
		25	13	/	15.43	/	16.00
		25	25	/	15.41	/	16.00
		50	0	/	15.28	/	16.00
	16QAM	1	0	/	15.34	/	16.00
		1	25	/	15.32	/	16.00
		1	49	/	15.37	/	16.00
		25	0	/	15.26	/	16.00
		25	13	/	15.24	/	16.00
		25	25	/	15.23	/	16.00
		50	0	/	15.22	/	16.00
	64QAM	1	0	/	14.78	/	15.50
		1	25	/	14.81	/	15.50
		1	49	/	14.67	/	15.50
		25	0	/	14.45	/	15.50
		25	13	/	14.44	/	15.50
		25	25	/	14.42	/	15.50
		50	0	/	14.47	/	15.50
	256QAM	1	0	/	15.07	/	15.50
		1	25	/	15.26	/	15.50
		1	49	/	15.04	/	15.50
		25	0	/	15.02	/	15.50
		25	13	/	15.03	/	15.50
		25	25	/	15.06	/	15.50
		50	0	/	15.00	/	15.50

LTE Band 41(2496~2690) class 3				Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39675	40148	40620	41093	41565	
5MHz	QPSK	1	0	19.23	19.26	19.47	19.27	18.94	20.00
		1	13	19.35	19.28	19.48	19.44	19.24	20.00
		1	24	19.15	19.22	19.46	19.01	19.21	20.00
		12	0	19.25	19.20	19.49	19.24	19.11	20.00
		12	6	19.22	19.33	19.46	19.39	19.28	20.00
		12	13	19.30	19.35	19.42	19.23	19.26	20.00
		25	0	19.31	19.34	19.28	19.32	19.10	20.00
16QAM	16QAM	1	0	19.54	19.21	19.55	19.22	19.01	20.00
		1	13	19.28	19.47	19.47	19.29	19.18	20.00
		1	24	19.11	19.40	19.48	19.18	19.22	20.00
		12	0	19.56	19.46	19.46	19.34	19.17	20.00
		12	6	19.51	19.45	19.46	19.32	19.14	20.00
		12	13	19.53	19.52	19.46	19.21	19.25	20.00
		25	0	19.55	19.34	19.36	19.31	19.29	20.00
64QAM	64QAM	1	0	18.55	18.58	18.53	18.68	18.51	19.50
		1	13	18.43	18.45	18.50	18.53	18.46	19.50
		1	24	18.57	18.51	18.54	18.60	18.37	19.50
		12	0	18.44	18.38	18.46	18.43	18.38	19.50
		12	6	18.37	18.28	18.34	18.22	18.34	19.50
		12	13	18.58	18.53	18.59	18.53	18.36	19.50
		25	0	18.54	18.45	18.46	18.38	18.56	19.50
256QAM	256QAM	1	0	18.33	18.49	18.38	18.43	17.96	19.50
		1	13	18.62	18.48	18.66	18.52	18.41	19.50

		1	24	18.54	18.56	18.62	18.36	18.40	19.50
		12	0	18.20	18.46	18.43	18.34	18.32	19.50
		12	6	18.36	18.48	18.32	18.53	18.49	19.50
		12	13	18.45	18.41	18.47	18.46	18.64	19.50
		25	0	18.33	18.49	18.38	18.56	18.37	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
10MHz	QPSK	1	0	19.20	19.27	19.40	19.32	18.95	20.00
		1	25	19.31	19.22	19.49	19.52	19.32	20.00
	16QAM	1	49	19.17	19.25	19.38	19.06	19.19	20.00
		25	0	19.16	19.28	19.46	19.22	19.16	20.00
		25	13	19.25	19.34	19.50	19.46	19.25	20.00
		25	25	19.25	19.36	19.45	19.28	19.33	20.00
		50	0	19.31	19.26	19.37	19.32	19.05	20.00
	64QAM	1	0	19.51	19.21	19.53	19.30	19.09	20.00
		1	25	19.33	19.49	19.54	19.27	19.21	20.00
		1	49	19.11	19.47	19.56	19.18	19.22	20.00
		25	0	19.52	19.45	19.39	19.32	19.13	20.00
		25	13	19.55	19.37	19.45	19.26	19.21	20.00
		25	25	19.54	19.47	19.45	19.28	19.22	20.00
		50	0	19.53	19.39	19.38	19.30	19.27	20.00
	256QAM	1	0	18.53	18.56	18.52	18.57	18.53	19.50
		1	25	18.42	18.44	18.40	18.44	18.34	19.50
		1	49	18.47	18.61	18.61	18.52	18.32	19.50
		25	0	18.42	18.43	18.48	18.46	18.33	19.50
		25	13	18.37	18.29	18.35	18.27	18.45	19.50
		25	25	18.53	18.62	18.49	18.48	18.46	19.50
		50	0	18.54	18.44	18.54	18.41	18.57	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
15MHz	QPSK	1	0	19.16	19.27	19.44	19.25	18.93	20.00
		1	38	19.28	19.20	19.50	19.47	19.23	20.00
		1	74	19.17	19.26	19.50	19.05	19.13	20.00
		36	0	19.16	19.30	19.46	19.22	19.05	20.00
		36	18	19.24	19.30	19.52	19.42	19.35	20.00
		36	39	19.27	19.40	19.47	19.20	19.35	20.00
		75	0	19.26	19.34	19.39	19.34	19.08	20.00
	16QAM	1	0	19.56	19.22	19.56	19.23	19.09	20.00
		1	38	19.34	19.43	19.53	19.20	19.18	20.00
		1	74	19.14	19.40	19.56	19.10	19.16	20.00
		36	0	19.45	19.37	19.45	19.28	19.13	20.00
		36	18	19.50	19.37	19.54	19.28	19.18	20.00
		36	39	19.55	19.47	19.42	19.28	19.21	20.00
		75	0	19.53	19.46	19.42	19.27	19.18	20.00
	64QAM	1	0	18.58	18.56	18.57	18.63	18.62	19.50
		1	38	18.36	18.49	18.47	18.49	18.41	19.50
		1	74	18.55	18.54	18.56	18.64	18.40	19.50
		36	0	18.47	18.38	18.46	18.52	18.43	19.50
		36	18	18.43	18.27	18.38	18.21	18.45	19.50
		36	39	18.55	18.54	18.58	18.48	18.43	19.50
		75	0	18.50	18.46	18.54	18.37	18.50	19.50
	256QAM	1	0	18.19	18.47	18.28	18.43	17.98	19.50
		1	38	18.41	18.56	18.61	18.63	18.34	19.50
		1	74	18.44	18.54	18.42	18.43	18.42	19.50
		36	0	18.37	18.44	18.53	18.50	18.18	19.50
		36	18	18.50	18.42	18.40	18.56	18.46	19.50
		36	39	18.47	18.33	18.60	18.33	18.60	19.50
		75	0	18.44	18.41	18.34	18.58	18.43	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
20MHz	QPSK	1	0	19.27	19.30	19.52	19.34	19.05	20.00
		1	50	19.36	19.33	19.57	19.53	19.35	20.00
		1	99	19.24	19.28	19.51	19.09	19.23	20.00
		50	0	19.28	19.32	19.51	19.35	19.17	20.00
		50	25	19.35	19.42	19.54	19.48	19.38	20.00
		50	50	19.34	19.41	19.52	19.32	19.37	20.00
		100	0	19.33	19.39	19.41	19.42	19.17	20.00
	16QAM	1	0	19.47	19.31	19.52	19.32	19.11	20.00
		1	50	19.36	19.51	19.53	19.31	19.26	20.00
		1	99	19.21	19.48	19.51	19.23	19.29	20.00

