



Band38	15MHz	16QAM	38000	38RB#37	22.63	PASS
Band38	15MHz	16QAM	38000	38RB#18	22.68	PASS
Band38	15MHz	16QAM	38000	38RB#0	22.46	PASS
Band38	15MHz	16QAM	38000	75RB#0	21.74	PASS
Band38	15MHz	16QAM	38175	1RB#0	22.65	PASS
Band38	15MHz	16QAM	38175	1RB#38	22.64	PASS
Band38	15MHz	16QAM	38175	1RB#74	22.27	PASS
Band38	15MHz	16QAM	38175	38RB#37	22.75	PASS
Band38	15MHz	16QAM	38175	38RB#18	22.61	PASS
Band38	15MHz	16QAM	38175	38RB#0	22.31	PASS
Band38	15MHz	16QAM	38175	75RB#0	21.32	PASS
Band38	20MHz	QPSK	37850	1RB#0	23.59	PASS
Band38	20MHz	QPSK	37850	1RB#99	23.75	PASS
Band38	20MHz	QPSK	37850	1RB#49	23.86	PASS
Band38	20MHz	QPSK	37850	50RB#0	22.64	PASS
Band38	20MHz	QPSK	37850	50RB#50	22.63	PASS
Band38	20MHz	QPSK	37850	50RB#25	22.64	PASS
Band38	20MHz	QPSK	37850	100RB#0	22.65	PASS
Band38	20MHz	QPSK	38000	1RB#0	23.30	PASS
Band38	20MHz	QPSK	38000	1RB#99	23.34	PASS
Band38	20MHz	QPSK	38000	1RB#49	23.78	PASS
Band38	20MHz	QPSK	38000	50RB#25	22.67	PASS
Band38	20MHz	QPSK	38000	50RB#50	22.60	PASS
Band38	20MHz	QPSK	38000	50RB#0	22.58	PASS
Band38	20MHz	QPSK	38000	100RB#0	22.60	PASS
Band38	20MHz	QPSK	38150	1RB#0	23.52	PASS
Band38	20MHz	QPSK	38150	1RB#49	23.25	PASS
Band38	20MHz	QPSK	38150	1RB#99	23.32	PASS
Band38	20MHz	QPSK	38150	50RB#25	22.55	PASS
Band38	20MHz	QPSK	38150	50RB#50	22.37	PASS
Band38	20MHz	QPSK	38150	50RB#0	22.55	PASS
Band38	20MHz	QPSK	38150	100RB#0	22.39	PASS
Band38	20MHz	16QAM	37850	1RB#99	23.21	PASS
Band38	20MHz	16QAM	37850	1RB#0	23.13	PASS
Band38	20MHz	16QAM	37850	1RB#49	23.11	PASS
Band38	20MHz	16QAM	37850	50RB#50	21.69	PASS
Band38	20MHz	16QAM	37850	50RB#0	21.71	PASS
Band38	20MHz	16QAM	37850	50RB#25	21.70	PASS
Band38	20MHz	16QAM	37850	100RB#0	21.69	PASS



Band38	20MHz	16QAM	38000	1RB#99	22.17	PASS
Band38	20MHz	16QAM	38000	1RB#49	22.81	PASS
Band38	20MHz	16QAM	38000	1RB#0	22.10	PASS
Band38	20MHz	16QAM	38000	50RB#25	21.69	PASS
Band38	20MHz	16QAM	38000	50RB#50	21.60	PASS
Band38	20MHz	16QAM	38000	50RB#0	21.78	PASS
Band38	20MHz	16QAM	38000	100RB#0	21.60	PASS
Band38	20MHz	16QAM	38150	1RB#0	22.95	PASS
Band38	20MHz	16QAM	38150	1RB#99	22.67	PASS
Band38	20MHz	16QAM	38150	1RB#49	22.93	PASS
Band38	20MHz	16QAM	38150	50RB#50	21.46	PASS
Band38	20MHz	16QAM	38150	50RB#25	21.53	PASS
Band38	20MHz	16QAM	38150	50RB#0	21.53	PASS
Band38	20MHz	16QAM	38150	100RB#0	21.46	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band40	5MHz	QPSK	38725	1RB#12	23.66	PASS
Band40	5MHz	QPSK	38725	1RB#0	23.59	PASS
Band40	5MHz	QPSK	38725	1RB#24	23.72	PASS
Band40	5MHz	QPSK	38725	12RB#0	22.67	PASS
Band40	5MHz	QPSK	38725	12RB#6	22.68	PASS
Band40	5MHz	QPSK	38725	12RB#13	22.85	PASS
Band40	5MHz	QPSK	38725	25RB#0	22.99	PASS
Band40	5MHz	QPSK	38775	1RB#12	23.76	PASS
Band40	5MHz	QPSK	38775	1RB#24	23.80	PASS
Band40	5MHz	QPSK	38775	1RB#0	23.89	PASS
Band40	5MHz	QPSK	38775	12RB#13	22.88	PASS
Band40	5MHz	QPSK	38775	12RB#6	22.98	PASS
Band40	5MHz	QPSK	38775	12RB#0	22.88	PASS
Band40	5MHz	QPSK	38775	25RB#0	23.03	PASS
Band40	5MHz	16QAM	38725	1RB#0	22.28	PASS
Band40	5MHz	16QAM	38725	1RB#12	22.44	PASS
Band40	5MHz	16QAM	38725	1RB#24	22.32	PASS
Band40	5MHz	16QAM	38725	12RB#13	21.61	PASS
Band40	5MHz	16QAM	38725	12RB#0	21.59	PASS
Band40	5MHz	16QAM	38725	12RB#6	21.59	PASS
Band40	5MHz	16QAM	38725	25RB#0	21.77	PASS
Band40	5MHz	16QAM	38775	1RB#24	22.86	PASS
Band40	5MHz	16QAM	38775	1RB#0	22.53	PASS
Band40	5MHz	16QAM	38775	1RB#12	22.70	PASS
Band40	5MHz	16QAM	38775	12RB#0	21.60	PASS
Band40	5MHz	16QAM	38775	12RB#13	21.69	PASS
Band40	5MHz	16QAM	38775	12RB#6	21.69	PASS
Band40	5MHz	16QAM	38775	25RB#0	22.03	PASS
Band40	5MHz	QPSK	39175	1RB#0	23.05	PASS
Band40	5MHz	QPSK	39175	1RB#24	23.26	PASS
Band40	5MHz	QPSK	39175	1RB#12	23.30	PASS
Band40	5MHz	QPSK	39175	12RB#13	21.96	PASS
Band40	5MHz	QPSK	39175	12RB#6	21.96	PASS
Band40	5MHz	QPSK	39175	12RB#0	21.96	PASS
Band40	5MHz	QPSK	39175	25RB#0	21.97	PASS
Band40	5MHz	QPSK	39225	1RB#0	22.50	PASS



