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# 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	23.04	26.61	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.06	26.63	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.01	26.58	30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.09	25.66	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	22.64	26.21	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.13	26.7	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	22.79	26.36	30	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	21.95	25.52	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.02	26.59	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	22.79	26.36	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	22.59	26.16	30	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	21.73	25.3	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	21.78	25.35	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	21.73	25.3	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	21.75	25.32	30	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	20.41	23.98	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	21.57	25.14	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	21.68	25.25	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	21.75	25.32	30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	20.72	24.29	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	21.81	25.38	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	21.9	25.47	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	21.88	25.45	30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	20.75	24.32	30	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.93	26.5	30	PASS
Band4	3MHz	QPSK	19965	1RB#8	22.72	26.29	30	PASS
Band4	3MHz	QPSK	19965	1RB#14	22.93	26.5	30	PASS



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Band4	3MHz	QPSK	19965	15RB#0	21.9	25.47	30	PASS
Band4	3MHz	QPSK	20175	1RB#0	22.77	26.34	30	PASS
Band4	3MHz	QPSK	20175	1RB#8	22.59	26.16	30	PASS
Band4	3MHz	QPSK	20175	1RB#14	22.88	26.45	30	PASS
Band4	3MHz	QPSK	20175	15RB#0	21.99	25.56	30	PASS
Band4	3MHz	QPSK	20385	1RB#0	22.32	25.89	30	PASS
Band4	3MHz	QPSK	20385	1RB#8	22.79	26.36	30	PASS
Band4	3MHz	QPSK	20385	1RB#14	22.57	26.14	30	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.48	26.05	30	PASS
Band4	3MHz	16QAM	19965	1RB#0	21.79	25.36	30	PASS
Band4	3MHz	16QAM	19965	1RB#8	21.72	25.29	30	PASS
Band4	3MHz	16QAM	19965	1RB#14	21.82	25.39	30	PASS
Band4	3MHz	16QAM	19965	15RB#0	20.87	24.44	30	PASS
Band4	3MHz	16QAM	20175	1RB#0	21.78	25.35	30	PASS
Band4	3MHz	16QAM	20175	1RB#8	21.54	25.11	30	PASS
Band4	3MHz	16QAM	20175	1RB#14	21.71	25.28	30	PASS
Band4	3MHz	16QAM	20175	15RB#0	20.89	24.46	30	PASS
Band4	3MHz	16QAM	20385	1RB#0	21.72	25.29	30	PASS
Band4	3MHz	16QAM	20385	1RB#8	21.82	25.39	30	PASS
Band4	3MHz	16QAM	20385	1RB#14	21.85	25.42	30	PASS
Band4	3MHz	16QAM	20385	15RB#0	20.71	24.28	30	PASS
Band4	5MHz	QPSK	19975	1RB#0	22.72	26.29	30	PASS
Band4	5MHz	QPSK	19975	1RB#12	22.57	26.14	30	PASS
Band4	5MHz	QPSK	19975	1RB#24	22.98	26.55	30	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.46	26.03	30	PASS
Band4	5MHz	QPSK	20175	1RB#0	22.78	26.35	30	PASS
Band4	5MHz	QPSK	20175	1RB#12	22.56	26.13	30	PASS
Band4	5MHz	QPSK	20175	1RB#24	22.73	26.3	30	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.61	26.18	30	PASS
Band4	5MHz	QPSK	20375	1RB#0	22.92	26.49	30	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.02	26.59	30	PASS
Band4	5MHz	QPSK	20375	1RB#24	22.36	25.93	30	PASS



