

Appendix B.2

LTE Band 2



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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	22.83	27.44	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	22.67	27.28	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	22.73	27.34	33	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	21.64	26.25	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	22.53	27.14	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	22.59	27.2	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	22.53	27.14	33	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	21.62	26.23	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	22.61	27.22	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	22.77	27.38	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	22.68	27.29	33	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	21.61	26.22	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	21.19	25.8	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	21.36	25.97	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	21.25	25.86	33	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	20.63	25.24	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	21.28	25.89	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	21.55	26.16	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	21.81	26.42	33	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	20.67	25.28	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	21.22	25.83	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	21.97	26.58	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	21.16	25.77	33	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	20.57	25.18	33	PASS
Band2	3MHz	QPSK	18615	1RB#0	22.92	27.53	33	PASS



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Band2	3MHz	QPSK	18615	1RB#8	22.67	27.28	33	PASS
Band2	3MHz	QPSK	18615	1RB#14	22.70	27.31	33	PASS
Band2	3MHz	QPSK	18615	15RB#0	21.73	26.34	33	PASS
Band2	3MHz	QPSK	18900	1RB#0	22.55	27.16	33	PASS
Band2	3MHz	QPSK	18900	1RB#8	22.61	27.22	33	PASS
Band2	3MHz	QPSK	18900	1RB#14	22.77	27.38	33	PASS
Band2	3MHz	QPSK	18900	15RB#0	21.69	26.3	33	PASS
Band2	3MHz	QPSK	19185	1RB#0	22.74	27.35	33	PASS
Band2	3MHz	QPSK	19185	1RB#8	22.84	27.45	33	PASS
Band2	3MHz	QPSK	19185	1RB#14	22.83	27.44	33	PASS
Band2	3MHz	QPSK	19185	15RB#0	21.59	26.2	33	PASS
Band2	3MHz	16QAM	18615	1RB#0	21.31	25.92	33	PASS
Band2	3MHz	16QAM	18615	1RB#8	21.25	25.86	33	PASS
Band2	3MHz	16QAM	18615	1RB#14	21.28	25.89	33	PASS
Band2	3MHz	16QAM	18615	15RB#0	20.92	25.53	33	PASS
Band2	3MHz	16QAM	18900	1RB#0	21.33	25.94	33	PASS
Band2	3MHz	16QAM	18900	1RB#8	21.73	26.34	33	PASS
Band2	3MHz	16QAM	18900	1RB#14	21.28	25.89	33	PASS
Band2	3MHz	16QAM	18900	15RB#0	20.91	25.52	33	PASS
Band2	3MHz	16QAM	19185	1RB#0	21.20	25.81	33	PASS
Band2	3MHz	16QAM	19185	1RB#8	21.44	26.05	33	PASS
Band2	3MHz	16QAM	19185	1RB#14	21.40	26.01	33	PASS
Band2	3MHz	16QAM	19185	15RB#0	20.55	25.16	33	PASS
Band2	5MHz	QPSK	18625	1RB#0	22.61	27.22	33	PASS
Band2	5MHz	QPSK	18625	1RB#12	22.76	27.37	33	PASS
Band2	5MHz	QPSK	18625	1RB#24	22.73	27.34	33	PASS
Band2	5MHz	QPSK	18625	25RB#0	21.64	26.25	33	PASS
Band2	5MHz	QPSK	18900	1RB#0	22.65	27.26	33	PASS
Band2	5MHz	QPSK	18900	1RB#12	22.64	27.25	33	PASS
Band2	5MHz	QPSK	18900	1RB#24	22.83	27.44	33	PASS
Band2	5MHz	QPSK	18900	25RB#0	21.70	26.31	33	PASS
Band2	5MHz	QPSK	19175	1RB#0	22.64	27.25	33	PASS