Band40	5MHz	QPSK	39225	1RB#24	23.55	PASS
Band40	5MHz	QPSK	39225	1RB#12	23.57	PASS
Band40	5MHz	QPSK	39225	12RB#13	23.47	PASS
Band40	5MHz	QPSK	39225	12RB#6	22.58	PASS
Band40	5MHz	QPSK	39225	12RB#0	22.54	PASS
Band40	5MHz	QPSK	39225	25RB#0	22.64	PASS
Band40	5MHz	16QAM	39175	1RB#0	22.58	PASS
Band40	5MHz	16QAM	39175	1RB#24	22.51	PASS
Band40	5MHz	16QAM	39175	1RB#12	21.99	PASS
Band40	5MHz	16QAM	39175	12RB#13	21.94	PASS
Band40	5MHz	16QAM	39175	12RB#6	21.91	PASS
Band40	5MHz	16QAM	39175	12RB#0	21.24	PASS
Band40	5MHz	16QAM	39175	25RB#0	21.31	PASS
Band40	5MHz	16QAM	39225	1RB#0	21.22	PASS
Band40	5MHz	16QAM	39225	1RB#24	22.09	PASS
Band40	5MHz	16QAM	39225	1RB#12	22.14	PASS
Band40	5MHz	16QAM	39225	12RB#13	21.39	PASS
Band40	5MHz	16QAM	39225	12RB#6	21.94	PASS
Band40	5MHz	16QAM	39225	12RB#0	22.41	PASS
Band40	5MHz	16QAM	39225	25RB#0	22.02	PASS
Band40	10MHz	QPSK	38750	1RB#49	24.08	PASS
Band40	10MHz	QPSK	38750	1RB#24	24.11	PASS
Band40	10MHz	QPSK	38750	1RB#0	23.88	PASS
Band40	10MHz	QPSK	38750	25RB#0	23.01	PASS
Band40	10MHz	QPSK	38750	25RB#12	23.02	PASS
Band40	10MHz	QPSK	38750	25RB#25	23.12	PASS
Band40	10MHz	QPSK	38750	50RB#0	23.11	PASS
Band40	10MHz	QPSK	39200	1RB#24	23.51	PASS
Band40	10MHz	QPSK	39200	1RB#0	23.52	PASS
Band40	10MHz	QPSK	39200	1RB#49	23.62	PASS
Band40	10MHz	QPSK	39200	25RB#12	22.43	PASS
Band40	10MHz	QPSK	39200	25RB#25	22.46	PASS
Band40	10MHz	QPSK	39200	25RB#0	22.35	PASS
Band40	10MHz	QPSK	39200	50RB#0	22.34	PASS
Band40	10MHz	16QAM	38750	1RB#24	23.45	PASS
Band40	10MHz	16QAM	38750	1RB#0	22.96	PASS
Band40	10MHz	16QAM	38750	1RB#49	23.27	PASS
Band40	10MHz	16QAM	38750	25RB#12	21.92	PASS
Band40	10MHz	16QAM	38750	25RB#25	21.94	PASS



Band40	10MHz	16QAM	38750	25RB#0	22.27	PASS
Band40	10MHz	16QAM	38750	50RB#0	22.03	PASS
Band40	10MHz	16QAM	39200	1RB#0	22.34	PASS
Band40	10MHz	16QAM	39200	1RB#24	22.29	PASS
Band40	10MHz	16QAM	39200	1RB#49	22.25	PASS
Band40	10MHz	16QAM	39200	25RB#25	21.44	PASS
Band40	10MHz	16QAM	39200	25RB#0	21.49	PASS
Band40	10MHz	16QAM	39200	25RB#12	21.49	PASS
Band40	10MHz	16QAM	39200	50RB#0	21.42	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band41	5MHz	QPSK	40265	1RB#24	23.22	PASS
Band41	5MHz	QPSK	40265	1RB#0	23.09	PASS
Band41	5MHz	QPSK	40265	1RB#12	23.18	PASS
Band41	5MHz	QPSK	40265	12RB#6	22.12	PASS
Band41	5MHz	QPSK	40265	12RB#13	22.15	PASS
Band41	5MHz	QPSK	40265	12RB#0	22.12	PASS
Band41	5MHz	QPSK	40265	25RB#0	22.31	PASS
Band41	5MHz	QPSK	40740	1RB#24	23.23	PASS
Band41	5MHz	QPSK	40740	1RB#0	23.36	PASS
Band41	5MHz	QPSK	40740	1RB#12	23.38	PASS
Band41	5MHz	QPSK	40740	12RB#0	22.58	PASS
Band41	5MHz	QPSK	40740	12RB#13	22.40	PASS
Band41	5MHz	QPSK	40740	12RB#6	22.47	PASS
Band41	5MHz	QPSK	40740	25RB#0	22.57	PASS
Band41	5MHz	QPSK	41215	1RB#12	23.66	PASS
Band41	5MHz	QPSK	41215	1RB#24	23.58	PASS
Band41	5MHz	QPSK	41215	1RB#0	23.57	PASS
Band41	5MHz	QPSK	41215	12RB#13	22.39	PASS
Band41	5MHz	QPSK	41215	12RB#6	22.52	PASS
Band41	5MHz	QPSK	41215	12RB#0	22.51	PASS
Band41	5MHz	QPSK	41215	25RB#0	22.45	PASS
Band41	5MHz	16QAM	40265	1RB#12	22.21	PASS
Band41	5MHz	16QAM	40265	1RB#24	22.34	PASS
Band41	5MHz	16QAM	40265	1RB#0	22.21	PASS
Band41	5MHz	16QAM	40265	12RB#6	21.03	PASS
Band41	5MHz	16QAM	40265	12RB#13	21.06	PASS
Band41	5MHz	16QAM	40265	12RB#0	21.03	PASS
Band41	5MHz	16QAM	40265	25RB#0	21.11	PASS
Band41	5MHz	16QAM	40740	1RB#0	22.90	PASS
Band41	5MHz	16QAM	40740	1RB#12	22.84	PASS
Band41	5MHz	16QAM	40740	1RB#24	22.69	PASS
Band41	5MHz	16QAM	40740	12RB#6	21.36	PASS
Band41	5MHz	16QAM	40740	12RB#13	21.15	PASS
Band41	5MHz	16QAM	40740	12RB#0	21.36	PASS
Band41	5MHz	16QAM	40740	25RB#0	21.46	PASS
Band41	5MHz	16QAM	41215	1RB#24	21.87	PASS
Band41	5MHz	16QAM	41215	1RB#0	21.94	PASS



Band41	5MHz	16QAM	41215	1RB#12	21.99	PASS
Band41	5MHz	16QAM	41215	12RB#13	21.44	PASS
Band41	5MHz	16QAM	41215	12RB#6	21.35	PASS
Band41	5MHz	16QAM	41215	12RB#0	21.35	PASS
Band41	5MHz	16QAM	41215	25RB#0	21.53	PASS
Band41	10MHz	QPSK	40290	1RB#49	23.35	PASS
Band41	10MHz	QPSK	40290	1RB#24	23.19	PASS
Band41	10MHz	QPSK	40290	1RB#0	22.90	PASS
Band41	10MHz	QPSK	40290	25RB#25	22.25	PASS
Band41	10MHz	QPSK	40290	25RB#12	22.23	PASS
Band41	10MHz	QPSK	40290	25RB#0	22.22	PASS
Band41	10MHz	QPSK	40290	50RB#0	22.13	PASS
Band41	10MHz	QPSK	40740	1RB#24	23.72	PASS
Band41	10MHz	QPSK	40740	1RB#0	23.70	PASS
Band41	10MHz	QPSK	40740	1RB#49	23.33	PASS
Band41	10MHz	QPSK	40740	25RB#25	22.46	PASS
Band41	10MHz	QPSK	40740	25RB#12	22.55	PASS
Band41	10MHz	QPSK	40740	25RB#0	22.54	PASS
Band41	10MHz	QPSK	40740	50RB#0	22.46	PASS
Band41	10MHz	QPSK	41190	1RB#0	23.44	PASS
Band41	10MHz	QPSK	41190	1RB#49	23.34	PASS
Band41	10MHz	QPSK	41190	1RB#24	23.50	PASS
Band41	10MHz	QPSK	41190	25RB#25	22.40	PASS
Band41	10MHz	QPSK	41190	25RB#12	22.50	PASS
Band41	10MHz	QPSK	41190	25RB#0	22.60	PASS
Band41	10MHz	QPSK	41190	50RB#0	22.46	PASS
Band41	10MHz	16QAM	40290	1RB#49	22.51	PASS
Band41	10MHz	16QAM	40290	1RB#24	22.55	PASS
Band41	10MHz	16QAM	40290	1RB#0	22.19	PASS
Band41	10MHz	16QAM	40290	25RB#12	21.19	PASS
Band41	10MHz	16QAM	40290	25RB#25	21.43	PASS
Band41	10MHz	16QAM	40290	25RB#0	21.29	PASS
Band41	10MHz	16QAM	40290	50RB#0	21.21	PASS
Band41	10MHz	16QAM	40740	1RB#49	22.57	PASS
Band41	10MHz	16QAM	40740	1RB#24	23.01	PASS
Band41	10MHz	16QAM	40740	1RB#0	22.49	PASS
Band41	10MHz	16QAM	40740	25RB#12	21.43	PASS
Band41	10MHz	16QAM	40740	25RB#25	21.27	PASS
Band41	10MHz	16QAM	40740	25RB#0	21.42	PASS