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Band4	5MHz	16QAM	19975	1RB#0	21.71	25.28	30	PASS
Band4	5MHz	16QAM	19975	1RB#12	21.37	24.94	30	PASS
Band4	5MHz	16QAM	19975	1RB#24	21.73	25.3	30	PASS
Band4	5MHz	16QAM	19975	25RB#0	20.93	24.5	30	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.28	25.85	30	PASS
Band4	5MHz	16QAM	20175	1RB#12	21.63	25.2	30	PASS
Band4	5MHz	16QAM	20175	1RB#24	21.71	25.28	30	PASS
Band4	5MHz	16QAM	20175	25RB#0	20.98	24.55	30	PASS
Band4	5MHz	16QAM	20375	1RB#0	21.72	25.29	30	PASS
Band4	5MHz	16QAM	20375	1RB#12	21.79	25.36	30	PASS
Band4	5MHz	16QAM	20375	1RB#24	21.85	25.42	30	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.04	24.61	30	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.13	26.7	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	22.97	26.54	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	22.93	26.5	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.93	25.5	30	PASS
Band4	10MHz	QPSK	20175	1RB#0	22.66	26.23	30	PASS
Band4	10MHz	QPSK	20175	1RB#24	22.8	26.37	30	PASS
Band4	10MHz	QPSK	20175	1RB#49	22.69	26.26	30	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.06	25.63	30	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.96	26.53	30	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.16	26.73	30	PASS
Band4	10MHz	QPSK	20350	1RB#49	22.85	26.42	30	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.54	26.11	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	21.66	25.23	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	21.76	25.33	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	21.89	25.46	30	PASS
Band4	10MHz	16QAM	20000	27RB#0	20.8	24.37	30	PASS
Band4	10MHz	16QAM	20175	1RB#0	21.68	25.25	30	PASS
Band4	10MHz	16QAM	20175	1RB#24	21.86	25.43	30	PASS
Band4	10MHz	16QAM	20175	1RB#49	21.53	25.1	30	PASS



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Band4	10MHz	16QAM	20175	27RB#0	20.83	24.4	30	PASS
Band4	10MHz	16QAM	20350	1RB#0	21.77	25.34	30	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.04	25.61	30	PASS
Band4	10MHz	16QAM	20350	1RB#49	21.97	25.54	30	PASS
Band4	10MHz	16QAM	20350	27RB#0	20.93	24.5	30	PASS
Band4	15MHz	QPSK	20025	1RB#0	22.65	26.22	30	PASS
Band4	15MHz	QPSK	20025	1RB#38	22.71	26.28	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	22.98	26.55	30	PASS
Band4	15MHz	QPSK	20025	75RB#0	21.93	25.5	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	22.7	26.27	30	PASS
Band4	15MHz	QPSK	20175	1RB#38	22.86	26.43	30	PASS
Band4	15MHz	QPSK	20175	1RB#74	22.87	26.44	30	PASS
Band4	15MHz	QPSK	20175	75RB#0	22	25.57	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	22.93	26.5	30	PASS
Band4	15MHz	QPSK	20325	1RB#38	22.85	26.42	30	PASS
Band4	15MHz	QPSK	20325	1RB#74	22.82	26.39	30	PASS
Band4	15MHz	QPSK	20325	75RB#0	21.97	25.54	30	PASS
Band4	15MHz	16QAM	20025	1RB#0	21.85	25.42	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	21.65	25.22	30	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.13	25.7	30	PASS
Band4	15MHz	16QAM	20025	27RB#0	20.92	24.49	30	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.63	26.2	30	PASS
Band4	15MHz	16QAM	20175	1RB#38	21.56	25.13	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	21.37	24.94	30	PASS
Band4	15MHz	16QAM	20175	27RB#0	20.97	24.54	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	21.53	25.1	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	21.82	25.39	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	21.87	25.44	30	PASS
Band4	15MHz	16QAM	20325	27RB#0	20.92	24.49	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.93	26.5	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.07	26.64	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	22.96	26.53	30	PASS



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Band4	20MHz	QPSK	20175	1RB#0	22.63	26.2	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	22.8	26.37	30	PASS
Band4	20MHz	QPSK	20175	1RB#99	22.16	25.73	30	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.03	25.6	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.92	26.49	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	22.82	26.39	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	22.83	26.4	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.17	25.74	30	PASS
Band4	20MHz	16QAM	20050	1RB#0	21.43	25	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	21.76	25.33	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	21.86	25.43	30	PASS
Band4	20MHz	16QAM	20050	27RB#0	20.77	24.34	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	21.39	24.96	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	21.78	25.35	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	21.89	25.46	30	PASS
Band4	20MHz	16QAM	20175	27RB#0	20.86	24.43	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	20.59	24.16	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	21.91	25.48	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	21.65	25.22	30	PASS
Band4	20MHz	16QAM	20300	27RB#0	20.95	24.52	30	PASS



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## Field Strength of Spurious Radiation

