

Appendix B.3

LTE Band 4



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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
Band4	1.4MHz	QPSK	19957	1RB#0	23.59	25.06	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.68	25.15	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.60	25.07	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.62	24.09	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.58	25.05	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.67	25.14	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.62	25.09	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.69	24.16	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.54	25.01	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.63	25.1	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.53	25	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.59	24.06	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.95	24.42	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.97	24.44	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.98	24.45	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.75	23.22	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.88	24.35	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.92	24.39	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.75	24.22	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.74	23.21	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.90	24.37	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.99	24.46	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.83	24.3	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.65	23.12	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.67	25.14	30.00	PASS



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Band4	3MHz	QPSK	19965	1RB#8	23.70	25.17	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.70	25.17	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.70	24.17	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.67	25.14	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.65	25.12	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.63	25.1	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.77	24.24	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.59	25.06	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.60	25.07	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.61	25.08	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.61	24.08	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.80	24.27	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	23.00	24.47	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	23.00	24.47	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.75	23.22	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.86	24.33	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.90	24.37	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.83	24.3	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.74	23.21	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.90	24.37	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.92	24.39	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.77	24.24	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.66	23.13	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.66	25.13	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.72	25.19	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.70	25.17	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.74	24.21	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.67	25.14	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.68	25.15	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.69	25.16	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.76	24.23	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.60	25.07	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.62	25.09	30.00	PASS



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Band4	5MHz	QPSK	20375	1RB#24	23.58	25.05	30.00	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.64	24.11	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.95	24.42	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	23.08	24.55	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.89	24.36	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.75	23.22	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.92	24.39	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.85	24.32	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.89	24.36	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.70	23.17	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.77	24.24	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.86	24.33	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.81	24.28	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.67	23.14	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.70	25.17	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.73	25.2	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.73	25.2	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.75	24.22	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.70	25.17	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.73	25.2	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.69	25.16	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.74	24.21	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.57	25.04	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.60	25.07	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.62	25.09	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.64	24.11	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.87	24.34	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.96	24.43	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.97	24.44	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.76	23.23	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	23.02	24.49	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.94	24.41	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.86	24.33	30.00	PASS



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Band4	10MHz	16QAM	20175	50RB#0	21.70	23.17	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.88	24.35	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.87	24.34	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.83	24.3	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.68	23.15	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.64	25.11	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.74	25.21	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.73	25.2	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.72	24.19	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.63	25.1	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.68	25.15	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.67	25.14	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.73	24.2	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.60	25.07	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.61	25.08	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.63	25.1	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.75	24.22	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.98	24.45	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	23.10	24.57	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	23.02	24.49	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.74	23.21	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.86	24.33	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.96	24.43	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.84	24.31	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.74	23.21	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.78	24.25	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.81	24.28	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.97	24.44	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.71	23.18	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.59	25.06	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.72	25.19	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.69	25.16	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.73	24.2	30.00	PASS



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Band4	20MHz	QPSK	20175	1RB#0	23.61	25.08	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.66	25.13	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.73	25.2	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.70	24.17	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.56	25.03	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.61	25.08	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.65	25.12	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.72	24.19	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.85	24.32	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.96	24.43	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.86	24.33	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.72	23.19	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.95	24.42	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.99	24.46	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.87	24.34	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.72	23.19	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.67	24.14	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.92	24.39	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.87	24.34	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.69	23.16	30.00	PASS



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Field Strength of Spurious Radiation

Test Band = LTE_4_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	2999.75	24.32	1.62	29.80	-39.52	-13.00	26.52	163	54	Horizontal
2	3422.2711	54.98	-50.15	29.71	-60.72	-13.00	47.72	254	77	Horizontal
3	5494.6247	50.72	-45.47	33.13	-56.88	-13.00	43.88	145	151	Horizontal
4	6844.6922	52.06	-45.09	36.12	-52.17	-13.00	39.17	224	117	Horizontal
5	11932.1966	47.30	-38.21	39.47	-46.70	-13.00	33.70	178	260	Horizontal
6	17904.7452	48.38	-42.98	42.23	-47.63	-13.00	34.63	162	235	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	2999.4999	24.54	1.62	29.79	-39.31	-13.00	26.31	322	202	Vertical
2	3422.2711	57.57	-50.15	29.71	-58.13	-13.00	45.13	247	295	Vertical
3	5133.1067	56.69	-47.09	33.57	-52.09	-13.00	39.09	189	192	Vertical
4	6844.6922	60.57	-45.09	36.12	-43.66	-13.00	30.66	226	16	Vertical
5	11977.9489	48.55	-38.60	39.42	-45.89	-13.00	32.89	321	51	Vertical
6	17917.4959	48.68	-42.98	42.30	-47.26	-13.00	34.26	114	337	Vertical



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Test Band = LTE_4_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	2988.9986	24.96	1.35	29.69	-39.26	-13.00	26.26	230	131	Horizontal
2	3447.0224	55.95	-50.11	29.61	-59.81	-13.00	46.81	214	73	Horizontal
3	5481.8741	51.38	-45.49	33.21	-56.16	-13.00	43.16	179	166	Horizontal
4	6894.1947	51.80	-44.94	36.19	-52.21	-13.00	39.21	365	304	Horizontal
5	11918.6959	47.09	-38.00	39.48	-46.69	-13.00	33.69	325	176	Horizontal
6	17990.9996	49.58	-43.97	42.75	-46.90	-13.00	33.90	343	280	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	2994.4993	24.82	1.47	29.74	-39.23	-13.00	26.23	213	262	Vertical
2	3447.0224	57.42	-50.11	29.61	-58.34	-13.00	45.34	220	138	Vertical
3	5170.6085	55.59	-46.77	33.06	-53.38	-13.00	40.38	178	201	Vertical
4	6894.1947	60.53	-44.94	36.19	-43.48	-13.00	30.48	365	280	Vertical
5	10341.3671	49.17	-40.92	38.66	-48.35	-13.00	35.35	325	47	Vertical
6	11926.1963	47.62	-38.12	39.47	-46.29	-13.00	33.29	214	206	Vertical



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Test Band = LTE_4_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	2995.9995	24.56	1.51	29.76	-39.43	-13.00	26.43	163	308	Horizontal
2	3472.5236	53.77	-49.63	29.69	-61.43	-13.00	48.43	254	320	Horizontal
3	6944.4472	51.57	-44.49	36.38	-51.80	-13.00	38.80	174	117	Horizontal
4	9040.052	48.76	-41.83	38.72	-49.61	-13.00	36.61	221	225	Horizontal
5	11929.9465	47.48	-38.18	39.47	-46.49	-13.00	33.49	146	191	Horizontal
6	17987.9994	48.82	-43.90	42.73	-47.61	-13.00	34.61	326	63	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	2999.2499	24.93	1.61	29.79	-38.93	-13.00	25.93	223	319	Vertical
2	3472.5236	56.15	-49.63	29.69	-59.05	-13.00	46.05	258	137	Vertical
3	5208.1104	55.63	-46.42	32.48	-53.57	-13.00	40.57	325	211	Vertical
4	6944.4472	58.83	-44.49	36.38	-44.54	-13.00	31.54	146	158	Vertical
5	10416.3708	48.98	-40.31	38.70	-47.89	-13.00	34.89	228	83	Vertical
6	11929.1965	47.55	-38.17	39.47	-46.41	-13.00	33.41	221	158	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---