		1	13	16.62	16.71	16.74	16.61	17.50
		1	24	16.71	16.70	16.58	16.73	17.50
		12	0	16.65	16.74	16.70	16.66	17.50
		12	6	16.71	16.70	16.68	16.75	17.50
		12	13	16.75	16.65	16.61	16.57	17.50
		25	0	16.68	16.70	16.72	16.73	17.50
	64QAM	1	0	16.47	16.54	16.63	16.72	17.50
		1	13	16.54	16.63	16.63	16.56	17.50
		1	24	16.71	16.69	16.60	16.56	17.50
		12	0	16.74	16.75	16.51	16.70	17.50
		12	6	16.72	16.72	16.69	16.76	17.50
		12	13	16.67	16.72	16.71	16.68	17.50
		25	0	16.70	16.70	16.66	16.76	17.50
	256QAM	1	0	16.56	16.43	16.57	16.58	17.50
		1	13	16.46	16.61	16.65	16.66	17.50
		1	24	16.64	16.54	16.76	16.69	17.50
		12	0	16.58	16.73	16.63	16.51	17.50
		12	6	16.71	16.74	16.67	16.65	17.50
		12	13	16.58	16.76	16.58	16.57	17.50
		25	0	16.56	16.60	16.70	16.59	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Tune up
10MHz	QPSK	1	0	16.67	16.52	16.53	16.53	17.50
		1	25	16.75	16.64	16.74	16.47	17.50
		1	49	16.59	16.62	16.65	16.67	17.50
		25	0	16.52	16.64	16.76	16.67	17.50
		25	13	16.70	16.72	16.75	16.57	17.50
		25	25	16.67	16.68	16.72	16.76	17.50
		50	0	16.64	16.55	16.76	16.63	17.50
	16QAM	1	0	16.77	16.72	16.71	16.61	17.50
		1	25	16.73	16.52	16.68	16.77	17.50
		1	49	16.51	16.74	16.68	16.75	17.50
		25	0	16.61	16.71	16.67	16.65	17.50
		25	13	16.62	16.75	16.72	16.67	17.50
		25	25	16.76	16.62	16.72	16.73	17.50
		50	0	16.62	16.75	16.76	16.66	17.50
	64QAM	1	0	16.35	16.38	16.60	16.60	17.50
		1	25	16.51	16.61	16.50	16.53	17.50
		1	49	16.69	16.67	16.61	16.67	17.50
		25	0	16.66	16.67	16.58	16.77	17.50
		25	13	16.74	16.68	16.72	16.57	17.50
		25	25	16.75	16.75	16.63	16.70	17.50
		50	0	16.70	16.63	16.66	16.77	17.50
	256QAM	1	0	16.43	16.46	16.71	16.55	17.50
		1	25	16.65	16.50	16.63	16.59	17.50
		1	49	16.56	16.61	16.67	16.67	17.50
		25	0	16.68	16.70	16.70	16.52	17.50
		25	13	16.69	16.77	16.76	16.69	17.50
		25	25	16.76	16.74	16.60	16.65	17.50
		50	0	16.46	16.59	16.54	16.49	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Tune up
15MHz	QPSK	1	0	16.61	16.50	16.51	16.51	17.50
		1	38	16.66	16.66	16.73	16.50	17.50
		1	74	16.65	16.67	16.52	16.64	17.50
		36	0	16.73	16.50	16.61	16.65	17.50
		36	18	16.59	16.74	16.51	16.68	17.50
		36	39	16.68	16.73	16.76	16.73	17.50
		75	0	16.70	16.70	16.69	16.72	17.50
	16QAM	1	0	16.74	16.54	16.55	16.49	17.50
		1	38	16.72	16.70	16.58	16.65	17.50
		1	74	16.57	16.66	16.73	16.76	17.50
		36	0	16.69	16.54	16.66	16.61	17.50
		36	18	16.61	16.65	16.70	16.59	17.50
		36	39	16.75	16.68	16.49	16.62	17.50
		75	0	16.61	16.75	16.57	16.75	17.50
	64QAM	1	0	16.43	16.48	16.54	16.63	17.50
		1	38	16.50	16.70	16.64	16.67	17.50
		1	74	16.72	16.67	16.71	16.59	17.50
		36	0	16.66	16.73	16.52	16.65	17.50
		36	18	16.73	16.73	16.69	16.74	17.50
		36	39	16.73	16.70	16.75	16.60	17.50
		75	0	16.71	16.69	16.72	16.62	17.50
	256QAM	1	0	16.60	16.36	16.74	16.50	17.50
		1	38	16.60	16.48	16.75	16.63	17.50
		1	74	16.69	16.61	16.69	16.67	17.50
		36	0	16.65	16.67	16.53	16.54	17.50

		36	18	16.55	16.74	16.60	16.59	17.50
		36	39	16.65	16.70	16.75	16.57	17.50
		75	0	16.58	16.52	16.54	16.49	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Tune up
				55340	55773	56207	56640	
20MHz	QPSK	1	0	16.69	16.73	16.77	16.72	17.50
		1	50	16.71	16.77	16.78	16.76	17.50
		1	99	16.70	16.69	16.71	16.75	17.50
		50	0	16.68	16.66	16.65	16.69	17.50
		50	25	16.72	16.70	16.75	16.71	17.50
		50	50	16.70	16.68	16.71	16.70	17.50
		100	0	16.68	16.66	16.69	16.64	17.50
		1	0	16.66	16.58	16.63	16.67	17.50
	16QAM	1	50	16.71	16.67	16.72	16.68	17.50
		1	99	16.61	16.72	16.74	16.66	17.50
		50	0	16.71	16.73	16.67	16.61	17.50
		50	25	16.73	16.73	16.62	16.76	17.50
		50	50	16.75	16.72	16.65	16.73	17.50
		100	0	16.67	16.70	16.66	16.74	17.50
		1	0	16.50	16.61	16.62	16.76	17.50
		1	50	16.64	16.60	16.54	16.71	17.50
	64QAM	1	99	16.70	16.73	16.71	16.70	17.50
		50	0	16.69	16.71	16.60	16.71	17.50
		50	25	16.70	16.74	16.65	16.70	17.50
		50	50	16.72	16.77	16.70	16.71	17.50
		100	0	16.73	16.73	16.73	16.72	17.50
		1	0	16.50	16.44	16.63	16.60	17.50
		1	50	16.55	16.57	16.70	16.68	17.50
		1	99	16.58	16.62	16.64	16.65	17.50
	256QAM	50	0	16.57	16.63	16.61	16.60	17.50
		50	25	16.60	16.65	16.67	16.68	17.50
		50	50	16.64	16.67	16.66	16.63	17.50
		100	0	16.55	16.57	16.64	16.58	17.50

LTE Band 66				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				131979	132322	132665	
1.4MHz	QPSK	1	0	19.79	19.93	19.86	20.50
		1	2	19.87	19.91	19.94	20.50
		1	5	19.89	19.83	19.91	20.50
		3	0	19.82	19.79	19.83	20.50
		3	1	19.93	19.94	19.86	20.50
		3	3	19.86	19.84	19.92	20.50
		6	0	19.90	19.81	19.87	20.50
	16QAM	1	0	19.83	19.87	19.87	20.50
		1	2	19.92	19.92	19.92	20.50
		1	5	19.86	19.95	19.81	20.50
		3	0	19.78	19.76	19.86	20.50
		3	1	19.81	19.88	19.86	20.50
		3	3	19.71	19.89	19.94	20.50
	64QAM	6	0	19.91	19.89	19.82	20.50
		1	0	19.50	19.51	19.64	20.50
		1	2	19.62	19.43	19.64	20.50
		1	5	19.62	19.64	19.68	20.50
		3	0	19.33	19.25	19.19	20.50
		3	1	19.19	19.28	19.20	20.50
	256QAM	3	3	19.36	19.32	19.32	20.50
		6	0	19.26	19.28	19.24	20.50
		1	0	18.65	18.81	18.74	19.50
		1	2	18.78	18.68	18.86	19.50
		1	5	18.61	18.58	18.81	19.50
		3	0	18.41	18.51	18.57	19.50
3MHz	QPSK	3	1	18.64	18.50	18.77	19.50
		3	3	18.61	18.52	18.81	19.50
		6	0	18.57	18.65	18.83	19.50
		1	0	131987	132322	132657	Tune up
		1	7	19.92	19.92	19.89	
		1	14	19.93	19.89	19.93	20.50
		8	0	19.87	19.81	19.89	20.50
	16QAM	8	4	19.83	19.94	19.88	20.50
		8	7	19.80	19.84	19.92	20.50
		15	0	19.85	19.82	19.92	20.50