Band41	10MHz	16QAM	40740	50RB#0	21.54	PASS
Band41	10MHz	16QAM	41190	1RB#0	22.36	PASS
Band41	10MHz	16QAM	41190	1RB#24	22.29	PASS
Band41	10MHz	16QAM	41190	1RB#49	22.23	PASS
Band41	10MHz	16QAM	41190	25RB#0	21.53	PASS
Band41	10MHz	16QAM	41190	25RB#12	21.52	PASS
Band41	10MHz	16QAM	41190	25RB#25	21.33	PASS
Band41	10MHz	16QAM	41190	50RB#0	21.69	PASS
Band41	15MHz	QPSK	40315	1RB#0	22.61	PASS
Band41	15MHz	QPSK	40315	1RB#38	23.02	PASS
Band41	15MHz	QPSK	40315	1RB#74	23.15	PASS
Band41	15MHz	QPSK	40315	38RB#37	22.27	PASS
Band41	15MHz	QPSK	40315	38RB#18	22.33	PASS
Band41	15MHz	QPSK	40315	38RB#0	22.11	PASS
Band41	15MHz	QPSK	40315	75RB#0	22.23	PASS
Band41	15MHz	QPSK	40740	1RB#0	23.71	PASS
Band41	15MHz	QPSK	40740	1RB#38	23.60	PASS
Band41	15MHz	QPSK	40740	1RB#74	23.32	PASS
Band41	15MHz	QPSK	40740	38RB#37	22.50	PASS
Band41	15MHz	QPSK	40740	38RB#0	22.95	PASS
Band41	15MHz	QPSK	40740	38RB#18	22.88	PASS
Band41	15MHz	QPSK	40740	75RB#0	22.51	PASS
Band41	15MHz	QPSK	41165	1RB#38	23.50	PASS
Band41	15MHz	QPSK	41165	1RB#74	23.31	PASS
Band41	15MHz	QPSK	41165	1RB#0	23.36	PASS
Band41	15MHz	QPSK	41165	38RB#0	22.39	PASS
Band41	15MHz	QPSK	41165	38RB#37	22.12	PASS
Band41	15MHz	QPSK	41165	38RB#18	22.25	PASS
Band41	15MHz	QPSK	41165	75RB#0	22.61	PASS
Band41	15MHz	16QAM	40315	1RB#0	22.01	PASS
Band41	15MHz	16QAM	40315	1RB#74	22.45	PASS
Band41	15MHz	16QAM	40315	1RB#38	22.23	PASS
Band41	15MHz	16QAM	40315	38RB#0	22.11	PASS
Band41	15MHz	16QAM	40315	38RB#37	22.27	PASS
Band41	15MHz	16QAM	40315	38RB#18	22.23	PASS
Band41	15MHz	16QAM	40315	75RB#0	21.31	PASS
Band41	15MHz	16QAM	40740	1RB#38	22.81	PASS
Band41	15MHz	16QAM	40740	1RB#0	22.78	PASS
Band41	15MHz	16QAM	40740	1RB#74	22.50	PASS



Band41	15MHz	16QAM	40740	38RB#0	22.96	PASS
Band41	15MHz	16QAM	40740	38RB#18	22.88	PASS
Band41	15MHz	16QAM	40740	38RB#37	22.56	PASS
Band41	15MHz	16QAM	40740	75RB#0	21.49	PASS
Band41	15MHz	16QAM	41165	1RB#38	22.26	PASS
Band41	15MHz	16QAM	41165	1RB#74	22.30	PASS
Band41	15MHz	16QAM	41165	1RB#0	22.41	PASS
Band41	15MHz	16QAM	41165	38RB#37	22.12	PASS
Band41	15MHz	16QAM	41165	38RB#18	22.25	PASS
Band41	15MHz	16QAM	41165	38RB#0	22.39	PASS
Band41	15MHz	16QAM	41165	75RB#0	21.56	PASS
Band41	20MHz	QPSK	40340	1RB#49	23.54	PASS
Band41	20MHz	QPSK	40340	1RB#0	22.95	PASS
Band41	20MHz	QPSK	40340	1RB#99	23.60	PASS
Band41	20MHz	QPSK	40340	50RB#0	22.25	PASS
Band41	20MHz	QPSK	40340	50RB#25	22.18	PASS
Band41	20MHz	QPSK	40340	50RB#50	22.46	PASS
Band41	20MHz	QPSK	40340	100RB#0	22.24	PASS
Band41	20MHz	QPSK	40740	1RB#49	23.62	PASS
Band41	20MHz	QPSK	40740	1RB#99	22.89	PASS
Band41	20MHz	QPSK	40740	1RB#0	23.33	PASS
Band41	20MHz	QPSK	40740	50RB#50	22.32	PASS
Band41	20MHz	QPSK	40740	50RB#0	22.61	PASS
Band41	20MHz	QPSK	40740	50RB#25	22.62	PASS
Band41	20MHz	QPSK	40740	100RB#0	22.49	PASS
Band41	20MHz	QPSK	41140	1RB#99	23.48	PASS
Band41	20MHz	QPSK	41140	1RB#49	23.72	PASS
Band41	20MHz	QPSK	41140	1RB#0	23.45	PASS
Band41	20MHz	QPSK	41140	50RB#50	22.59	PASS
Band41	20MHz	QPSK	41140	50RB#0	22.50	PASS
Band41	20MHz	QPSK	41140	50RB#25	22.50	PASS
Band41	20MHz	QPSK	41140	100RB#0	22.57	PASS
Band41	20MHz	16QAM	40340	1RB#49	22.98	PASS
Band41	20MHz	16QAM	40340	1RB#99	22.97	PASS
Band41	20MHz	16QAM	40340	1RB#0	22.58	PASS
Band41	20MHz	16QAM	40340	50RB#0	21.24	PASS
Band41	20MHz	16QAM	40340	50RB#25	21.25	PASS
Band41	20MHz	16QAM	40340	50RB#50	21.53	PASS
Band41	20MHz	16QAM	40340	100RB#0	21.30	PASS