Test Band = LTE Band 4\_20MHz \_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5133	57.28	-44.24	32.60	-49.62	-13.00	36.62	153	260	Horizontal
2	3422.18	71.31	-45.88	29.43	-40.40	-13.00	27.40	158	160	Horizontal
3	6844.36	54.90	-42.50	35.89	-46.97	-13.00	33.97	239	126	Horizontal
4	8555.45	37.78	-39.68	38.11	-59.05	-13.00	46.05	288	23	Horizontal
5	10266.54	33.78	-36.74	38.79	-59.42	-13.00	46.42	146	260	Horizontal
6	11977.63	31.22	-35.32	38.62	-60.73	-13.00	47.73	210	260	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.18	66.43	-45.88	29.43	-45.28	-13.00	32.28	134	209	Vertical
2	5133.27	50.84	-44.24	32.60	-56.06	-13.00	43.06	213	292	Vertical
3	6844.36	45.01	-42.50	35.89	-56.86	-13.00	43.86	197	292	Vertical
4	8555.45	35.59	-39.68	38.11	-61.24	-13.00	48.24	281	93	Vertical
5	10266.54	33.81	-36.74	38.79	-59.39	-13.00	46.39	146	5	Vertical
6	11977.63	30.93	-35.32	38.62	-61.02	-13.00	48.02	231	356	Vertical



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Test Band = LTE Band 4\_20MHz \_ TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447	69.69	-45.82	29.42	-41.97	-13.00	28.97	219	155	Horizontal
2	5170.5	61.03	-44.19	32.60	-45.82	-13.00	32.82	153	174	Horizontal
3	6894.36	50.08	-42.44	35.99	-51.63	-13.00	38.63	219	205	Horizontal
4	8617.95	39.48	-39.74	38.18	-57.34	-13.00	44.34	284	174	Horizontal
5	10341.54	33.23	-36.68	38.88	-59.83	-13.00	46.83	155	277	Horizontal
6	12065.13	32.11	-35.25	38.67	-59.74	-13.00	46.74	146	22	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447	69.45	-45.82	29.42	-42.21	-13.00	29.21	254	144	Vertical
2	5170.5	62.30	-44.19	32.60	-44.55	-13.00	31.55	189	127	Vertical
3	6894.36	46.87	-42.44	35.99	-54.84	-13.00	41.84	261	294	Vertical
4	8617.95	36.83	-39.74	38.18	-59.99	-13.00	46.99	243	127	Vertical
5	10341.54	33.69	-36.68	38.88	-59.37	-13.00	46.37	216	127	Vertical
6	12065.13	32.12	-35.25	38.67	-59.73	-13.00	46.73	152	0	Vertical



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**Test Band = LTE Band 4\_20MHz \_ TM1**
**Test Channel = High Channel**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6944.25	53.86	-42.50	36.09	-47.81	-13.00	34.81	251	124	Horizontal
2	3472.18	67.24	-45.76	29.41	-44.37	-13.00	31.37	187	326	Horizontal
3	5208.27	64.14	-44.14	32.60	-42.66	-13.00	29.66	146	294	Horizontal
4	8680.45	37.12	-39.46	38.25	-59.35	-13.00	46.35	235	21	Horizontal
5	10416.54	31.18	-36.46	38.96	-61.58	-13.00	48.58	288	207	Horizontal
6	12152.63	31.50	-35.22	38.75	-60.23	-13.00	47.23	129	21	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.5	67.88	-45.76	29.41	-43.73	-13.00	30.73	219	126	Vertical
2	5208	69.04	-44.14	32.60	-37.76	-13.00	24.76	248	295	Vertical
3	6944.25	47.08	-42.50	36.09	-54.59	-13.00	41.59	156	1	Vertical
4	8680.45	35.88	-39.46	38.25	-60.59	-13.00	47.59	234	295	Vertical
5	10416.54	31.67	-36.46	38.96	-61.09	-13.00	48.09	144	12	Vertical
6	12152.63	30.99	-35.22	38.75	-60.74	-13.00	47.74	213	1	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:

 $AF = \text{Antenna Factor(dB/m)}$ 
 $\text{Factor} = \text{Cable Factor(dB)} - \text{Preamplifier (dB)}$ 
 $\text{Level} = \text{Reading Level} + AF + \text{Factor} - 95.26$ 
 $\text{Margin} = \text{Limit} - \text{Level}$ 

---End of Attachment---



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