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Band2	5MHz	QPSK	19175	1RB#12	22.79	27.4	33	PASS
Band2	5MHz	QPSK	19175	1RB#24	22.84	27.45	33	PASS
Band2	5MHz	QPSK	19175	25RB#0	21.61	26.22	33	PASS
Band2	5MHz	16QAM	18625	1RB#0	21.07	25.68	33	PASS
Band2	5MHz	16QAM	18625	1RB#12	21.51	26.12	33	PASS
Band2	5MHz	16QAM	18625	1RB#24	21.04	25.65	33	PASS
Band2	5MHz	16QAM	18625	25RB#0	20.89	25.5	33	PASS
Band2	5MHz	16QAM	18900	1RB#0	21.65	26.26	33	PASS
Band2	5MHz	16QAM	18900	1RB#12	21.99	26.6	33	PASS
Band2	5MHz	16QAM	18900	1RB#24	21.32	25.93	33	PASS
Band2	5MHz	16QAM	18900	25RB#0	20.83	25.44	33	PASS
Band2	5MHz	16QAM	19175	1RB#0	21.22	25.83	33	PASS
Band2	5MHz	16QAM	19175	1RB#12	21.96	26.57	33	PASS
Band2	5MHz	16QAM	19175	1RB#24	21.08	25.69	33	PASS
Band2	5MHz	16QAM	19175	25RB#0	20.79	25.4	33	PASS
Band2	10MHz	QPSK	18650	1RB#0	22.96	27.57	33	PASS
Band2	10MHz	QPSK	18650	1RB#24	22.96	27.57	33	PASS
Band2	10MHz	QPSK	18650	1RB#49	22.58	27.19	33	PASS
Band2	10MHz	QPSK	18650	50RB#0	21.63	26.24	33	PASS
Band2	10MHz	QPSK	18900	1RB#0	22.62	27.23	33	PASS
Band2	10MHz	QPSK	18900	1RB#24	22.97	27.58	33	PASS
Band2	10MHz	QPSK	18900	1RB#49	22.61	27.22	33	PASS
Band2	10MHz	QPSK	18900	50RB#0	21.64	26.25	33	PASS
Band2	10MHz	QPSK	19150	1RB#0	22.82	27.43	33	PASS
Band2	10MHz	QPSK	19150	1RB#24	22.98	27.59	33	PASS
Band2	10MHz	QPSK	19150	1RB#49	22.70	27.31	33	PASS
Band2	10MHz	QPSK	19150	50RB#0	21.57	26.18	33	PASS
Band2	10MHz	16QAM	18650	1RB#0	21.15	25.76	33	PASS
Band2	10MHz	16QAM	18650	1RB#24	21.20	25.81	33	PASS
Band2	10MHz	16QAM	18650	1RB#49	21.84	26.45	33	PASS
Band2	10MHz	16QAM	18650	50RB#0	20.62	25.23	33	PASS
Band2	10MHz	16QAM	18900	1RB#0	21.18	25.79	33	PASS