		1	14	19.83	19.94	19.83	20.50	
		8	0	19.85	19.86	19.90	20.50	
		8	4	19.83	19.81	19.95	20.50	
		8	7	19.81	19.79	19.80	20.50	
		15	0	19.89	19.79	19.80	20.50	
		1	0	19.57	19.55	19.63	20.50	
		1	7	19.50	19.44	19.50	20.50	
		1	14	19.72	19.58	19.70	20.50	
		8	0	19.32	19.12	19.19	20.50	
		8	4	19.32	19.20	19.24	20.50	
		8	7	19.31	19.31	19.35	20.50	
		15	0	19.32	19.23	19.13	20.50	
		1	0	18.66	18.76	18.76	19.50	
		1	7	18.59	18.67	18.75	19.50	
		1	14	18.54	18.57	18.91	19.50	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	
					131997	132322	132647	
							Tune up	
			1	0	19.77	19.97	19.91	20.50
			1	13	19.86	19.90	19.88	20.50
			1	24	19.80	19.91	19.84	20.50
			12	0	19.84	19.83	19.87	20.50
			12	6	19.89	19.91	19.89	20.50
			12	13	19.82	19.80	19.91	20.50
			25	0	19.94	19.77	19.93	20.50
			1	0	19.83	19.92	19.83	20.50
			1	13	19.96	19.90	19.94	20.50
			1	24	19.83	19.95	19.93	20.50
			12	0	19.87	19.77	19.83	20.50
			12	6	19.86	19.85	19.91	20.50
			12	13	19.80	19.92	19.93	20.50
			25	0	19.82	19.88	19.86	20.50
	5MHz		RB size	RB offset	Channel	Channel	Channel	
					131997	132322	132647	
							Tune up	
			1	0	19.50	19.50	19.66	20.50
			1	13	19.50	19.50	19.61	20.50
			1	24	19.67	19.61	19.71	20.50
			12	0	19.33	19.24	19.16	20.50
			12	6	19.26	19.31	19.19	20.50
			12	13	19.39	19.31	19.30	20.50
			25	0	19.33	19.19	19.19	20.50
			1	0	18.62	18.72	18.85	19.50
			1	13	18.67	18.70	18.74	19.50
			1	24	18.65	18.54	18.76	19.50
			12	0	18.50	18.61	18.61	19.50
			12	6	18.57	18.61	18.70	19.50
			12	13	18.51	18.48	18.79	19.50
			25	0	18.64	18.63	18.77	19.50
	10MHz		RB size	RB offset	Channel	Channel	Channel	
					132022	132322	132622	
							Tune up	
			1	0	19.73	19.92	19.84	20.50
			1	25	19.91	19.92	19.91	20.50
			1	49	19.92	19.88	19.81	20.50
			25	0	19.83	19.82	19.83	20.50
			25	13	19.95	19.91	19.83	20.50
			25	25	19.89	19.83	19.83	20.50
			50	0	19.87	19.88	19.81	20.50
			1	0	19.90	19.92	19.90	20.50
			1	25	19.85	19.90	19.93	20.50
			1	49	19.89	19.86	19.87	20.50
			25	0	19.78	19.83	19.87	20.50
			25	13	19.84	19.92	19.91	20.50
			25	25	19.75	19.88	19.81	20.50
			50	0	19.82	19.80	19.81	20.50
			RB size	RB offset	Channel	Channel	Channel	
					132022	132322	132622	
							Tune up	
			1	0	19.58	19.52	19.64	20.50
			1	25	19.48	19.43	19.59	20.50
			1	49	19.61	19.70	19.74	20.50
			25	0	19.34	19.14	19.22	20.50
			25	13	19.25	19.30	19.26	20.50
			25	25	19.39	19.24	19.35	20.50
			50	0	19.23	19.17	19.12	20.50
			1	0	18.73	18.61	18.79	19.50
			1	25	18.70	18.81	18.85	19.50
			1	49	18.65	18.59	18.84	19.50
			25	0	18.41	18.53	18.59	19.50
			25	13	18.46	18.54	18.82	19.50

		25	25	18.43	18.67	18.69	19.50
		50	0	18.57	18.53	18.70	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				132047	132322	132597	
15MHz	QPSK	1	0	19.84	19.89	19.90	20.50
		1	38	19.93	19.96	19.86	20.50
		1	74	19.90	19.89	19.85	20.50
		36	0	19.81	19.86	19.81	20.50
		36	18	19.92	19.87	19.95	20.50
		36	39	19.86	19.90	19.94	20.50
		75	0	19.87	19.89	19.82	20.50
	16QAM	1	0	19.83	19.94	19.82	20.50
		1	38	19.90	19.94	19.92	20.50
		1	74	19.94	19.89	19.85	20.50
		36	0	19.84	19.81	19.91	20.50
		36	18	19.79	19.88	19.91	20.50
		36	39	19.70	19.79	19.82	20.50
		75	0	19.86	19.85	19.84	20.50
	64QAM	1	0	19.58	19.54	19.59	20.50
		1	38	19.59	19.44	19.57	20.50
		1	74	19.70	19.71	19.77	20.50
		36	0	19.34	19.21	19.13	20.50
		36	18	19.29	19.31	19.22	20.50
		36	39	19.39	19.22	19.34	20.50
		75	0	19.25	19.27	19.22	20.50
	256QAM	1	0	18.63	18.81	18.91	19.50
		1	38	18.70	18.86	18.80	19.50
		1	74	18.74	18.61	18.77	19.50
		36	0	18.47	18.47	18.57	19.50
		36	18	18.50	18.59	18.72	19.50
		36	39	18.62	18.51	18.71	19.50
		75	0	18.66	18.48	18.76	19.50
20MHz	QPSK	1	0	19.88	19.95	19.98	20.50
		1	50	19.94	19.99	19.96	20.50
		1	99	19.94	19.92	19.94	20.50
		50	0	19.91	19.94	19.90	20.50
		50	25	19.94	19.96	19.97	20.50
		50	50	19.92	19.95	19.93	20.50
		100	0	19.96	19.91	19.94	20.50
	16QAM	1	0	19.91	19.97	19.92	20.50
		1	50	19.97	19.93	19.90	20.50
		1	99	19.97	19.96	19.96	20.50
		50	0	19.93	19.91	19.96	20.50
		50	25	19.87	19.93	19.90	20.50
		50	50	19.84	19.94	19.95	20.50
		100	0	19.97	19.92	19.91	20.50
	64QAM	1	0	19.60	19.64	19.72	20.50
		1	50	19.63	19.56	19.65	20.50
		1	99	19.74	19.73	19.80	20.50
		50	0	19.35	19.26	19.23	20.50
		50	25	19.33	19.35	19.32	20.50
		50	50	19.42	19.37	19.42	20.50
		100	0	19.36	19.31	19.26	20.50
	256QAM	1	0	18.70	18.70	18.80	19.50
		1	50	18.68	18.75	18.78	19.50
		1	99	18.62	18.64	18.85	19.50
		50	0	18.50	18.54	18.67	19.50
		50	25	18.55	18.60	18.70	19.50
		50	50	18.51	18.58	18.69	19.50
		100	0	18.54	18.57	18.71	19.50

LTE Ant3:

LTE Band 5				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20407	20525	20643	
1.4MHz	QPSK	1	0	22.07	22.13	22.15	23.50
		1	2	22.20	22.19	22.12	23.50
		1	5	22.09	22.13	22.12	23.50
		3	0	22.04	22.17	22.08	23.50
		3	2	22.10	22.20	22.11	23.50
		3	3	22.18	22.15	22.20	23.50
		6	0	22.16	22.16	22.14	23.50
	16QAM	1	0	22.13	22.18	22.12	23.50
		1	2	22.16	22.15	22.23	23.50
		1	5	22.16	22.22	22.22	23.50
		3	0	21.18	21.23	21.12	22.50
		3	2	21.04	21.21	21.12	22.50
		3	3	21.15	21.18	21.19	22.50
		6	0	21.11	21.10	21.11	22.50
	64QAM	1	0	21.07	21.14	20.98	22.50
		1	2	21.07	21.05	21.05	22.50
		1	5	20.95	20.94	20.84	22.50
		3	0	20.63	20.49	20.68	21.50
		3	2	20.55	20.50	20.61	21.50
		3	3	20.58	20.37	20.61	21.50
		6	0	20.61	20.49	20.69	21.50
	256QAM	1	0	18.65	18.93	18.67	20.00
		1	2	18.64	18.79	18.80	20.00
		1	5	18.61	18.86	18.76	20.00
		3	0	18.54	18.81	18.59	20.00
		3	2	18.69	18.82	18.58	20.00
		3	3	18.70	18.75	18.78	20.00
		6	0	18.72	18.73	18.63	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20415	20525	20635	
3MHz	QPSK	1	0	22.38	22.44	22.46	23.50
		1	7	22.51	22.50	22.43	23.50
		1	14	22.40	22.44	22.43	23.50
		8	0	22.36	22.49	22.40	23.50
		8	4	22.42	22.52	22.43	23.50
		8	7	22.50	22.47	22.52	23.50
		15	0	22.48	22.48	22.46	23.50
	16QAM	1	0	22.45	22.50	22.44	23.50
		1	7	22.48	22.47	22.55	23.50
		1	14	22.48	22.54	22.54	23.50
		8	0	21.50	21.55	21.44	22.50
		8	4	21.36	21.53	21.44	22.50
		8	7	21.47	21.50	21.51	22.50
		15	0	21.43	21.42	21.43	22.50
	64QAM	1	0	21.39	21.46	21.30	22.50
		1	7	21.39	21.37	21.37	22.50
		1	14	21.27	21.26	21.16	22.50
		8	0	20.58	20.56	20.64	21.50
		8	4	20.61	20.39	20.66	21.50
		8	7	20.58	20.41	20.57	21.50
		15	0	20.62	20.45	20.59	21.50
	256QAM	1	0	18.68	18.87	18.77	20.00
		1	7	18.73	18.87	18.72	20.00
		1	14	18.71	18.72	18.66	20.00
		8	0	18.54	18.75	18.60	20.00
		8	4	18.74	18.79	18.66	20.00
		8	7	18.60	18.82	18.71	20.00
		15	0	18.63	18.77	18.69	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20425	20525	20625	
5MHz	QPSK	1	0	22.48	22.48	22.42	23.50
		1	13	22.47	22.54	22.43	23.50
		1	24	22.39	22.45	22.47	23.50
		12	0	22.43	22.53	22.44	23.50
		12	6	22.46	22.50	22.47	23.50
	16QAM	12	13	22.49	22.48	22.52	23.50
		25	0	22.44	22.44	22.38	23.50
		1	0	22.50	22.50	22.48	23.50
		1	13	22.55	22.51	22.46	23.50
		1	24	22.53	22.56	22.50	23.50
		12	0	21.51	21.55	21.45	22.50

	64QAM	12	6	21.35	21.55	21.42	22.50	
		12	13	21.40	21.61	21.50	22.50	
		25	0	21.47	21.46	21.32	22.50	
		1	0	21.31	21.51	21.37	22.50	
		1	13	21.41	21.33	21.38	22.50	
		1	24	21.32	21.26	21.26	22.50	
		12	0	20.63	20.46	20.63	21.50	
		12	6	20.67	20.45	20.65	21.50	
256QAM	256QAM	12	13	20.59	20.41	20.58	21.50	
		25	0	20.70	20.43	20.68	21.50	
		1	0	18.57	18.78	18.73	20.00	
		1	13	18.65	18.81	18.79	20.00	
		1	24	18.74	18.76	18.79	20.00	
		12	0	18.52	18.86	18.75	20.00	
		12	6	18.62	18.78	18.57	20.00	
		12	13	18.73	18.80	18.64	20.00	
10MHz	Bandwidth	Modulation	RB size	RB offset	Channel 20450	Channel 20525	Channel 20600	Tune up
	QPSK	1	0	22.51	22.51	22.49	23.50	
		1	25	22.54	22.57	22.52	23.50	
		1	49	22.50	22.50	22.53	23.50	
		25	0	22.46	22.56	22.47	23.50	
		25	13	22.54	22.60	22.55	23.50	
		25	25	22.54	22.59	22.54	23.50	
		50	0	22.57	22.54	22.49	23.50	
	16QAM	1	0	22.55	22.58	22.54	23.50	
		1	25	22.60	22.56	22.58	23.50	
		1	49	22.56	22.59	22.59	23.50	
		25	0	21.54	21.56	21.49	22.50	
		25	13	21.47	21.58	21.51	22.50	
		25	25	21.51	21.62	21.55	22.50	
		50	0	21.50	21.54	21.45	22.50	
256QAM	64QAM	1	0	21.44	21.55	21.43	22.50	
		1	25	21.46	21.43	21.47	22.50	
		1	49	21.37	21.36	21.27	22.50	
		25	0	20.71	20.57	20.74	21.50	
		25	13	20.68	20.51	20.71	21.50	
		25	25	20.64	20.49	20.68	21.50	
		50	0	20.71	20.52	20.71	21.50	
	256QAM	1	0	18.61	18.83	18.71	20.00	
		1	25	18.64	18.84	18.78	20.00	
		1	49	18.69	18.80	18.70	20.00	
		25	0	18.55	18.76	18.65	20.00	
		25	13	18.64	18.77	18.62	20.00	
		25	25	18.66	18.75	18.69	20.00	
		50	0	18.66	18.80	18.62	20.00	

LTE Band 12				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 23017	Channel 23095	Channel 23173	Tune up
				21.96	21.88	21.94	23.00
1.4MHz	QPSK	1	2	21.94	21.92	21.91	23.00
		1	5	21.79	21.82	21.82	23.00
		3	0	21.85	21.85	21.83	23.00
		3	2	21.89	21.97	21.79	23.00
		3	3	21.94	21.91	21.83	23.00
		6	0	21.76	21.89	21.76	23.00
	16QAM	1	0	21.81	21.83	21.92	23.00
		1	2	21.96	21.91	21.85	23.00
		1	5	21.86	21.86	21.86	23.00
		3	0	21.82	21.80	21.77	23.00
		3	2	21.81	21.89	21.85	23.00
		3	3	21.78	21.97	21.74	23.00
	64QAM	6	0	21.77	21.90	21.76	23.00
		1	0	21.70	21.73	21.81	23.00
		1	2	21.72	21.71	21.72	23.00
		1	5	21.65	21.72	21.67	23.00
		3	0	20.49	20.48	20.43	22.00
		3	2	20.57	20.39	20.43	22.00
	256QAM	3	3	20.52	20.44	20.63	22.00
		6	0	20.53	20.44	20.50	22.00
		1	0	18.64	18.61	18.63	20.00
		1	2	18.62	18.70	18.69	20.00
		1	5	18.65	18.76	18.68	20.00
		3	0	18.63	18.56	18.60	20.00