Band41	20MHz	16QAM	40740	1RB#99	21.64	PASS
Band41	20MHz	16QAM	40740	1RB#49	22.36	PASS
Band41	20MHz	16QAM	40740	1RB#0	22.14	PASS
Band41	20MHz	16QAM	40740	50RB#25	21.65	PASS
Band41	20MHz	16QAM	40740	50RB#50	21.29	PASS
Band41	20MHz	16QAM	40740	50RB#0	21.65	PASS
Band41	20MHz	16QAM	40740	100RB#0	21.50	PASS
Band41	20MHz	16QAM	41140	1RB#99	22.75	PASS
Band41	20MHz	16QAM	41140	1RB#0	22.65	PASS
Band41	20MHz	16QAM	41140	1RB#49	23.07	PASS
Band41	20MHz	16QAM	41140	50RB#50	21.66	PASS
Band41	20MHz	16QAM	41140	50RB#0	21.67	PASS
Band41	20MHz	16QAM	41140	50RB#25	21.57	PASS
Band41	20MHz	16QAM	41140	100RB#0	21.64	PASS

Duty Cycle:

Band 40 (2305-2315MHz)

Test Modulation	Test Bandwidth	Ton (ms)	Total (ms)	Duty Cycle (%)	Limit (%)
QPSK	5M	1.848	5.073	36.43	38
	10M	1.849	5.117	36.13	38
16QAM	5M	1.891	5.117	36.96	38
	10M	1.867	5.059	36.90	38

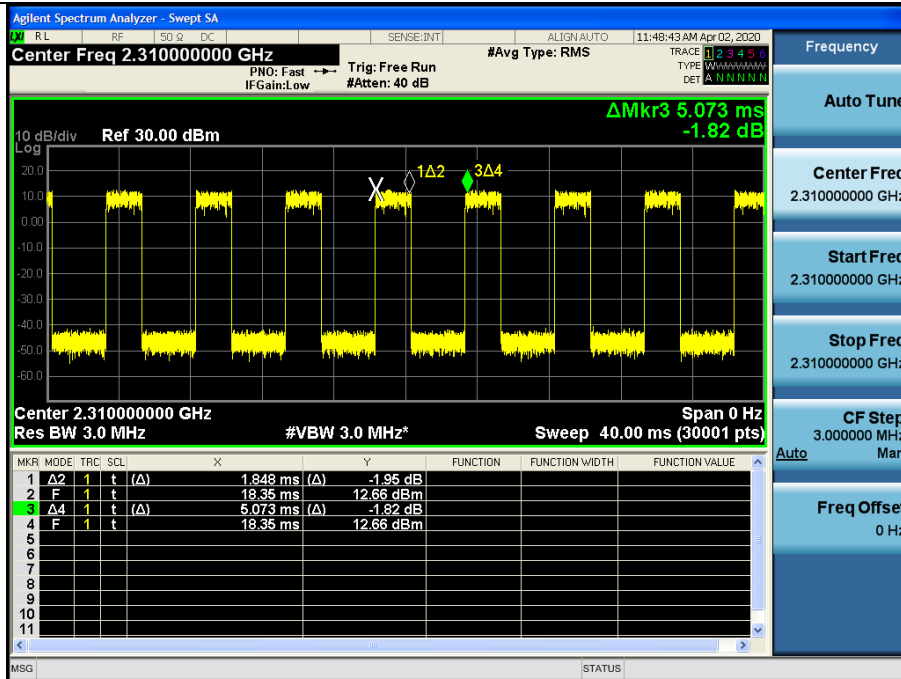
Band 40 (2350-2360MHz)

Test Modulation	Test Bandwidth	Ton (ms)	Total (ms)	Duty Cycle (%)	Limit (%)
QPSK	5M	1.863	5.041	36.96	38
	10M	1.872	5.133	36.47	38
16QAM	5M	1.848	5.093	36.29	38
	10M	1.888	5.129	36.81	38

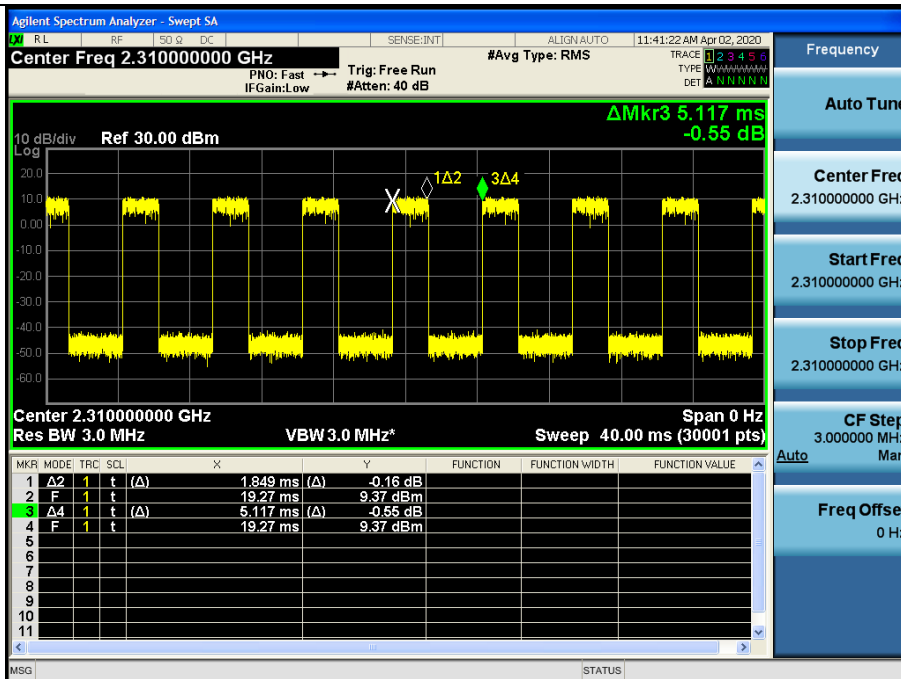


Duty Cycle: (2305-2315MHz)