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Band2	10MHz	16QAM	18900	1RB#24	21.88	26.49	33	PASS
Band2	10MHz	16QAM	18900	1RB#49	21.68	26.29	33	PASS
Band2	10MHz	16QAM	18900	50RB#0	20.76	25.37	33	PASS
Band2	10MHz	16QAM	19150	1RB#0	21.28	25.89	33	PASS
Band2	10MHz	16QAM	19150	1RB#24	21.67	26.28	33	PASS
Band2	10MHz	16QAM	19150	1RB#49	21.74	26.35	33	PASS
Band2	10MHz	16QAM	19150	50RB#0	20.57	25.18	33	PASS
Band2	15MHz	QPSK	18675	1RB#0	22.60	27.21	33	PASS
Band2	15MHz	QPSK	18675	1RB#38	22.85	27.46	33	PASS
Band2	15MHz	QPSK	18675	1RB#74	22.62	27.23	33	PASS
Band2	15MHz	QPSK	18675	75RB#0	21.59	26.2	33	PASS
Band2	15MHz	QPSK	18900	1RB#0	22.63	27.24	33	PASS
Band2	15MHz	QPSK	18900	1RB#38	22.73	27.34	33	PASS
Band2	15MHz	QPSK	18900	1RB#74	22.49	27.1	33	PASS
Band2	15MHz	QPSK	18900	75RB#0	21.60	26.21	33	PASS
Band2	15MHz	QPSK	19125	1RB#0	22.50	27.11	33	PASS
Band2	15MHz	QPSK	19125	1RB#38	22.56	27.17	33	PASS
Band2	15MHz	QPSK	19125	1RB#74	22.62	27.23	33	PASS
Band2	15MHz	QPSK	19125	75RB#0	21.52	26.13	33	PASS
Band2	15MHz	16QAM	18675	1RB#0	21.18	25.79	33	PASS
Band2	15MHz	16QAM	18675	1RB#38	21.18	25.79	33	PASS
Band2	15MHz	16QAM	18675	1RB#74	21.26	25.87	33	PASS
Band2	15MHz	16QAM	18675	75RB#0	20.62	25.23	33	PASS
Band2	15MHz	16QAM	18900	1RB#0	21.10	25.71	33	PASS
Band2	15MHz	16QAM	18900	1RB#38	21.37	25.98	33	PASS
Band2	15MHz	16QAM	18900	1RB#74	21.28	25.89	33	PASS
Band2	15MHz	16QAM	18900	75RB#0	20.78	25.39	33	PASS
Band2	15MHz	16QAM	19125	1RB#0	21.16	25.77	33	PASS
Band2	15MHz	16QAM	19125	1RB#38	21.13	25.74	33	PASS
Band2	15MHz	16QAM	19125	1RB#74	21.28	25.89	33	PASS
Band2	15MHz	16QAM	19125	75RB#0	20.69	25.3	33	PASS
Band2	20MHz	QPSK	18700	1RB#0	22.82	27.43	33	PASS



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Band2	20MHz	QPSK	18700	1RB#49	22.87	27.48	33	PASS
Band2	20MHz	QPSK	18700	1RB#99	22.62	27.23	33	PASS
Band2	20MHz	QPSK	18700	100RB#0	21.75	26.36	33	PASS
Band2	20MHz	QPSK	18900	1RB#0	22.65	27.26	33	PASS
Band2	20MHz	QPSK	18900	1RB#49	22.90	27.51	33	PASS
Band2	20MHz	QPSK	18900	1RB#99	22.65	27.26	33	PASS
Band2	20MHz	QPSK	18900	100RB#0	21.52	26.13	33	PASS
Band2	20MHz	QPSK	19100	1RB#0	22.45	27.06	33	PASS
Band2	20MHz	QPSK	19100	1RB#49	22.58	27.19	33	PASS
Band2	20MHz	QPSK	19100	1RB#99	22.73	27.34	33	PASS
Band2	20MHz	QPSK	19100	100RB#0	21.63	26.24	33	PASS
Band2	20MHz	16QAM	18700	1RB#0	21.32	25.93	33	PASS
Band2	20MHz	16QAM	18700	1RB#49	21.67	26.28	33	PASS
Band2	20MHz	16QAM	18700	1RB#99	21.93	26.54	33	PASS
Band2	20MHz	16QAM	18700	100RB#0	20.76	25.37	33	PASS
Band2	20MHz	16QAM	18900	1RB#0	21.78	26.39	33	PASS
Band2	20MHz	16QAM	18900	1RB#49	21.78	26.39	33	PASS
Band2	20MHz	16QAM	18900	1RB#99	21.86	26.47	33	PASS
Band2	20MHz	16QAM	18900	100RB#0	20.67	25.28	33	PASS
Band2	20MHz	16QAM	19100	1RB#0	21.20	25.81	33	PASS
Band2	20MHz	16QAM	19100	1RB#49	21.84	26.45	33	PASS
Band2	20MHz	16QAM	19100	1RB#99	21.56	26.17	33	PASS
Band2	20MHz	16QAM	19100	100RB#0	20.62	25.23	33	PASS



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Field Strength of Spurious Radiation