		3	2	18.51	18.61	18.66	20.00
		3	3	18.73	18.67	18.71	20.00
		6	0	18.64	18.54	18.51	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				23025	23095	23165	
3MHz	QPSK	1	0	21.90	21.83	21.98	23.00
		1	7	21.91	21.88	21.92	23.00
		1	14	21.79	21.91	21.90	23.00
		8	0	21.92	21.90	21.87	23.00
		8	4	21.82	21.91	21.85	23.00
		8	7	21.88	21.92	21.81	23.00
		15	0	21.74	21.83	21.84	23.00
	16QAM	1	0	21.77	21.89	21.87	23.00
		1	7	21.92	21.89	21.78	23.00
		1	14	21.82	21.96	21.83	23.00
		8	0	21.86	21.77	21.82	23.00
		8	4	21.80	21.85	21.87	23.00
		8	7	21.75	21.96	21.79	23.00
		15	0	21.77	21.83	21.77	23.00
	64QAM	1	0	21.79	21.72	21.80	23.00
		1	7	21.68	21.68	21.73	23.00
		1	14	21.63	21.64	21.56	23.00
		8	0	20.55	20.49	20.45	22.00
		8	4	20.60	20.37	20.55	22.00
		8	7	20.51	20.50	20.57	22.00
		15	0	20.64	20.45	20.54	22.00
	256QAM	1	0	18.58	18.69	18.63	20.00
		1	7	18.66	18.69	18.74	20.00
		1	14	18.57	18.78	18.71	20.00
		8	0	18.63	18.69	18.68	20.00
		8	4	18.63	18.55	18.59	20.00
		8	7	18.59	18.63	18.76	20.00
		15	0	18.69	18.66	18.54	20.00
5MHz	QPSK	1	0	21.91	21.85	21.98	23.00
		1	13	21.92	21.99	21.92	23.00
		1	24	21.84	21.87	21.91	23.00
		12	0	21.91	21.97	21.84	23.00
		12	6	21.91	21.95	21.90	23.00
		12	13	21.93	21.94	21.88	23.00
		25	0	21.77	21.84	21.76	23.00
	16QAM	1	0	21.79	21.82	21.94	23.00
		1	13	21.97	21.87	21.75	23.00
		1	24	21.91	21.94	21.77	23.00
		12	0	21.82	21.84	21.88	23.00
		12	6	21.72	21.80	21.81	23.00
		12	13	21.83	21.88	21.77	23.00
		25	0	21.77	21.94	21.85	23.00
	64QAM	1	0	21.70	21.80	21.79	23.00
		1	13	21.71	21.75	21.80	23.00
		1	24	21.58	21.65	21.57	23.00
		12	0	20.54	20.54	20.44	22.00
		12	6	20.65	20.42	20.45	22.00
		12	13	20.57	20.44	20.62	22.00
		25	0	20.52	20.41	20.54	22.00
	256QAM	1	0	18.60	18.66	18.61	20.00
		1	13	18.67	18.78	18.74	20.00
		1	24	18.71	18.78	18.76	20.00
		12	0	18.48	18.73	18.68	20.00
		12	6	18.61	18.63	18.66	20.00
		12	13	18.66	18.61	18.64	20.00
		25	0	18.71	18.55	18.65	20.00
10MHz	QPSK	1	0	21.97	21.96	22.00	23.00
		1	25	22.00	22.06	21.95	23.00
		1	49	21.89	21.94	21.92	23.00
		25	0	21.96	21.98	21.88	23.00
		25	13	21.95	22.00	21.91	23.00
		25	25	21.96	21.97	21.93	23.00
		50	0	21.84	21.95	21.85	23.00
	16QAM	1	0	21.86	21.95	21.96	23.00
		1	25	21.99	21.98	21.86	23.00
		1	49	21.93	21.97	21.87	23.00
		25	0	21.91	21.89	21.90	23.00
		25	13	21.85	21.91	21.91	23.00

		25	25	21.88	21.98	21.83	23.00
		50	0	21.90	21.96	21.86	23.00
64QAM	64QAM	1	0	21.83	21.81	21.86	23.00
		1	25	21.77	21.77	21.82	23.00
		1	49	21.71	21.75	21.69	23.00
		25	0	20.60	20.56	20.55	22.00
		25	13	20.67	20.49	20.56	22.00
		25	25	20.59	20.54	20.67	22.00
		50	0	20.65	20.52	20.57	22.00
		1	0	18.65	18.67	18.66	20.00
256QAM	256QAM	1	25	18.66	18.68	18.65	20.00
		1	49	18.64	18.77	18.70	20.00
		25	0	18.54	18.63	18.60	20.00
		25	13	18.55	18.58	18.57	20.00
		25	25	18.63	18.67	18.66	20.00
		50	0	18.66	18.61	18.58	20.00

LTE Band 13				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				23205	23230	23255	
5MHz	QPSK	1	0	23.80	23.79	23.82	24.50
		1	13	23.86	23.87	23.85	24.50
		1	24	23.84	23.81	23.84	24.50
		12	0	22.65	22.70	22.71	23.50
		12	6	22.71	22.69	22.66	23.50
		12	13	22.67	22.74	22.72	23.50
	16QAM	25	0	22.64	22.72	22.71	23.50
		1	0	22.91	22.93	22.86	23.50
		1	13	22.90	22.96	22.93	23.50
		1	24	22.89	22.97	22.90	23.50
		12	0	21.70	21.78	21.72	23.00
		12	6	21.72	21.79	21.74	23.00
	64QAM	12	13	21.69	21.76	21.70	23.00
		25	0	21.68	21.75	21.69	23.00
		1	0	22.82	22.81	22.67	23.00
		1	13	22.59	22.70	22.71	23.00
		1	24	22.72	22.59	22.80	23.00
		12	0	21.74	21.59	21.62	22.00
10MHz	256QAM	12	6	21.67	21.59	21.65	22.00
		12	13	21.58	21.61	21.70	22.00
		25	0	21.66	21.61	21.65	22.00
		1	0	18.65	18.76	18.65	19.50
		1	13	18.98	18.89	18.98	19.50
		1	24	18.88	18.84	18.86	19.50
	16QAM	12	0	18.94	18.91	18.76	19.50
		12	6	18.79	18.88	18.82	19.50
		12	13	18.85	18.81	18.73	19.50
		25	0	18.85	18.87	18.74	19.50
		1	0	/	23230	/	Tune up
		1	25	/	23.81	/	
20MHz	QPSK	1	49	/	23.90	/	24.50
		25	0	/	22.66	/	23.50
		25	13	/	22.77	/	23.50
		25	25	/	22.63	/	23.50
		50	0	/	22.61	/	23.50
		1	0	/	22.87	/	23.50
	16QAM	1	25	/	22.91	/	23.50
		1	49	/	22.88	/	23.50
		25	0	/	21.73	/	23.00
		25	13	/	21.75	/	23.00
		25	25	/	21.74	/	23.00
		50	0	/	21.79	/	23.00
	64QAM	1	0	/	22.81	/	23.00
		1	25	/	22.69	/	23.00
		1	49	/	22.74	/	23.00
		25	0	/	21.66	/	22.00
		25	13	/	21.69	/	22.00
		25	25	/	21.71	/	22.00
	256QAM	50	0	/	21.63	/	22.00
		1	0	/	18.72	/	19.50
		1	25	/	18.95	/	19.50
		1	49	/	18.85	/	19.50
		25	0	/	18.84	/	19.50

		25	25	/	18.75	/	19.50
		50	0	/	18.77	/	19.50

LTE Band 14				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				23305	23330	23355	
5MHz	QPSK	1	0	23.47	23.38	23.45	24.00
		1	13	23.48	23.38	23.49	24.00
		1	24	23.38	23.30	23.42	24.00
		12	0	22.37	22.40	22.48	23.00
		12	6	22.44	22.49	22.42	23.00
		12	13	22.48	22.28	22.45	23.00
		25	0	22.41	22.49	22.43	23.00
	16QAM	1	0	22.68	22.73	22.70	23.00
		1	13	22.83	22.72	22.72	23.00
		1	24	22.68	22.84	22.75	23.00
		12	0	21.56	21.43	21.57	23.00
		12	6	21.49	21.51	21.52	23.00
		12	13	21.56	21.36	21.53	23.00
		25	0	21.50	21.33	21.50	23.00
	64QAM	1	0	22.36	22.32	22.33	23.00
		1	13	22.45	22.35	22.29	23.00
		1	24	22.25	22.19	22.26	23.00
		12	0	21.13	21.18	21.31	22.00
		12	6	21.12	21.16	21.18	22.00
		12	13	21.27	21.37	21.26	22.00
		25	0	21.13	21.15	21.02	22.00
	256QAM	1	0	18.13	18.11	18.14	19.00
		1	13	18.29	18.27	18.36	19.00
		1	24	18.26	18.26	18.33	19.00
		12	0	18.08	18.16	18.10	19.00
		12	6	18.11	18.18	18.16	19.00
		12	13	18.04	18.15	18.10	19.00
		25	0	18.05	18.01	18.08	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	23330	/	
10MHz	QPSK	1	0	/	23.51	/	24.00
		1	25	/	23.53	/	24.00
		1	49	/	23.42	/	24.00
		25	0	/	22.42	/	23.00
		25	13	/	22.45	/	23.00
		25	25	/	22.41	/	23.00
		50	0	/	22.44	/	23.00
	16QAM	1	0	/	22.83	/	23.00
		1	25	/	22.85	/	23.00
		1	49	/	22.79	/	23.00
		25	0	/	21.49	/	23.00
		25	13	/	21.49	/	23.00
		25	25	/	21.48	/	23.00
		50	0	/	21.47	/	23.00
	64QAM	1	0	/	22.30	/	23.00
		1	25	/	22.38	/	23.00
		1	49	/	22.33	/	23.00
		25	0	/	21.24	/	22.00
		25	13	/	21.27	/	22.00
		25	25	/	21.31	/	22.00
		50	0	/	21.16	/	22.00
	256QAM	1	0	/	18.08	/	19.00
		1	25	/	18.31	/	19.00
		1	49	/	18.24	/	19.00
		25	0	/	18.13	/	19.00
		25	13	/	18.14	/	19.00
		25	25	/	18.11	/	19.00
		50	0	/	18.09	/	19.00

