

# 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	22.6	27.25	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	22.8	27.45	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	22.79	27.44	30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	21.99	26.64	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.04	27.69	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.17	27.82	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.2	27.85	30	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.3	26.95	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.11	27.76	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.35	28	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.02	27.67	30	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.19	26.84	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	21.5	26.15	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	21.59	26.24	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	21.74	26.39	30	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	20.84	25.49	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.43	27.08	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	21.86	26.51	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	21.79	26.44	30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.32	25.97	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.14	26.79	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.03	26.68	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.05	26.7	30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.16	25.81	30	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.72	27.37	30	PASS
Band4	3MHz	QPSK	19965	1RB#8	22.87	27.52	30	PASS
Band4	3MHz	QPSK	19965	1RB#14	22.91	27.56	30	PASS



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Band4	3MHz	QPSK	19965	15RB#0	21.97	26.62	30	PASS
Band4	3MHz	QPSK	20175	1RB#0	22.97	27.62	30	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.15	27.8	30	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.17	27.82	30	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.35	27	30	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.13	27.78	30	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.08	27.73	30	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.31	27.96	30	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.36	27.01	30	PASS
Band4	3MHz	16QAM	19965	1RB#0	21.73	26.38	30	PASS
Band4	3MHz	16QAM	19965	1RB#8	21.64	26.29	30	PASS
Band4	3MHz	16QAM	19965	1RB#14	21.76	26.41	30	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.02	25.67	30	PASS
Band4	3MHz	16QAM	20175	1RB#0	21.97	26.62	30	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.01	26.66	30	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.12	26.77	30	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.31	25.96	30	PASS
Band4	3MHz	16QAM	20385	1RB#0	21.94	26.59	30	PASS
Band4	3MHz	16QAM	20385	1RB#8	20.45	25.1	30	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.12	26.77	30	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.32	25.97	30	PASS
Band4	5MHz	QPSK	19975	1RB#0	22.69	27.34	30	PASS
Band4	5MHz	QPSK	19975	1RB#12	22.83	27.48	30	PASS
Band4	5MHz	QPSK	19975	1RB#24	22.81	27.46	30	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.01	26.66	30	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.13	27.78	30	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.28	27.93	30	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.21	27.86	30	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.3	26.95	30	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.05	27.7	30	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.11	27.76	30	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.4	28.05	30	PASS



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Band4	5MHz	QPSK	20375	25RB#0	22.28	26.93	30	PASS
Band4	5MHz	16QAM	19975	1RB#0	21.5	26.15	30	PASS
Band4	5MHz	16QAM	19975	1RB#12	21.63	26.28	30	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.17	26.82	30	PASS
Band4	5MHz	16QAM	19975	25RB#0	21	25.65	30	PASS
Band4	5MHz	16QAM	20175	1RB#0	21.88	26.53	30	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.43	27.08	30	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.02	26.67	30	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.25	25.9	30	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.51	27.16	30	PASS
Band4	5MHz	16QAM	20375	1RB#12	21.8	26.45	30	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.77	27.42	30	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.26	25.91	30	PASS
Band4	10MHz	QPSK	20000	1RB#0	22.57	27.22	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	23	27.65	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	21.12	25.77	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.67	26.32	30	PASS
Band4	10MHz	QPSK	20175	1RB#0	22.66	27.31	30	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.1	27.75	30	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.02	27.67	30	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.18	26.83	30	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.88	27.53	30	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.32	27.97	30	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.37	28.02	30	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.37	27.02	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	21.42	26.07	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.3	26.95	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	20.36	25.01	30	PASS
Band4	10MHz	16QAM	20000	27RB#0	20.41	25.06	30	PASS
Band4	10MHz	16QAM	20175	1RB#0	21.56	26.21	30	PASS
Band4	10MHz	16QAM	20175	1RB#24	21.82	26.47	30	PASS
Band4	10MHz	16QAM	20175	1RB#49	21.97	26.62	30	PASS



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Band4	10MHz	16QAM	20350	1RB#0	21.96	26.61	30	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.05	26.7	30	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.28	26.93	30	PASS
Band4	10MHz	16QAM	20350	27RB#0	20.36	25.01	30	PASS
Band4	15MHz	QPSK	20025	1RB#0	22.66	27.31	30	PASS
Band4	15MHz	QPSK	20025	1RB#38	22.79	27.44	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	22.95	27.6	30	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.03	26.68	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	22.84	27.49	30	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.27	27.92	30	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.32	27.97	30	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.28	26.93	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.01	27.66	30	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.37	28.02	30	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.21	27.86	30	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.36	27.01	30	PASS
Band4	15MHz	16QAM	20025	1RB#0	21.93	26.58	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	21.55	26.2	30	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.13	26.78	30	PASS
Band4	15MHz	16QAM	20025	27RB#0	20.26	24.91	30	PASS
Band4	15MHz	16QAM	20175	1RB#0	21.71	26.36	30	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.01	26.66	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	21.98	26.63	30	PASS
Band4	15MHz	16QAM	20175	27RB#0	20.55	25.2	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.1	26.75	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.04	26.69	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.29	26.94	30	PASS
Band4	15MHz	16QAM	20325	27RB#0	20.41	25.06	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.65	27.3	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.24	27.89	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	22.99	27.64	30	PASS