QPSK 5M

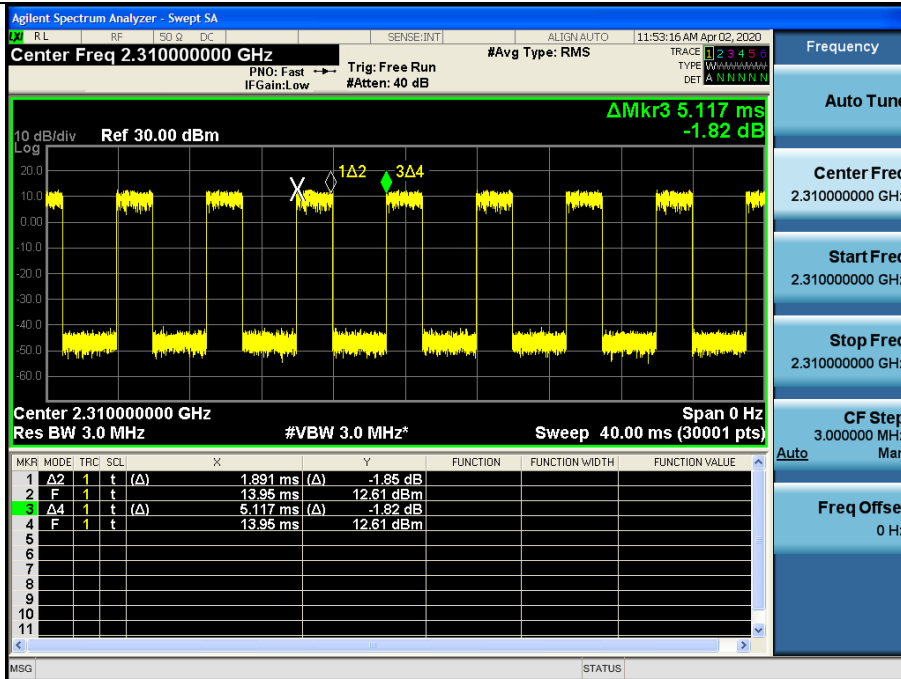


QPSK 10M

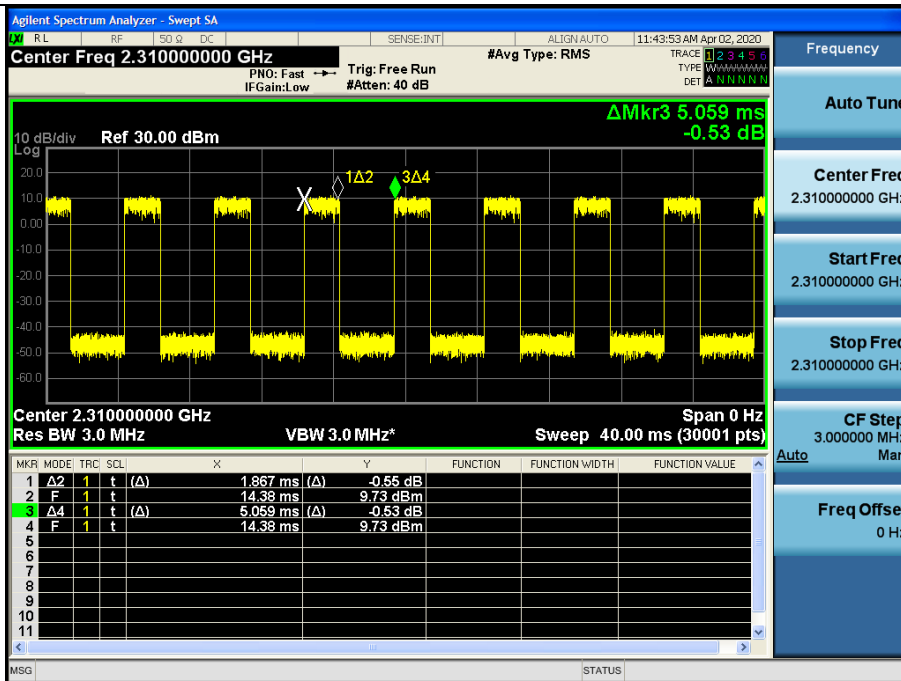




16QAM 5M

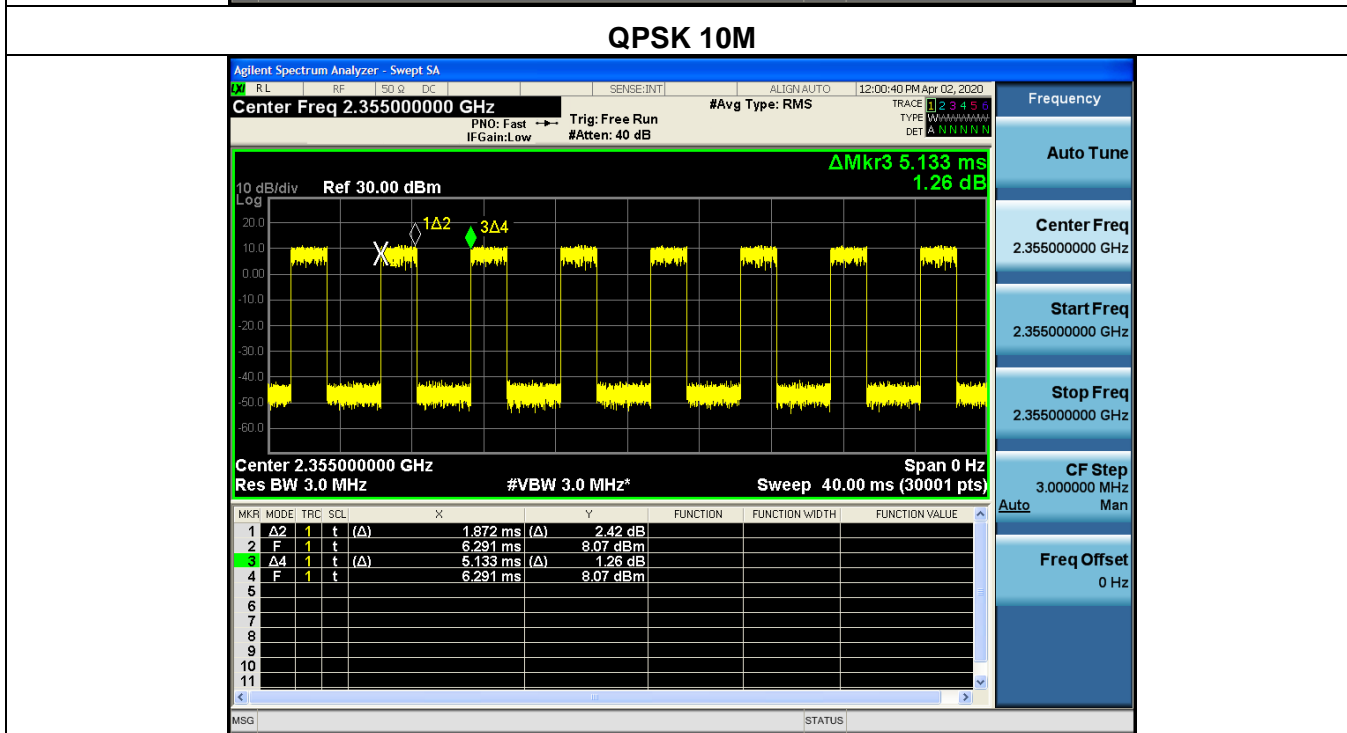
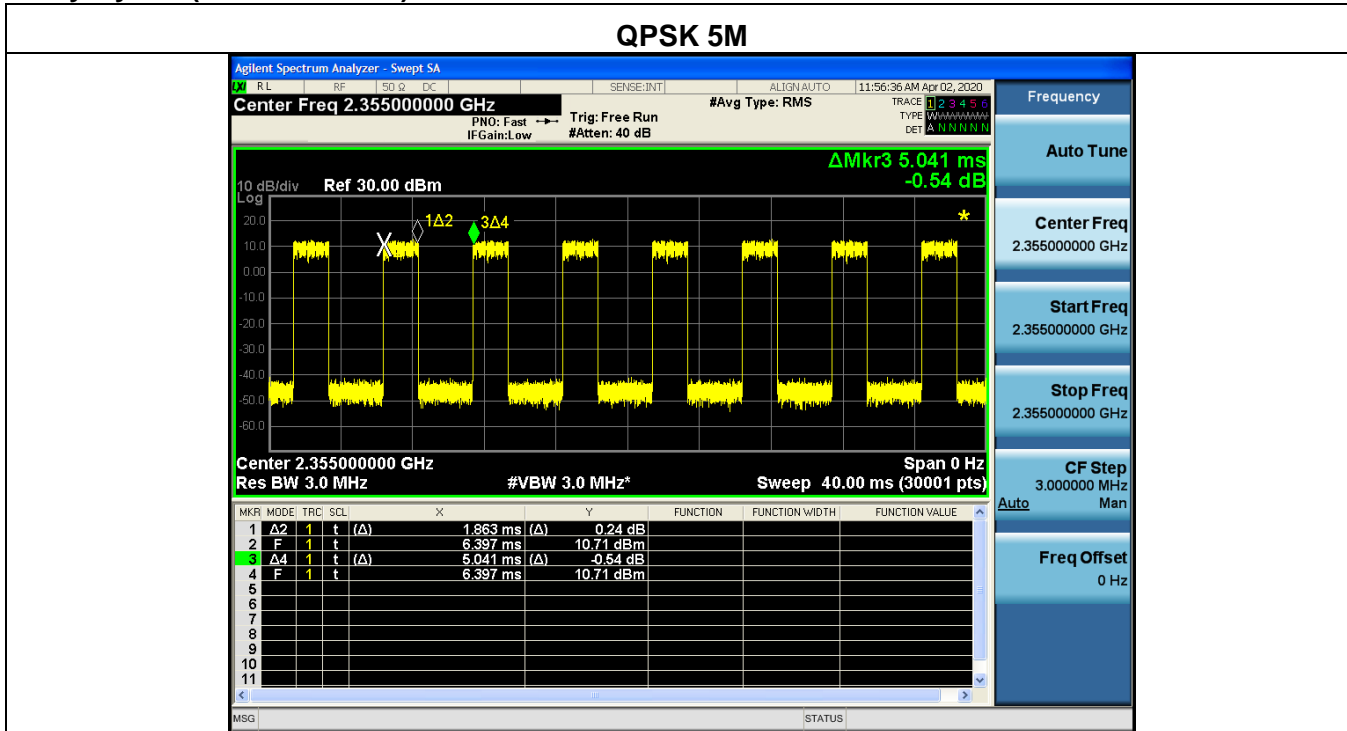


