

Appendix B.2

LTE Band 2



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Wireless Laboratories

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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	23.81	24.06	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	23.80	24.05	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	23.69	23.94	33.00	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	22.76	23.01	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	23.52	23.77	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	23.59	23.84	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	23.52	23.77	33.00	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	22.58	22.83	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	23.54	23.79	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	23.57	23.82	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	23.54	23.79	33.00	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	22.63	22.88	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	23.00	23.25	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	23.12	23.37	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	22.96	23.21	33.00	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	21.95	22.20	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	22.92	23.17	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	22.96	23.21	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	22.81	23.06	33.00	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	21.75	22.00	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	22.79	23.04	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	22.83	23.08	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	22.89	23.14	33.00	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	21.72	21.97	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#0	23.79	24.04	33.00	PASS



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Band2	3MHz	QPSK	18615	1RB#8	23.80	24.05	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#14	23.81	24.06	33.00	PASS
Band2	3MHz	QPSK	18615	15RB#0	22.87	23.12	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#0	23.58	23.83	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#8	23.61	23.86	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#14	23.59	23.84	33.00	PASS
Band2	3MHz	QPSK	18900	15RB#0	22.66	22.91	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#0	23.60	23.85	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#8	23.63	23.88	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#14	23.56	23.81	33.00	PASS
Band2	3MHz	QPSK	19185	15RB#0	22.69	22.94	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#0	23.16	23.41	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#8	23.22	23.47	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#14	23.05	23.30	33.00	PASS
Band2	3MHz	16QAM	18615	15RB#0	21.91	22.16	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#0	22.81	23.06	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#8	22.85	23.10	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#14	22.86	23.11	33.00	PASS
Band2	3MHz	16QAM	18900	15RB#0	21.71	21.96	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#0	22.94	23.19	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#8	22.89	23.14	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#14	22.79	23.04	33.00	PASS
Band2	3MHz	16QAM	19185	15RB#0	21.76	22.01	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#0	23.82	24.07	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#12	23.84	24.09	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#24	23.85	24.10	33.00	PASS
Band2	5MHz	QPSK	18625	25RB#0	22.86	23.11	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#0	23.60	23.85	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#12	23.61	23.86	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#24	23.60	23.85	33.00	PASS
Band2	5MHz	QPSK	18900	25RB#0	22.69	22.94	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#0	23.56	23.81	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#12	23.57	23.82	33.00	PASS



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Band2	5MHz	QPSK	19175	1RB#24	23.55	23.80	33.00	PASS
Band2	5MHz	QPSK	19175	25RB#0	22.67	22.92	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#0	23.08	23.33	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#12	23.03	23.28	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#24	23.02	23.27	33.00	PASS
Band2	5MHz	16QAM	18625	25RB#0	21.92	22.17	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#0	22.89	23.14	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#12	22.93	23.18	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#24	22.96	23.21	33.00	PASS
Band2	5MHz	16QAM	18900	25RB#0	21.72	21.97	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#0	22.84	23.09	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#12	23.05	23.30	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#24	22.94	23.19	33.00	PASS
Band2	5MHz	16QAM	19175	25RB#0	21.71	21.96	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#0	23.81	24.06	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#24	23.87	24.12	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#49	23.68	23.93	33.00	PASS
Band2	10MHz	QPSK	18650	50RB#0	22.79	23.04	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#0	23.57	23.82	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#24	23.69	23.94	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#49	23.63	23.88	33.00	PASS
Band2	10MHz	QPSK	18900	50RB#0	22.68	22.93	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#0	23.66	23.91	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#24	23.65	23.90	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#49	23.60	23.85	33.00	PASS
Band2	10MHz	QPSK	19150	50RB#0	22.79	23.04	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#0	23.15	23.40	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#24	23.05	23.30	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#49	22.92	23.17	33.00	PASS
Band2	10MHz	16QAM	18650	50RB#0	21.79	22.04	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#0	22.83	23.08	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#24	22.92	23.17	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#49	22.98	23.23	33.00	PASS



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Band2	10MHz	16QAM	18900	50RB#0	21.73	21.98	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#0	23.00	23.25	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#24	22.91	23.16	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#49	22.93	23.18	33.00	PASS
Band2	10MHz	16QAM	19150	50RB#0	21.82	22.07	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#0	23.82	24.07	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#38	23.84	24.09	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#74	23.66	23.91	33.00	PASS
Band2	15MHz	QPSK	18675	75RB#0	22.79	23.04	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#0	23.56	23.81	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#38	23.60	23.85	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#74	23.64	23.89	33.00	PASS
Band2	15MHz	QPSK	18900	75RB#0	22.69	22.94	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#0	23.52	23.77	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#38	23.61	23.86	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#74	23.57	23.82	33.00	PASS
Band2	15MHz	QPSK	19125	75RB#0	22.71	22.96	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#0	23.07	23.32	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#38	23.09	23.34	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#74	22.79	23.04	33.00	PASS
Band2	15MHz	16QAM	18675	75RB#0	21.80	22.05	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#0	22.79	23.04	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#38	22.92	23.17	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#74	22.88	23.13	33.00	PASS
Band2	15MHz	16QAM	18900	75RB#0	21.73	21.98	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#0	22.86	23.11	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#38	22.86	23.11	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#74	22.96	23.21	33.00	PASS
Band2	15MHz	16QAM	19125	75RB#0	21.78	22.03	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#0	23.79	24.04	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#49	23.68	23.93	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#99	23.60	23.85	33.00	PASS
Band2	20MHz	QPSK	18700	100RB#0	22.82	23.07	33.00	PASS