LTE Band 71				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				133147	133297	133447	
5MHz	QPSK	1	0	23.54	23.58	23.42	25.00
		1	13	23.66	23.72	23.59	25.00
		1	24	23.63	23.52	23.77	25.00
		12	0	22.62	22.46	22.68	24.00
		12	6	22.51	22.70	22.64	24.00
		12	13	22.58	22.59	22.70	24.00
		25	0	22.64	22.63	22.62	24.00
	16QAM	1	0	22.66	22.76	22.92	24.00

		1	13	22.70	22.84	22.90	24.00
		1	24	22.70	22.80	22.80	24.00
		12	0	21.57	21.54	21.67	23.00
		12	6	21.62	21.79	21.56	23.00
		12	13	21.65	21.59	21.66	23.00
		25	0	22.79	21.59	21.66	23.00
	64QAM	1	0	22.57	22.64	22.60	23.00
		1	13	22.62	22.66	22.68	23.00
		1	24	22.69	22.74	22.65	23.00
		12	0	21.56	21.48	21.67	22.00
		12	6	21.70	21.58	21.63	22.00
		12	13	21.65	21.74	21.65	22.00
		25	0	21.55	21.55	21.60	22.00
		1	0	18.34	18.34	18.19	20.00
	256QAM	1	13	18.50	18.55	18.40	20.00
		1	24	18.54	18.49	18.54	20.00
		12	0	18.47	18.51	18.35	20.00
		12	6	18.61	18.60	18.57	20.00
		12	13	18.55	18.54	18.57	20.00
		25	0	18.47	18.53	18.54	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 133172	Channel 133297	Channel 133422	Tune up
10MHz	QPSK	1	0	23.52	23.52	23.55	25.00
		1	25	23.72	23.59	23.68	25.00
		1	49	23.60	23.57	23.67	25.00
		25	0	22.54	22.47	22.64	24.00
		25	13	22.66	22.55	22.58	24.00
		25	25	22.49	22.59	22.59	24.00
		50	0	22.71	22.51	22.72	24.00
		1	0	22.79	22.71	22.87	24.00
	16QAM	1	25	22.63	22.78	22.94	24.00
		1	49	22.68	22.90	23.01	24.00
		25	0	21.67	21.72	21.76	23.00
		25	13	21.66	21.58	21.76	23.00
		25	25	21.59	21.62	21.77	23.00
		50	0	22.74	21.75	21.76	23.00
		1	0	22.68	22.78	22.78	23.00
		1	25	22.60	22.76	22.87	23.00
	64QAM	1	49	22.62	22.86	22.77	23.00
		25	0	21.74	21.69	21.51	22.00
		25	13	21.56	21.61	21.60	22.00
		25	25	21.58	21.74	21.60	22.00
		50	0	21.63	21.66	21.72	22.00
		1	0	18.20	18.43	18.34	20.00
		1	25	18.52	18.47	18.46	20.00
		1	49	18.46	18.62	18.58	20.00
	256QAM	25	0	18.42	18.35	18.48	20.00
		25	13	18.48	18.45	18.53	20.00
		25	25	18.44	18.53	18.52	20.00
		50	0	18.50	18.43	18.53	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 133197	Channel 133297	Channel 133397	Tune up
15MHz	QPSK	1	0	23.42	23.74	23.63	25.00
		1	38	23.73	23.60	23.64	25.00
		1	74	23.74	23.67	23.71	25.00
		36	0	22.53	22.64	22.65	24.00
		36	18	22.56	22.72	22.58	24.00
		36	39	22.55	22.71	22.53	24.00
		75	0	22.66	22.70	22.82	24.00
		1	0	22.82	22.83	22.82	24.00
	16QAM	1	38	22.77	22.73	23.01	24.00
		1	74	22.77	22.72	22.92	24.00
		36	0	21.50	21.62	21.67	23.00
		36	18	21.66	21.80	21.77	23.00
		36	39	21.74	21.68	21.75	23.00
		75	0	22.82	21.81	21.74	23.00
		1	0	22.72	22.58	22.69	23.00
		1	38	22.68	22.82	22.85	23.00
	64QAM	1	74	22.71	22.87	22.59	23.00
		36	0	21.73	21.48	21.69	22.00
		36	18	21.57	21.62	21.52	22.00
		36	39	21.59	21.71	21.58	22.00
		75	0	21.71	21.55	21.61	22.00
		1	0	18.31	18.36	18.19	20.00
		1	38	18.45	18.48	18.48	20.00
		1	74	18.62	18.54	18.47	20.00
	256QAM	36	0	18.49	18.43	18.33	20.00

		36	18	18.45	18.54	18.50	20.00
		36	39	18.55	18.61	18.46	20.00
		75	0	18.41	18.47	18.37	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	
				133222	133322	133372	Tune up
20MHz	QPSK	1	0	23.56	23.66	23.57	25.00
		1	50	23.88	23.89	23.68	25.00
		1	99	23.66	23.64	23.69	25.00
		50	0	22.55	22.58	22.66	24.00
		50	25	22.61	22.70	22.69	24.00
		50	50	22.59	22.64	22.68	24.00
		100	0	22.70	22.76	22.75	24.00
	16QAM	1	0	22.80	22.79	22.92	24.00
		1	50	22.77	22.82	22.98	24.00
		1	99	22.83	22.85	22.93	24.00
		50	0	21.64	21.66	21.68	23.00
		50	25	21.68	21.72	21.71	23.00
		50	50	21.71	21.69	21.74	23.00
		100	0	22.74	21.73	21.76	23.00
	64QAM	1	0	22.69	22.72	22.74	23.00
		1	50	22.72	22.74	22.79	23.00
		1	99	22.76	22.79	22.72	23.00
		50	0	21.67	21.63	21.61	22.00
		50	25	21.64	21.73	21.67	22.00
		50	50	21.70	21.77	21.69	22.00
		100	0	21.68	21.67	21.70	22.00
	256QAM	1	0	18.28	18.33	18.27	20.00
		1	50	18.45	18.48	18.46	20.00
		1	99	18.54	18.56	18.53	20.00
		50	0	18.40	18.42	18.39	20.00
		50	25	18.51	18.52	18.48	20.00
		50	50	18.47	18.53	18.50	20.00
		100	0	18.46	18.50	18.44	20.00

5G NR Ant0:

N2				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				372000	376000	380000	
20MHz	DFT-s-OFDM PI/2 BPSK	1	1	19.15	19.18	19.06	20.00
		1	53	19.11	19.13	19.07	20.00
		1	104	19.14	19.05	19.09	20.00
		50	0	19.08	19.01	18.86	20.00
		50	28	18.90	18.99	18.89	20.00
		50	56	18.96	19.03	18.90	20.00
		100	0	19.05	19.05	19.00	20.00
	DFT-s-OFDM QPSK	1	1	19.17	19.29	19.17	20.00
		1	53	19.14	19.18	19.11	20.00
		1	104	19.01	19.13	19.17	20.00
		50	0	19.05	19.25	19.13	20.00
		50	28	19.03	19.24	19.14	20.00
		50	56	19.12	19.21	19.09	20.00
		100	0	18.98	19.22	19.16	20.00
	DFT-s-OFDM 16QAM	1	1	18.96	19.12	19.10	20.00
	DFT-s-OFDM 64QAM	1	1	19.11	19.21	19.13	20.00
	DFT-s-OFDM 256QAM	1	1	19.13	19.11	19.09	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	CP-OFDM QPSK	1	1	18.85	18.91	18.83	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	19.12	19.08	19.17	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	19.03	19.10	19.14	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
5MHz	DFT-s-OFDM QPSK	1	1	19.11	19.09	19.18	20.00