16QAM 10M



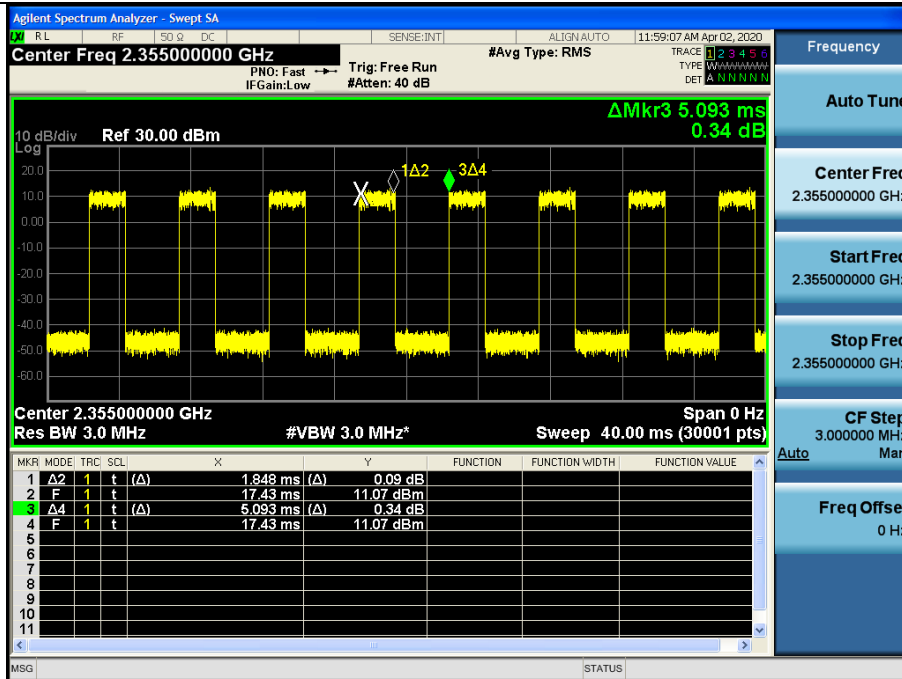


Duty Cycle: (2350-2360MHz)

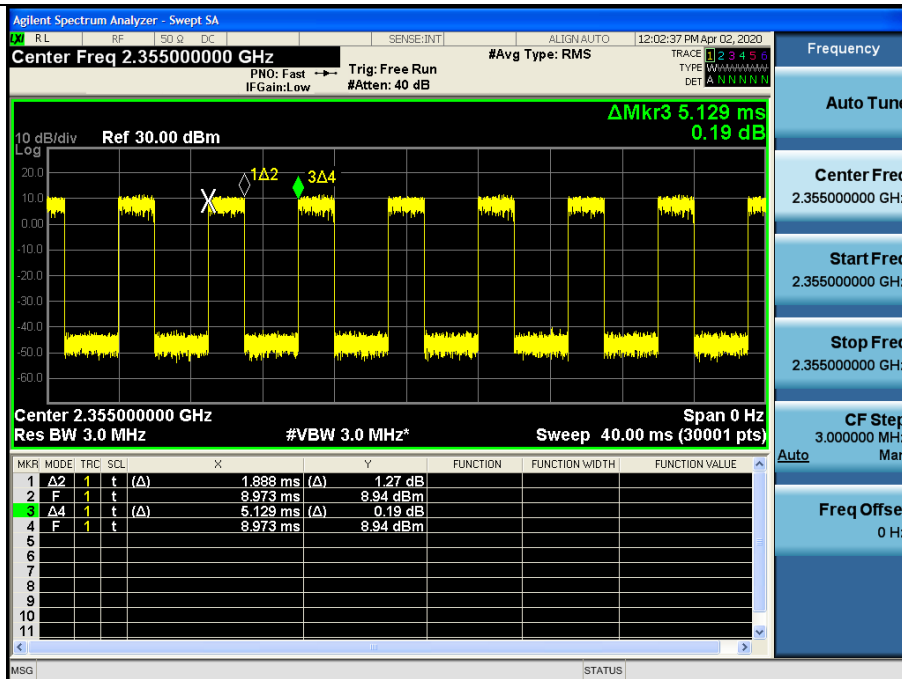




16QAM 5M



16QAM 10M



5.2 Radiated Power (ERP/EIRP)

5.2.1 Limit

- 1) 22.913(a) - The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.
- 2) 27.50 (c) (10) the following power and antenna height requirements apply to stations transmitting in the 698–746 MHz band, the portable stations (hand-held devices) are limited to 3 watts ERP.
- 3) 27.50 (b)(10) Portable stations (hand-held devices) transmitting in the 746–757 MHz, 758–763 MHz, 776–793 MHz, and 805–806 MHz bands are limited to 3 watts ERP.
- 4) 27.50 (d)(4) The following power and antenna height requirements apply to stations transmitting in the 1710–1755 MHz and 2110–2155 MHz bands: Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP.
- 5) 27.50(h) The following power limits shall apply in the BRS and EBS:
(2) Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.
- 6) 27.50(a)(3): For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth.
- 7) For FCC 22.913: The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.
- 8) For FCC 24.234: Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

5.2.2 Test procedure

- 9) The EUT was placed on a non-conductive turntable using a nonconductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.
- 10) During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.
- 11) ERP in frequency band below 1GHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:

$$\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$$

- 12) EIRP in frequency band above 1GHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:

$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$$

- 13) The worse case was relating to the conducted output power.