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Band2	20MHz	QPSK	18900	1RB#0	23.54	23.79	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#49	23.62	23.87	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#99	23.58	23.83	33.00	PASS
Band2	20MHz	QPSK	18900	100RB#0	22.69	22.94	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#0	23.48	23.73	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#49	23.63	23.88	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#99	23.62	23.87	33.00	PASS
Band2	20MHz	QPSK	19100	100RB#0	22.70	22.95	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#0	22.97	23.22	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#49	23.01	23.26	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#99	22.93	23.18	33.00	PASS
Band2	20MHz	16QAM	18700	100RB#0	21.79	22.04	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#0	22.86	23.11	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#49	22.88	23.13	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#99	22.73	22.98	33.00	PASS
Band2	20MHz	16QAM	18900	100RB#0	21.72	21.97	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#0	22.71	22.96	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#49	22.83	23.08	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#99	22.88	23.13	33.00	PASS
Band2	20MHz	16QAM	19100	100RB#0	21.70	21.95	33.00	PASS



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Field Strength of Spurious Radiation

Test Band = LTE_2_20MHz_TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	2999.4999	24.52	1.62	29.79	-39.33	-13.00	26.33	142	208	Horizontal
2	3930.0465	52.09	-49.07	30.78	-61.46	-13.00	48.46	263	189	Horizontal
3	5408.3704	50.44	-45.87	33.15	-57.54	-13.00	44.54	321	7	Horizontal
4	9031.0516	48.42	-41.79	38.74	-49.89	-13.00	36.89	155	86	Horizontal
5	11923.9462	47.59	-38.08	39.48	-46.27	-13.00	33.27	137	135	Horizontal
6	17991.7496	48.99	-43.99	42.75	-47.51	-13.00	34.51	284	278	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	2995.4994	24.65	1.50	29.75	-39.36	-13.00	26.36	333	191	Vertical
2	3702.0351	53.62	-50.00	30.31	-61.33	-13.00	48.33	196	271	Vertical
3	5553.1277	52.49	-45.47	33.21	-55.03	-13.00	42.03	364	45	Vertical
4	7404.2202	52.10	-44.09	36.79	-50.46	-13.00	37.46	257	321	Vertical
5	11106.4053	49.65	-39.67	39.42	-45.86	-13.00	32.86	339	247	Vertical
6	17987.2494	49.18	-43.88	42.72	-47.24	-13.00	34.24	185	49	Vertical



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Test Band = LTE_2_20MHz_TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	2996.7496	24.59	1.54	29.77	-39.36	-13.00	26.36	199	261	Horizontal
2	4263.8132	51.93	-48.58	32.02	-59.89	-13.00	46.89	201	292	Horizontal
3	6776.4388	49.31	-44.53	36.25	-54.23	-13.00	41.23	146	129	Horizontal
4	9048.3024	48.22	-41.86	38.70	-50.20	-13.00	37.20	321	35	Horizontal
5	11887.1944	47.56	-37.97	39.55	-46.12	-13.00	33.12	189	322	Horizontal
6	17919.746	48.45	-42.98	42.32	-47.47	-13.00	34.47	121	2	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2995.7495	24.99	1.51	29.76	-39.00	-13.00	26.00	356	330	Vertical
2	3741.7871	55.30	-49.47	30.47	-58.96	-13.00	45.96	278	122	Vertical
3	5613.1307	55.26	-45.52	33.37	-52.15	-13.00	39.15	212	216	Vertical
4	7484.4742	58.98	-43.28	36.63	-42.93	-13.00	29.93	148	103	Vertical
5	9355.8178	50.20	-41.58	38.52	-48.12	-13.00	35.12	226	78	Vertical
6	11226.4113	54.58	-39.38	39.67	-40.39	-13.00	27.39	321	83	Vertical



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Test Band = LTE_2_20MHz_TM1
 Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	2997.2497	24.59	1.55	29.77	-39.35	-13.00	26.35	169	142	Horizontal
2	3782.2891	53.80	-49.49	30.50	-60.45	-13.00	47.45	221	84	Horizontal
3	6752.4376	49.25	-44.10	36.20	-53.91	-13.00	40.91	148	286	Horizontal
4	9012.3006	48.21	-41.70	38.78	-49.97	-13.00	36.97	156	257	Horizontal
5	11914.9457	47.32	-37.94	39.49	-46.39	-13.00	33.39	339	44	Horizontal
6	17909.2455	48.95	-42.98	42.26	-47.03	-13.00	34.03	257	262	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	2997.2497	24.51	1.55	29.77	-39.43	-13.00	26.43	344	164	Vertical
2	3782.2891	58.27	-49.49	30.50	-55.98	-13.00	42.98	356	295	Vertical
3	5673.1337	57.71	-44.99	33.39	-49.15	-13.00	36.15	285	221	Vertical
4	7563.9782	56.50	-43.83	36.77	-45.82	-13.00	32.82	321	104	Vertical
5	11346.4173	57.56	-39.25	39.65	-37.30	-13.00	24.30	148	79	Vertical
6	15128.8564	48.33	-39.82	39.74	-47.01	-13.00	34.01	320	153	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---