N5				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	SCS 15kHz				Tune up
				Channel 166800	Channel 167300	Channel 167800		
20MHz	DFT-s-OFDM PI/2 BPSK	1	1	23.21	23.23	23.12	25.00	
		1	53	23.66	23.63	23.59	25.00	
		1	104	23.65	23.65	23.71	25.00	
		50	0	23.12	23.05	23.02	24.00	
		50	28	23.58	23.49	23.49	25.00	
		50	56	23.11	23.07	23.16	24.00	
	DFT-s-OFDM QPSK	100	0	23.09	23.15	22.99	24.00	
		1	1	23.60	23.66	23.63	25.00	
		1	53	23.64	23.65	23.64	25.00	
		1	104	23.57	23.58	23.55	25.00	
		50	0	22.68	22.60	22.75	24.00	
		50	28	23.66	23.75	23.72	25.00	
	DFT-s-OFDM 16QAM	50	56	22.69	22.74	22.72	24.00	
		100	0	22.65	22.59	22.61	24.00	
		1	1	22.57	22.57	22.57	24.00	
	DFT-s-OFDM 64QAM	1	1	21.31	21.22	21.38	23.00	
	DFT-s-OFDM 256QAM	1	1	19.15	19.21	19.25	21.00	
Bandwidth	Modulation	RB size	RB offset	Channel 166800	Channel 167300	Channel 167800	Tune up	
20MHz	CP-OFDM QPSK	1	1	22.11	22.18	22.14	23.50	
Bandwidth	Modulation	RB size	RB offset	Channel 166300	Channel 167300	Channel 168300	Tune up	
15MHz	DFT-s-OFDM QPSK	1	1	23.64	23.52	23.59	25.00	
Bandwidth	Modulation	RB size	RB offset	Channel 165800	Channel 167300	Channel 168800	Tune up	
10MHz	DFT-s-OFDM QPSK	1	1	23.57	23.45	23.54	25.00	
Bandwidth	Modulation	RB size	RB offset	Channel 165300	Channel 167300	Channel 169300	Tune up	
5MHz	DFT-s-OFDM QPSK	1	1	23.60	23.47	23.56	25.00	

N41 Class2/3				Conducted Power(dBm)					
				SCS 30kHz					
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				509202	513900	518598	523302	528000	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	14.20	14.05	14.08	14.05	14.16	15.00
		1	137	14.20	14.28	14.25	14.17	14.15	15.00
		1	271	14.22	14.34	14.22	14.22	14.24	15.00
		135	0	14.21	14.20	14.15	14.16	14.19	15.00
		135	69	14.17	14.24	14.18	14.21	14.22	15.00
		135	138	14.18	14.20	14.17	14.20	14.15	15.00
	DFT-s-OFDM QPSK	270	0	14.10	14.20	14.12	14.09	14.23	15.00
		1	1	14.20	14.19	14.24	14.22	14.18	15.00
		1	137	14.14	14.16	14.20	14.21	14.17	15.00
		1	271	14.18	14.11	14.17	14.14	14.01	15.00
		135	0	14.15	14.09	14.16	14.18	14.16	15.00
		135	69	14.25	14.24	14.28	14.19	14.18	15.00
	DFT-s-OFDM 16QAM	135	138	14.20	14.21	14.17	13.94	13.71	15.00
		270	0	14.17	14.16	14.13	14.03	13.96	15.00
		1	1	14.13	14.04	14.02	14.01	14.00	15.00
	DFT-s-OFDM 64QAM	1	1	14.27	14.25	14.25	14.21	14.15	15.00
	DFT-s-OFDM 256QAM	1	1	14.21	14.17	14.11	14.15	14.16	15.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
100MHz	CP-OFDM QPSK	1	1	13.96	14.07	14.02	14.11	13.98	15.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	14.25	14.30	14.19	14.21	14.13	15.00

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				507204	512904	518598	524298	529998	
80MHz	DFT-s-OFDM QPSK	1	1	14.16	14.11	14.17	14.22	14.19	15.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				505200	511902	518598	525300	531996	
60MHz	DFT-s-OFDM QPSK	1	1	14.28	14.09	14.17	14.28	14.20	15.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				504204	511404	518598	525798	532998	
50MHz	DFT-s-OFDM QPSK	1	1	14.32	14.25	14.23	14.19	14.11	15.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				503202	510900	518598	526302	534000	
40MHz	DFT-s-OFDM QPSK	1	1	14.19	14.11	14.26	14.15	14.23	15.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				502200	510402	518598	526800	534996	
30MHz	DFT-s-OFDM QPSK	1	1	14.13	14.21	14.27	14.09	14.16	15.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				501204	509904	518598	527298	535998	
20MHz	DFT-s-OFDM QPSK	1	1	14.22	14.28	14.23	14.13	14.24	15.00

N66				Conducted Power(dBm)				
SCS 15kHz								
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				346000	349000	352000		
40MHz	DFT-s-OFDM PI/2 BPSK	1	1	18.53	18.53	18.65	19.50	
		1	108	18.50	18.54	18.66	19.50	
		1	214	18.48	18.25	18.56	19.50	
		108	0	18.68	18.48	18.62	19.50	
		108	54	18.53	18.53	18.68	19.50	
		108	108	18.65	18.54	18.61	19.50	
		216	0	18.61	18.51	18.50	19.50	
	DFT-s-OFDM QPSK	1	1	18.56	18.66	18.54	19.50	
		1	108	18.54	18.49	18.48	19.50	
		1	214	18.51	18.55	18.53	19.50	
		108	0	18.47	18.51	18.46	19.50	
		108	54	18.49	18.55	18.52	19.50	
		108	108	18.51	18.53	18.50	19.50	
		216	0	18.52	18.50	18.46	19.50	
	DFT-s-OFDM 16QAM	1	1	18.41	18.45	18.48	19.50	
	DFT-s-OFDM 64QAM	1	1	18.44	18.55	18.42	19.50	
	DFT-s-OFDM 256QAM	1	1	18.48	18.53	18.50	19.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
40MHz	CP-OFDM QPSK	1	1	18.49	18.54	18.43	19.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
30MHz	DFT-s-OFDM QPSK	1	1	18.51	18.53	18.49	19.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
20MHz	DFT-s-OFDM QPSK	1	1	18.45	18.49	18.51	19.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
15MHz	DFT-s-OFDM QPSK	1	1	18.53	18.55	18.46	19.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
10MHz	DFT-s-OFDM QPSK	1	1	18.52	18.47	18.49	19.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
5MHz	DFT-s-OFDM QPSK	1	1	18.53	18.51	18.43	19.50	

N77 Class2/3				Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		
				/	633334	/			
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	17.16	/	18.00		
		1	137	/	17.17	/	18.00		
		1	271	/	17.53	/	18.00		
		135	0	/	17.16	/	18.00		
		135	69	/	17.14	/	18.00		
		135	138	/	17.21	/	18.00		
		270	0	/	17.16	/	18.00		
	DFT-s-OFDM QPSK	1	1	/	17.28	/	18.00		
		1	137	/	17.27	/	18.00		
		1	271	/	17.60	/	18.00		
		135	0	/	17.16	/	18.00		
		135	69	/	17.18	/	18.00		
		135	138	/	17.15	/	18.00		
		270	0	/	17.14	/	18.00		
	DFT-s-OFDM 16QAM	1	1	/	17.15	/	18.00		
	DFT-s-OFDM 64QAM	1	1	/	17.29	/	18.00		
	DFT-s-OFDM 256QAM	1	1	/	17.20	/	18.00		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		
100MHz	CP-OFDM QPSK	1	1	/	16.94	/	18.00		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		
90MHz	DFT-s-OFDM QPSK	1	1	17.45	17.51	17.49	18.00		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		
80MHz	DFT-s-OFDM QPSK	1	1	17.50	17.42	17.38	18.00		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		
60MHz	DFT-s-OFDM QPSK	1	1	17.51	17.55	17.43	18.00		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		
50MHz	DFT-s-OFDM QPSK	1	1	17.48	17.44	17.46	18.00		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		
40MHz	DFT-s-OFDM QPSK	1	1	17.42	17.50	17.48	18.00		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		
20MHz	DFT-s-OFDM QPSK	1	1	17.39	17.45	17.51	18.00		