5.2.3 Test setup

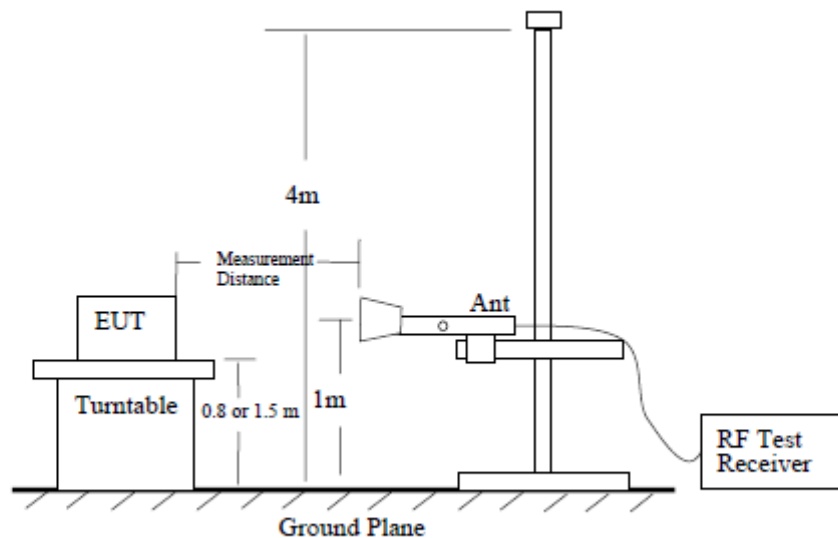


Figure 6—Test site-up for radiated ERP and/or EIRP measurements

5.2.4 Test results

LTE Band 2

Radiated Power (EIRP) for Band 2										
Modulation	BW (MHz)	Frequency (MHz)	Result						Conclusion	
			SG Level (dBm)	Cable Loss (dB)	Antenna Gain (dB)	Max. EIRP (dBm)	Max. EIRP (mW)	Polar		
								H/V		
QPSK	1.4	1880	7.28	0.47	13.60	20.41	109.966	H	Pass	
		1880	8.07	0.47	13.60	21.20	131.910	V	Pass	
	3	1880	9.10	0.47	13.60	22.23	167.202	H	Pass	
		1880	9.46	0.47	13.61	22.60	182.110	V	Pass	
	5	1880	10.54	0.47	13.60	23.67	232.585	H	Pass	
		1880	10.03	0.47	13.60	23.16	207.136	V	Pass	
	10	1880	8.72	0.47	13.60	21.85	152.970	H	Pass	
		1880	10.24	0.47	13.60	23.37	217.302	V	Pass	
	10	1880	10.25	0.47	13.60	23.38	217.911	H	Pass	
		1880	8.07	0.47	13.60	21.20	131.884	V	Pass	
	15	1880	9.57	0.47	13.60	22.70	186.139	H	Pass	
		1880	8.59	0.47	13.60	21.72	148.446	V	Pass	
	20	1880	8.52	0.47	13.60	21.65	146.334	H	Pass	
		1880	9.12	0.47	13.60	22.25	167.797	V	Pass	
	16 QAM	1.4	1880	9.39	0.47	13.60	22.52	178.827	H	Pass
			1880	9.68	0.47	13.60	22.81	190.808	V	Pass
		3	1880	8.21	0.47	13.61	21.35	136.558	H	Pass
			1880	8.67	0.47	13.60	21.80	151.512	V	Pass
5		1880	9.17	0.47	13.61	22.31	170.045	H	Pass	
		1880	8.60	0.47	13.60	21.73	148.895	V	Pass	
10		1880	9.98	0.47	13.60	23.11	204.449	H	Pass	
		1880	10.80	0.47	13.61	23.94	247.780	V	Pass	
15		1880	10.59	0.47	13.60	23.72	235.541	H	Pass	
		1880	10.61	0.47	13.61	23.75	236.952	V	Pass	
20		1880	10.27	0.47	13.60	23.40	219.005	H	Pass	
		1880	11.13	0.47	13.60	24.26	266.780	V	Pass	

LTE Band 4

Radiated Power (EIRP) for Band 4										
Modulation	BW	Frequency	Result						Conclusion	
			SG Level	Cable Loss	Antenna Gain	Max. EIRP	Max. EIRP	Polar		
/	(MHz)	(MHz)	(dBm)	(dB)	(dB)	(dBm)	(mW)	H/V		
QPSK	1.4	1732.5	9.25	0.46	13.40	22.19	165.736	H	Pass	
		1732.5	9.02	0.46	13.40	21.96	157.162	V	Pass	
	3	1732.5	9.47	0.46	13.40	22.41	173.989	H	Pass	
		1732.5	8.41	0.46	13.40	21.35	136.319	V	Pass	
	5	1732.5	9.74	0.46	13.40	22.68	185.277	H	Pass	
		1732.5	8.83	0.46	13.40	21.77	150.301	V	Pass	
	10	1732.5	9.28	0.46	13.40	22.22	166.780	H	Pass	
		1732.5	8.88	0.46	13.40	21.82	151.981	V	Pass	
	15	1732.5	8.76	0.46	13.40	21.70	147.757	H	Pass	
		1732.5	8.20	0.46	13.40	21.14	130.043	V	Pass	
	20	1732.5	9.99	0.46	13.40	22.93	196.496	H	Pass	
		1732.5	8.50	0.46	13.40	21.44	139.214	V	Pass	
	16QAM	1.4	1732.5	8.21	0.46	13.40	21.15	130.405	H	Pass
			1732.5	9.03	0.46	13.40	21.97	157.495	V	Pass
3		1732.5	9.63	0.46	13.40	22.57	180.859	H	Pass	
		1732.5	10.19	0.46	13.40	23.13	205.396	V	Pass	
5		1732.5	9.87	0.46	13.40	22.81	190.994	H	Pass	
		1732.5	9.38	0.46	13.40	22.32	170.413	V	Pass	
10		1732.5	9.05	0.46	13.40	21.99	158.001	H	Pass	
		1732.5	9.72	0.46	13.40	22.66	184.631	V	Pass	
15		1732.5	9.80	0.46	13.40	22.74	188.139	H	Pass	
		1732.5	9.77	0.46	13.40	22.71	186.459	V	Pass	
20		1732.5	9.49	0.46	13.40	22.43	174.922	H	Pass	
		1732.5	9.79	0.46	13.40	22.73	187.469	V	Pass	

LTE Band 5

Radiated Power (ERP) for Band 5									
Modulation	BW	Frequency	Result						Conclusion
			SG Level	Cable Loss	Antenna Gain	Max. ERP	Max. ERP	Polar	
/	(MHz)	(MHz)	(dBm)	(dB)	(dB)	(dBm)	(mW)	H/V	
QPSK	1.4	836.5	18.24	3.20	5.50	20.54	113.166	H	Pass
		836.5	18.14	3.20	5.50	20.44	110.563	V	Pass
	3	836.5	18.94	3.20	5.50	21.24	133.054	H	Pass
		836.5	18.39	3.20	5.50	20.69	117.123	V	Pass
	5	836.5	18.74	3.20	5.50	21.04	127.066	H	Pass
		836.5	18.87	3.20	5.50	21.17	130.848	V	Pass
	10	836.5	19.19	3.20	5.50	21.49	140.903	H	Pass
		836.5	19.27	3.20	5.50	21.57	143.598	V	Pass
16QAM	1.4	836.5	18.46	3.20	5.50	20.76	119.221	H	Pass
		836.5	19.22	3.20	5.50	21.52	141.774	V	Pass
	3	836.5	18.34	3.20	5.50	20.64	115.805	H	Pass
		836.5	19.26	3.20	5.50	21.56	143.157	V	Pass
	5	836.5	18.38	3.20	5.50	20.68	116.940	H	Pass
		836.5	19.10	3.20	5.50	21.40	137.926	V	Pass
	10	836.5	19.53	3.20	5.50	21.83	152.332	H	Pass
		836.5	18.46	3.20	5.50	20.76	119.009	V	Pass