Test Band = LTE Band2_ 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	3702.1800	57.68	-45.51	29.98	-53.11	-13.00	40.11	102	331	Horizontal
2	5553.2700	57.09	-45.15	32.97	-50.35	-13.00	37.35	146	197	Horizontal
3	7404.3600	48.93	-43.40	36.49	-53.24	-13.00	40.24	128	358	Horizontal
4	9255.4500	45.04	-40.23	38.38	-52.07	-13.00	39.07	173	359	Horizontal
5	11106.5400	42.44	-37.93	39.09	-51.66	-13.00	38.66	236	271	Horizontal
6	12957.6300	41.61	-37.24	39.79	-51.10	-13.00	38.10	261	91	Horizontal

Test Band = LTE Band2_ 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	3702	63.80	-45.51	29.98	-46.99	-13.00	33.99	198	242	Vertical
2	5553.2700	60.65	-45.15	32.97	-46.79	-13.00	33.79	145	118	Vertical
3	7404.3600	49.87	-43.40	36.49	-52.30	-13.00	39.30	128	360	Vertical
4	9255.4500	44.56	-40.23	38.38	-52.55	-13.00	39.55	166	360	Vertical
5	11106.5400	42.03	-37.93	39.09	-52.07	-13.00	39.07	214	332	Vertical
6	12957.6300	40.73	-37.24	39.79	-51.98	-13.00	38.98	173	29	Vertical



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Test Band = LTE Band2_ 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	3742.1800	67.82	-45.68	30.12	-43.00	-13.00	30.00	155	74	Horizontal
2	5613.2700	63.73	-45.04	33.07	-43.50	-13.00	30.50	145	44	Horizontal
3	7484.3600	48.84	-43.18	36.45	-53.15	-13.00	40.15	216	331	Horizontal
4	9355.4500	45.07	-40.00	38.46	-51.74	-13.00	38.74	295	74	Horizontal
5	11226.5400	43.54	-37.40	39.11	-50.01	-13.00	37.01	175	331	Horizontal
6	13097.6300	39.39	-37.01	39.87	-53.00	-13.00	40.00	180	105	Horizontal

Test Band = LTE Band2_ 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	3742.1800	67.94	-45.68	30.12	-42.88	-13.00	29.88	210	239	Vertical
2	5613	64.33	-45.04	33.07	-42.90	-13.00	29.90	154	120	Vertical
3	7484.3600	47.37	-43.18	36.45	-54.62	-13.00	41.62	129	225	Vertical
4	9355.4500	44.18	-40.00	38.46	-52.63	-13.00	39.63	175	3	Vertical
5	11226.5400	41.63	-37.40	39.11	-51.92	-13.00	38.92	163	225	Vertical
6	13097.6300	38.67	-37.01	39.87	-53.72	-13.00	40.72	214	225	Vertical



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Test Band = LTE Band2_ 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	3782.1800	69.02	-45.85	30.27	-41.82	-13.00	28.82	241	74	Horizontal
2	5673.2700	65.71	-44.91	33.29	-41.17	-13.00	28.17	120	46	Horizontal
3	7564.3600	50.77	-43.00	36.41	-51.09	-13.00	38.09	305	271	Horizontal
4	9455.4500	44.00	-40.05	38.48	-52.84	-13.00	39.84	184	344	Horizontal
5	11346.5400	42.02	-37.40	39.11	-51.53	-13.00	38.53	172	4	Horizontal
6	13237.6300	39.39	-37.08	39.96	-52.98	-13.00	39.98	291	226	Horizontal

Test Band = LTE Band2_ 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	3782.1800	68.97	-45.85	30.27	-41.87	-13.00	28.87	251	74	Vertical
2	5673.2700	64.25	-44.91	33.29	-42.63	-13.00	29.63	233	43	Vertical
3	7564.3600	50.47	-43.00	36.41	-51.39	-13.00	38.39	169	286	Vertical
4	9455.4500	43.69	-40.05	38.48	-53.15	-13.00	40.15	185	88	Vertical
5	11346.5400	41.57	-37.40	39.11	-51.98	-13.00	38.98	147	271	Vertical
6	13237.6300	38.98	-37.08	39.96	-53.39	-13.00	40.39	129	149	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---