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Band4	20MHz	QPSK	20175	1RB#0	22.85	27.5	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.49	28.14	30	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.09	27.74	30	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.24	26.89	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.06	27.71	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.43	28.08	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.32	27.97	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.33	26.98	30	PASS
Band4	20MHz	16QAM	20050	1RB#0	21.95	26.6	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.1	26.75	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.18	26.83	30	PASS
Band4	20MHz	16QAM	20050	27RB#0	20.36	25.01	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	21.9	26.55	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.37	27.02	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.04	26.69	30	PASS
Band4	20MHz	16QAM	20175	27RB#0	20.41	25.06	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.18	26.83	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	21.95	26.6	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.68	27.33	30	PASS
Band4	20MHz	16QAM	20300	27RB#0	20.52	25.17	30	PASS



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### Field Strength of Spurious Radiation

Test Band = LTE Band4\_ TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.25	56.76	-46.28	29.45	-55.33	-13.00	42.33	154	331	Horizontal
2	5133	49.41	-45.34	32.95	-58.24	-13.00	45.24	189	181	Horizontal
3	6844.5	53.60	-44.14	35.89	-49.91	-13.00	36.91	126	166	Horizontal
4	8555.25	57.37	-41.46	37.66	-41.69	-13.00	28.69	256	43	Horizontal
5	10266.75	38.45	-39.23	38.83	-57.21	-13.00	44.21	231	331	Horizontal
6	15399.75	34.26	-33.49	38.71	-55.78	-13.00	42.78	197	347	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	3422.25	61.64	-46.28	29.45	-50.45	-13.00	37.45	186	270	Vertical
2	5133	47.87	-45.34	32.95	-59.78	-13.00	46.78	174	272	Vertical
3	6844.5	53.81	-44.14	35.89	-49.70	-13.00	36.70	158	135	Vertical
4	8555.25	58.23	-41.46	37.66	-40.83	-13.00	27.83	196	73	Vertical
5	10266.75	40.49	-39.23	38.83	-55.17	-13.00	42.17	142	87	Vertical
6	15399.75	38.90	-33.49	38.71	-51.14	-13.00	38.14	130	356	Vertical



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Test Band = LTE Band4\_ TM1

Test Channel = Mid

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	65.02	-46.27	29.47	-47.04	-13.00	34.04	184	287	Horizontal
2	5170.5	52.94	-45.31	32.97	-54.65	-13.00	41.65	196	270	Horizontal
3	6894	60.24	-44.10	35.95	-43.17	-13.00	30.17	125	29	Horizontal
4	8617.5	59.87	-41.39	37.78	-39.00	-13.00	26.00	192	46	Horizontal
5	10341.75	40.88	-39.06	38.85	-54.59	-13.00	41.59	175	356	Horizontal
6	15512.25	39.64	-35.32	38.56	-52.38	-13.00	39.38	173	331	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	66.49	-46.27	29.47	-45.57	-13.00	32.57	145	357	Vertical
2	5170.5	52.30	-45.31	32.97	-55.29	-13.00	42.29	156	273	Vertical
3	6894	60.60	-44.10	35.95	-42.81	-13.00	29.81	138	347	Vertical
4	8618.25	60.15	-41.40	37.78	-38.73	-13.00	25.73	175	75	Vertical
5	10341.75	44.63	-39.06	38.85	-50.84	-13.00	37.84	148	75	Vertical
6	15512.25	44.92	-35.32	38.56	-47.10	-13.00	34.10	190	136	Vertical



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Test Band = LTE Band4\_ TM1

Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3471.75	66.31	-46.27	29.49	-45.72	-13.00	32.72	156	283	Horizontal
2	5208	52.66	-45.26	32.98	-54.88	-13.00	41.88	148	134	Horizontal
3	6944.25	48.29	-43.86	36.01	-54.81	-13.00	41.81	129	150	Horizontal
4	8680.5	49.14	-41.62	37.88	-49.86	-13.00	36.86	135	74	Horizontal
5	10416.75	38.07	-38.97	38.88	-57.29	-13.00	44.29	185	43	Horizontal
6	14285.25	34.53	-36.03	40.17	-56.60	-13.00	43.60	140	7	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	68.93	-46.27	29.50	-43.10	-13.00	30.10	189	0	Vertical
2	5208	50.04	-45.26	32.98	-57.50	-13.00	44.50	191	314	Vertical
3	6944.25	51.39	-43.86	36.01	-51.71	-13.00	38.71	175	347	Vertical
4	8680.5	50.95	-41.62	37.88	-48.05	-13.00	35.05	142	59	Vertical
5	10416.75	39.41	-38.97	38.88	-55.95	-13.00	42.95	153	194	Vertical
6	14506.5	33.41	-34.87	40.01	-56.71	-13.00	43.71	160	347	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) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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