LTE Band 7

Radiated Power (EIRP) for Band 7									
Modulation	BW	Frequency	Result						Conclusion
			SG Level	Cable Loss	Antenna Gain	Max. EIRP	Max. EIRP	Polar	
/	(MHz)	(MHz)	(dBm)	(dB)	(dB)	(dBm)	(mW)	H/V	
QPSK	5	2535	12.75	3.20	11.30	20.85	121.632	H	Pass
		2535	13.69	3.20	11.30	21.79	150.895	V	Pass
	10	2535	13.17	3.20	11.30	21.27	133.933	H	Pass
		2535	12.98	3.20	11.30	21.08	128.330	V	Pass
	15	2535	12.73	3.20	11.30	20.83	121.149	H	Pass
		2535	12.58	3.20	11.30	20.68	116.941	V	Pass
	20	2535	12.43	3.20	11.30	20.53	112.909	H	Pass
		2535	12.57	3.20	11.30	20.67	116.548	V	Pass
16QAM	5	2535	13.25	3.20	11.30	21.35	136.394	H	Pass
		2535	13.46	3.20	11.30	21.56	143.328	V	Pass
	10	2535	13.38	3.20	11.30	21.48	140.456	H	Pass
		2535	12.31	3.20	11.30	20.41	109.995	V	Pass
	15	2535	13.57	3.20	11.30	21.67	147.048	H	Pass
		2535	13.85	3.20	11.30	21.95	156.559	V	Pass
	20	2535	13.14	3.20	11.30	21.24	132.950	H	Pass
		2535	12.63	3.20	11.30	20.73	118.321	V	Pass

LTE Band 12

Radiated Power (ERP) for Band 12									
Modulation	BW	Frequency	Result						Conclusion
			SG Level	Cable Loss	Antenna Gain	Max. ERP	Max. ERP	Polar	
/	(MHz)	(MHz)	(dBm)	(dB)	(dB)	(dBm)	(mW)	H/V	
QPSK	1.4	707.5	18.31	3.23	5.52	20.60	114.697	H	Pass
		707.5	18.15	3.23	5.52	20.44	110.616	V	Pass
	3	707.5	19.28	3.23	5.52	21.57	143.552	H	Pass
		707.5	18.91	3.23	5.52	21.20	131.897	V	Pass
	5	707.5	18.89	3.23	5.52	21.18	131.285	H	Pass
		707.5	18.99	3.23	5.52	21.28	134.238	V	Pass
	10	707.5	19.55	3.23	5.52	21.84	152.609	H	Pass
		707.5	18.76	3.23	5.52	21.05	127.351	V	Pass
16QAM	1.4	707.5	18.37	3.23	5.52	20.66	116.333	H	Pass
		707.5	18.83	3.23	5.52	21.12	129.317	V	Pass
	3	707.5	18.78	3.23	5.52	21.07	127.997	H	Pass
		707.5	18.81	3.23	5.52	21.10	128.902	V	Pass
	5	707.5	18.44	3.23	5.52	20.73	118.181	H	Pass
		707.5	18.98	3.23	5.52	21.27	133.926	V	Pass
	10	707.5	19.45	3.23	5.52	21.74	149.258	H	Pass
		707.5	18.57	3.23	5.52	20.86	121.875	V	Pass

LTE Band 13

Radiated Power (ERP) for Band 13									
Modulation	BW	Frequency	Result						Conclusion
			SG Level	Cable Loss	Antenna Gain	Max. ERP	Max. ERP	Polar	
/	(MHz)	(MHz)	(dBm)	(dB)	(dB)	(dBm)	(mW)	H/V	
QPSK	5	782	18.72	3.23	5.52	21.01	126.113	H	Pass
		782	18.93	3.23	5.52	21.22	132.397	V	Pass
	10	782	18.99	3.23	5.52	21.28	134.221	H	Pass
		782	19.63	3.23	5.52	21.92	155.585	V	Pass
16QAM	5	782	18.57	3.23	5.52	20.86	121.966	H	Pass
		782	19.62	3.23	5.52	21.91	155.340	V	Pass
	10	782	19.97	3.23	5.52	22.26	168.122	H	Pass
		782	18.65	3.23	5.52	20.94	124.234	V	Pass

LTE Band 38

Radiated Power (EIRP) for Band 38									
Modulation	BW	Frequency	Result						Conclusion
			SG Level	Cable Loss	Antenna Gain	Max. EIRP	Max. EIRP	Polar	
/	(MHz)	(MHz)	(dBm)	(dB)	(dB)	(dBm)	(mW)	H/V	
QPSK	5	2595	13.01	3.20	11.30	21.11	129.208	H	Pass
		2595	14.19	3.20	11.30	22.29	169.581	V	Pass
	10	2595	13.09	3.20	11.30	21.19	131.406	H	Pass
		2595	13.04	3.20	11.30	21.14	129.878	V	Pass
	15	2595	12.66	3.20	11.30	20.76	119.130	H	Pass
		2595	12.17	3.20	11.30	20.27	106.333	V	Pass
	20	2595	12.41	3.20	11.30	20.51	112.341	H	Pass
		2595	12.35	3.20	11.30	20.45	110.818	V	Pass
16QAM	5	2595	12.86	3.20	11.30	20.96	124.620	H	Pass
		2595	13.77	3.20	11.30	21.87	153.778	V	Pass
	10	2595	12.82	3.20	11.30	20.92	123.721	H	Pass
		2595	12.77	3.20	11.30	20.87	122.153	V	Pass
	15	2595	13.60	3.20	11.30	21.70	147.796	H	Pass
		2595	13.91	3.20	11.30	22.01	158.817	V	Pass
	20	2595	13.10	3.20	11.30	21.20	131.842	H	Pass
		2595	12.71	3.20	11.30	20.81	120.397	V	Pass

LTE Band 40

Radiated Power (EIRP) for Band 40(2305-2315MHz)									
Modulation	BW	Frequency	Result						Conclusion
			SG Level	Cable Loss	Antenna Gain	Max. EIRP	Max. EIRP	Polar	
/	(MHz)	(MHz)	(dBm)	(dB)	(dB)	(dBm)	(mW)	H/V	
QPSK	5	2310	18.18	3.23	5.52	20.47	111.313	H	Pass
		2310	18.77	3.23	5.52	21.06	127.497	V	Pass
	10	2310	18.08	3.23	5.52	20.37	108.948	H	Pass
		2310	18.28	3.23	5.52	20.57	114.017	V	Pass
16QAM	5	2310	17.58	3.23	5.52	19.87	97.093	H	Pass
		2310	18.52	3.23	5.52	20.81	120.442	V	Pass
	10	2310	18.53	3.23	5.52	20.82	120.765	H	Pass
		2310	18.62	3.23	5.52	20.91	123.174	V	Pass

Radiated Power (EIRP) for Band 40(2350-2360MHz)									
Modulation	BW	Frequency	Result						Conclusion
			SG Level	Cable Loss	Antenna Gain	Max. EIRP	Max. EIRP	Polar	
/	(MHz)	(MHz)	(dBm)	(dB)	(dB)	(dBm)	(mW)	H/V	
QPSK	5	2355	18.14	3.23	5.52	20.43	110.390	H	Pass
		2355	18.57	3.23	5.52	20.86	121.899	V	Pass
	10	2355	18.02	3.23	5.52	20.31	107.288	H	Pass
		2355	17.95	3.23	5.52	20.24	105.771	V	Pass
16QAM	5	2355	17.38	3.23	5.52	19.67	92.662	H	Pass
		2355	18.25	3.23	5.52	20.54	113.358	V	Pass
	10	2355	18.15	3.23	5.52	20.44	110.598	H	Pass
		2355	18.66	3.23	5.52	20.95	124.554	V	Pass