N77 Class2/3				Conducted Power(dBm)						
Bandwidth	Modulation	RB size	RB offset	SCS 30kHz(3450~3550)						
				650000	652400	654800	657200	659600	662000	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	17.12	17.08	17.07	17.08	17.22	17.18	18.00
		1	137	17.25	17.17	17.16	17.23	17.18	17.28	18.00
		1	271	17.45	17.49	17.47	17.43	17.46	17.49	18.00
		135	0	17.06	17.11	17.06	17.11	17.13	17.17	18.00
		135	69	17.10	17.12	17.05	17.15	17.19	17.21	18.00
		135	138	17.11	17.07	17.12	17.09	17.09	17.12	18.00
		270	0	17.07	17.12	17.19	17.11	17.17	17.13	18.00
	DFT-s-OFDM QPSK	1	1	17.08	17.09	17.16	17.10	17.13	17.22	18.00
		1	137	17.21	17.16	17.24	17.25	17.26	17.27	18.00
		1	271	17.46	17.52	17.56	17.48	17.52	17.39	18.00
		135	0	17.10	17.13	17.15	17.13	17.15	17.19	18.00
		135	69	17.18	17.17	17.23	17.16	17.19	17.20	18.00
		135	138	17.12	17.11	17.14	17.14	17.17	17.11	18.00
		270	0	17.05	17.14	17.17	17.13	17.18	17.11	18.00
	DFT-s-OFDM 16QAM	1	1	17.26	17.24	17.05	17.27	17.32	17.35	18.00
	DFT-s-OFDM 64QAM	1	1	17.25	17.19	17.16	17.21	17.28	17.26	18.00
	DFT-s-OFDM 256QAM	1	1	17.11	17.05	17.09	17.12	17.14	17.08	18.00

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				650000	652400	654800	657200	659600	662000	
100MHz	CP-OFDM QPSK	1	1	17.01	16.94	17.08	16.99	16.92	16.97	18.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				649668	652200	654734	657268	659800	662332	
90MHz	DFT-s-OFDM QPSK	1	1	17.32	17.41	17.47	17.40	17.46	17.39	18.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				649334	652000	654668	657334	660000	662666	
80MHz	DFT-s-OFDM QPSK	1	1	17.29	17.38	17.46	17.33	17.41	17.47	18.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				648668	651600	654534	657468	660400	663332	
60MHz	DFT-s-OFDM QPSK	1	1	17.35	17.39	17.45	17.44	17.37	17.33	18.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				648334	651400	654468	657534	660600	663666	
50MHz	DFT-s-OFDM QPSK	1	1	17.29	17.38	17.41	17.46	17.35	17.48	18.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				648000	651200	654400	657600	660800	664000	
40MHz	DFT-s-OFDM QPSK	1	1	17.38	17.42	17.37	17.46	17.33	17.41	18.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Channel	Tune up
				647334	650800	654268	657734	661200	664666	
20MHz	DFT-s-OFDM QPSK	1	1	17.42	17.38	17.42	17.46	17.45	17.34	18.00

5G NR Ant3:

N5				Conducted Power(dBm)				
SCS 15kHz								
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Tune up
				166800	167300	167800		
20MHz	DFT-s-OFDM PI/2 BPSK	1	1	23.03	23.06	23.00	24.00	
		1	53	23.00	23.03	23.03	24.00	
		1	104	22.96	23.07	22.99	24.00	
		50	0	23.12	23.10	23.12	24.00	
		50	28	23.14	23.12	23.10	24.00	
		50	56	23.15	23.07	23.11	24.00	
	DFT-s-OFDM QPSK	100	0	23.03	23.13	22.96	24.00	
		1	1	23.07	23.15	23.12	24.00	
		1	53	23.12	23.05	23.10	24.00	
		1	104	22.96	22.98	22.91	24.00	
		50	0	23.03	23.10	23.05	24.00	
		50	28	23.11	23.12	23.07	24.00	
	DFT-s-OFDM 16QAM	50	56	23.05	23.07	23.02	24.00	
		100	0	23.03	23.05	22.99	24.00	
		1	1	23.12	23.14	23.09	24.00	
	DFT-s-OFDM 64QAM	1	1	21.77	21.73	21.66	22.50	
	DFT-s-OFDM 256QAM	1	1	19.44	19.53	19.42	20.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
20MHz	CP-OFDM QPSK	1	1	22.17	22.21	22.19	23.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
15MHz	DFT-s-OFDM QPSK	1	1	22.99	23.06	23.10	24.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
10MHz	DFT-s-OFDM QPSK	1	1	23.07	23.05	23.03	24.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
5MHz	DFT-s-OFDM QPSK	1	1	23.03	23.02	23.08	24.00	

N77 MIMO Class 1.5/2/3					Conducted Power(dBm)							
Bandwidth	Modulation	RB size	RB offset	SCS 30kHz(3700~3980)								
				Channel 650000	Channel 652400	Channel 654800	Channel 657200	Channel 659600	Channel 662000	Tune up		
100MHz	CP-OFDM QPSK	1	1	16.41	16.53	17.13	16.71	16.99	16.93	18.00		
		1	137	16.57	16.50	16.65	16.68	17.02	17.04	18.00		
		1	271	16.74	16.71	17.16	16.74	17.08	17.10	18.00		
		135	0	16.79	16.96	17.18	16.58	16.87	16.58	18.00		
		135	69	16.85	17.01	17.19	16.65	17.03	16.64	18.00		
		135	138	16.81	16.94	17.10	16.60	16.85	16.61	18.00		
		270	0	16.95	16.93	17.16	16.55	16.77	16.52	18.00		
	CP-OFDM 16QAM	1	1	16.88	16.90	17.06	16.73	16.80	16.89	18.00		
	CP-OFDM 64QAM	1	1	16.92	16.86	16.99	16.71	16.74	16.94	18.00		
	CP-OFDM 256QAM	1	1	16.83	16.97	17.11	16.65	16.89	17.05	18.00		
Bandwidth	Modulation	RB size	RB offset	Channel 649668	Channel 652200	Channel 654734	Channel 657268	Channel 659800	Channel 662332	Tune up		
90MHz	CP-OFDM QPSK	1	1	16.55	16.43	17.02	16.70	16.94	16.88	18.00		
Bandwidth	Modulation	RB size	RB offset	Channel 649334	Channel 652000	Channel 654668	Channel 657334	Channel 660000	Channel 662666	Tune up		
80MHz	CP-OFDM QPSK	1	1	16.71	16.62	16.89	16.62	16.88	17.01	18.00		
Bandwidth	Modulation	RB size	RB offset	Channel 648668	Channel 651600	Channel 654534	Channel 657468	Channel 660400	Channel 663332	Tune up		
60MHz	CP-OFDM QPSK	1	1	16.63	16.74	16.93	16.55	16.81	16.91	18.00		
Bandwidth	Modulation	RB size	RB offset	Channel 648334	Channel 651400	Channel 654468	Channel 657534	Channel 660600	Channel 663666	Tune up		
50MHz	CP-OFDM QPSK	1	1	16.55	16.47	16.85	16.70	16.74	16.86	18.00		
Bandwidth	Modulation	RB size	RB offset	Channel 648000	Channel 651200	Channel 654400	Channel 657600	Channel 660800	Channel 664000	Tune up		
40MHz	CP-OFDM QPSK	1	1	16.62	16.61	16.79	16.59	16.86	16.75	18.00		
Bandwidth	Modulation	RB size	RB offset	Channel 647334	Channel 650800	Channel 654268	Channel 657734	Channel 661200	Channel 664666	Tune up		
20MHz	CP-OFDM QPSK	1	1	16.73	16.70	16.96	16.68	16.71	16.82	18.00		